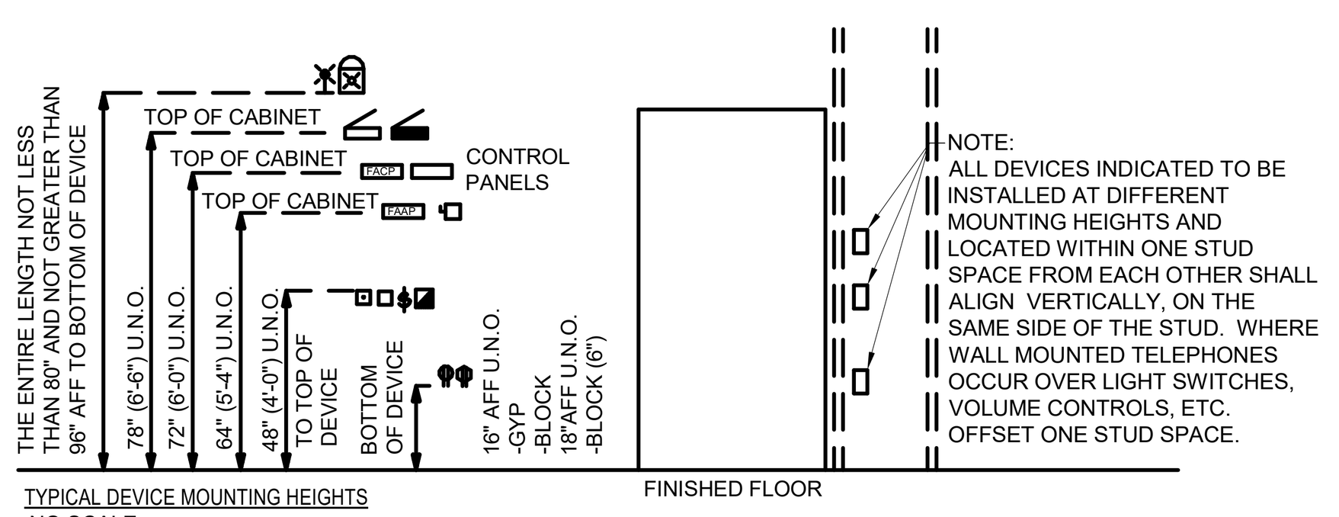
NOTES:

1. ALL EXPOSED RACEWAYS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE CONTOURS AND SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT PASSAGEWAYS OR ACCESS TO EQUIPMENT. MULTIPLE RACEWAYS SHOULD BE INSTALLED GROUPED TOGETHER. THE LOCATION OF PUBLICLY VISIBLE RACEWAYS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. (EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL.)
2. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE THE CLEARANCE IN FRONT AS REQUIRED BY NEC AMENDMENTS.
3. ALL CEILING ATTACHED OBJECTS AND FLOOR ATTACHED EQUIPMENT INCLUDING BUT NOT LIMITED TO PENDANT LIGHTING FIXTURES, GENERAL LIGHTING, MULTIPLE RACEWAYS, GENERATOR, TRANSFORMER ELECTRICAL SWITCHGEAR, AND SWITCHBOARDS SHALL BE INSTALLED IN ACCORDANCE WITH SUPPORTING OBJECTS FOR SEISMIC ZONE AS REQUIRED BY STATE AND LOCAL CODES.
4. ALL SWITCHGEAR, SWITCHBOARDS AND TRANSFORMERS SHALL HAVE A 4 INCH HOUSE KEEPING PAD. UNDER NO CONDITION SHALL THE HIGHEST SWITCH OR BREAKER EXCEED 6'-6" AFF.
5. DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL CONDITIONS AT THE BUILDINGS. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. HOWEVER THIS DOES NOT RELIEVE ANY SUB-CONTRACTOR FROM COORDINATING HIS WORK WITH ALL OTHER TRADES AND FROM ADJUSTING HIS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING COSTS TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.
6. COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A NEAT, INTEGRATED AND EFFICIENT INSTALLATION WHICH INCLUDE BUT ARE NOT LIMITED TO:
   a. EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (IE. THE ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL HVAC DRAWINGS, ELECTRICAL LIGHTING PLAN, FIRE PROTECTION PLAN, ETC.).
   b. COORDINATE NECESSARY EQUIPMENT, FIXTURES, ETC. SO THAT THE FINAL INSTALLATION IS COMPATIBLE WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES.
   c. THIS CONTRACTOR SHALL ASSIST THE DIVISION 23 CONTRACTOR IN PREPARING SHOP DRAWINGS FOR COORDINATING INSTALLATION OF ALL WORK (IE. LOCATING ALL LIGHTING FIXTURES IN CEILING WITH CEILING CLEARANCES, RACEWAYS, PIPING, EQUIPMENT FOR CLEARANCE THROUGHOUT).
   d. THE ELECTRICAL DRAWINGS INDICATE THE ELECTRICAL REQUIREMENTS FOR A SIGNIFICANT PORTION OF THE MECHANICAL AND PLUMBING SYSTEMS. ADDITIONAL MECHANICAL AND PLUMBING EQUIPMENT IS INDICATED ON THE DIVISION 21E DRAWINGS. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE COMPLETE WIRING AND FUSIBLE DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.
7. DEFINITIONS:
   a. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.
   b. "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER".
   c. "PROVIDE" MEANS TO "FURNISH AND INSTALL".
   d. "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS." SIGNIFICANT ASPECTS SHALL BE DETERMINED BY THE ENGINEER.
   e. "RE: DIVISION", AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE APPEARS. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN HIS/HER SUPPLIERS, SUBCONTRACTORS, AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT.
8. "FIRESTOPPING" REQUIREMENT. ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM-E-814. ALL PENETRATIONS SHALL MEET F AND T RATINGS AS REQUIRED BY THE BUILDING CODE.
9. WHERE DISCONNECTS ARE INDICATED ON DRAWINGS CONTRACTOR SHALL PROVIDE FINAL CONNECTION TO EQUIPMENT BEING SERVED BY DISCONNECT.
10. CONTRACTOR PROVIDE ALL MISCELLANEOUS SUPPORTS AS REQUIRED FOR A COMPLETE OPERABLE ELECTRICAL INSTALLATION INCLUDING MISCELLANEOUS STEEL, UNI-STRUT, ALL-THREAD, AIRCRAFT CABLE, ETC.



TYPICAL DEVICE MOUNTING HEIGHTS
NO SCALE

NOTES:

1. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.
2. CONTRACTOR SHALL ENSURE THAT ALL MOUNTING HEIGHTS COMPLY WITH CURRENT ADA REQUIREMENTS.
3. WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
4. ALL ABOVE COUNTER (DESIGNATED BY "AC") SHALL BE MOUNTED 8" ABOVE COUNTER OR MAXIMUM HEIGHT OF 44" TO TOP OF DEVICE. VERIFY HEIGHTS WITH ARCHITECT.
5. FOR CEILINGS BELOW 7'-4", FIRE ALARM STROBE OR HORN/STROBES SHALL BE WALL MOUNTED 6" BELOW FINISHED CEILING.
6. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE. ALL DUPLEX RECEPTACLES SHALL BE MOUNTED VERTICALLY.
7. REFER TO ARCHITECTURAL DRAWINGS FOR RECEPTACLE MOUNTING HEIGHTS. STANDARD CONVENIENCE RECEPTACLES SHALL BE MOUNTED AT HEIGHT INDICATED ABOVE WHERE MOUNTING HEIGHT IS NOT SHOWN ON ARCHITECTURAL DOCUMENTS.
8. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS DIMENSIONS WHERE AVAILABLE. WHERE DEVICES ARE MOUNTED IN CASEWORK OR MILLWORK, CONTRACTOR SHALL VERIFY EXACT DIMENSIONS PRIOR TO INSTALLATION.

RECEPTACLE MODIFIER TAGS

TAG	OUTLET RATING	NEMA/CAT NO	FEEDER (NOTE 1)	WIRING NOTES
A	NON-LOCKING, 20A, 125V, 1PH	5-20R	2#12,#12G,3/4"C (50FT)	DEDICATED, SINGLE OUTLET
B	NON-LOCKING, 30A, 125V, 1PH	5-30R	2#10,#10G,3/4"C (60FT)	HOT-NEUT-GND
C	NON-LOCKING, 20A, 250V, 1PH	6-20R	2#12,#12G,3/4"C (100FT)	HOT-HOT-GND
D	NON-LOCKING, 30A, 250V, 1PH	6-30R	2#10,#10G,3/4"C (120FT)	HOT-HOT-GND
E	NON-LOCKING, 50A, 250V, 1PH	6-50R	2#6,#10G,3/4"C (150FT)	HOT-HOT-GND
F	TBD	-	-	-
G	NON-LOCKING, 20A, 125/250V, 1PH	14-20R	3#12,#12G,3/4"C (100FT)	HOT-HOT-NEUT-GND
H	TBD	-	-	-
I	NOT USED	-	-	-
J	LOCKING, 20A, 125V, 1PH	L5-20R	2#12,#12G,3/4"C (50FT)	HOT-NEUT-GND
K	LOCKING, 30A, 125V, 1PH	L5-30R	2#10,#10G,3/4"C (60FT)	HOT-NEUT-GND
L	LOCKING, 20A, 250V, 1PH	L6-20R	2#12,#12G,3/4"C (100FT)	HOT-HOT-GND
M	LOCKING, 30A, 250V, 1PH	L6-30R	2#10,#10G,3/4"C (120FT)	HOT-HOT-GND
N	TBD	-	-	-
O	NOT USED	-	-	-
P	LOCKING, 20A, 125/250V, 1PH	L14-20R	3#12,#12G,3/4"C (100FT)	HOT-HOT-NEUT-GND
Q	LOCKING, 30A, 125/250V, 1PH	L14-30R	3#10,#10G,3/4"C (120FT)	HOT-HOT-NEUT-GND
R	TBD	-	-	-
S	LOCKING, 20A, 208Y/120V, 3PH	L21-20R	4#12,#12G,3/4"C (120FT)	HOT-HOT-HOT-NEUT-GND
T	LOCKING, 30A, 208Y/120V, 3PH	L21-30R	4#10,#10G,3/4"C (130FT)	HOT-HOT-HOT-NEUT-GND
U	LOCKING, 50A, 250V, 3PH	HBL CS8365C	3#6,#10G,1"C (175FT)	HOT-HOT-HOT-GND
V	NOT USED	-	-	-
W	PIN&SLEEVE, 60A, 208Y/120V, 3PH	HBL 560R9W	4#4,#10G,1-1/4"C (200FT)	HOT-HOT-HOT-NEUT-GND
X	PIN&SLEEVE, 100A, 208Y/120V, 3PH	HBL 5100R9W	4#1,#8G,1-1/2"C (250FT)	HOT-HOT-HOT-NEUT-GND
Y	TBD	-	-	-
Z	TBD	-	-	-

NOTE1: DISTANCE NOTED IS MAXIMUM RUN LENGTH FOR WIRE SIZE. INCREASE PER NEC, INCLUDING GROUND, FOR LONGER RUNS OR FOR DERATING FACTORS (AMB TEMP, EXTERIOR, ETC.)

ABBREVIATIONS

A,AMP	AMPERE
AC	ABOVE COUNTER
AF	AMPERE FUSE/FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
AM	AMMETER
ANN	ANNUNCIATOR
ANT	ANTENNA
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
C	CONDUIT
CAB	CABINET
CAM	CAMERA
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CO	CONDUIT ONLY
COMB	COMBINATION
COND	CONDUCTOR
CT	CURRENT TRANSFORMER
CU	COPPER
dB	DECIBEL
DGP	DIGITAL GATHERING PANEL
DISC	DISCONNECT
DL	DAMP LISTED
DWG	DRAWING
DVR	DIGITAL VIDEO RECORDER
E	EXISTING
EA	EACH
EBB	ELECTRIC BASE BOARD
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
EHC	ELECTRIC HEATING COIL
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
EOL	F/A END OF LINE RESISTOR
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
F	FUSE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FC	FOOTCANDLES
FDR	FEEDER
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FO	FIBER OPTIC
G	GROUND
GALV	GALVANIZED
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HD	HEAVY DUTY
HH	HAND HOLE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HT	HEIGHT
HTR	HEATER
ID	INSIDE DIAMETER
IG	ISOLATED GROUND
IMC	INTERMEDIATE GRADE METALLIC CONDUIT
INCAND	INCANDESCENT
J-BOX	JUNCTION BOX
KCMIL	THOUSAND OF CIRCULAR MILLS
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LA	LIGHTNING ARRESTOR
LFC	LIQUIDTIGHT FLEXIBLE CONDUIT
LTG	LIGHTING
LV	LOW VOLTAGE
MA	MILLIAMPERE

ABBREVIATIONS

MAX	MAXIMUM
MB	MAIN BREAKER
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MFR	MANUFACTURER
MG	MOTOR GENERATOR
MH	MANHOLE OR METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOV	MOTOR OPERATED VALVE
MS	MOTOR STARTER
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MS	MOTOR STARTER
MV	MEDIUM VOLTAGE
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OA	OUTSIDE DIAMETER
P	POLE
PA	PUBLIC ADDRESS
PB	PUSH BUTTON
PE	PHOTOELECTRIC
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PR	PAIR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
QR	QUARTZ RESTRIKE
R	EXISTING TO BE RELOCATED
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SCP	SECURITY CONTROL PANEL
SEC	SECONDARY/SECOND
SEC	SECTION
SHT	SHEET
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SQ.FT	SQUARE FEET
ST	SHUNT TRIP
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIME CLOCK
TEL	TELEPHONE
TEMP	TEMPERATURE
TELECOM	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUND BUS
TL	TWIST LOCK
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS
TR	TELECOMMUNICATIONS ROOM
UC	UNDER COUNTER
U/G	UNDER GROUND
UH	UNIT HEATER
UL	UNDERWRITER LABORATORIES
UNF	UNFUSED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
W	WATT
W/	WITH
WH	WATT HOUR
WLAN	WIRELESS LOCAL AREA NETWORK
WP	WEATHERPROOF (IN-USE TYPE REQUIRED)
WPL	WEATHERPROOF LOCKABLE ENCLOSURE.
WT	WATERTIGHT
XMFR	TRANSFORMER
XP	EXPLOSION PROOF

MECHANICAL/PLUMBING COORDINATION REQUIREMENTS

THE ELECTRICAL DRAWINGS INDICATE THE ELECTRICAL REQUIREMENTS FOR A SIGNIFICANT PORTION OF THE MECHANICAL AND PLUMBING SYSTEMS. ADDITIONAL MECHANICAL AND PLUMBING EQUIPMENT IS INDICATED ON THE DIVISION 21, 22,AND 23 DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE COSTS IN THE DIVISION 26 PRICING TO CONNECT ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON THE ELECTRICAL DRAWINGS AND ON THE MECHANICAL AND PLUMBING DRAWINGS. PROVIDE COMPLETE WIRING, STARTERS, AND DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.

TELECOM / AUDIOVISUAL / SECURITY COORDINATION REQUIREMENTS

ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND BACKBOXES AS REQUIRED FOR TELECOMMUNICATIONS, AUDIO-VISUAL AND SECURITY SYSTEMS (DIVISION 27 AND DIVISION 28). REFER TO ALL TELECOMMUNICATION, AUDIO-VISUAL AND SECURITY CONSULTANT DRAWINGS FOR CONDUIT AND BACKBOX LOCATIONS, QUANTITIES, SIZES, ETC.

LIGHTING

- STRIP LIGHT
- WALL MOUNTED LINEAR
- RECESSED OR SURFACE MOUNTED 2'X4'
- RECESSED OR SURFACE MOUNTED 1'X4'
- RECESSED OR SURFACE MOUNTED 2'X2'
- WALL MOUNTED FLOODLIGHT
- WALL MOUNTED SCONCE
- DOWNLIGHT
- TRACK WITH TRACK HEADS
- EXIT SIGN. MOUNTING, FACES AND DIRECTIONAL ARROWS (CHEVRONS) PER PLANS
- EMERGENCY LIGHTING UNIT
- VACANCY SENSOR - CEILING MOUNTED
- VACANCY SENSOR - WALL MOUNTED
- OS — OCCUPANCY SENSOR - CEILING MOUNTED
- OS — OCCUPANCY SENSOR - WALL MOUNTED
- OS — OCCUPANCY SENSOR - COMBINATION WALL SWITCH
- VS — VACANCY SENSOR - COMBINATION WALL SWITCH
- M — MASTER SWITCH
- LIGHT SWITCH, REFER TO CONTROL DETAILS AND SCHEDULES FOR TYPE
- CEILING MOUNTED DAYLIGHT SENSOR
- P — SWITCH WITH PILOT LIGHT
- KL — KEYPAD FOR LIGHTING CONTROLS (PRESET SETTINGS)
- KM — KEYPAD FOR MOTORIZED SHADE CONTROLS (PRESET SETTINGS)
- K — KEYSWITCH
- JS — DOOR JAMB SWITCH
- ELCU — UL924 EMERGENCY AUTOMATIC TRANSFER DEVICE
- DIMMER SWITCH

LOWER CASE LETTERS AT LIGHT SWITCHES AND SENSORS DENOTE SWITCHING ZONE

LOWER CASE LETTERS AT LIGHT SWITCHES, FIXTURES, AND SENSORS INSIDE PARENTHESIS, ex. '(x)', DENOTES DAYLIGHT ZONE

OCCUPANCY SENSOR - AUTO ON/OFF
VACANCY SENSOR - AUTO OFF, MANUAL ON

ALL LIGHT SWITCHES ARE LOW VOLTAGE, UNO.

CEILING SENSORS SHALL HAVE 360 DEGREE RANGE WITH MIN 1500 SF COVERAGE.

SENSORS TECHNOLOGY SHALL BE PER CONTROL SCHEDULE OR AS NOTED. WHERE NOT NOTED, ASSUME SENSOR TO BE MULTI-TECHNOLOGY TYPE.

COMMUNICATIONS

- W — WALL MTD MODULAR TELEPHONE OUTLET.
- WALL MTD TELEPHONE OUTLET.
- 2 — 2-PORT DATA WALL OUTLET.
- 2/1 — 3-PORT TEL/DATA WALL OUTLET.
- 4 — 4-PORT TEL/DATA WALL OUTLET.
- H — WALL MTD HDMI OUTLET.
- C — WALL MTD COAX OUTLET.
- WLAN — WIRELESS LOCAL AREA NETWORK CEILING OUTLET MTD OR AS NOTED ON PLAN DRAWINGS.
- 2 — DATA CEILING OUTLET MTD OR AS NOTED ON PLAN DRAWINGS.
- COMMUNICATIONS FURNITURE FEED MTD ON WALL AT 18" AFF.
- COMMUNICATIONS FURNITURE FEED FLOOR BOX.
- FLOOR MTD DATA OUTLET.
- SP — SPEAKER
- TV — COMBINATION TV/RECEPTACLE OUTLET
- TGB — TELECOMMUNICATIONS GROUND BUS.
- I-TGB — INTERCONNECTING TELECOMMUNICATIONS GROUND BUS.
- TMGB — TELECOMMUNICATIONS MAIN GROUND BUS.

GENERAL NOTES:

1. TECHNOLOGY DEVICES SHOWN FOR REFERENCE ONLY, UNO. PROVIDE BACKBOXES AND 1" CONDUIT WITH DRAG WIRE STUBBED UP TO 6" ABOVE FINISHED CEILING, UNO.

EQUIPMENT

- MOTOR
- MOTOR STARTER
- UN-FUSED DISCONNECT
- FUSED DISCONNECT
- CIRCUIT BREAKER
- BRANCH CIRCUIT OR POWER PANEL
- LIGHTING CONTROL PANEL
- M — METER
- CURRENT TRANSFORMER
- GROUND
- DELTA/WYE WITH GROUND
- T — POWER TRANSFORMER
- FUSE & SWITCH
- CIRCUIT BREAKER
- DRAWOUT CIRCUIT BREAKER
- 50/51 — INVERSE TIME/OVERCURRENT RELAY (SOLID STATE WITH COMMUNICATION)
- 52 — DRAWOUT 15 KV BREAKER
- K — KIRK-KEY INTERLOCK
- G — GROUND FAULT INTERRUPTER BREAKER
- D — CIRCUIT MONITORING DEVICE
- MECHANICAL EQUIPMENT IDENTIFICATION TAG
- SPD — SURGE PROTECTIVE DEVICE
- TO — THERMAL OVERLOAD
- TO — MOTOR AND THERMAL OVERLOAD
- AUTOMATIC TRANSFER SWITCH

RACEWAY LEGEND

- A-2,4 — BRANCH CIRCUIT HOMERUN TO PANELBOARD, NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMERAL INDICATES CIRCUIT NUMBER.
- A-2,4 / A — BRANCH CIRCUIT HOMERUN CONTROLLED BY LIGHTING CONTROL SYSTEM. FIRST HEXAGON LETTER CORRESPONDS TO FIRST CIRCUIT NUMBER. (ie. CIRCUIT #2 IS ON ZONE A)
- UNDERGROUND FEEDER
- UNDERGROUND BRANCH CIRCUIT HOMERUN
- CONDUIT UP
- CONDUIT DOWN
- CONDUIT RUNS UNDERFLOOR OR BELOW GRADE
- CONDUIT RUN CONCEALED IN WALLS OR CEILING, OR EXPOSED WHEN CEILINGS ARE NOT PRESENT.
- MOTOR CONNECTION

SECURITY

- R — HID PROXIMITY CARD READER
- ML — MAGNETIC LOCK
- RE — REQUEST TO EXIT PNEUMATIC BUTTON
- KL — KEY LOCK
- IS — IRIS SCANNER
- PP — DOOR RELEASE PUSH PLATE
- DR — REMOTE DOOR RELEASE
- DA — DURESS ALARM
- BR — BREAK GLASS EMERGENCY DOOR RELEASE
- ES — ELECTRIC STRIKE
- O — DOOR REQUEST TO EXIT PIR SENSOR
- SCP — SECURITY CONTROL PANEL
- KP — KEYPAD
- M — DOOR STATUS MONITOR
- EL — ELECTRIFIED LOCKS
- FIXED TYPE SECURITY CAMERA
- PAN-TILT-ZOOM (PTZ) TYPE SECURITY CAMERA

NOTES:

1. DEVICES SHOWN FOR REFERENCE ONLY. PROVIDE BACKBOXES AND CONDUIT AS REQUIRED.

POWER DEVICES

- SINGLE WALL RECEPTACLE
- WALL DUPLEX RECEPTACLE
- WALL DUPLEX RECEPTACLE (EMERGENCY)
- USB — WALL DUPLEX RECEPTACLE WITH (2) USB PORTS
- WALL FOURPLEX RECEPTACLE
- WALL SWITCH RECEPTACLE
- WALL FOURPLEX RECEPTACLE (EMERGENCY)
- X — WALL SPECIAL RECEPTACLE (FOR "X" SEE TABLE BELOW)
- TV — WALL COMBINATION TV/POWER OUTLET
- WALL CLOCK RECEPTACLE
- J — WALL JUNCTION BOX
- J — WALL FURNITURE FEED
- FLOOR DUPLEX RECEPTACLE
- FLOOR POKE-THRU DEVICE CONTAINING POWER (FOURPLEX) AND DATA. REFER TO IT DRAWINGS FOR INFORMATION ASSOCIATED WITH DATA DEVICES.
- J — FLOOR JUNCTION BOX
- J — FLOOR FURNITURE FEED
- CEILING RECEPTACLE
- CEILING DUPLEX RECEPTACLE
- CEILING FOURPLEX RECEPTACLE
- X — CEILING/FLOOR SPECIAL RECEPTACLE (FOR "X" SEE TABLE BELOW)
- J — CEILING JUNCTION BOX
- TV — CEILING TV OUTLET
- POWER POLE
- SINGLE TOGGLE SWITCH
- PLUGMOLD
- SINGLE PUSH BUTTON
- DUPLEX PUSH BUTTON
- WALL BUZZER
- EPO — EMERGENCY POWER OFF

GENERAL NOTES:

1. REFER TO SPECIFICATION SECTIONS FOR SPECIFIC FLOOR PRODUCT INFORMATION.
2. REFER TO TECHNOLOGY LEGEND AND FLOOR PLANS TO CONFIRM ALL LOCATIONS THAT HAVE DATA OR DATA/AV REQUIREMENTS COMBINED WITH POWER IN FLOOR BOXES.
3. REFER TO TECHNOLOGY (AND/OR AV) DRAWINGS FOR DEDICATED LOW VOLTAGE CONDUIT AND FLOOR BOX DEVICE MOUNTING PLATE REQUIREMENTS. LOW VOLTAGE CONDUIT REQUIREMENTS ARE NOT DOCUMENTED ON POWER DRAWINGS.

FIRE ALARM

- SMOKE DETECTOR
- ER — SMOKE DETECTOR WITH ELEVATOR RECALL
- HEAT DETECTOR
- DUCT DETECTOR
- WALL MOUNTED HORN
- CEILING MTD HORN
- X — WALL MTD HORN / STROBE
- X — CEILING MTD HORN / STROBE
- H — FIRE SERVICE PHONE / WARDEN PHONE
- J — FIREMAN'S PHONE JACK
- MANUAL PULL STATION WITH VANDAL COVER
- DH — MAGNETIC DOOR HOLD OPEN DEVICE (ALARM BELL)
- TAMPER SWITCH
- FLOW SWITCH
- RTS — WALL MTD REMOTE INDICATOR LIGHT
- RTS — CEILING MTD REMOTE INDICATOR LIGHT
- X — WALL MOUNTED ADA STROBE
- X — CEILING MOUNTED ADA STROBE
- FR — FIRE ALARM RELAY
- FIRE SMOKE DAMPER WITH DUCT DETECTOR
- FIRE SMOKE DAMPER WITH SMOKE DETECTOR
- CO — CARBON MONOXIDE DETECTOR
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- FACP — FIRE ALARM CONTROL PANEL

NOTES:

1. 'X' DENOTES CANDELLA RATING OF STROBE.
2. 'E' DENOTES EXISTING DEVICE.
3. 'R' DENOTES RELOCATED DEVICE.
4. 'TYP' DENOTES TYPICAL FOR SIMILAR DEVICES OR INSTALLATIONS.

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ISSUE DATES

07/30/2019	75% DESIGN DEVELOPMENT
09/03/2019	100% DESIGN DEVELOPMENT
12/13/2019	50% CONSTRUCTION DOCUMENTS
04/15/2020	ISSUED FOR PERMIT
05/01/2020	ISSUED FOR CONSTRUCTION
07/01/2020	GMP SET
12/18/2020	FINAL GMP SET
06/21/2021	BID SET

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ELECTRICAL LEGEND AND NOTES
SCALE: AS INDICATED

E0.00

PANEL: DP-INST-1

The Inn and Institute NY19005 — ME Engineers Inc.
480Y/277, 3PHASE,4WIRE+GND
BUS: 225 Amps Copper; MAINS: 200 AMP MAIN BKR
SECTION: 1 OF 1; LOCATION:
NOTES:
OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX
DATE: 04/15/20; FED FROM: MAIN SWITCHBOARD; MOUNTING:; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	X	DOAS-2	4628	3	30	1	A	2	20	3	305	TX-1	X	
	X	-----	4628	<		3	B	4		>	305	-----	X	
	X	-----	4628	<		5	C	6		>	305	-----	X	
	X	ACCU-3	1797	3	20	7	A	8	20	3	2107	KX-1	X	
	X	-----	1797	<		9	B	10		>	2107	-----	X	
	X	-----	1797	<		11	C	12		>	2107	-----	X	
	P	--SPARE--		1	20	13	A	14	20	1		--SPARE--	P	
	P	--SPARE--		1	20	15	B	16	20	1		--SPARE--	P	
	P	--SPARE--		1	20	17	C	18	20	1		--SPARE--	P	
	P	--SPARE--		1	20	19	A	20	20	1		--SPARE--	P	
	P	--SPARE--		1	20	21	B	22	20	1		--SPARE--	P	
	P	--SPARE--		1	20	23	C	24	20	1		--SPARE--	P	
	S	PP-INST-1	12279	3	60	25	A	26	60	3	12750	PP-INST-2	S	
	S	--CONNECTED LOAD--	13465	<		27	B	28		>	11175	--CONNECTED LOAD--	S	
	S	-------	9143	<		29	C	30		>		-------	S	

The Inn and Institute NY19005.xls

PANEL: PP-INST-1

The Inn and Institute NY19005 — ME Engineers Inc.
208Y/120, 3PHASE,4WIRE+GND
BUS: 225 Amps Copper; MAINS: 150 AMP MAIN BKR
SECTION: 1 OF 2; LOCATION:
NOTES:
OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX; FEED THRU LUGS
DATE: 06/30/20; FED FROM: MAIN SWITCHBOARD; MOUNTING:; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	X	GX-1	564	1	20	1	A	2	20	2	260	AC-1-11	M	
	X	TRASH COMPACTOR	733	3	20	3	B	4		>	260	-----	M	
	X	-----	733	<		5	C	6	20	2	260	AC-1-12	M	
	X	-----	733	<		7	A	8		>	260	-----	M	
	X	VAV-1-3	100	1	20	9	B	10	20	2	260	AC-1-13	M	
	X	SCP-1	210	1	20	11	C	12		>	260	-----	M	
	M	ACCU-1	2300	2	30	13	A	14	20	2	260	AC-1-14	M	
	M	-----	2300	<		15	B	16		>	260	-----	M	
	M	ACCU-2	1350	2	20	17	C	18	20	1		--SPARE--	P	
	M	-----	1350	<		19	A	20	20	1		--SPARE--	P	
	E	ETH-A	364	2	20	21	B	22	20	2	364	ETH-A	E	
	E	-----	364	<		23	C	24		>	364	-----	E	
	E	ETH-A	364	2	20	25	A	26	20	2	364	ETH-A	E	
	E	-----	364	<		27	B	28		>	364	-----	E	
	E	ETH-A	364	2	20	29	C	30	20	2	364	ETH-A	E	
	E	-----	364	<		31	A	32		>	364	-----	E	
	R	GFI RECEPTACLE	1500	1	20	33	B	34	20	1	1500	GFI RECEPTACLE	R	
	X	GX-2	506	1	20	35	C	36	20	1		--SPARE--	P	
	P	--SPARE--		1	20	37	A	38	20	1		--SPARE--	P	
	P	--SPARE--		1	20	39	B	40	20	1		--SPARE--	P	
	P	--SPARE--		1	20	41	C	42	20	1		--SPARE--	P	

The Inn and Institute NY19005.xls

PANEL: PP-INST-1

The Inn and Institute NY19005 — ME Engineers Inc.
208Y/120, 3PHASE,4WIRE+GND
BUS: 225 Amps Copper; MAINS: M.L.O.
SECTION: 2 OF 2; LOCATION:
NOTES:
OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX
DATE: 05/01/20; FED FROM: PP-INST-1_1; MOUNTING:; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	E	ETH-A	364	2	20	43	A	44	20	2	364	ETH-A	E	
	E	-----	364	<		45	B	46		>	364	-----	E	
	E	ETH-A	364	2	20	47	C	48	20	2	364	ETH-A	E	
	E	-----	364	<		49	A	50		>	364	-----	E	
	E	ETH-A	364	2	20	51	B	52	20	2	364	ETH-A	E	
	E	-----	364	<		53	C	54		>	364	-----	E	
	E	ETH-A	364	2	20	55	A	56	20	2	364	ETH-A	E	
	E	-----	364	<		57	B	58		>	364	-----	E	
	E	ETH-A	364	2	20	59	C	60	20	2	364	ETH-A	E	
	E	-----	364	<		61	A	62		>	364	-----	E	
	E	ETH-A	364	2	20	63	B	64	20	2	364	ETH-A	E	
	E	-----	364	<		65	C	66		>	364	-----	E	
	E	ETH-A	364	2	20	67	A	68	20	2	364	ETH-A	E	
	E	-----	364	<		69	B	70		>	364	-----	E	
	E	ETH-A	364	2	20	71	C	72	20	2	364	ETH-A	E	
	E	-----	364	<		73	A	74		>	364	-----	E	
	E	ETH-A	364	2	20	75	B	76	20	2	364	ETH-A	E	
	E	-----	364	<		77	C	78		>	364	-----	E	
	E	ETH-A	364	2	20	79	A	80	20	2	364	ETH-A	E	
	E	-----	364	<		81	B	82		>	364	-----	E	
	P	--SPARE--		1	20	83	C	84	20	1		--SPARE--	P	

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PANEL: PP-INST-2

The Inn and Institute NY19005 — ME Engineers Inc.
480/277, 1PHASE,3WIRE+GND
BUS: 100 Amps Copper; MAINS: 100 AMP MAIN BKR
SECTION: 1 OF 1; LOCATION:
NOTES:
OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX
DATE: 06/28/20; FED FROM: DP-INST-1; MOUNTING:; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	E	EBB-B	800	1	20	1	A	2	20	1	600	EBB-B	E	
	E	EBB-B	800	1	20	3	B	4	20	1	800	EBB-B	E	
	E	EBB-B	900	1	20	5	A	6	20	1	1200	EBB-B	E	
	E	EBB-B	400	1	20	7	B	8	20	1	1050	EBB-A	E	
	E	EBB-B	400	1	20	9	A	10	20	1	300	EBB-A	E	
	E	EBB-A	2100	1	30	11	B	12	20	1	450	EBB-A	E	
	E	EBB-A	900	1	20	13	A	14	20	1	300	EBB-A	E	
	E	EBB-A	900	1	20	15	B	16	20	1	450	EBB-A	E	
	E	EBB-A	450	1	20	17	A	18	20	1	3600	EBB-A	E	
	E	EBB-A	300	1	20	19	B	20	20	1	525	EBB-A	E	
	E	EBB-A	900	1	20	21	A	22	20	1	800	EBB-B	E	
	E	EBB-B	1400	1	20	23	B	24	20	1	2000	EBB-B	E	
	P	--SPARE--		1	20	25	A	26	20	1	1600	EBB-B	E	
	P	--SPARE--		1	20	27	B	28	20	1		--SPARE--	P	
	P	--SPARE--		1	20	29	A	30	20	1		--SPARE--	P	
	P	--SPARE--		1	20	31	B	32	20	1		--SPARE--	P	
	P	--SPARE--		1	20	33	A	34	20	1		--SPARE--	P	
	P	--SPARE--		1	20	35	B	36	20	1		--SPARE--	P	
	P	--SPARE--		1	20	37	A	38	20	1		--SPARE--	P	
	P	--SPARE--		1	20	39	B	40	20	1		--SPARE--	P	
	P	--SPARE--		1	20	41	A	42	20	1		--SPARE--	P	

The Inn and Institute NY19005.xls

PANEL: AP-INST-1

The Inn and Institute NY19005 — ME Engineers Inc.
208Y/120, 3PHASE,4WIRE+GND
BUS: 225 Amps Copper; MAINS: 225 AMP MAIN BKR
SECTION: 1 OF 1; LOCATION:
NOTES: 1. PROVIDE GFCI TYPE CIRCUIT BREAKER.
OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX; FEED-THRU LUGS
DATE: 06/29/21; FED FROM: MAIN SWITCHBOARD; MOUNTING:; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	R	MAIN LOBBY GEN. CONV.	180	1	20	1	A	2	20	1	1800	WOMENS WC HAND DRYER	E	
	R	MAIN LOBBY GEN. CONV.	540	1	20	3	B	4	20	1	1800	WOMENS WC HAND DRYER	E	
	R	MAIN LOBBY GEN. CONV.	900	1	20	5	C	6	20	1	1800	MENS WC HAND DRYER	E	
	R	MAIN LOBBY GEN. CONV.	1080	1	20	7	A	8	20	1	1800	MENS WC HAND DRYER	E	
	R	MAIN LOBBY GEN. CONV.	1080	1	20	9	B	10	20	1	600	WOMENS & MENS FLUSHERS	X	
	R	DINING GEN. CONV.	900	1	20	11	C	12	20	1	400	WOMENS & MENS FAUCETS	X	
	R	DINING GEN. CONV.	1080	1	20	13	A	14	20	1	864	RESTAURANT SHADE MOTOR PNLS	X	
	R	DINING GEN. CONV.	540	1	20	15	B	16	20	1	864	RESTAURANT SHADE MOTOR PNLS	X	
	R	PRIVATE DINING GEN. CONV.	360	1	20	17	C	18	20	1	500	EXTERIOR FLOOR BOX	R	1
	R	PRIVATE DINING TV RECEPT.	300	1	20	19	A	20	20	1		--SPARE--	P	
	R	OFFICE COMPUTER RECEPT.	360	1	20	21	B	22	20	1		--SPARE--	P	
	R	GEN. CONV.	360	1	20	23	C	24	20	1		--SPARE--	P	
	R	GFCI RECEPT.	360	1	20	25	A	26	20	1		--SPARE--	P	
	R	WC GFCI RECEPT.	1500	1	20	27	B	28	20	1		--SPARE--	P	
	R	WC GFCI RECEPT.	1500	1	20	29	C	30	20	1		--SPARE--	P	
	R	WC GFCI RECEPT.	1500	1	20	31	A	32	20	1		--SPARE--	P	
	M	LOADING DOCK ROLLING DOOR	864	1	20	33	B	34	20	1		--SPARE--	P	
	R	MAIN LOBBY DEDICATED	500	1	20	35	C	36	20	1		--SPARE--	P	
	R	MAIN LOBBY DEDICATED	500	1	20	37	A	38	20	1		--SPARE--	P	
	R	GEN. CONV.	720	1	20	39	B	40	20	1		--SPARE--	P	
	R	LOADING DEDICATED RECEPT.	500	1	20	41	C	42	20	1		--SPARE--	P	
	R	WC GFCI RECEPT.	1500	1	20	43	A	44	20	1		--SPARE--	P	
	P	--SPARE--		1	20	45	B	46	20	1		--SPARE--	P	
	P	--SPARE--		1	20	47	C	48	20	1		--SPARE--	P	
	P	--SPARE--		1	20	49	A	50	20	1		--SPARE--	P	
	P	--SPARE--		1	20	51	B	52	20	1		--SPARE--	P	
	P	--SPARE--		1	20	53	C	54	20	1		--SPARE--	P	
	S	AP-INST-2	17021	3	200	55	A	56	20	1		--SPARE--	P	
	S	--CONNECTED LOAD--	17396	<		57	B	58	20	1		--SPARE--	P	
	S	-------	16108	<		59	C	60	20	1		--SPARE--	P	

PANEL: AP-INST-2

The Inn and Institute NY19005 — ME Engineers Inc.
208Y/120, 3PHASE,4WIRE+GND
BUS: 225 Amps Copper; MAINS: 200 AMP MAIN BKR
SECTION: 1 OF 2; LOCATION:
NOTES: 1. GFI TYPE CIRCUIT BREAKER.
OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX; FEED THRU LUGS
DATE: 06/22/21; FED FROM: AP-INST-1; MOUNTING:; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	R	FLEX. EVENT SPACE TV RECEPT.	300	1	20	1	A	2	20	1	300	MED. CONF. ROOM TV RECEPT.	R	
	R	FLEX. EVENT SPACE GEN. CONV.	720	1	20	3	B	4	20	1	300	MED. CONF. ROOM TV RECEPT.	R	
	R	FLEX. EVENT SPACE GEN. CONV.	360	1	20	5	C	6	20	1	540	MED. CONF. ROOM GEN. CONV.	R	
	R	FLEX. EVENT SPACE GEN. CONV.	360	1	20	7	A	8	20	1	360	MED. CONF. ROOM GEN. CONV.	R	
	R	FLEX. EVENT SPACE TV RECEPT.	300	1	20	9	B	10	20	1	1000	MED. CONF. ROOM PROJECTOR	R	
	R	FLEX. EVENT SPACE FLR. BOX	1440	1	20	11	C	12	20	1	1000	MED. CONF. ROOM PROJECTOR	R	
	R	FLEX. EVENT SPACE FLR. BOX	1440	1	20	13	A	14	20	1	720	PREFUNCTION GEN. CONV.	R	
	R	FLEX. EVENT SPACE PROJECTOR	1000	1	20	15	B	16	20	1	300	PREFUNCTION TV RECEPT.	R	
	R	LARGE CONF. ROOM GEN. CONV.	360	1	20	17	C	18	20	1	900	CORRIDOR GEN. CONV.	R	
	R	LARGE CONF. ROOM TV RECEPT.	300	1	20	19	A	20	20	1	180	WC GFCI RECEPT.	R	
	R	LARGE CONF. ROOM TV RECEPT.	300	1	20	21	B	22	20	1	180	WC GFCI RECEPT.	R	
	R	LARGE CONF. ROOM TV RECEPT.	600	1	20	23	C	24	20	1	180	CUST. GFCI RECEPT.	R	
	R	LARGE CONF. ROOM GEN. CONV.	360	1	20	25	A	26	20	1	300	OFFICE TV RECEPT.	R	
	R	LARGE CONF. ROOM GEN. CONV.	360	1	20	27	B	28	20	1	720	GEN. CONV.	R	
	R	LARGE CONF. ROOM COMPUTER	1080	1	20	29	C	30	20	1	180	AV/IT GEN. CONV.	R	
	R	LARGE CONF. ROOM COMPUTER	1080	1	20	31	A	32	20	1	1500	EXT. GFCI RECEPT.	R	1
	R	LARGE CONF. ROOM COMPUTER	1080	1	20	33	B	34	20	1	1920	IT RACK EQMT	X	
	R	LARGE CONF. ROOM COMPUTER	1080	1	20	35	C	36	20	1	1920	IT RACK EQMT	X	
	R	ROOF CONV. RECEPT.	540	1	20	37	A	38	20	1	1920	AV RACK EQMT	X	
	R	ROOF CONV. RECEPT.	900	1	20	39	B	40	20	1	1920	AV RACK EQMT	X	
	E	ADA WC HAND DRYER	1800	1	20	41	C	42	20	1	1800	ADA WC HAND DRYER	E	

PANEL: AP-INST-2

The Inn and Institute NY19005 — ME Engineers Inc.
208Y/120, 3PHASE,4WIRE+GND
BUS: 225 Amps Copper; MAINS: M.L.O.
SECTION: 2 OF 2; LOCATION:
NOTES: 1. GFI TYPE CIRCUIT BREAKER.
OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX
DATE: 06/22/21; FED FROM: AP-INST-2_1; MOUNTING:; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	E	MENS WC HAND DRYER	1800	1	20	43	A	44	20	1	1800	WOMENS WC HAND DRYER	E	
	E	MENS WC HAND DRYER	1800	1	20	45	B	46	20	1	1800	WOMENS WC HAND DRYER	E	
	X	WC FAUCETS & FLUSHERS	1000	1	20	47	C	48	20	1	500	SECURITY PANEL	X	
	X	FLEX SHADE MOTOR PNLS	864	1	20	49	A	50	20	1	1500	EXT. GFCI RECEPT.	R	1
	X	WC SHADE MOTOR PNLS	432	1	20	51	B	52	20	1	1500	EXT. GFCI RECEPT.	R	1
	X	PRE-FUNCTION MOTOR PNLS	648	1	20	53	C	54	20	1	720	MED. CONF. ROOM RECEPT.	R	
	X	PRE-FUNCTION MOTOR PNLS	648	1	20	55	A	56	20	1	749	OUTDOOR ROOF DECK LTG	L	
	X	LRGE CONF. SHADE MOTOR PNLS	864	1	20	57	B	58	20	1		--SPARE--	P	
	P	--SPARE--		1	20	59	C	60	20	1		--SPARE--	P	
	P	--SPARE--		1	20	61	A	62	20	1		--SPARE--	P	
	P	--SPARE--		1	20	63	B	64	20	1		--SPARE--	P	
	P	--SPARE--		1	20	65	C	66	20	1		--SPARE--	P	
	P	--SPARE--		1	20	67	A	68	20	1		--SPARE--	P	
	P	--SPARE--		1	20	69	B	70	20	1		--SPARE--	P	
	P	--SPARE--		1	20	71	C	72	20	1		--SPARE--	P	
	P	--SPARE--		1	20	73	A	74	20	1		--SPARE--	P	
	P	--SPARE--		1	20	75	B	76	20	1		--SPARE--	P	
	P	--SPARE--		1	20	77	C	78	20	1		--SPARE--	P	
	P	--SPARE--		1	20	79	A	80	20	1		--SPARE--	P	
	P	--SPARE--		1	20	81	B	82	20	1		--SPARE--	P	
	P	--SPARE--		1	20	83	C	84	20	1		--SPARE--	P	

VASSAR COLLEGE INN & INSTITUTE

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CONTRACTOR

CONSULTANT

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ISSUE DATES

09/03/2019 100% DESIGN DEVELOPMENT
12/13/2019 50% CONSTRUCTION DOCUMENTS
04/15/2020 ISSUED FOR PERMIT
05/01/2020 ISSUED FOR CONSTRUCTION
07/01/2020 GMP SET
12/18/2020 FINAL GMP SET
06/21/2021 BID SET

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ELECTRICAL SCHEDULES I

SCALE: AS INDICATED

E0.10

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	LP-INST-1
480Y/277 3PHASE,4WIRE+GND	BUS: 100 Amps Copper MAINS: 100 AMP MAIN BKR	SECTION:	1 OF 1
		LOCATION:	
NOTES:	OPTIONS: BOLT IN BRANCH BKRS FRONT HINGED TO BOX	DATE:	06/22/21
		FED FROM :	MAIN SWITCHBOARD
		MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	L	MAIN LOBBY LIGHTING	2427	1	30	1	A	2	20	1		--SPARE--	P	
	L	OUTDOOR DINING	513	1	20	3	B	4	40	1	3490	LARGE/MED CONF ROOM	L	
	L	INST FIRST FLOOR LIGHTING	2091	1	30	5	C	6	30	1	2313	PREFUNCTION LIGHTING	L	
	P	--SPARE--		1	20	7	A	8	20	1	2388	FLEX EVENT/RESTROOM LIGHTING	L	
	P	--SPARE--		1	20	9	B	10	20	1		--SPARE--	P	
	P	--SPARE--		1	20	11	C	12	20	1		--SPARE--	P	
	P	--SPARE--		1	20	13	A	14	20	1		--SPARE--	P	
	P	--SPARE--		1	20	15	B	16	20	1		--SPARE--	P	
	P	--SPARE--		1	20	17	C	18	20	1		--SPARE--	P	
	P	--SPARE--		1	20	19	A	20	20	1		--SPARE--	P	
	P	--SPARE--		1	20	21	B	22	20	1		--SPARE--	P	
	P	--SPARE--		1	20	23	C	24	20	1		--SPARE--	P	
	P	--SPARE--		1	20	25	A	26	20	1		--SPARE--	P	
	P	--SPARE--		1	20	27	B	28	20	1		--SPARE--	P	
	P	--SPARE--		1	20	29	C	30	20	1		--SPARE--	P	
	P	--SPARE--		1	20	31	A	32	20	1		--SPARE--	P	
	P	--SPARE--		1	20	33	B	34	20	1		--SPARE--	P	
	P	--SPARE--		1	20	35	C	36	20	1		--SPARE--	P	
	P	--SPARE--		1	20	37	A	38	20	1		--SPARE--	P	
	P	--SPARE--		1	20	39	B	40	20	1		--SPARE--	P	
	P	--SPARE--		1	20	41	C	42	20	1		--SPARE--	P	
	P	--SPARE--		1	20	43	A	44	20	1		--SPARE--	P	
	P	--SPARE--		1	20	45	B	46	20	1		--SPARE--	P	
	P	--SPARE--		1	20	47	C	48	20	1		--SPARE--	P	
	P	--SPARE--		1	20	49	A	50	20	1		--SPARE--	P	
	P	--SPARE--		1	20	51	B	52	20	1		--SPARE--	P	
	C	SPACE				53	C	54				SPACE	C	
	C	SPACE				55	A	56				SPACE	C	
	C	SPACE				57	B	58				SPACE	C	
	C	SPACE				59	C	60				SPACE	C	

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	AP-PANTRY
208Y/120 3PHASE,4WIRE+GND	BUS: 100 Amps Copper MAINS: 100 AMP MAIN BKR	SECTION:	1 OF 1
		LOCATION:	INN LEVEL 2 FLOOR PANTRY
NOTES:	OPTIONS: BOLT IN BRANCH BKRS FRONT HINGED TO BOX ISOLATED GND BUS	DATE:	12/22/20
		FED FROM :	112.5 XFMR VIA MDB
		MOUNTING :	SURFACE
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	K	BANQUET HOT HOLDING CART (81)	1656	1	20	1	A	2	20	1	360	PANTRY RECEPT	R	
	K	COFFEE GRINDER (05)	1200	1	20	3	B	4	20	1	299	UNDER COUNTER REFRIG (10)	K	
	K	COFFE BREWER DOUBLE (07)	2850	2	40	5	C	6	20	2	1300	ICE MAKER (99)	K	
	K	-----	2850	<		7	A	8		>	1300	-----	K	
	K	DROP IN SODA DISPENSOR (08)	575	1	20	9	B	10	30	1	2645	REMOTE COND ICE MAKER (99A)	K	
	K	POS (02)	400	1	20	11	C	12	20	1	1800	HOT HOLDING CABINET (37)	K	
	K	ICED TEA BREWER (09)	1700	1	20	13	A	14	20	1	1800	HOT HOLDING CABINET (37)	K	
	P	--SPARE--		1	20	15	B	16	20	1		--SPARE--	P	
	P	--SPARE--		1	20	17	C	18	20	1		--SPARE--	P	
	P	--SPARE--		1	20	19	A	20	20	1		--SPARE--	P	
	P	--SPARE--		1	20	21	B	22	20	1		--SPARE--	P	
	P	--SPARE--		1	20	23	C	24	20	1		--SPARE--	P	

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	PP-K-1
480Y/277 3PHASE,4WIRE+GND	BUS: 400 Amps Copper MAINS: 400 AMP MAIN BKR	SECTION:	1 OF 1
		LOCATION:	
NOTES:	OPTIONS: BOLT IN BRANCH BKRS FRONT HINGED TO BOX	DATE:	12/22/20
		FED FROM :	MAIN SWITCHBOARD
		MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	K	TILTING KETTLE (43)	6000	3	30	1	A	2	40	3	7300	HOT TOP RANGE (44)	K	
	K	-----	6000	<		3	B	4		>	7300	-----	K	
	K	-----	6000	<		5	C	6		>	7300	-----	K	
	K	COMBI-STEAMER (45)	14867	3	70	7	A	8	20	3	734	ELECTRIC FRYER (50)	K	
	K	-----	14667	<		9	B	10		>	734	-----	K	
	K	-----	14667	<		11	C	12		>	734	-----	K	
	K	6 BURNER RANGE (48)	7200	3	40	13	A	14	40	3	6000	DISHWASHER CONVEYOR (74)	K	
	K	-----	7200	<		15	B	16		>	6000	-----	K	
	K	-----	7200	<		17	C	18		>	6000	-----	K	
	K	SALAMANDER BROILER (49)	1500	3	20	19	A	20	20	3	4000	DISHWASHER BOOSTER HTR (74A)	K	
	K	-----	1500	<		21	B	22		>	4000	-----	K	
	K	-----	1500	<		23	C	24		>	4000	-----	K	
	K	COBI-STEAMER 2ND CONN (45)	14867	3	70	25	A	26	40	3	7334	ELEC FRYER (50)	K	
	K	-----	14867	<		27	B	28		>	7334	-----	K	
	K	-----	14867	<		29	C	30		>	7334	-----	K	
	K	ELEC FRYER (50)	7334	3	40	31	A	32	20	1		--SPARE--	P	
	K	-----	7334	<		33	B	34	20	1		--SPARE--	P	
	K	-----	7334	<		35	C	36	20	1		--SPARE--	P	
	P	--SPARE--		1	20	37	A	38	20	1		--SPARE--	P	
	P	--SPARE--		1	20	39	B	40	20	1		--SPARE--	P	
	P	--SPARE--		1	20	41	C	42	20	1		--SPARE--	P	

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	PP-K-2
208Y/120 3PHASE,4WIRE+GND	BUS: 400 Amps Copper MAINS: 300 AMP MAIN BKR	SECTION:	1 OF 2
		LOCATION:	
NOTES:	OPTIONS: BOLT IN BRANCH BKRS FRONT HINGED TO BOX FEED THRU LUGS	DATE:	12/22/20
		FED FROM :	MAIN SWITCHBOARD
		MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	R	POS (02)	1200	1	20	1	A	2	20	1	380	UNDERCOUNTER REFRIG (19)	K	
	R	POS (02)	600	1	20	3	B	4	20	1	816	ELECTRIC FRYER BASKET (50A)	K	
	R	POS (02)	400	1	20	5	C	6	20	1	816	ELECTRIC FRYER BASKET (50A)	K	
	R	POS (02)	800	1	20	7	A	8	20	1		--SPARE--	P	
	K	COFFEE GRINDER (05)	1320	1	20	9	B	10	20	1	1800	HOT HOLDING CABINET (37)	K	
	K	DROP IN SODA/ICE DISPENSER (08)	575	1	20	11	C	12	20	1	1800	HOT HOLDING CABINET (37)	K	
	K	MOD CUBELET ICE MACHINE (30)	1748	1	20	13	A	14	20	1	1080	BAR RECEPTACLES	R	
	P	--SPARE--		1	20	15	B	16	20	1	1700	ICE TEA BREWER (09)	K	
	P	--SPARE--		1	20	17	C	18	20	1	1725	BATCH FREEZER COUNTER TOP(39)	K	
	P	--SPARE--		1	20	19	A	20	20	1	800	FIRE SUPRESSION (40)	K	
	P	--SPARE--		1	20	21	B	22	20	1	800	FIRE SUPRESSION (40)	K	
	P	--SPARE--		1	20	23	C	24	20	1	1200	EXHASUT HOOD (41A)	K	
	P	--SPARE--		1	20	25	A	26	20	1	1200	EXHAUST HOOD (41B)	K	
	P	--SPARE--		1	20	27	B	28	20	1	1200	EXHASUT HOOD (41C)	K	
	K	EXPRESSO MACH (11)	2517	2	40	29	C	30	20	1	1200	EXHASUT HOOD (41D)	K	
	K	-----	2517	<		31	A	32	70	3	6667	PASTA COOKER (47)	K	
	K	SLICER/AUTOMATIC (15)	300	1	20	33	B	34		>	6667	-----	K	
	K	40 QT MIXER (16)	745	3	20	35	C	36		>	6667	-----	K	
	K	-----	745	<		37	A	38	50	3	4350	GRIDDLE TABLE TOP (51)	K	
	K	-----	745	<		39	B	40		>	4350	-----	K	
	K	REFRIGERATOR (18)	920	1	20	41	C	42		>	4350	-----	K	

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	PP-K-2
208Y/120 3PHASE,4WIRE+GND	BUS: 400 Amps Copper MAINS: M.L.O.	SECTION:	2 OF 2
		LOCATION:	
NOTES:	OPTIONS: BOLT IN BRANCH BKRS FRONT HINGED TO BOX	DATE:	12/22/20
		FED FROM :	PP-K-2_1
		MOUNTING :	SURFACE
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	K	CHAR BROILER (53)	3300	3	40	43	A	44	20	1	1200	POS PRINTER (54)	R	
	K	-----	3300	<		45	B	46	20	1	1200	POS PRINTER (54)	R	
	K	-----	3300	<		47	C	48	20	1	1200	POS PRINTER (54)	R	
	P	--SPARE--		1	20	49	A	50	20	1	1656	BANQUET HOT HOLDING CART (81)	K	
	K	DUAL HEAT LAMP (58)	1615	2	20	51	B	52	20	1	720	MUG FROSTER (111)	K	
	K	-----	1615	<		53	C	54	20	1	684	BACK BAR COOLER (112)	K	
	K	DUAL HEAT LAMP (58)	1615	2	20	55	A	56	20	1	800	BLENDER STATION (122)	K	
	K	-----	1615	<		57	B	58	20	1	560	BAR BLENDER (123)	K	
	K	HEAT LAMP WITH CORD (61)	375	1	20	59	C	60	20	1	780	CARBONATOR (128)	K	
	K	HEAT LAMP WITH CORD (61)	375	1	20	61	A	62	30	1	2645	REMOTE COND ICE MAKER (99A)	K	
	K	HEAT LAMP WITH CORD (61)	375	1	20	63	B	64	20	2	1300	MODULAR CRESENT CUBER (99)	K	
	K	HEAT LAMP WITH CORD (61)	375	1	20	65	C	66		>	1300	-----	K	
	K	DUAL HEAT LAMPS WITH LIGHTS (62)	1800	2	30	67	A	68	40	2	3328	UNDER COUNTER DISHWASHER (109)	K	
	K	-----	1800	<		69	B	70		>	3328	-----	K	
	K	WASTE DISPOSER (76)	792	3	20	71	C	72	30	1	2645	REMOTE COND ICE FLAKER (30A)	K	
	K	-----	792	<		73	A	74	20	1		--SPARE--	P	
	K	-----	792	<		75	B	76	20	1		--SPARE--	P	
	P	--SPARE--		1	20	77	C	78	20	1		--SPARE--	P	
	P	--SPARE--		1	20	79	A	80	20	1		--SPARE--	P	
	P	--SPARE--		1	20	81	B	82	20	1		--SPARE--	P	
	P	--SPARE--		1	20	83	C	84	20	1		--SPARE--	P	

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	PP-K-EM
208Y/120 3PHASE,4WIRE+GND	BUS: 100 Amps Copper MAINS: 100 AMP MAIN BKR	SECTION:	1 OF 1
		LOCATION:	
NOTES:	OPTIONS: BOLT IN BRANCH BKRS FRONT HINGED TO BOX	DATE:	12/22/20
		FED FROM :	DP-INST-1-OPT
		MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	K	COFFEE BREWER DOUBLE (07)	2850	2	40	1	A	2	20	1	299	SANDWICH TOP REFRIG (65)	K	
	K	-----	2850	<		3	B	4	20	1	1800	WALKIN REFRIG (82)	K	
	P	--SPARE--		1	20	5	C	6	20	1	1800	WALKIN FREEZER (82A)	K	
	P	--SPARE--		1	20	7	A	8	20	1	432	REF EVA COIL (83)	K	
	K	UNDER COUNTER REFRIG (10)	299	1	20	9	B	10	20	2	1019	CONDENSING UNIT REF (84)	K	
	P	--SPARE--		1	20	11	C	12		>	1019	-----	K	
	K	MOD CRESENT CUBE ICE MAKER (26)	1300	2	20	13	A	14	20	2	916	FREEZER EVAP COIL (85)	K	
	K	-----	1300	<		15	B	16		>	916	-----	K	
	K	REMOTE COND ICE MAKER (26A)	2645	1	30	17	C	18	20	2	1560	CONDENSING UNIT FREEZR (86)	K	
	K	LOW PROFILE REFRIG EQUP (52)	345	1	20	19	A	20		>	1560	-----	K	
	K	MEGA TOP SANDWICH REFRIG (56)	690	1	20	21	B	22	20	2	1050	BEER LINE CHILLER (91)	K	
	K	UNDER COUNTER REFRIG (60)	299	1	20	23	C	24		>	1050	-----	K	
	K	UNDER COUNTER REFRIG (60)	299	1	20	25	A	26	20	1	684	BACK BAR COOLER (114)	K	
	P	--SPARE--		1	20	27	B	28	20	1	684	BACK BAR COOLER (114)	K	
	P	--SPARE--		1	20	29	C	30	20	1	600	POS (125)	K	
	P	--SPARE--		1	20	31	A	32	20	1	600	POS (125)	K	
	P	--SPARE--		1	20	33	B	34	20	1		--SPARE--	P	
	P	--SPARE--		1	20	35	C	36	20	1		--SPARE--	P	
	P	--SPARE--		1	20	37	A	38	30	1		--SPARE--	P	
	P	--SPARE--		1	20	39	B	40	20	1		--SPARE--	P	
	P	--SPARE--		1	20	41	C	42	20	1		--SPARE--	P	

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05/01/2020 ISSUED FOR CONSTRUCTION
07/01/2020 GMP SET
12/16/2020 FINAL GMP SET
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ELECTRICAL SCHEDULES II
SCALE: AS INDICATED

E0.11

The Inn and Institute NY19005 | ME Engineers Inc. | PANEL: DP-INN-1
480Y/277 3PHASE,4WIRE+GND | BUS: 400 Amps Copper; MAINS: 400 AMP MAIN BKR | SECTION: 1 OF 1; LOCATION:
NOTES: | OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX | DATE: 07/01/20; FED FROM : MAIN SWITCHBOARD; MOUNTING :; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	X	DWH-3	33000	3	150	1	A	2	20	1	625	DWCP-2	X	
	X	-----	33000	<		3	B	4	20	1	625	DWCP-3	X	
	X	-----	33000	<		5	C	6	20	1		--SPARE--	P	
	X	DWH-4	33000	3	150	7	A	8	20	1		--SPARE--	P	
	X	-----	33000	<		9	B	10	20	1		--SPARE--	P	
	X	-----	33000	<		11	C	12	20	1		--SPARE--	P	
	X	OMP-1	266	3	20	13	A	14	20	1		--SPARE--	P	
	X	-----	266	<		15	B	16	20	1		--SPARE--	P	
	X	-----	266	<		17	C	18	20	1		--SPARE--	P	
	P	--SPARE--		1	20	19	A	20	20	1		--SPARE--	P	
	P	--SPARE--		1	20	21	B	22	20	1		--SPARE--	P	
	P	--SPARE--		1	20	23	C	24	20	1		--SPARE--	P	
	P	--SPARE--		1	20	25	A	26	20	1		--SPARE--	P	
	P	--SPARE--		1	20	27	B	28	20	1		--SPARE--	P	
	P	--SPARE--		1	20	29	C	30	20	1		--SPARE--	P	
	X	GMU-1	690	1	20	31	A	32	20	1		--SPARE--	P	
	M	DRX-1	413	1	20	33	B	34	20	1		--SPARE--	P	
	M	DRX-2	625	1	20	35	C	36	20	1		--SPARE--	P	
	P	--SPARE--		1	20	37	A	38	20	1		--SPARE--	P	
	P	--SPARE--		1	20	39	B	40	20	1		--SPARE--	P	
	P	--SPARE--		1	20	41	C	42	20	1		--SPARE--	P	

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The Inn and Institute NY19005 | ME Engineers Inc. | PANEL: AP-INN-1
208Y/120 3PHASE,4WIRE+GND | BUS: 225 Amps Copper; MAINS: 100 AMP MAIN BKR | SECTION: 1 OF 1; LOCATION:
NOTES: | OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX | DATE: 07/01/20; FED FROM : DP-INN-1; MOUNTING :; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	P	--SPARE--		1	20	1	A	2	20	1	540	SALES ROOM CONV.	R	
	X	IRRIGATION	960	1	20	3	B	4	20	1	360	SALES ROOM CONV.	R	
	R	MAINTENANCE RECEPT.	360	1	20	5	C	6	20	1	540	OFFICE CONV.	R	
	R	MAINTENANCE RECEPT.	360	1	20	7	A	8	20	1	180	OFFICE CONV.	R	
	R	BKRM REFRIGERATOR	1500	1	20	9	B	10	20	1	180	OFFICE CONV.	R	
	R	BKRM COFFEE MAKER	1800	1	20	11	C	12	20	1	180	LAUNDRY CONV.	R	
	R	BKRM MICROWAVE	1800	1	20	13	A	14	20	1	1260	LAUNDRY CONV.	R	
	R	BKRM GENERAL CONV.	360	1	20	15	B	16	20	1	300	VAVS L-1A, L-1B, L-2	X	
	R	BKRM GENERAL CONV.	360	1	20	17	C	18	20	1	1920	IT RACK EQMT	X	
	R	RESTROOM RECEPT.	1500	1	20	19	A	20	20	1	1920	IT RACK EQMT	X	
	R	EXT RECEPT.	1500	1	20	21	B	22	20	1	650	CEILING SMOKE DETECTOR	X	
	E	RESTROOM HAND DRYER	1800	1	20	23	C	24	20	1	500	OFFICE EQUIPMENT	R	
	X	RESTROOM FAUCET & FLUSHER	200	1	20	25	A	26	20	1	900	AIR COMPRESSOR	M	
	P	--SPARE--		1	20	27	B	28	20	1	625	DWCP-2	M	
	P	--SPARE--		1	20	29	C	30	20	1	625	DWCP-3 (STBY)	M	
	P	--SPARE--		1	20	31	A	32	20	1		--SPARE--	P	
	P	--SPARE--		1	20	33	B	34	20	1		--SPARE--	P	
	P	--SPARE--		1	20	35	C	36	20	1		--SPARE--	P	
	P	--SPARE--		1	20	37	A	38	20	1		--SPARE--	P	
	P	--SPARE--		1	20	39	B	40	20	1		--SPARE--	P	
	P	--SPARE--		1	20	41	C	42	20	1		--SPARE--	P	

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The Inn and Institute NY19005 | ME Engineers Inc. | PANEL: LP-INN-1
480Y/277 3PHASE,4WIRE+GND | BUS: 100 Amps Copper; MAINS: 100 AMP MAIN BKR | SECTION: 1 OF 1; LOCATION:
NOTES: | OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX | DATE: 05/01/20; FED FROM :; MOUNTING :; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	L	INN FIRST FLOOR LIGHTING	2200	1	30	1	A	2	20	1		--SPARE--	P	
	L	INN SECOND FLOOR LIGHTING	577	1	20	3	B	4	20	1		--SPARE--	P	
	L	INN THIRD FLOOR LIGHTING	890	1	20	5	C	6	20	1		--SPARE--	P	
	L	IN PENTHOUSE LIGHTING	1764	1	20	7	A	8	20	1		--SPARE--	P	
	C	SPACE				9	B	10				SPACE	C	
	C	SPACE				11	C	12				SPACE	C	
	C	SPACE				13	A	14				SPACE	C	
	C	SPACE				15	B	16				SPACE	C	
	C	SPACE				17	C	18				SPACE	C	

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The Inn and Institute NY19005 | ME Engineers Inc. | PANEL: DP-INN-PH
480Y/277 3PHASE,4WIRE+GND | BUS: 225 Amps Copper; MAINS: 200 AMP MAIN BKR | SECTION: 1 OF 1; LOCATION:
NOTES: | OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX | DATE: 05/01/20; FED FROM : MAIN SWITCHBOARD; MOUNTING :; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	M	DOAS-12	8037	3	40	1	A	2	60	3	12667	EC-1	M	
	M	-----	8036	<		3	B	4		>	12666	-----	M	
	M	-----	8036	<		5	C	6		>	12666	-----	M	
	P	--SPARE--		1	20	7	A	8	20	3	1567	PP-INN-PH	S	
	P	--SPARE--		1	20	9	B	10		>	1260	--CONNECTED LOAD--	S	
	P	--SPARE--		1	20	11	C	12		>	82	-------	S	
	P	--SPARE--		1	20	13	A	14	20	1		--SPARE--	P	
	P	--SPARE--		1	20	15	B	16	20	1		--SPARE--	P	
	P	--SPARE--		1	20	17	C	18	20	1		--SPARE--	P	
	P	--SPARE--		1	20	19	A	20	20	1		--SPARE--	P	
	P	--SPARE--		1	20	21	B	22	20	1		--SPARE--	P	
	P	--SPARE--		1	20	23	C	24	20	1		--SPARE--	P	
	P	--SPARE--		1	20	25	A	26	20	1		--SPARE--	P	
	P	--SPARE--		1	20	27	B	28	20	1		--SPARE--	P	
	P	--SPARE--		1	20	29	C	30	20	1		--SPARE--	P	

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The Inn and Institute NY19005 | ME Engineers Inc. | PANEL: AP-INN-2-1
208Y/120 3PHASE,4WIRE+GND | BUS: 400 Amps Copper; MAINS: 300 AMP MAIN BKR | SECTION: 1 OF 2; LOCATION:
NOTES: | OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX; FEED-THRU LUGS | DATE: 07/01/20; FED FROM : MAIN SWITCHBOARD; MOUNTING :; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	R	GUEST ROOM TV RECEPT.	300	1	20	1	A	2	20	1	600	GUEST ROOM TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1260	1	20	3	B	4	20	1	1260	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	5	C	6	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM TV RECEPT.	600	1	20	7	A	8	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	GUEST ROOM GEN. CONV.	1080	1	20	9	B	10	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	11	C	12	20	1	600	GUEST ROOM TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	13	A	14	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	15	B	16	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM TV RECEPT.	600	1	20	17	C	18	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	GUEST ROOM GEN. CONV.	1260	1	20	19	A	20	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	21	B	22	20	1	600	GUEST ROOM TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	23	C	24	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	25	A	26	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM TV RECEPT.	600	1	20	27	B	28	20	1	900	GUEST ROOM GEN. CONV.	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	29	C	30	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	31	A	32	20	1	206	GUEST ROOM LIGHTING	L	
	R	GUEST ROOM GEN. CONV.	1620	1	20	33	B	34	20	1	355	GUEST ROOM LIGHTING	L	
	R	RESTROOM GFCI RECEPT.	1500	1	20	35	C	36	20	1	720	CORRIDOR GEN. CONV.	R	
	L	GUEST ROOM GEN. LIGHTING	485	1	20	37	A	38	20	1	540	LOUNGE FLOOR RECEPT.	R	
	L	GUEST ROOM GEN. LIGHTING	186	1	20	39	B	40	20	1	1500	LOUNGE GFCI RECEPT.	R	
	R	GUEST ROOM REFRIGERATOR	500	1	20	41	C	42	20	1	1080	LOUNGE GEN. CONV.	R	
	R	GUEST ROOM REFRIGERATOR	1000	1	20	43	A	44	20	1		--SPARE--	R	
	R	GUEST ROOM REFRIGERATOR	1000	1	20	45	B	46	20	1		--SPARE--	R	
	R	GUEST ROOM REFRIGERATOR	1000	1	20	47	C	48	20	1		--SPARE--	P	
	R	GUEST ROOM REFRIGERATOR	1000	1	20	49	A	50	20	1		--SPARE--	P	
	R	GUEST ROOM REFRIGERATOR	1000	1	20	51	B	52	20	1		--SPARE--	P	
	R	GUEST ROOM REFRIGERATOR	1000	1	20	53	C	54	20	1		--SPARE--	P	
	P	--SPARE--		1	20	55	A	56	20	1		--SPARE--	P	
	P	--SPARE--		1	20	57	B	58	20	1		--SPARE--	P	
	P	--SPARE--		1	20	59	C	60	20	1		--SPARE--	P	

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The Inn and Institute NY19005 | ME Engineers Inc. | PANEL: AP-INN-2-1
208Y/120 3PHASE,4WIRE+GND | BUS: 400 Amps Copper; MAINS: M.L.O. | SECTION: 2 OF 2; LOCATION:
NOTES: | OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX; FEED-THRU LUGS | DATE: 07/01/20; FED FROM : AP-INN-2-1_1; MOUNTING :; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	R	GUEST ROOM TV RECEPT.	600	1	20	61	A	62	20	1	600	GUEST ROOM TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1080	1	20	63	B	64	20	1	1260	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	65	C	66	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	67	A	68	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	69	B	70	20	1	1800	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM TV RECEPT.	600	1	20	71	C	72	20	1	600	GUEST ROOM TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	73	A	74	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	75	B	76	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	77	C	78	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	79	A	80	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM TV RECEPT.	600	1	20	81	B	82	20	1	600	GUEST ROOM TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1260	1	20	83	C	84	20	1	1260	ADA SUITE GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	85	A	86	20	1	1800	ADA SUITE REFRIGERATOR	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	87	B	88	20	1	1800	ADA SUITE MICROWAVE	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	89	C	90	20	1	1500	RESTROOM GFCI RECEPT.	R	
	L	GUEST ROOM LIGHTING	392	1	20	91	A	92	20	1	332	GUEST ROOM LIGHTING	L	
	L	GUEST ROOM LIGHTING	360	1	20	93	B	94	20	1	293	ADA SUITE LIGHTING	L	
	R	GUEST ROOM REFRIGERATR	1000	1	20	95	C	96	30	1	2400	ADA SUITE RANGE	R	
	R	GUEST ROOM REFRIGERATR	1000	1	20	97	A	98	20	1	1800	ADA SUITE HOOD	R	
	R	GUEST ROOM REFRIGERATR	1000	1	20	99	B	100	20	1	1800	ADA SUITE INSINKERATOR	X	
	R	GUEST ROOM REFRIGERATR	1000	1	20	101	C	102	20	1	1380	ADA SUITE DISH WASHER	R	
	R	GUEST ROOM REFRIGERATR	1000	1	20	103	A	104	20	1		--SPARE--	P	
	P	--SPARE--		1	20	105	B	106	20	1		--SPARE--	P	
	P	--SPARE--		1	20	107	C	108	20	1		--SPARE--	P	
	P	--SPARE--		1	20	109	A	110	20	1		--SPARE--	P	
	P	--SPARE--		1	20	111	B	112	20	1		--SPARE--	P	
	P	--SPARE--		1	20	113	C	114	20	1		--SPARE--	P	
	P	--SPARE--		1	20	115	A	116	20	1		--SPARE--	P	
	P	--SPARE--		1	20	117	B	118	20	1		--SPARE--	P	
	P	--SPARE--		1	20	119	C	120	20	1		--SPARE--	P	

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The Inn and Institute NY19005 | ME Engineers Inc. | PANEL: PP-INN-PH
208Y/120 3PHASE,4WIRE+GND | BUS: 100 Amps Copper; MAINS: 100 AMP MAIN BKR | SECTION: 1 OF 1; LOCATION:
NOTES: | OPTIONS: BOLT IN BRANCH BKRS; FRONT HINGED TO BOX | DATE: 05/01/20; FED FROM : DP-INN-PH; MOUNTING :; ISSUE:

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	R	GENERAL CONV.	900	1	20	1	A	2	20	1		--SPARE--	P	
	R	GENERAL CONV.	1260	1	20	3	B	4	20	1		--SPARE--	P	
	X	GX-3	82	1	20	5	C	6	20	1		--SPARE--	P	
	X	GX-4	667	1	20	7	A	8	20	1		--SPARE--	P	
	P	--SPARE--		1	20	9	B	10	20	1		--SPARE--	P	
	P	--SPARE--		1	20	11	C	12	20	1		--SPARE--	P	
	P	--SPARE--		1	20	13	A	14	20	1		--SPARE--	P	
	P	--SPARE--		1	20	15	B	16	20	1		--SPARE--	P	
	P	--SPARE--		1	20	17	C	18	20	1		--SPARE--	P	
	P	--SPARE--		1	20	19	A	20	20	1		--SPARE--	P	
	P	--SPARE--		1	20	21	B	22	20	1		--SPARE--	P	
	P	--SPARE--		1	20	23	C	24	20	1		--SPARE--	P	
	P	--SPARE--		1	20	25	A	26	20	1		--SPARE--	P	
	P	--SPARE--		1	20	27	B	28	20	1		--SPARE--	P	
	P	--SPARE--		1	20	29	C	30	20	1		--SPARE--	P	

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CONTRACTOR

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ISSUE DATES

09/03/2019 100% DESIGN DEVELOPMENT
12/13/2019 50% CONSTRUCTION DOCUMENTS
04/15/2020 ISSUED FOR PERMIT
05/01/2020 ISSUED FOR CONSTRUCTION
07/01/2020 GMP SET
12/18/2020 FINAL GMP SET
06/21/2021 BID SET

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ELECTRICAL SCHEDULES III
SCALE: AS INDICATED

E0.12

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	AP-INN-2-2
208Y/120	BUS: 400 Amps Copper	SECTION:	1 OF 2
3PHASE,4WIRE+GND	MAINS: 300 AMP MAIN BKR	LOCATION:	
NOTES:	OPTIONS:	DATE:	07/01/20
	BOLT IN BRANCH BKRS	FED FROM :	MAIN SWITCHBOARD
	FRONT HINGED TO BOX	MOUNTING :	
	FEED-THRU LUGS	ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	R	GUEST ROOM TV RECEPT.	300	1	20	1	A	2	20	1	300	GUEST ROOM TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1080	1	20	3	B	4	20	1	1080	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	5	C	6	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM TV RECEPT.	600	1	20	7	A	8	20	1	600	GUEST ROOM TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	9	B	10	20	1	1260	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	11	C	12	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	13	A	14	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	15	B	16	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM TV RECEPT.	600	1	20	17	C	18	20	1	600	GUEST ROOM TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	19	A	20	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	21	B	22	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	23	C	24	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	25	A	26	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM TV RECEPT.	300	1	20	27	B	28	20	1	300	GUEST ROOM TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	29	C	30	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	31	A	32	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM TV RECEPT.	600	1	20	33	B	34	20	1	300	GUEST ROOM TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	35	C	36	20	1	540	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	37	A	38	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	720	1	20	39	B	40	20	1	284	GUEST ROOM LIGHTING	L	
	R	RESTROOM GFCI RECEPT.	1500	1	20	41	C	42	20	1	332	GUEST ROOM LIGHTING	L	
	L	GUEST ROOM LIGHTING	186	1	20	43	A	44	20	1	93	GUEST ROOM LIGHTING	L	
	L	GUEST ROOM LIGHTING	372	1	20	45	B	46	20	1	392	GUEST ROOM LIGHTING	L	
	L	GUEST ROOM LIGHTING	206	1	20	47	C	48	20	1	186	GUEST ROOM LIGHTING	L	
	R	CORRIDOR GEN. CONV.	720	1	20	49	A	50	20	1	332	GUEST ROOM LIGHTING	L	
	R	LOUNGE GEN. CONV.	720	1	20	51	B	52	20	1	293	SUITE LIGHTING	L	
	R	ICE	1440	1	20	53	C	54	20	1	1000	GUEST ROOM REFRIGERATOR	R	
	P	--SPARE--		1	20	55	A	56	20	1	1000	GUEST ROOM REFRIGERATOR	R	
	P	--SPARE--		1	20	57	B	58	20	1	1000	GUEST ROOM REFRIGERATOR	R	
	P	--SPARE--		1	20	59	C	60	20	1	1000	GUEST ROOM REFRIGERATOR	R	

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	AP-INN-2-2
208Y/120	BUS: 400 Amps Copper	SECTION:	2 OF 2
3PHASE,4WIRE+GND	MAINS: M.L.O.	LOCATION:	
NOTES:	OPTIONS:	DATE:	07/01/20
	BOLT IN BRANCH BKRS	FED FROM :	AP-INN-2-2_1
	FRONT HINGED TO BOX	MOUNTING :	
	FEED-THRU LUGS	ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	R	GUEST ROOM TV RECEPT.	600	1	20	61	A	62	20	1	600	GUEST ROOM TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1260	1	20	63	B	64	20	1	1260	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	65	C	66	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	67	A	68	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	69	B	70	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM TV RECEPT.	600	1	20	71	C	72	20	1	600	GUEST ROOM TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1260	1	20	73	A	74	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	75	B	76	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1260	1	20	77	C	78	20	1	1620	GUEST ROOM GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	79	A	80	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	GUEST ROOM TV RECEPT.	600	1	20	81	B	82	20	1	600	SUITE TV RECEPT.	R	
	R	GUEST ROOM GEN. CONV.	1260	1	20	83	C	84	20	1	1260	SUITE GEN. CONV.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	85	A	86	20	1	1500	SUITE REFRIGERATOR	R	
	R	GUEST ROOM GEN. CONV.	1620	1	20	87	B	88	20	1	1500	RESTROOM GFCI RECEPT.	R	
	R	RESTROOM GFCI RECEPT.	1500	1	20	89	C	90	20	1	1500	RESTROOM GFCI RECEPT.	R	
	L	GUEST ROOM LIGHTING	392	1	20	91	A	92	20	1	540	CORRIDOR RECEPT.	R	
	L	GUEST ROOM LIGHTING	392	1	20	93	B	94	20	1	360	FITNESS RECEPT.	R	
	E	FITNESS WC HAND DRYER	1800	1	20	95	C	96	20	1	180	FITNESS RECEPT.	R	
	X	FITNESS WC FAUCET & FLUSHER	200	1	20	97	A	98	20	1	180	FITNESS RECEPT.	R	
	R	SUITE MICROWAVE	1500	1	20	99	B	100	20	1	180	FITNESS RECEPT.	R	
	R	SUITE RANGE	2400	1	30	101	C	102	20	1	180	FITNESS RECEPT.	R	
	R	SUITE HOOD	1800	1	20	103	A	104	20	1	180	FITNESS RECEPT.	R	
	X	SUITE INSINKERATOR	1800	1	20	105	B	106	20	1	1500	FITNESS WC GFCI RECEPT.	R	
	R	SUITE DISHWASHER	1380	1	20	107	C	108	20	1	950	2ND FL SMOKE DETECTORS	X	
	R	GUEST ROOM REFRIGERATOR	1000	1	20	109	A	110	20	1	950	3RD FL SMOKE DETECTORS	X	
	R	GUEST ROOM REFRIGERATOR	1000	1	20	111	B	112	20	1	1000	GUEST ROOM REFRIGERATOR	R	
	R	GUEST ROOM REFRIGERATOR	1000	1	20	113	C	114	20	1	1000	GUEST ROOM REFRIGERATOR	R	
	R	GUEST ROOM REFRIGERATOR	500	1	20	115	A	116	20	1	1000	GUEST ROOM REFRIGERATOR	R	
	P	--SPARE--		1	20	117	B	118	20	1	1000	GUEST ROOM REFRIGERATOR	R	
	P	--SPARE--		1	20	119	C	120	20	1	1000	GUEST ROOM REFRIGERATOR	R	

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	DP-INST-1-OPT
480Y/277	BUS: 600 Amps Copper	SECTION:	1 OF 1
3PHASE,4WIRE+GND	MAINS: 600 AMP MAIN BKR	LOCATION:	
NOTES:	OPTIONS:	DATE:	12/22/20
	BOLT IN BRANCH BKRS	FED FROM :	ATS - OPT
	FRONT HINGED TO BOX	MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	E	EUH-B	1667	3	20	1	A	2	20	3	1000	CUH-C	E	
	E	-----	1667	<		3	B	4		>	1000	-----	E	
	E	-----	1667	<		5	C	6		>	1000	-----	E	
	E	EUH-C	1000	3	20	7	A	8	20	3	1000	CUH-C	E	
	E	-----	1000	<		9	B	10		>	1000	-----	E	
	E	-----	1000	<		11	C	12		>	1000	-----	E	
	E	CUH-A	1000	3	20	13	A	14	20	3	1000	CUH-C	E	
	E	-----	1000	<		15	B	16		>	1000	-----	E	
	E	-----	1000	<		17	C	18		>	1000	-----	E	
	E	CUH-B	2000	3	20	19	A	20	20	3	277	ESP-2	M	
	E	-----	2000	<		21	B	22		>	277	-----	M	
	E	-----	2000	<		23	C	24		>	277	-----	M	
	M	ESP-1	277	3	20	25	A	26	20	3	277	ESP-3	M	
	M	-----	277	<		27	B	28		>	277	-----	M	
	M	-----	277	<		29	C	30		>	277	-----	M	
	S	PP-K-EM	9285	3	100	31	A	32	20	3		--SPARE--	P	
	S	--CONNECTED LOAD--	10608	<		33	B	34		>		-----	P	
	S	-------	8973	<		35	C	36		>		-----	P	
	S	DP-INN-PH-OPT	29495	3	200	37	A	38	225	3	34797	PP-INN-2-OPT	S	
	S	--CONNECTED LOAD--	29494	<		39	B	40		>	33511	--CONNECTED LOAD--	S	
	S	-------	27514	<		41	C	42		>	32544	-------	S	

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	PP-INST-1-OPT
208Y/120	BUS: 225 Amps Copper	SECTION:	1 OF 1
3PHASE,4WIRE+GND	MAINS: 100 AMP MAIN BKR	LOCATION:	
NOTES:	OPTIONS:	DATE:	06/18/21
	BOLT IN BRANCH BKRS	FED FROM :	DP-INST-1-OPT
	FRONT HINGED TO BOX	MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	M	AC-1-1	239	2	20	1	A	2	20	2	260	AC-1-2	M	
	M	-----	239	<		3	B	4		>	260	-----	M	
	M	AC-1-3	240	2	20	5	C	6	20	2	260	AC-1-4	M	
	M	-----	240	<		7	A	8		>	260	-----	M	
	M	AC-1-5	115	2	20	9	B	10	20	2	115	AC-1-6	M	
	M	-----	115	<		11	C	12		>	115	-----	M	
	E	HEAT TRACE	900	2	20	13	A	14	20	2	900	HEAT TRACING	E	
	E	-----	900	<		15	B	16		>	900	-----	E	
	P	--SPARE--		1	20	17	C	18	20	2	6	HEAT RECOVERY UNIT	M	
	P	--SPARE--		1	20	19	A	20		>	6	-----	M	
	P	--SPARE--		1	20	21	B	22	20	1		--SPARE--	P	
	P	--SPARE--		1	20	23	C	24	20	1		--SPARE--	P	
	S	PP-INST-2-OPT	6481	3	70	25	A	26	20	1		--SPARE--	P	
	S	--CONNECTED LOAD--	4865	<		27	B	28	20	1		--SPARE--	P	
	S	-------	6202	<		29	C	30	20	1		--SPARE--	P	

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	PP-INST-2-OPT
208Y/120	BUS: 100 Amps Copper	SECTION:	1 OF 1
3PHASE,4WIRE+GND	MAINS: 100 AMP MAIN BKR	LOCATION:	
NOTES:	OPTIONS:	DATE:	06/18/21
	BOLT IN BRANCH BKRS	FED FROM :	DP-INST-1-OPT
	FRONT HINGED TO BOX	MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	M	AC-2-1A	260	2	20	1	A	2	20	2	239	AC-2-2B	M	
	M	-----	260	<		3	B	4		>	239	-----	M	
	M	AC-2-5	115	2	20	5	C	6	20	2	115	AC-2-6	M	
	M	-----	115	<		7	A	8		>	115	-----	M	
	M	AC-2-4B	239	2	20	9	B	10	20	2	260	AC-2-2A	M	
	M	-----	239	<		11	C	12		>	260	-----	M	
	M	AC-2-11	52	2	20	13	A	14	20	2	239	AC-2-1B	M	
	M	-----	52	<		15	B	16		>	239	-----	M	
	M	AC-2-3	115	2	20	17	C	18	20	3	1782	WCCU-2	M	
	M	-----	115	<		19	A	20		>	1782	-----	M	
	M	WCCU-2	1782	3	20	21	B	22		>	1782	-----	M	
	M	-----	1782	<		23	C	24	20	3	1782	WCCU-2	M	
	M	-----	1782	<		25	A	26		>	1782	-----	M	
	M	HEAT RECOVERY UNIT	12	2	15	27	B	28		>		-----	M	
	M	-----	12	<		29	C	30	20	1		--SPARE--	P	
	P	--SPARE--		1	20	31	A	32	20	1		--SPARE--	P	
	P	--SPARE--		1	20	33	B	34	20	1		--SPARE--	P	
	P	--SPARE--		1	20	35	C	36	20	1		--SPARE--	P	
	P	--SPARE--		1	20	37	A	38	20	1		--SPARE--	P	
	P	--SPARE--		1	20	39	B	40	20	1		--SPARE--	P	
	P	--SPARE--		1	20	41	C	42	20	1		--SPARE--	P	

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ELECTRICAL SCHEDULES IV
SCALE: AS INDICATED

E0.13

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	DP-INN-PH-OPT
480Y/277 3PHASE,4WIRE+GND	BUS: 225 Amps Copper MAINS: 200 AMP MAIN BKR	SECTION:	1 OF 1
		LOCATION:	
NOTES:	OPTIONS: BOLT IN BRANCH BKRS FRONT HINGED TO BOX	DATE:	06/10/21
		FED FROM :	DP-INST-1-OPT
		MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	M	EUH-A	2217	3	15	1	A	2	20	3	3333	EUH-B	M	
	M	-----	2217	<		3	B	4		>	3333	-----	M	
	M	-----	2217	<		5	C	6		>	3333	-----	M	
	M	EUH-A	2217	3	15	7	A	8	20	3	3333	EUH-B	M	
	M	-----	2217	<		9	B	10		>	3333	-----	M	
	M	-----	2217	<		11	C	12		>	3333	-----	M	
	M	GSHP-L-1	8037	3	40	13	A	14	15	3	1995	CUH-B	M	
	M	-----	8037	<		15	B	16		>	1995	-----	M	
	M	-----	8037	<		17	C	18		>	1995	-----	M	
	M	EUH-A	2217	3	15	19	A	20	15	3	998	CUH-A	M	
	M	-----	2217	<		21	B	22		>	997	-----	M	
	M	-----	2217	<		23	C	24		>	997	-----	M	
	M	EUH-A	2217	3	15	25	A	26	15	3	831	RF-L-1	M	
	M	-----	2217	<		27	B	28		>	831	-----	M	
	M	-----	2217	<		29	C	30		>	831	-----	M	
	P	--SPARE--		1	20	31	A	32	20	3	4490	WCCU-1	M	
	P	--SPARE--		1	20	33	B	34		>	4490	-----	M	
	P	--SPARE--		1	20	35	C	36		>	4490	-----	M	
	P	--SPARE--		1	20	37	A	38	100	3	100	PP-INN-PH-OPT	S	
	P	--SPARE--		1	20	39	B	40		>	100	--CONNECTED LOAD--	S	
	P	--SPARE--		1	20	41	C	42		>	120	-------	S	

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	PP-INN-PH-OPT
208Y/120 3PHASE,4WIRE+GND	BUS: 100 Amps Copper MAINS: 100 AMP MAIN BKR	SECTION:	1 OF 1
		LOCATION:	
NOTES:	OPTIONS: BOLT IN BRANCH BKRS FRONT HINGED TO BOX	DATE:	06/18/21
		FED FROM :	DP-INN-PH-OPT
		MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	P	--SPARE--		1	20	1	A	2	15	2	20	AC-3-2	M	
	P	--SPARE--		1	20	3	B	4		>	20	-----	M	
	M	AC-1-7	20	2	15	5	C	6	15	2	20	AC-3-1	M	
	M	-----	20	<		7	A	8		>	20	-----	M	
	M	AC-1-8	20	2	15	9	B	10	15	2	20	AC-3-3	M	
	M	-----	20	<		11	C	12		>	20	-----	M	
	M	AC-2-9	20	2	15	13	A	14	15	2	6	HEAT RECORVERY UNIT	M	
	M	-----	20	<		15	B	16		>	6	-----	M	
	M	AC-2-8	20	2	15	17	C	18	15	2	104	AC-3-4	M	
	M	-----	20	<		19	A	20		>	104	-----	M	
	M	AC-2-10	20	2	15	21	B	22	15	2	6	HEAT RECORVERY UNIT	M	
	M	-----	20	<		23	C	24		>	6	-----	M	
	P	--SPARE--		1	20	25	A	26	15	2	83	AC-2-11	M	
	P	--SPARE--		1	20	27	B	28		>	83	-----	M	
	P	--SPARE--		1	20	29	C	30	20	1		--SPARE--	P	
	P	--SPARE--		1	20	31	A	32	20	1		--SPARE--	P	
	P	--SPARE--		1	20	33	B	34	20	1		--SPARE--	P	
	P	--SPARE--		1	20	35	C	36	20	1		--SPARE--	P	
	P	--SPARE--		1	20	37	A	38	20	1		--SPARE--	P	
	P	--SPARE--		1	20	39	B	40	20	1		--SPARE--	P	
	P	--SPARE--		1	20	41	C	42	20	1		--SPARE--	P	

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	PP-INN-2-OPT
480Y/277 3PHASE,4WIRE+GND	BUS: 225 Amps Copper MAINS: 225 AMP MAIN BKR	SECTION:	1 OF 1
		LOCATION:	
NOTES:	OPTIONS: BOLT IN BRANCH BKRS FRONT HINGED TO BOX	DATE:	06/18/21
		FED FROM :	DP-INST-1-OPT
		MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	M	GSHP-C	1988	1	20	1	A	2	20	1	2412	GSHP-D	M	
	M	GSHP-C	1988	1	20	3	B	4	20	1	1988	GSHP-C	M	
	M	GSHP-B	3074	1	15	5	C	6	20	1	1988	GSHP-C	M	
	M	GSHP-B	3074	1	15	7	A	8	20	1	1988	GSHP-C	M	
	M	GSHP-1-1	4028	1	20	9	B	10	15	1	3074	GSHP-B	M	
	M	GSHP-B	3074	1	15	11	C	12	15	1	3074	GSHP-B	M	
	M	GSHP-B	3074	1	15	13	A	14	15	1	3074	GSHP-B	M	
	M	GSHP-B	3074	1	15	15	B	16	15	1	3074	GSHP-B	M	
	M	GSHP-C	1988	1	20	17	C	18	15	1	3074	GSHP-B	M	
	M	GSHP-1-2	4028	1	20	19	A	20	20	1	1537	GSHP-B	M	
	M	GSHP-C	1988	1	20	21	B	22	15	1	3074	GSHP-B	M	
	M	GSHP-C	1988	1	20	23	C	24	15	1	3074	GSHP-B	M	
	M	GSHP-B	3074	1	15	25	A	26	20	1	2412	GSHP-D	M	
	M	GSHP-B	3074	1	15	27	B	28	20	1	1988	GSHP-C	M	
	M	GSHP-B	3074	1	15	29	C	30	20	1	1988	GSHP-A	M	
	M	GSHP-B	3074	1	15	31	A	32	20	1		--SPARE--	P	
	M	GSHP-B	3074	1	15	33	B	34	20	1		--SPARE--	P	
	M	GSHP-B	3074	1	15	35	C	36	20	1		--SPARE--	P	
	M	GSHP-B	3074	1	15	37	A	38	20	1		--SPARE--	P	
	P	--SPARE--		1	20	39	B	40	20	1		--SPARE--	P	
	M	GSHP-B	3074	1	15	41	C	42	20	1		--SPARE--	P	

The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	DP-INST-1-ELEV
480Y/277 3PHASE,4WIRE+GND	BUS: 225 Amps Copper MAINS: 100 AMP MAIN BKR	SECTION:	1 OF 1
		LOCATION:	
NOTES:	OPTIONS: BOLT IN BRANCH BKRS FRONT HINGED TO BOX SHUNT-TRIP BRANCH BKRS	DATE:	04/15/20
		FED FROM :	ATS - ELEV
		MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	X	INSTITUTE ELEVATOR 1	3880	3	30	1	A	2	20	1		--SPARE--	P	
	X	-----	3880	<		3	B	4	20	1		--SPARE--	P	
	X	-----	3880	<		5	C	6	20	1		--SPARE--	P	
	X	INSTITUTE ELEVATOR 2	3880	3	30	7	A	8	20	1		--SPARE--	P	
	X	-----	3880	<		9	B	10	20	1		--SPARE--	P	
	X	-----	3880	<		11	C	12	20	1		--SPARE--	P	
	X	INN ELEVATOR	3880	3	30	13	A	14	20	1		--SPARE--	P	
	X	-----	3880	<		15	B	16	20	1		--SPARE--	P	
	X	-----	3880	<		17	C	18	20	1		--SPARE--	P	
	P	--SPARE--		1	20	19	A	20	20	1		--SPARE--	P	
	P	--SPARE--		1	20	21	B	22	20	1		--SPARE--	P	
	P	--SPARE--		1	20	23	C	24	20	1		--SPARE--	P	
	P	--SPARE--		1	20	25	A	26	20	1		--SPARE--	P	
	P	--SPARE--		1	20	27	B	28	20	1		--SPARE--	P	
	P	--SPARE--		1	20	29	C	30	20	1		--SPARE--	P	
	P	--SPARE--		1	20	31	A	32	20	1		--SPARE--	P	
	P	--SPARE--		1	20	33	B	34	20	1		--SPARE--	P	
	P	--SPARE--		1	20	35	C	36	20	1		--SPARE--	P	
	P	--SPARE--		1	20	37	A	38	20	1		--SPARE--	P	
	P	--SPARE--		1	20	39	B	40	20	1		--SPARE--	P	
	P	--SPARE--		1	20	41	C	42	20	1		--SPARE--	P	

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The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	AP-INST-1-ELEV
208Y/120 3PHASE,4WIRE+GND	BUS: 100 Amps Copper MAINS: 60 AMP MAIN BKR	SECTION:	1 OF 1
		LOCATION:	
NOTES:	OPTIONS: BOLT IN BRANCH BKRS FRONT HINGED TO BOX SHUNT-TRIP BRANCH BKRS	DATE:	07/01/20
		FED FROM :	DP-INST-1-ELEV
		MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	R	INN ELEV. 1 CAB LTG./RECEPT.	1800	1	20	1	A	2	20	1		--SPARE--	P	
	R	INN ELEV. 2 CAB LTG./RECEPT.	1800	1	20	3	B	4	20	1		--SPARE--	P	
	R	INST ELEV. CAB LTG./RECEPT.	1800	1	20	5	C	6	20	1		--SPARE--	P	
	P	--SPARE--		1	20	7	A	8	20	1		--SPARE--	P	
	P	--SPARE--		1	20	9	B	10	20	1		--SPARE--	P	
	P	--SPARE--		1	20	11	C	12	20	1		--SPARE--	P	
	P	--SPARE--		1	20	13	A	14	20	1		--SPARE--	P	
	P	--SPARE--		1	20	15	B	16	20	1		--SPARE--	P	
	P	--SPARE--		1	20	17	C	18	20	1		--SPARE--	P	

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The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	LP-INST-1-LS
480Y/277 3PHASE,4WIRE+GND	BUS: 100 Amps Copper MAINS: 100 AMP MAIN BKR	SECTION:	1 OF 1
		LOCATION:	
NOTES:	OPTIONS: BOLT IN BRANCH BKRS FRONT HINGED TO BOX	DATE:	06/30/20
		FED FROM :	ATS - LS
		MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	L	INN FIRST FLOOR EM LIGHTING	659	1	20	1	A	2	20	1	93	MAIN LOBBY EM LIGHTING	L	
	L	INN SECOND FLOOR EM LIGHTING	366	1	20	3	B	4	20	1	335	INST FIRST FLOOR EM LIGHTING	L	
	L	INN THIRD FLOOR EM LIGHTING	378	1	20	5	C	6	20	1	748	INST SECOND FLOOR EM LIGHTING	L	
	M	INN FSD'S	1400	1	20	7	A	8	20	1	700	INSTITUTE FSD'S	M	
	L	SITE LIGHTING		1	20	9	B	10	20	1	480	ROOF LIGHTING	L	
	L	SITE LIGHTING		1	20	11	C	12	20	1		--SPARE--	P	
	P	--SPARE--		1	20	13	A	14	20	1		--SPARE--	P	
	P	--SPARE--		1	20	15	B	16	20	1		--SPARE--	P	
	P	--SPARE--		1	20	17	C	18	20	1		--SPARE--	P	

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The Inn and Institute NY19005	ME Engineers Inc.	PANEL:	AP-INN-PH-PV
208Y/120 3PHASE,4WIRE+GND	BUS: 225 Amps Copper MAINS: 150 AMP MAIN BKR	SECTION:	1 OF 1
		LOCATION:	
NOTES:	OPTIONS: BOLT IN BRANCH BKRS FRONT HINGED TO BOX	DATE:	06/28/20
		FED FROM :	
		MOUNTING :	
		ISSUE:	

N	ID	DESCRIPTION	V-A	P	BKR	CKT	PH	CKT	BKR	P	V-A	DESCRIPTION	ID	N
	X	PV PNL MICROINVERTER	1620	2	20	1	A	2	20	2	1620	PV PNL MICROINVERTER	X	
	X	-----	1620	<		3	B	4		>	1620	-----	X	
	X	PV PNL MICROINVERTER	1620	2	20	5	C	6	20	2	1620	PV PNL MICROINVERTER	X	
	X	-----	1620	<		7	A	8		>	1620	-----	X	
	X	PV PNL MICROINVERTER	1620	2	20	9	B	10	20	2	1620	PV PNL MICROINVERTER	X	
	X	-----	1620	<		11	C	12		>	1620	-----	X	
	X	PV PNL MICROINVERTER	1620	2	20	13	A	14	20	2	1620	PV PNL MICROINVERTER	X	
	X	-----	1620	<		15	B	16		>	1620	-----	X	
	X	PV PNL MICROINVERTER	1620	2	20	17	C	18	20	2	1620	PV PNL MICROINVERTER	X	
	X	-----	1620	<		19	A	20		>	1620	-----	X	
	X	PV PNL MICROINVERTER	1620	2	20	21	B	22	20	3	200	PV COMMUNICATION PANEL	X	
	X	-----	1620	<		23	C	24		>	200	-----	X	
	P	--SPARE--		1	20	25	A	26		>	200	-----	X	
	P	--SPARE--		1	20	27	B	28	20	1		--SPARE--	P	
	P	--SPARE--		1	20	29	C	30	20	1		--SPARE--	P	
	P	--SPARE--		1	20	31	A	32	20	1		--SPARE--	P	
	P	--SPARE--		1	20	33	B	34	20	1		--SPARE--	P	
	P	--SPARE--		1	20	35	C	36	20	1		--SPARE--	P	
	P	--SPARE--		1	20	37	A	38	20	1		--SPARE--	P	
	P	--SPARE--		1	20	39	B	40	20	1		--SPARE--	P	
	P	--SPARE--		1	20	41	C	42	20	1		--SPARE--	P	

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ELECTRICAL SCHEDULES V
SCALE: AS INDICATED

E0.14

ELECTRICAL SCHEDULE

ITEM NUMBER	QTY	DESCRIPTION	VOLTS	CYCLE	PHASE	FL AMPS	HP	WATTS	HEIGHT AFF	CONNECTION TYPE	CONN PLUG NEMA	ELECTRICAL REMARKS
02	1	POS Terminal	120.0 V	60 Hz	1	10.0 A		1200 W	4' - 6"	Cord and Plug	NEMA 5-15P	PP-K-2:1
05	2	Coffee Grinder	120.0 V	60 Hz	1	11.0 A		1320 W	4' - 0"	Cord and Plug	NEMA 5-15P	PP-K-2:9
		Coffee Grinder	120.0 V	60 Hz	1	11.0 A		1320 W	4' - 0"	Cord and Plug	NEMA 5-15P	AP-PANTRY:3
07	2	Coffee Brewer, Double	208.0 V	60 Hz	1	27.4 A		5700 W	3' - 4"	Direct Connection	NOTE 1	PP-K-EM:1,3 120/208V required 3 #8 #8 GND REQUIRED
		Coffee Brewer, Double	208.0 V	60 Hz	1	27.4 A		5700 W	3' - 4"	Direct Connection	NOTE 1	AP-PANTRY:5,7 120/208V required 3 #8 #8 GND REQUIRED
08	2	Drop In Soda/Ice Dispenser	115.0 V	60 Hz	1	5.0 A		575 W	2' - 0"	Cord and Plug	NEMA 5-15P	PP-K-2:11
		Drop In Soda/Ice Dispenser	115.0 V	60 Hz	1	5.0 A		575 W	2' - 0"	Cord and Plug	NEMA 5-15P	AP-PANTRY:9
09	2	Iced Tea Brewer	120.0 V	60 Hz	1	14.0 A		1700 W	4' - 0"	Cord and Plug	NEMA 5-15P	PP-K-2:16
		Iced Tea Brewer	120.0 V	60 Hz	1	14.0 A		1700 W	4' - 0"	Cord and Plug	NEMA 5-15P	AP-PANTRY:13
10	2	Undercounter Refrigerator	115.0 V	60 Hz	1	2.6 A		299 W	1' - 0"	Cord and Plug	NEMA 5-15P	PP-K-EM:9
		Undercounter Refrigerator	115.0 V	60 Hz	1	2.6 A		299 W	1' - 0"	Cord and Plug	NEMA 5-15P	AP-PANTRY:4
11	1	Espresso Machine	208.0 V	60 Hz	1	24.2 A		200W	3' - 6"	Cord and Plug	NOTE 1	PP-K-2:29,31 2 #8 #8 GND REQUIRED
15	1	Slicer, Automatic	115.0 V	60 Hz	1	2.5 A	1/2	300 W	4' - 0"	Cord and Plug	NEMA 5-15P	PP-K-2:33
16	1	40 Quart Mixer	208.0 V	60 Hz	3	6.2 A	2	1290 W	2' - 11 11/16"	Cord and Plug	NEMA L15-20P	PP-K-2:35,37,39
18	1	Refrigerator	115.0 V	60 Hz	1	8.0 A		960 W	7' - 0"	Cord and Plug	NEMA 5-15P	PP-K-2:41
19	1	Undercounter Refrigerator with Drawers	115.0 V	60 Hz	1	3.3 A		380 W	1' - 0"	Cord and Plug	NEMA 5-15P	PP-K-2:2
26	1	Modular Crescent Cuber Ice Maker, Remote Air Cooled	208.0 V	60 Hz	1	12.5 A		2600 W	8' - 2"	Direct Connection	NOTE 1	PP-K-EM:13,15
26A	1	Remote Condenser, Ice Maker	115.0 V	60 Hz	1	23.0 A		2645 W	1' - 2"	Direct Connection	NOTE 1	PP-K-EM:17 Connection to ice maker ,3 #10, #10 GND
30	1	Modular Cubelet Ice Machine - Remote Air-Cooled	115.0 V	60 Hz	1	15.2 A		1748 W	5' - 9 7/8"	Direct Connection	NOTE 1	PP-K-2:13
30A	1	Remote Condenser, Ice Flaker	115.0 V	60 Hz	1	23.0 A		2645 W	1' - 2"	Direct Connection	NOTE 1	PP-K-2:72 Connection to ice maker ,2 #10, #10 GND
37	4	Hot Holding Cabinet	120.0 V	60 Hz	1	15.0 A	0	1800 W	4' - 0"	Cord and Plug	NEMA 5-20P	PP-K-2:10
		Hot Holding Cabinet	120.0 V	60 Hz	1	15.0 A	0	1800 W	4' - 0"	Cord and Plug	NEMA 5-20P	PP-K-2:12
		Hot Holding Cabinet	120.0 V	60 Hz	1	15.0 A	0	1800 W	4' - 0"	Cord and Plug	NEMA 5-20P	AP-PANTRY:12
		Hot Holding Cabinet	120.0 V	60 Hz	1	15.0 A	0	1800 W	4' - 0"	Cord and Plug	NEMA 5-20P	AP-PANTRY:14
39	1	Batch Freezer, Counter-Top	115.0 V	60 Hz	1	15.0 A	1.93	1800 W	4' - 0"	Cord and Plug	NEMA 5-20P	PP-K-2:18
40	2	Fire Suppression System	120.0 V	60 Hz	1	20.0 A		1000 W	8' - 0"	Direct Connection	NOTE 1	PP-K-2:20
		Fire Suppression System	120.0 V	60 Hz	1	20.0 A		1000 W	8' - 0"	Direct Connection	NOTE 1	PP-K-2:22
41A	1	Exhaust Hood	120.0 V	60 Hz	1	15.0 A		1800 W	8' - 6"	Direct Connection	NOTE 1	Lights, see hood drawings for details
41B	1	Exhaust Hood	120.0 V	60 Hz	1	15.0 A		1800 W	8' - 6"	Direct Connection	NOTE 1	Lights, see hood drawings for details
41C	1	Exhaust Hood	120.0 V	60 Hz	1	15.0 A		1800 W	8' - 6"	Direct Connection	NOTE 1	Lights, see hood drawings for details
41D	1	Exhaust Hood	120.0 V	60 Hz	1	15.0 A		1800 W	8' - 6"	Direct Connection	NOTE 1	Lights, see hood drawings for details
43	1	Tilting Kettle, Electric	480.0 V	60 Hz	3	21.7 A		18000 W	2' - 8"	Direct Connection	NOTE 1	PP-K-1:1,3,5 3 #10 #10 GND, PROVIDE 60A UNF DISC SWITCH
44	1	Hot Top Range with Standard Oven, Electric	480.0 V	60 Hz	3	30.3 A		21900 W	0' - 9"	Direct Connection	NOTE 1	PP-K-1:2,4,6 3 #8 #10 GND, PROVIDE 60A UNF DISC SWITCH
45	1	Electrical Combi-steamer 6 x 2/1 GN on 6 x 2/1 GN	480.0 V	60 Hz	3	31.5 A		22260 W	2' - 6"	Direct Connection	NOTE 1	PP-K-1:7,9,11 Second connection required for top oven section
												PP-K-1:25,27,29 3 #4 #8 GND, PROVIDE 100A UNF DISC SWITCH
47	1	Pasta Cooker, Electric	208.0 V	60 Hz	3	55.6 A		20000 W	0' - 6"	Direct Connection	NOTE 1	PP-K-2:32,34,36 3 #1 #8 GND, PROVIDE 100A UNF DISC SWITCH
48	1	Six Burner Range with Convection Oven, Electric	480.0 V	60 Hz	3	28.1 A		21600 W	0' - 9"	Direct Connection	NOTE 1	PP-K-1:13,15,17 3 #4 #6 GND, PROVIDE 100A UNF DISC SWITCH
49	1	36" Electrical Salamander Broiler	480.0 V	60 Hz	3	8.1 A		4500 W	5' - 8"	Direct Connection	NOTE 1	PP-K-1:19,21,23 PROVIDE 30A 3 PH UNF DISC SWITCH
50	2	Electric Fryer	480.0 V	60 Hz	3	27.0 A		22000 W	0' - 11"	Cord and Plug	NEMA 15-60P	PP-K-1:31,33,35 3 #8 #10 GND, PROVIDE 60A UNF DISC SWITCH AND
50A												SEPARATE 20A (PP-K-2:10) 6' CORD FOR FOR CONNECTION TO BASKET UNIT
50		Electric Fryer	480.0 V	60 Hz	3	27.0 A		22000 W	0' - 11"	Cord and Plug	NEMA 15-60P	PP-K-1:26,28,30 3 #8 #10 GND, PROVIDE 60A UNF DISC SWITCH AND
50A												SEPARATE 20A (PP-K-2:12) FOR CONNECTION TO BASKET UNIT
51	1	Griddle, Table Top, Electric	208.0 V	60 Hz	3	36.2 A		13050 W	2' - 3"	Direct Connection	NOTE 1	PP-K-2:38,40,42 3 #8 #10 GND, PROVIDE 60A UNF DISC SWITCH
52	1	Low Profile Refrigerated Equipment Stand w/ Drawers	115.0 V	60 Hz	1	3.0 A		345 W	1' - 0"	Cord and Plug	NEMA 5-15P	PP-K-EM:19
53	1	Char Brioler, Electric	208.0 V	60 Hz	3	27.6 A		9900 W	2' - 3"	Direct Connection	NOTE 1	PP-K-2:43,45,47 3 #8 #10 GND, PROVIDE 60A UNF DISC SWITCH
54	3	POS Remote Printer	120.0 V	60 Hz	1	10.0 A	-	650 W	4' - 6"	Cord and Plug	NEMA 5-15P	PP-K-2:44 Verify power and data requirements
		POS Remote Printer	120.0 V	60 Hz	1	10.0 A	-	650 W	4' - 6"	Cord and Plug	NEMA 5-15P	PP-K-2:46 Verify power and data requirements
		POS Remote Printer	120.0 V	60 Hz	1	10.0 A	-	650 W	4' - 6"	Cord and Plug	NEMA 5-15P	PP-K-2:48 Verify power and data requirements
56	1	Mega Top Sandwich Refrigerator	115.0 V	60 Hz	1	6.0 A		690 W	1' - 0"	Cord and Plug	NEMA 5-15P	PP-K-EM:21
58	2	Dual Heat Lamp with Lights	208.0 V	60 Hz	1	17.6 A		3230 W	3' - 11"	Direct Connection	NOTE 1	PP-K-2:51,53 120/208v - Neutral required
		Dual Heat Lamp with Lights	208.0 V	60 Hz	1	17.6 A		3230 W	3' - 11"	Direct Connection	NOTE 1	PP-K-2:55,57 120/208v - Neutral required
60	2	Undercounter Refrigerator	115.0 V	60 Hz	1	2.6 A		299 W	1' - 0"	Cord and Plug	NEMA 5-15P	PP-K-EM:23
		Undercounter Refrigerator	115.0 V	60 Hz	1	2.6 A		299 W	1' - 0"	Cord and Plug	NEMA 5-15P	PP-K-EM:25
61	4	Heat Lamp w/Retractable Cord	120.0 V	60 Hz	1	3.1 A		375 W	9' - 0"	Direct Connection	NOTE 1	PP-K-2:59 Verify ceiling height
		Heat Lamp w/Retractable Cord	120.0 V	60 Hz	1	3.1 A		375 W	9' - 0"	Direct Connection	NOTE 1	PP-K-2:61 Verify ceiling height
		Heat Lamp w/Retractable Cord	120.0 V	60 Hz	1	3.1 A		375 W	9' - 0"	Direct Connection	NOTE 1	PP-K-2:63 Verify ceiling height
		Heat Lamp w/Retractable Cord	120.0 V	60 Hz	1	3.1 A		375 W	9' - 0"	Direct Connection	NOTE 1	PP-K-2:65 Verify ceiling height
62	1	Dual Heat Lamp with Lights	208.0 V	60 Hz	1	19.4 A		3600 W	3' - 11"	Direct Connection	NOTE 1	PP-K-2:67,69 120/208v - Neutral required ,2 #10, #10 GND
65	1	Sandwich Top Refrigerator	115.0 V	60 Hz	1	2.6 A		299 W	1' - 0"	Cord and Plug	NEMA 5-15P	PP-K-EM:2
74	1	Dishwasher, Conveyor Type	480.0 V	60 Hz	3	33.0 A	3.3	18000 W	5' - 3"	Direct Connection	NOTE 1	PP-K-1:14,16,18 3 #8 #10 GND, PROVIDE 60A UNF DISC SWITCH
74A	1	Dishwasher, Booster Heater, Internal	480.0 V	60 Hz	3	14.0 A		12000 W	0' - 8"	Direct Connection	NOTE 1	PP-K-1:20,22,24
76	1	Waste Disposer	208.0 V	60 Hz	3	6.6 A	2	2375 W	1' - 0"	Direct Connection	NOTE 1	PP-K-2:71,73,75
81	1	Baquet Hot Holding Cart	120.0 V	60 Hz	1	13.8 A	0	1656 W	4' - 0"	Cord and Plug	NEMA 5-15P	AP-PANTRY:1
82	1	Walk In Refrigerator	120.0 V	60 Hz	1	15.0 A		1000W	8' - 0"	Direct Connection	NOTE 1	PP-K-EM:4 Lights, controls, heater
82A	1	Walk In Freezer	120.0 V	60 Hz	1	15.0 A		1000W	8' - 0"	Direct Connection	NOTE 1	PP-K-EM:6 Lights, controls, heater
83	1	Evaporator Coil, Ref	208V	60 Hz	1	3.6 A	-	3120 W	7' - 8"	Direct Connection	NOTE 1	PP-K-EM:8
84	1	Condensing Unit, Ref	208.0 V	60 Hz	1	9.8 A	2.0	3120 W	1' - 0"	Direct Connection	NOTE 1	PP-K-EM:10,12
85	1	Evaporator Coil, Fzr	208.0 V	60 Hz	1	8.8 A	-	4160 W	7' - 8"	Direct Connection	NOTE 1	PP-K-EM:14,16
86	1	Condensing Unit, Freezer	208.0 V	60 Hz	1	15.0 A	2.5	4160 W	1' - 0"	Direct Connection	NOTE 1	PP-K-EM:18,20
91	1	Beer Line Chiller	240.0 V	60 Hz	1	10.1 A	0.75	2100 W	9' - 0"	Cord and Plug	NEMA 6-20P	PP-K-EM:22,24
99	1	Ice Maker - Modular Crescent Cuber - Remote Air Cooled	208.0 V	60 Hz	1	12.5 A		2600 W	6' - 2"	Direct Connection	NOTE 1	AP-PANTRY:6,8 INTERCONNECT WITH CONDENSER
99A	1	Remote Condenser, Ice Maker	115.0 V	60 Hz	1	23.0 A		2645 W	1' - 2"	Direct Connection	NOTE 1	AP-PANTRY:10 Connection to ice maker
109	1	Dishwasher, Undercounter	208.0 V	60 Hz	1	32.0 A	1	6656 W	0' - 2"	Direct Connection	NOTE 1	PP-K-2:68,70 (3 WIRE & GND, 2H, 1 , 1 GND)
111	1	Mug Froster	120.0 V	60 Hz	1	6.0 A	1/3	720 W	0' - 2"	Cord and Plug	NEMA 5-15P	PP-K-2:52
112	1	Back Bar Cooler	120.0 V	60 Hz	1	5.7 A	1/4	684 W	0' - 6"	Cord and Plug	NEMA 5-15P	PP-K-2:54
114	2	Back Bar Cooler	120.0 V	60 Hz	1	5.7 A	1/4	684 W	0' - 6"	Cord and Plug	NEMA 5-15P	PP-K-EM:26
		Back Bar Cooler	120.0 V	60 Hz	1	5.7 A	1/4	684 W	0' - 6"	Cord and Plug	NEMA 5-15P	PP-K-EM:28
122	1	Blender Station	120.0 V	60 Hz	1	15.0 A		1500W	1' - 4"	Cord and Plug	NEMA 5-15P	PP-K-2:56 Mount receptacle to underside of blender shelf
123	1	Bar Blender	120.0 V	60 Hz	1	8.0 A		960 W	1' - 0"	Cord and Plug	NEMA 5-15P	PP-K-2:58 Power from Item 122, receptacle mounted below shelf
125	2	POS/Cash Register	120.0 V	60 Hz	1	15.0 A		650 W	4' - 0"	Cord and Plug	NEMA 5-15P	PP-K-EM:30 Verify power and data requirements
		POS/Cash Register	120.0 V	60 Hz	1	15.0 A		650 W	4' - 0"	Cord and Plug	NEMA 5-15P	PP-K-EM:32 Verify power and data requirements
128	1	Carbonator	120.0 V	60 Hz	1	15.0 A		780 W	4' - 0"	Cord and Plug	NEMA 5-15P	PP-K-2:60

NOTE 1: PROVIDE LOCK OUT TYPE CIRCUIT BREAKER

LIGHTING CONTROL SCHEDULE

ZONE/ROOM TYPE	CONTROL TYPE										
			CEILING SENSOR				WALL				
	CONTROL SYSTEM	TIME CLOCK ON/OFF	OCCUPANCY AUTO ON 100% ILLUMINATION	OCCUPANCY AUTO ON 50% ILLUMINATION	PARTIAL OFF DOWN TO 50%	VACANCY	VACANCY SENSOR SWITCH	PHOTOCELL DAYLIGHT CONTROL	LOCAL MANUAL CONTROL	MASTER SWITCH CONTROL	PRESET DIMMING CONTROLS
GENERAL LOBBY	CRESTRON	X	X					X	X		X
PRE-FUNCTION	CRESTRON	X	X					X	X		X
CORRIDOR	CRESTRON	X	X		X				X		X
ELEVATOR LOBBY	CRESTRON	X	X						X		X
STAIR	CRESTRON	X	X		X				X		X
LUGGAGE ROOM	CRESTRON						X		X		X
RESTROOM	CRESTRON								X		X
EXTERIOR LIGHTING	CRESTRON	X						X	X		X
RESTAURANT	CRESTRON							X	X		X
CONFERENCE ROOM	CRESTRON							X	X		X
FLEXIBLE EVENT SPACE	CRESTRON							X	X		X
LOUNGE	CRESTRON	X		X					X		X
FITNESS CTR / GYM	CRESTRON	X		X					X		X
GUESTROOM SUITES	INCOMM SYSTEM		X						X		
OFFICE	NLIGHT						X		X		
BREAKROOM	NLIGHT						X		X		
LAUNDRY ROOM	NLIGHT					X			X		
KITCHEN	NLIGHT					X			X		
KITCHEN PANTRY	NLIGHT					X			X		
IT ROOM	NLIGHT								X		
MEP ROOMS	NLIGHT								X		
SITE LIGHTING	NLIGHT	X						X	X		

NOTES:
1. OCCUPANT SENSORS:
A. SENSORS SHALL TURN OFF LIGHTS WITHIN 20 MIN OF ALL OCCUPANTS LEAVING.
B. VACANCY SENSORS SHALL AUTOMATICALLY TURN LIGHTS OFF. VACANCY SENSORS SHALL NOT AUTOMATICALLY TURN ON LIGHTS
C. OCCUPANCY SENSORS SHALL AUTOMATICALLY TURN LIGHTS ON AND OFF.
D. PROVIDE MINIMUM (1) CEILING SENSOR PER 1500 SF, AND AS REQUIRED FOR FULL SPACE COVERAGE
E. OCCUPANCY SENSORS SHALL OVERRIDE TIME CLOCK ON/OFF, UNO
F. * INDICATES THAT OCCUPANCY SENSORS SHALL OVERRIDE TIME CLOCK ONLY AFTER HOURS
2.TIME CLOCK:
A. TIME CLOCK SHALL CONTROL LIGHTS ON AND OFF PER OWNER SCHEDULE. COORDINATE SCHEDULE WITH OWNER.
B. LIGHTS SHALL BLINK BEFORE TURNING OFF TO ALLOW FOR SWITCH TO OVERRIDE LIGHTS ON FOR UP TO 2 HOURS
3.DAYLIGHT ZONES
A. PROVIDE DAYLIGHT RESPONSIVE CONTROLS WHERE INDICATED.
B. DAYLIGHT RESPONSIVE CONTROLS SHALL DIM LIGHTS CONTINUOUSLY FROM FULL TO 15% OF FULL LIGHT OUTPUT OR LOWER.
C. DAYLIGHT RESPONSIVE CONTROLS SHALL BE CAPABLE OF TURNING LIGHTS OFF.

4. CONTROLS ASSOCIATED WITH CRESTRON SYSTEM ARE SHOWN FOR REFERENCE, ONLY. REFER TO LIGHTING DESIGNER'S CONTROL PACKAGE FOR INFORMATION ASSOCIATED WITH CRESTRON SYSTEM CONTROLS.

LIGHTING FIXTURE SCHEDULE

The Inn & Institute_NY19005

Type	Manufacturer	Model Number	Fixture Description	Wattage	Voltage	Driver
TXE		Refer to lighting designer specification package for information		31	277	0-10V
TXC		Refer to lighting designer specification package for information		12	277	0-10V
TXA		Refer to lighting designer specification package for information		9	277	0-10V
TXH		Refer to lighting designer specification package for information		2	120	0-10V
TXD		Refer to lighting designer specification package for information		7	277	0-10V
TN		Refer to lighting designer specification package for information		19	277	0-10V
TBK		Refer to lighting designer specification package for information		10	277	ELV
TAW		Refer to lighting designer specification package for information		4	277	0-10V
TU		Refer to lighting designer specification package for information		15	277	ELV
TW		Refer to lighting designer specification package for information		5	277	ELV
TAV		Refer to lighting designer specification package for information		4	277	0-10V
TAR		Refer to lighting designer specification package for information		14	277	0-10V
TAS		Refer to lighting designer specification package for information		6	277	0-10V
TY		Refer to lighting designer specification package for information		8	277	0-10V
TBP		Refer to lighting designer specification package for information		5	277	0-10V
TBL		Refer to lighting designer specification package for information		7	277	0-10V
TB		Refer to lighting designer specification package for information		12	277	0-10V
TA		Refer to lighting designer specification package for information		12	277	0-10V
TC		Refer to lighting designer specification package for information		12	277	0-10V
TBS		Refer to lighting designer specification package for information		7	277	0-10V
TAJ		Refer to lighting designer specification package for information		37	277	INC-Fwd Ph
TAK		Refer to lighting designer specification package for information		6	277	non-dim
TAT		Refer to lighting designer specification package for information		8	277	0-10V
TAP		Refer to lighting designer specification package for information		10	277	ELV
TAF		Refer to lighting designer specification package for information		5	277	0-10V
TBC		Refer to lighting designer specification package for information		5	277	INC-Fwd Ph
TAD		Refer to lighting designer specification package for information		12	120	INC-Fwd Ph
TX		Refer to lighting designer specification package for information		39	277	0-10V
TL		Refer to lighting designer specification package for information		9	277	INC-Fwd Ph
TBG		Refer to lighting designer specification package for information		12	120	INC-Fwd Ph
TAC		Refer to lighting designer specification package for information		7	120	INC-Fwd Ph
TBH		Refer to lighting designer specification package for information		4	120	INC-Fwd Ph
TBF		Refer to lighting designer specification package for information		10	120	INC-Fwd Ph
TBJ		Refer to lighting designer specification package for information		7	120	0-10V
TBE		Refer to lighting designer specification package for information		20	120	INC-Fwd Ph
TM		Refer to lighting designer specification package for information		10	277	0-10V
TBB		Refer to lighting designer specification package for information		36	277	0-10V
TD		Refer to lighting designer specification package for information		24	277	0-10V
TBA		Refer to lighting designer specification package for information		114	277	0-10V
TF		Refer to lighting designer specification package for information		14	277	0-10V
TK-1		Refer to lighting designer specification package for information		7	120	0-10V
TAN		Refer to lighting designer specification package for information		4	120	0-10V
TAM		Refer to lighting designer specification package for information		17	120	ELV
TBM		Refer to lighting designer specification package for information		37	120	0-10V
TBQ		Refer to lighting designer specification package for information		10	120	0-10V
TBR		Refer to lighting designer specification package for information		22	120	0-10V
TG-2		Refer to lighting designer specification package for information		7	277	0-10V
TAH		Refer to lighting designer specification package for information		10	277	ELV
TAQ		Refer to lighting designer specification package for information		8	277	INC-Fwd Ph
TG		Refer to lighting designer specification package for information		7	277	0-10V
TE		Refer to lighting designer specification package for information		52	277	0-10V
A1		Refer to site lighting designer specification package for information		80	277	
B0		Refer to site lighting designer specification package for information		14.5	120-277	0-10V
B1		Refer to site lighting designer specification package for information		80	277	
B2		Refer to site lighting designer specification package for information		80	277	
D1		Refer to site lighting designer specification package for information		14	277	0-10V
D2		Refer to site lighting designer specification package for information		14	277	0-10V
LB		Refer to site lighting designer specification package for information		47	UNV	0-10V
Z1		Refer to site lighting designer specification package for information		80	277	
FK	Lithonia	ZL1D	1x4	32	277	LV
FL	Lithonia	2BLT2	2x2	26	277	0-10V
FM	Gotham	EVO4	Downlight	31	277	0-10V
FN	Kenall	SimpleSeal	2x2	67	277	0-10V

VASSAR COLLEGE INN & INSTITUTE
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COLLEGE AND RAYMOND AVENUE POUGHKEEPSIE, NY

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ISSUE DATES

12/13/2019 50% CONSTRUCTION DOCUMENTS
04/15/2020 ISSUED FOR PERMIT
05/01/2020 ISSUED FOR CONSTRUCTION
07/01/2020 GMP SET
12/18/2020 FINAL GMP SET
06/21/2021 BID SET

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ELECTRICAL SCHEDULES VI
SCALE: AS INDICATED

E0.15

1 ELECTRICAL SCHEDULES VI
1/8" = 1'-0"

FAN SCHEDULE

CODE	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	WEIGHT LBS	FAN DATA CFM	DRIVE	MOTOR RPM	ESP ("WC)	ELECTRICAL DATA HP	BHP	VOLT	PH	HZ	FLA	DISC	FEEDER SIZE	MTG	CONTROL	REMARKS
TX-1	GREENHECK / GB-121-5	INSTITUTE RESTROOMS	ROOF - INSTITUTE	74	1250	B	1725	0.75	1/2	0.31	460	3	60	1.1	30	3#12,#12G,3/4"C	2	II	C
GX-1	GREENHECK / CSP-A900	TRASH EXHAUST	INSTITUTE - LOADING	60	600	D	950	0.35	-	0.25 kW	115	1	60	4.9	STO	2#12,#12G,3/4"C	1	VII	C
GX-2	GREENHECK / CSP-A710	GENERAL EXHAUST	INN - 1ST FL MECHANICAL	37	600	D	1080	0.27	-	0.31 kW	115	1	60	4.4	STO	2#12,#12G,3/4"C	1	VI	C
GX-3	GREENHECK / CSP-A290	GENERAL EXHAUST	INN - ATTIC	24	250	D	1050	0.27	-	0.1 kW	115	1	60	0.71	STO	2#12,#12G,3/4"C	1	V	C
GX-4	GREENHECK / SQ-120-B	GENERAL EXHAUST	INN-PENTHOUSE	60	1000	D	1140	0.35	1/4	0.14	115	1	60	5.8	STO	2#12,#12G,3/4"C	1	VI	C
TF-1	GREENHECK / CSP-A190	TRANSFER AIR	238 - ELEC	17	150	D	1725	0.3	-	0.05 kW	115	1	60	1.1	STO	2#12,#12G,3/4"C	1	VI	
TF-2	GREENHECK / CSP-A410	TRANSFER AIR	236 - DATA	37	300	D	1725	0.3	-	0.12 kW	115	1	60	1.87	STO	2#12,#12G,3/4"C	1	VI	
DWX-1	GREENHECK / GB-091-4	DISHWASHING EXHAUST	ROOF - INSTITUTE	68	600	B	1725	0.75	1/4	0.17	115	1	60	5.8	STO	2#12,#12G,3/4"C	2	IV	C,E
DRX-1	ENERVEX / BEF-355X	DRYER EXHAUST	LAUNDRY	106	1600	ECM	3100	0.5	3/4	-	460	3	60	1.6	30	3#12,#12G,3/4"C	1	III	D
RF-L-1	GREENHECK / USF-24	LOBBY RETURN AIR	PENTHOUSE - INN	414	4800	VFD	1725	0.75	1 1/2	1.2	460	3	60	3	30	3#12,#12G,3/4"C	3	I	A,B

GENERAL NOTES
1. DRIVE TYPE: D=DIRECT-PROVIDE RHEOSTAT SPEED CONTROLLER IN FAN HOUSING UNLESS OTHERWISE NOTED.
B = BELT-PROVIDE ADJUSTABLE SHEAVE UNLESS OTHERWISE NOTED.
VFD = VARIABLE FREQUENCY DRIVE.
ECM = ELECTRONICALLY COMMUTATED MOTOR
2. PROVIDE MAGNETIC STARTER WITH AUXILARY CONTACTS AND HOA SWITCH ON ALL THREE PHASE UNITS EXCEPT WHEN SERVED FROM MOTOR CONTROL CENTER.
3. PROVIDE PREMIUM EFFICIENCY MOTORS. PER NEMA STANDARD MG1-2003, TABLED 12-12, AND 12-13.
4. PROVIDE FLEXIBLE CONNECTIONS AT DUCT INLET AND OUTLET.
5. ALL EXTERIOR DISCONNECT SWITCHES SHALL BE NEMA 4X TYPE.
6. REFER TO CONTROL DRAWINGS FOR ADDITIONAL FAN CONTROL REQUIREMENTS

MOUNTING (MTG)
1. INSTALL FAN WITH HANGING VIBRATION ISOLATORS.
2. PROVIDE WITH FACTORY MANUFACTURED INSULATED ROOF CURB SUITABLE FOR ROOFING SYSTEM BEING USED. CURB HEIGHT SHALL BE SUCH THAT EQUIPMENT IS 14" ABOVE ROOF INSULATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. INSTALL FAN WITH FLOOR VIBRATION ISOLATION

CONTROL (CTRL)
I. INTERLOCK WITH HVAC UNIT WHICH SERVES SAME SYSTEM VIA DDC SYSTEM.
II. RUN CONTINUOUSLY, CONTROL VIA DDC SYSTEM.
III. INTERLOCK FAN WITH DRYER OPERATION.
IV. INTERLOCK WITH DISHWASHER. FAN SHALL RUN A MINIMUM OF 10 MIN (ADJ.) AFTER DISHWASHER IS DISABLED.
V. RUN WHEN THE RELATIVE HUMIDITY IN THE SPACE SERVED EXCEEDS 60%.
VI. CONTROL VIA WALL TEMPERATURE SENSOR - ENERGIZE AT 85°F (ADJ.).
VII. RUN CONTINUOUSLY, CONTROL VIA DDC SYSTEM. INTERLOCK WITH OVERHEAD DOORS HARDWARE. IF EXTERIOR DOOR IS OPEN, FAN SHALL SHUT DOWN.

REMARK NOTES
A. PROVIDE BELT AND MOTOR GUARD.
B. FAN ON EMERGENCY POWER.
C. PROVIDE MOTORIZED BACKDRAFT DAMPER.
D. PROVIDE GRAVITY BACKDRAFT DAMPER.
E. ALL DUCTWORK CONNECTED TO THIS FAN SHALL BE WELDED STAINLESS STEEL PITCHED TOWARDS DISHWASHER.

GRILLE REGISTER DIFFUSER SCHEDULE

CODE	MANUFACTURER/ MODEL NO.	SERVICE	TYPE	ACCESSORIES	FACE SIZE	NECK SIZE	FINISH	REMARKS
A	TITUS / OMNI	SUPPLY AIR	PLAQUE	PROVIDE OPPOSED BLADE DAMPER WHERE NOTED	12x12	SEE DRAWING	TBD BY ARCHITECT	
B	TITUS / 300	SUPPLY AIR	GRILLE	PROVIDE OPPOSED BLADE DAMPER WHERE NOTED	NECK + 1-3/4"	SEE DRAWING	TBD BY ARCHITECT	
C	TITUS / 350	EXHAUST AIR RETURN AIR	GRILLE	PROVIDE OPPOSED BLADE DAMPER WHERE NOTED	NECK + 1-3/4"	SEE DRAWING	TBD BY ARCHITECT	
D1	TITUS / ML-39	SUPPLY AIR	LINEAR SLOT	PROVIDE OPPOSED BLADE DAMPER WHERE NOTED	(1) 1" SLOT	SEE DRAWING	TBD BY ARCHITECT	A,B,C
D2	TITUS / ML-39	SUPPLY AIR	LINEAR SLOT	PROVIDE OPPOSED BLADE DAMPER WHERE NOTED	(2) 1" SLOTS	SEE DRAWING	TBD BY ARCHITECT	A,B,C
E	TITUS / OMNI	SUPPLY AIR	PLAQUE	PROVIDE OPPOSED BLADE DAMPER WHERE NOTED	24x24	SEE DRAWING	TBD BY ARCHITECT	
F	TITUS / 350	EXHAUST AIR RETURN AIR	GRILLE	PROVIDE OPPOSED BLADE DAMPER WHERE NOTED	NECK + 1-3/4"	SEE DRAWING	TBD BY ARCHITECT	D
G	TITUS / PAR	RETURN AIR	PERFORATED	PROVIDE OPPOSED BLADE DAMPER WHERE NOTED	NECK + 1-3/4"	SEE DRAWING	TBD BY ARCHITECT	D
H1	TITUS / MLR-39	RETURN AIR	LINEAR SLOT	LIGHT SHIELD	(1) 1" SLOT	SEE DRAWING	TBD BY ARCHITECT	A,B,C
H2	TITUS / MLR-39	RETURN AIR	LINEAR SLOT	LIGHT SHIELD	(2) 1" SLOTS	SEE DRAWING	TBD BY ARCHITECT	A,B,C
J	TITUS / CT-580	SUPPLY AIR	LINEAR BAR GRILLE	PROVIDE OPPOSED BLADE DAMPER WHERE NOTED	NECK	SEE DRAWING	TBD BY ARCHITECT	

GENERAL NOTES
1. SEE PLANS FOR CFM AND NECK SIZES.
2. MAXIMUM NOISE CRITERIA (NC) SHALL BE 25 UNLESS OTHERWISE NOTED.
3. COLOR TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDERING. COLOR AT GUEST ROOM DEVICES SHALL BE CUSTOM TO MATCH PAINT.
4. MATERIAL IS STEEL UNLESS OTHERWISE NOTED.
5. PROVIDE BALANCING DEVICE FOR ALL GRILLES, REGISTERS, AND DIFFUSERS UNLESS OTHERWISE NOTED.
BALANCING DEVICES SHALL BE LOCATED AS FAR FROM THE GRILLES AS POSSIBLE.
6. CONTRACTOR TO CONFIRM GRILLES BORDER TYPE WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO ORDERING.
7. CONTRACTOR SHALL PAINT THE INSIDE OF ALL DUCTWORK THAT IS VISIBLE THROUGH THE GRILL.

REMARKS
A. PROVIDE CONTINUOUS DIFFUSER FACE ACROSS ACTIVE AND BLANK SECTIONS SHOWN ON PLANS. REFER TO ARCHITECTURAL DRAWING FOR TOTAL DIFFUSER LENGTH.
PROVIDE DIFFUSER PLENUMS AT ACTIVE SECTIONS PER PLANS.
B. PROVIDE END CAPS, END BORDERS, OPEN BORDERS, AND ALIGNMENT CLIPS AS REQUIRED FOR CONTINUOUS DIFFUSER.
C. PROVIDE PLENUMS BEHIND ALL DUCTED LINEAR DIFFUSERS. PROVIDE LIGHT SCREENS BEHIND ALL LINEAR RETURNS OPEN TO THE CEILING PLENUM.
D. ALUMINUM CONSTRUCTION.

KITCHEN EXHAUST FAN SCHEDULE

CODE	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	TYPE	CFM	ESP "W.C.	DRIVE	CONFIG	MTG	ELECTRICAL MAX BHP	HP	VOLT	PH	HZ	FLA	DISC	FEEDER SIZE	REMARKS
KX-1	GREENHECK / USF-30	KITCHEN	ROOF - INSTITUTE	CENTRIFUGAL	7,992	1.75	VFD	UB	1	3.2	5	460	3	60	7.6	30	3#12,#12G,3/4"C	

GENERAL NOTES:
1. DRIVE TYPE: B = BELT-PROVIDE ADJUSTABLE SHEAVE UNLESS OTHERWISE NOTED.
2. ALL CURBS SHALL BE FACTORY MADE, 14 INCH HIGH INSULATED UNLESS OTHERWISE NOTED.
3. PROVIDE MAGNETIC STARTER WITH AUXILIARY CONTACTS AND HOA SWITCH ON ALL THREE PHASE UNITS EXCEPT WHEN SERVED FROM MOTOR CONTROL CENTER.
4. PROVIDE PREMIUM EFFICIENCY MOTORS. PER NEMA STANDARD MG1-2003, TABLES 12-12 & 12-13.
5. UL 762 LISTED FOR GREASE EXHAUST.
6. PROVIDE BELT AND MOTOR GUARD.
7. PROVIDE GREASE DRAIN SYSTEM WITH GREASE TRAP.
8. EXTERIOR DISCONNECT SWITCHES SHALL BE NEMA 4X TYPE.
9. REFER TO CONTROL DRAWINGS FOR FAN CONTROL REQUIREMENTS.
10. EXTEND KITCHEN EXHAUST DISCHARGE A MINIMUM OF 48" FROM FAN DISCHARGE.
DISCHARGE MUST BE A MINIMUM OF 40" ABOVE ANY PART OF THE ROOF WITHIN 10' OF FAN DISCHARGE.
11. INTERLOCK KITCHEN EXHAUST FAN WITH KITCHEN HOOD OPERATION.
12. VFD SHALL BE ABB ACH550 AS REQUIRED BY DEMAND CONTROLLED KITCHEN VENTILATION SYSTEM. COORDINATE WITH KITCHEN EQUIPMENT CONTRACTOR.

MOUNTING (MTG):
1. PROVIDE FACTORY MANUFACTURED ROOF CURB AND ALL ACCESSORIES REQUIRED FOR COMMERCIAL KITCHEN GREASE EXHAUST APPLICATION.
ORDER CURB HEIGHT TO MEET MINIMUM REQUIRED EXHAUST OUTLET.

AIR HANDLING UNIT SCHEDULE

CODE	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	SUPPLY FAN CFM	%OA	TYPE	ESP ("W.C)	TSP ("W.C)	HP	MAX BHP	RPM	FILTER TYPE	APD ("W.C.) INITIAL	APD ("W.C.) FINAL	UNIT DIMENSIONS L (IN)	W (IN)	H (IN)	WEIGHT (LBS)	AHU CONFIG	ELECTRICAL HP	VOLT	PH	HZ	FLA	MCA	DISC	FEEDER SIZE	REMARKS
OAHU-1	TRANE / UCCAP03	DRYER MAKEUP AIR	349 - MECH PENTHOUSE	1600	100%	ECM	0.5	1.44	1.3	0.66	2435	MERV 8	0.29	0.60	38	34	46	331	I	1.3	460	3	60	4.5	5.6	30	3#12, #12G, 3/4"C	A,B,C

GENERAL NOTES

1. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER NEMA STANDARD MG1-2003, TABLES 12-12 AND 12-13.
2. PROVIDE FACTORY MOUNTED COMBINATION STARTER/DISCONNECT WIRED TO MOTORS AND FACTORY COMMISSIONED
WITH AUXILIARY CONTACTS AND HOA SWITCH ON ALL THREE PHASE MOTORS
3. INSTALL UNITS WITH ADEQUATE CLEARANCE FOR FILTER REPLACEMENT AND TO FULLY OPEN ACCESS DOORS.
PROVIDE A MINIMUM OF 3 FEET CLEARANCE IN FRONT OF DISCONNECTS SWITCHES AND CONTROL PANELS. COMPLY FULLY WITH NEC.
4. UNIT TOTAL STATIC PRESSURE SHALL INCLUDE SCHEDULED EXTERNAL STATIC PRESSURE PLUS ALL SCHEDULED INTERNAL PRESSURE DROPS. INCLUDE DIRTY FILTERS.
5. PROVIDE 2" FLAT FILTER RACK.
6. PROVIDE INTERNAL VIBRATION ISOLATION.
7. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
8. PROVIDE MAGNEHELIC FILTER GAUGE.

CONFIGURATION:
I. VERTICAL UNIT (NO MIXING BOX), FILTER SECTION, SUPPLY FAN.

REMARK NOTES:
A. MOUNT UNIT ON 4" CONCRETE HOUSEKEEPING PAD.
B. INTERLOCK UNIT OPERATION WITH DRYERS. FAN SPEED SHALL ADJUST BASED ON QTY OF DRYERS IN OPERATION.
C. FAN MINIMUM SPEED SHALL BE SET SUCH THAT ELECTRIC COIL MINIMUM VELOCITY IS MAINTAINED.

AIR-COOLED SPLIT SYSTEM AIR CONDITIONER SCHEDULE

AIR HANDLING UNIT

CODE (AC)	MANUFACTURER/ MODEL NO.	LOCATION	FAN CFM	COOLING CAPACITY TOTAL MBH	LINE SIZE (IN DIA.) LIQUID	SUCTION	VOLT	PH	HZ	RLA	DISC	FEEDER SIZE	WEIGHT LBS.	REMARKS
1-11	LG / ARNU363SVA4	ELECTRICAL	812	36.0	3/8	5/8	200	1	60	0.8	30	2#12, #12G, 3/4"C	37	A,B
2-11	LG / ARNU303SVA4	AV/IT	600	30.0	3/8	5/8	200	1	60	0.5	30	2#12, #12G, 3/4"C	37	A
1-12	LG / ARNU243TNA4	KITCHEN	600	24.0	3/8	5/8	200	1	60	0.6	30	2#12, #12G, 3/4"C	67	A
1-13	LG / ARNU243TNA4	KITCHEN	600	24.0	3/8	5/8	200	1	60	0.6	30	2#12, #12G, 3/4"C	67	A
1-14	LG / ARNU243TNA4	KITCHEN	600	24.0	3/8	5/8	200	1	60	0.6	30	2#12, #12G, 3/4"C	67	A

AIR-COOLED CONDENSING UNIT

CODE (ACCU)	MANUFACTURER/ MODEL NO.	EER (SEER)	COOLING MBH	ELECTRICAL DATA KW	VOLT	PH	HZ	MCA	DISC	FEEDER SIZE	WEIGHT LBS.	REMARKS
1	LG / ARUN038GSS4	17.0	36	4.6	200	1	60	25.0	60	2#8, #10G, 3/4"C	207	C
2	LG / ARUN038GSS4	17.0	30	2.7	200	1	60	25.0	60	2#8, #10G, 3/4"C	207	C
3	LG / ARUM072DTE5	13.4	71.5	5.39	460	3	60	12.8	30	3#12, #12G, 3/4"C	430	C

GENERAL NOTES
1. EAT= 80/67 DB/WB.
2. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER NEMA STANDARD MG1-2003, TABLES 12-12 AND 12-13.
3. CONTRACTOR TO MAINTAIN ALL MANUFACTURE SERVICE AND PERFORMANCE CLEARANCES. COORDINATE WITH ALL TRADES.
4. REFRIGERANT: R-410A
5. WARRANTY: 2 YEAR PARTS, 5 YEAR COMPRESSOR
6. PROVIDE A REMOTE BMS CONNECTION. BMS SHALL MONITOR ALL POINTS.
7. CHECK, TEST AND STARTUP SUPERVISION WITH INSTALLING CONTRACTOR AND MANUFACTURE TECHNICIAN. SUBMIT STARTUP LOGS TO ENGINEER FOR RECORD.
9. PROVIDE ISOLATION VALVE AND FLEX CONNECTIONS ON EACH CONNECTION AT EACH EVAPORATOR & CONDENSER.
10. PROVIDE ALL INTERCONNECTING PIPING, WIRING AND ACCESSORIES.

AIR HANDLING UNIT REMARK NOTES
A. PROVIDE INLINE CHECK VALVE OR CONDENSATE TRAP IN CONDENSATE DRAIN PIPE FOR DUCTLESS MINI-SPLIT UNITS.
B. PROVIDE CONDENSATE PUMP. POWER FROM NEAREST 120V RECEPTACLE CIRCUIT.

CONDENSING UNIT REMARK NOTES
C. PROVIDE LOW-AMBIENT CONTROLS AND WIND BAFFLE FOR OPERATION DOWN TO 0 DEGF

OUTSIDE AIR VAV BOX SCHEDULE

CODE (VAV)	LOCATION	UNITS SERVED	MANUFACTURER/ MODEL NO.	CONTROL	DESIGN CFM MIN	DESIGN CFM MAX	DIAMETER (IN.)	REMARKS
VAV-1-1	161 - KITCHEN	AC-1-1	RUSKIN / CDRAMS	DIGITAL	80	260	6	A
VAV-1-2	161 - KITCHEN	AC-1-6	RUSKIN / CDRAMS	DIGITAL	80	80	6	
VAV-1-3	161 - KITCHEN	AC-1-3, AC-1-4	RUSKIN / CDRAMS	DIGITAL	1240	1240	8	
VAV-2-1A	156 - STORAGE	AC-2-1A	RUSKIN / CDRAMS	DIGITAL	80	530	6	A
VAV-2-1B	261 - PANTRY	AC-2-1B	RUSKIN / CDRAMS	DIGITAL	80	350	6	A
VAV-2-2A	261 - PANTRY	AC-2-2A	RUSKIN / CDRAMS	DIGITAL	80	350	6	A
VAV-2-2B	261 - PANTRY	AC-2-2B	RUSKIN / CDRAMS	DIGITAL	80	305	6	A
VAV-2-3	261 - PANTRY	AC-2-3	RUSKIN / CDRAMS	DIGITAL	80	120	6	A
VAV-2-4	261 - PANTRY	AC-2-4B, 2-7	RUSKIN / CDRAMS	DIGITAL	435	435	6	
VAV-2-6	261 - PANTRY	AC-2-6	RUSKIN / CDRAMS	DIGITAL	80	80	6	

GENERAL NOTES
1. VAV BOX SHALL BE ROUND WITH INTEGRAL DAMPER, AIRFLOW STATION, AMS801 PRESSURE TRANSDUCER, AND VAFB24-BAC-RAMS ACTUATOR.
2. FLOW CONTROL FUNCTIONALITY SHALL BE INTEGRAL TO DAMPER ACTUATOR. SETPOINT SHALL BE ADJUSTABLE BY BMS VIA BACNET INTEGRATION TO ACTUATOR.
3. MOUNT WITH 4 STRAIGHT DUCT DIAMETERS UPSTREAM OF THE BOX.
4. PROVIDE FACTORY MOUNTED 120V FUSED DISCONNECT SWITCH, CONTROL, TRANSFORMER AND AIR FLOW SWITCH.
5. UPON POWER FAILURE, ACTUATOR SHALL MODULATE TO LAST USED POSITION
6. PROVIDE CONTROL TRANSFORMER FOR EACH VAV BOX, SUITABLE FOR 120V POWER SUPPLY.

REMARK NOTES
A. DEMAND CONTROL VENTILATION

VAV BOX SCHEDULE

CODE (VAV)	AREA SERVED	MANUFACTURER/ MODEL NO.	CONTROL	DESIGN CFM MIN	DESIGN CFM MAX	MAX. NC @ BOX MAX.	INLET SIZE	OUTLET SIZE	REMARKS
VAV-L-1A	MAIN LOBBY	TITUS DESV 14	DIGITAL	820	2450	25	14	20 x 17	
VAV-L-1B	MAIN LOBBY	TITUS DESV 12	DIGITAL	650	1950	31	12	16 x 15	
VAV-L-2	131 - LOUNGE L1	TITUS DESV 9	DIGITAL	320	950	25	9	14 x 12	

GENERAL NOTES
1. CONTROLS SHALL BE BY MANUFACTURER OR BY CONTROL MANUFACTURER AND INSTALLED AT THE FACTORY (SEE SPECIFICATIONS).
2. MOUNT WITH 5 STRAIGHT DUCT DIAMETERS UPSTREAM OF THE BOX.
3. MAXIMUM NC LEVELS ARE RADIATED SOUND DATA AND BASED ON AN INLET VELOCITY OF 2000 FPM AND AT A PRESSURE DROP ACROSS THE BOX OF 1.5".
4. PROVIDE FACTORY MOUNTED 120V FUSED DISCONNECT SWITCH, CONTROL, TRANSFORMER AND AIR FLOW SWITCH.
5. UPON POWER FAILURE, ACTUATOR SHALL MODULATE TO LAST USED POSITION
6. PROVIDE CONTROL TRANSFORMER FOR EACH VAV BOX, SUITABLE FOR 120V POWER SUPPLY.

REMARK NOTES

VASSAR COLLEGE INN & INSTITUTE
18010.00
COLLEGE AND RAYMOND AVENUE POUGHKEEPSIE, NY

CONTRACTOR

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ISSUE DATES
09/03/2019 100% DESIGN DEVELOPMENT
12/13/2019 50% CONSTRUCTION DOCUMENTS
04/15/2020 ISSUED FOR PERMIT
05/01/2020 ISSUED FOR CONSTRUCTION
07/01/2020 GMP SET
12/18/2020 FINAL GMP SET
06/21/2021 BID SET

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MEP
SCHEDULES I
SCALE: AS INDICATED

E0.50

ROOFTOP AIR HANDLING UNIT SCHEDULE (GROUND-SOURCE HEAT PUMP)

CODE	AREA SERVED	LOCATION	MANUFACTURER/ MODEL NO.	WEIGHT (LBS)	SUPPLY FAN								ELECTRIC PREHEAT				COOLING CAPACITY									HEATING CAPACITY								FILTER			ELECTRICAL							REMARKS
																	EAT (°F)		LAT (°F)																PRE	FINAL	APD ("W.C.)								
					CFM	%OA	MIN OA CFM	TSP "WC	ESP "WC	QTY	HP	BHP	EFF %	EAT (°F)	LAT (°F)	KW	STEPS	DB	WB	DB	WB	EWT (°F)	LWT (°F)	NOM. TONS	TOTAL MBH	SENS MBH	GPM	FLUID PD (FT)	AHRI EER	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	TOTAL MBH	GPM	FLUID PD (FT)	COP	FILTER TYPE	FILTER TYPE	CLEAN	DIRTY	VOLT	PH	HZ	FLA	MCA	DISC	FEEDER SIZE	
DOAS-2	INSTITUTE	INSTITUTE ROOF	AAON / RN-020	2689	3750	100	-	2.18	1.50	1	3	1.92	67.1	6.2	40	50	SCR	91.3	74.0	55.1	54.0	88	97.3	20	232.4	140.2	66	14.2	15.7	40.0	93.5	43	37.1	229.3	66	14.2	3.18	MERV 8	MERV 13	0.14	0.49	460	3	60	98	102	200	3#1/0, #6G, 1-1/2"C	
MUA-1	KITCHEN	INSTITUTE ROOF	AAON / RN-030	2785	6394	100	-	2.40	1.30	1	7.5	4.12	58.7	6.2	40	70	SCR	91.3	74.0	58.8	57.3	88	97.8	30	343.4	214.6	93	14.5	14.5	40.0	87.2	43	36.6	345.5	93	14.5	3.29	MERV 8	MERV 13	0.30	0.65	460	3	60	141	147	400	3#4/0, #4G, 2-1/2"C	A

GENERAL NOTES:
1. REFRIGERANT: R-410A
2. HEAT PUMPS TO BE CAPABLE OF OPERATING AT EXTENDED RANGE CONDENSER WATER TEMPERATURES.
3. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER MENA STANDARD MG1-2003, TABLES 12-12 AND 12-13.
4. PROVIDE FACTORY MOUNTED VFDS ON ALL FANS. VFD SHALL BE MOUNTED INTERNAL TO THE UNIT.
5. PROVIDE A MINIMUM OF 3 FEET CLEARANCE IN FRONT OF DISCONNECTS SWITCHES AND CONTROL PANELS. COMPLY FULLY WITH NEC.
6. UNIT SHALL BE PROVIDED WITH SUFFICIENT CLEARANCE FOR FILTER REPLACEMENT, COMPRESSOR REPLACEMENT, FAN REPLACEMENT, AND FULL OPENING OF ALL ACCESS DOORS.
7. UNIT STATIC PRESSURE CAPABILITY SHALL INCLUDE SCHEDULED EXTERNAL STATIC PRESSURE PLUS ALL SCHEDULED INTERNAL PRESSURE DROPS. INCLUDE VALVES FOR WETTED COILS AND DIRTY FILTERS.
8. PROVIDE DUCT SMOKE DETECTORS IN THE SUPPLY DUCT FOR ALL UNITS 2000 CFM OR GREATER. RE: SPECIFICATIONS. INITIATION OF THE SMOKE DETECTOR SHALL STOP THE RESPECTIVE FAN(S). RE: FIRE ALARM SEQUENCE.
9. MOUNT UNIT ON FULL PERIMETER FACTORY ROOF CURB. CURB HEIGHT SHALL BE SUCH THAT EQUIPMENT IS 14" ABOVE ROOF INSULATION. PROVIDE 3/4" NEOPRENE PADS BETWEEN UNIT AND CURB, MASON TYPE SUPER W OR EQUAL.
10. PROVIDE PROTOCOL TRANSFER LINK AND ANY OTHER ADDITIONAL HARDWARE REQUIRED FOR COMPATIBILITY WITH BMS.
11. PROVIDE WITH MANUFACTURER'S CONTROLLER WITH ALL HARDWARE TO PROVIDE COMPATIBILITY WITH BMS.
12. CHECK, TEST, AND STARTUP SUPERVISION SHALL BE BY INSTALLING CONTRACTOR AND MANUFACTURER'S TECHNICIAN. PROVIDE STARTUP LOGS TO ENGINEER FOR RECORD.
13. PROVIDE FACTORY INSTALLED AND WIRED TO EXTERIOR MOUNTED DISCONNECT SWITCH, 120V POWER OR A GFI OUTLET AND MARINE LIGHTS IN ACCESS SECTION
14. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
15. PROVIDE STAINLESS STEEL DRAIN PANS.
16. PROVIDE MAGNEHELIC FILTER GAUGES.
17. ALL EXTERIOR DISCONNECT SWITCHES SHALL BE RATED NEMA 4X.
18. PROVIDE INTERNAL VIBRATION ISOLATION.
19. UNIT SHALL BE SUPPLIED WITH VARIABLE COMPRESSORS.
20. CONTRACTOR IS RESPONSIBLE FOR ALL INTERCONNECTING WIRING, CONTROLS, POWER, ETC. REQUIRED TO IMPLEMENT CONTROL SEQUENCES.
21. WARRANTY: MINIMUM 2 YEARS PARTS, 5 YEARS COMPRESSOR.

REMARK NOTES:
A. INTERLOCK WITH KITCHEN EXHAUST HOOD OPERATION.

INDOOR AIR HANDLING UNIT SCHEDULE (GROUND-SOURCE HEAT PUMP)

CODE	AREA SERVED	LOCATION	MANUFACTURER/ MODEL NO.	WEIGHT (LBS)	EXHAUST FAN						SUPPLY FAN								COOLING CAPACITY										HEATING CAPACITY								ENTHALPY ENERGY RECOVERY WHEEL												FILTER			ELECTRICAL								REMARKS
																			EAT (°F)		LAT (°F)																APD "WC	SUMMER CONDITIONS							WINTER CONDITIONS					PRE	FINAL	APD ("W.C.)									
					CFM	ESP "WC	QTY	HP	BHP	EFF %	CFM	%OA	MIN OA CFM	TSP "WC	ESP "WC	QTY	HP	BHP	EFF %	DB	WB	DB	WB	EWT (°F)	LWT (°F)	NOM. TONS	TOTAL MBH	SENS MBH	GPM	FLUID PD (FT)	AHRI EER	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	TOTAL MBH	GPM	FLUID PD (FT)	COP		TOTAL MBH	SENS MBH	EAT DB/WB	LAT DB/WB	EFF	TOTAL MBH	SENS MBH	EAT DB	LAT DB	FILTER TYPE	FILTER TYPE	CLEAN	DIRTY	VOLT	PH	HZ	FLA	MCA	DISC	FEEDER SIZE	
DOAS-1	INN	INN ATTIC	AAON / SB-010	1094	2200	1.25	1	2.3	1.36	52	2700	100	-	3.42	1.75	1	4	2.78	52.3	77.1	64.2	52.6	50.5	88	97.5	10	103.4	70.2	30	9.1	17	41.9	81.2	43	36.4	120.3	30	9.08	4.98	0.87	94.0	40.0	91.3 / 74.0	77.1 / 64.2	0.69	160.6	107.8	6.2	40.4	MERV 8	MERV 13	0.30	0.65	460	3	60	24	29	60	3#8, #10G, 3/4"C	
GSHP-L-1	INN	INN PENTHOUSE	AAON / SB-018	1371	N/A						4800	15	720	2.83	1.30	2	2.3	2.03	52.7	77.5	64.6	52.5	50.4	88	98.9	18	194.5	131.2	50	6.6	15.2	77.5	64.6	43	36.5	207.4	50	6.6	4.45		N/A									MERV 8	MERV 13	0.46	0.81	460	3	60	32	39	60	3#6, #10G, 1"C	

GENERAL NOTES:
1. REFRIGERANT: R-410A
2. HEAT PUMPS TO BE CAPABLE OF OPERATING AT EXTENDED RANGE CONDENSER WATER TEMPERATURES.
3. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER NEMA STANDARD MG1-2003, TABLES 12-12 AND 12-13.
4. PROVIDE FACTORY MOUNTED VFDS ON ALL FANS. VFD SHALL BE MOUNTED INTERNAL TO THE UNIT.
5. PROVIDE A MINIMUM OF 3 FEET CLEARANCE IN FRONT OF DISCONNECTS SWITCHES AND CONTROL PANELS. COMPLY FULLY WITH NEC.
6. UNIT SHALL BE PROVIDED WITH SUFFICIENT CLEARANCE FOR FILTER REPLACEMENT, COMPRESSOR REPLACEMENT, FAN REPLACEMENT, AND FULL OPENING OF ALL ACCESS DOORS.
7. UNIT STATIC PRESSURE CAPABILITY SHALL INCLUDE SCHEDULED EXTERNAL STATIC PRESSURE PLUS ALL SCHEDULED INTERNAL PRESSURE DROPS. INCLUDE VALVES FOR WETTED COILS AND DIRTY FILTERS.
8. PROVIDE DUCT SMOKE DETECTORS IN THE SUPPLY DUCT FOR ALL UNITS 2000 CFM OR GREATER. RE: SPECIFICATIONS. INITIATION OF THE SMOKE DETECTOR SHALL STOP THE RESPECTIVE FAN(S). RE: FIRE ALARM SEQUENCE.
9. UNIT SHALL BE DELIVERED IN SECTIONS. ALL SECTIONS SHALL BE SIZED TO FIT THROUGH A 3' X 7' DOORWAY. FIELD ASSEMBLY SHALL BE DONE BY THE CONTRACTOR UNDER THE SUPERVISION OF THE MANUFACTURER.
10. PROVIDE PROTOCOL TRANSFER LINK AND ANY OTHER ADDITIONAL HARDWARE REQUIRED FOR COMPATIBILITY WITH BMS.
11. PROVIDE WITH MANUFACTURER'S CONTROLLER WITH ALL HARDWARE TO PROVIDE COMPATIBILITY WITH BMS.
12. CHECK, TEST, AND STARTUP SUPERVISION SHALL BE BY INSTALLING CONTRACTOR AND MANUFACTURER'S TECHNICIAN. PROVIDE STARTUP LOGS TO ENGINEER FOR RECORD.
13. PROVIDE FACTORY INSTALLED AND WIRED TO EXTERIOR MOUNTED DISCONNECT SWITCH, 120V POWER OR A GFI OUTLET AND MARINE LIGHTS IN ACCESS SECTION
14. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
15. PROVIDE STAINLESS STEEL DRAIN PANS.
16. PROVIDE MAGNEHELIC FILTER GAUGES.
17. PROVIDE INTERNAL VIBRATION ISOLATION.
18. PROVIDE INTERNAL VIBRATION ISOLATION.
19. MOUNT UNIT ON 4" CONCRETE HOUSEKEEPING PAD. PROVIDE 3/4" NEOPRENE PADS, MASON TYPE SUPER W OR EQUAL.
20. UNIT SHALL BE SUPPLIED WITH VARIABLE COMPRESSORS.
21. CONTRACTOR IS RESPONSIBLE FOR ALL INTERCONNECTING WIRING, CONTROLS, POWER, ETC. REQUIRED TO IMPLEMENT CONTROL SEQUENCES.
22. WARRANTY: MINIMUM 2 YEARS PARTS, 5 YEARS COMPRESSOR.

INDOOR GROUND SOURCE HEAT PUMPS SCHEDULE

CODE (GSHP)	MANUFACTURER/ MODEL	AREA SERVED	LOCATION	CONFIGURATION	WEIGHT (LBS)	CFM	MIN OA CFM	ESP (IN.)	COOLING CAPACITY										HEATING CAPACITY								ELECTRICAL DATA								MOUNTING	REMARKS
									TOTAL MBH	SENS MBH	EWT (F)	LWT (F)	GPM	WPD (FT)	EAT (F)		LAT (F)		AHRI EER	TOTAL MBH	EAT (F)	LAT (F)	GPM	WPD (FT)	EWT (F)	LWT (F)	AHRI COP	VOLT	PH	HZ	FLA	MCA	DISC	FEEDER SIZE		
															D.B.	W.B.	D.B.	W.B.																	
1-1	CLIMATEMASTER / TCH-018	INN OFFICE SUITE	138 - BREAKROOM	DUCTED HORIZONTAL	158	678	85	0.5	16.2	14.7	88	97	4.5	9.8	75	63	55.0	50	17	15.7	68	89.5	4.5	11.4	43	37.4	3.7	265	1	60	7.9	9.4	30	2#12,#12G,3/4"C	II	E
1-2	CLIMATEMASTER / TCH-009	INN OFFICE SUITE	141 - MECHANICAL	DUCTED HORIZONTAL	105	327	65	0.5	8.0	6.3	88	99	2.0	9.8	75	63	57.2	52	17	8.4	68	91.7	2.0	11.4	43	36.7	3.5	265	1	60	5.7	6.6	30	2#12,#12G,3/4"C	II	E
1-3	CLIMATEMASTER / TCH-024	LAUNDRY	LAUNDRY	DUCTED HORIZONTAL	174	804	-	0.5	21.6	17.3	88	98	6.0	13.3	75	63	55.0	50	16	21.7	68	93.0	6.0	14.5	43	37.4	3.5	265	1	60	13	15	30	2#12,#12G,3/4"C	II	E
A	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B	CLIMATEMASTER / TSL-009	GUEST ROOM / SUITE BED	SEE PLANS	DUCTED VERTICAL STACK	205	290	-	0.3	8.0	7.0	88	99	2.0	6.5	75	63	53	47	17	6.5	68	93.5	2.0	6.8	43	36.6	3.3	265	1	60	5.8	6.7	30	2#12,#12G,3/4"C	I	A,B,C,D,E,F,G,H
C	CLIMATEMASTER / TSL-018	CORNER GUEST ROOM	SEE PLANS	DUCTED VERTICAL STACK	233	670	-	0.3	14.0	11.7	88	96	4.5	5.4	75	63	53	47	18	14.8	68	88.4	4.5	11.8	43	37.8	3.5	265	1	60	8.1	9.5	30	2#12,#12G,3/4"C	I	A,B,C,D,E,F,G,H
D	CLIMATEMASTER / TSL-024	SUITE LIVING	SEE PLANS	DUCTED VERTICAL STACK	328	760	-	0.3	22.7	22.1	88	98	6.0	5.9	75	63	53.0	47	19	22.1	68	94.9	6.00	10.4	43	37.2	3.6	265	1	60	14	16	30	2#12,#12G,3/4"C	I	A,B,C,D,E,F,G

GENERAL NOTES:
1. HEAT PUMPS TO BE CAPABLE OF OPERATING AT EXTENDED RANGE CONDENSER WATER TEMPERATURES.
2. REFRIGERANT: R-410A
3. PROVIDE 1" THROWAWAY FILTER. MERV 8.
4. PROVIDE PLENUM RATED STAINLESS STEEL BRAIDED HOSE KITS FOR WATER PIPING UNLESS OTHERWISE NOTED.
5. PROVIDE INTERNAL STAINLESS STEEL DRIP PAN WITH CONDENSATE PIPE AND LEAK DETECTOR.
6. PROVIDE FACTORY INSTALLED P-TRAP FOR CONDENSATE LINE.
7. PROVIDE DISCONNECT SWITCH. FACTORY INSTALLED, NON-FUSED TYPE.
8. PROVIDE FACTORY INSTALLED ECM MOTORS.
9. ALL DUCTWORK, PIPING, AND ELECTRICAL CONNECTIONS SHALL BE MADE WITH FLEXIBLE CONNECTIONS.
10. ALL UNITS SHALL BE INSTALLED WITH ADEQUATE CLEARANCES FOR FILTER REPLACEMENT, COMPRESSOR REPLACEMENT, FAN REPLACEMENT, AND ALL OTHER ACCESS REQUIRED TO SERVICE THE UNIT.
11. UNIT STATIC PRESSURE CAPABILITY SHALL INCLUDE SCHEDULED EXTERNAL STATIC PRESSURE PLUS ALL SCHEDULED INTERNAL PRESSURE DROPS. INCLUDE VALVES FOR WETTED COILS AND DIRTY FILTERS.
12. CHECK, TEST, AND STARTUP SUPERVISION SHALL BE BY INSTALLING CONTRACTOR AND MANUFACTURER'S TECHNICIAN. PROVIDE STARTUP LOGS TO ENGINEER FOR RECORD.
13. HEAT PUMPS SHALL BE FULLY OPERATIONAL AT TIME OF STARTUP. COORDINATE WITH BMS CONTRACTOR TO ENSURE CONTROLS ARE OPERATIONAL. PROVIDE TEMPORARY THERMOSTATS AS REQUIRED.
14. CLIP JUMPER WIRE TO ALLOW LOW LEAVING WATER TEMPERATURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
15. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
16. PROVIDE INTERNAL VIBRATION ISOLATION.
17. CONTRACTOR IS RESPONSIBLE FOR ALL INTERCONNECTING WIRING, CONTROLS, POWER, ETC. REQUIRED TO IMPLEMENT CONTROL SEQUENCES.
18. WARRANTY: MINIMUM 2 YEARS PARTS, 5 YEARS COMPRESSOR.

MOUNTING NOTES:
I. UNIT SHALL BE FLOOR MOUNTED ON FACTORY-MANUFACTURED, FIELD-INSTALLED CABINET STAND WITH NEOPRENE ISOLATION PAD. COORDINATE HEIGHT OF STAND TO MAINTAIN ACCESSIBILITY THROUGH RETURN AIR PANEL.
II. UNIT SHALL BE SUSPENDED FROM DOUBLE DEFLECTION SPRING/NEOPRENE VIBRATION ISOLATION HANGERS SUCH AS MASON INDUSTRIES TYPE DNHS OR EQUIVALENT WITH MINIMUM 1" DEFLECTION.
III. UNIT SHALL BE FLOOR MOUNTED WITH NEOPRENE ISOLATION PAD.

REMARK NOTES:
A. PROVIDE ULTRAQUIET SOUND INSULATED CABINET.
B. MANUFACTURER TO PROVIDE STAINLESS STEEL HOSE KITS, ISOLATION VALVES, AUTOFLOW REGULATORS, AND MODULATING CONTROL VALVE. RE: SPECIFICATIONS.
C. CONNECT HEAT PUMP TO INNCOMM SYSTEM.
D. PROVIDE FACTORY INSTALLED RIB RELAY FOR QUIET ENERGIZING OF COMPRESSORS.
E. CONNECT TO EMERGENCY POWER.
F. PROVIDE SUPPLY FAN WITH CONSTANT TORQUE EC MOTOR. FAN SPEED SHALL NOT EXCEED MEDIUM SPEED TAP.
G. PROVIDE TYPE "G" RETURN AIR PANEL. PANEL SHALL HAVE HINGED DOOR AND SHALL BE INSTALLED TO ALLOW ACCESS TO FILTER AND HEAT PUMP CHASSIS. COORDINATE CUSTOM PANEL FINISH WITH ARCHITECT.
H. PROVIDE FIELD INSTALLED CONDENSATE PUMP FOR ALL UNITS INSTALLED ON THE FIRST FLOOR. POWER FROM NEAREST 120V RECEPTACLE.

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05/01/2020 ISSUED FOR CONSTRUCTION
07/01/2020 GMP SET
12/18/2020 FINAL GMP SET
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MEP
SCHEDULES II
SCALE: AS INDICATED

E0.51

VARIABLE REFRIGERANT FLOW SCHEDULE (WATER COOLED)

AIR HANDLING UNIT

CODE (AC)	MANUFACTURER/ MODEL NO.	TYPE	AREA SERVED	FAN OA CFM	FAN CFM	FAN ESP ("W.C)	COOLING TOTAL MBH	COOLING SENS MBH	HEATING CAPACITY MBH	LINE SIZE (IN DIA.) LIQUID	LINE SIZE (IN DIA.) SUCTION	VOLT	PH	HZ	RLA	DISC	FEEDER SIZE	WEIGHT LBS.	REMARKS
1-1	LG / ARNU283M2A4	HIGH-STATIC DUCTED	PRIVATE DINING	260	845	0.5	23.5	17.4	25.2	3/8	5/8	200	1	60	2.3	30	2#12, #12G, 3/4"C	86	B,D
1-2	LG / ARNU483M3A4	HIGH-STATIC DUCTED	DINING	-	1,480	0.5	40.8	30.7	43.3	3/8	5/8	200	1	60	2.5	30	2#12, #12G, 3/4"C	96	B,D
1-3	LG / ARNU423M2A4	HIGH-STATIC DUCTED	DINING	570	1,260	0.5	35.0	25.9	37.9	3/8	5/8	200	1	60	2.5	30	2#12, #12G, 3/4"C	86	B,D
1-4	LG / ARNU483M3A4	HIGH-STATIC DUCTED	BAR	670	1,480	0.5	40.8	30.7	43.3	3/8	5/8	200	1	60	2.5	30	2#12, #12G, 3/4"C	96	B,D
1-5	LG / ARNU073M1A4	HIGH-STATIC DUCTED	RESTROOMS	-	255	0.5	6.4	4.9	6.8	1/4	1/2	200	1	60	0.2	30	2#12, #12G, 3/4"C	56	B,D
1-6	LG / ARNU123M1A4	HIGH-STATIC DUCTED	KITCHEN SUPPORT SPACES	80	345	0.5	10.3	8.0	11.0	1/4	1/2	200	1	60	0.2	30	2#12, #12G, 3/4"C	56	B,D
2-1A	LG / ARNU483M3A4	HIGH-STATIC DUCTED	FLEX EVENT	530	1,480	0.5	40.5	30.5	43.3	3/8	5/8	200	1	60	2.5	30	2#12, #12G, 3/4"C	96	B,D
2-1B	LG / ARNU363M2A4	HIGH-STATIC DUCTED	FLEX EVENT	350	1,030	0.5	30.7	22.7	32.6	3/8	5/8	200	1	60	2.3	30	2#12, #12G, 3/4"C	86	B,D
2-2A	LG / ARNU543M3A4	HIGH-STATIC DUCTED	LARGE CONFERENCE	350	1,740	0.5	45.3	35.3	48.6	3/8	5/8	200	1	60	2.5	30	2#12, #12G, 3/4"C	96	B,D
2-2B	LG / ARNU283M2A4	HIGH-STATIC DUCTED	LARGE CONFERENCE	305	845	0.5	23.5	17.4	25.1	3/8	5/8	200	1	60	2.3	30	2#12, #12G, 3/4"C	86	B,D
2-3	LG / ARNU243M1A4	HIGH-STATIC DUCTED	MED CONFERENCE	120	590	0.5	20.3	14.9	21.8	3/8	5/8	200	1	60	0.2	30	2#12, #12G, 3/4"C	56	B,D
2-4A	LG / ARNU543M3A4	HIGH-STATIC DUCTED	PREFUNCTION	-	1,740	0.5	46.1	36.0	48.6	3/8	5/8	200	1	60	2.5	30	2#12, #12G, 3/4"C	96	B,D
2-4B	LG / ARNU483M3A4	HIGH-STATIC DUCTED	PREFUNCTION / STAIR 3	365	1,480	0.5	40.8	30.7	43.3	3/8	5/8	200	1	60	2.5	30	2#12, #12G, 3/4"C	96	B,D
2-5	LG / ARNU183M1A4	HIGH-STATIC DUCTED	RESTROOMS	-	490	0.5	16.1	11.8	17.2	1/4	1/2	200	1	60	0.2	30	2#12, #12G, 3/4"C	56	B,D
2-6	LG / ARNU123M1A4	HIGH-STATIC DUCTED	OFFICE	80	345	0.5	10.4	8.1	11.1	1/4	1/2	200	1	60	0.2	30	2#12, #12G, 3/4"C	56	B,D
2-7	LG / ARNU123TRD4	4-WAY CASSETTE	PANTRY	70	283	-	10.6	7.3	11.1	1/4	1/2	200	1	60	0.2	30	2#12, #12G, 3/4"C	39	B
1-7	LG / ARNU073TUD4	1-WAY CASSETTE	1ST FL WEST CORRIDOR	-	290	-	7.5	5.5	7.6	1/4	1/2	200	1	60	0.2	30	3#12,#12G,3/4"C	43	B
1-8	LG / ARNU073TUD4	1-WAY CASSETTE	1 ST FL EAST CORRIDOR	-	290	-	7.5	5.5	7.6	1/4	1/2	200	1	60	0.2	30	3#12,#12G,3/4"C	43	B
2-8	LG / ARNU123TRD4	4-WAY CASSETTE	2ND FL ELEVATOR LOBBY	-	307	-	12.3	8.9	8.9	1/4	1/2	200	1	60	0.2	30	3#12,#12G,3/4"C	40	B
2-9	LG / ARNU073TUD4	1-WAY CASSETTE	2ND FL WEST CORRIDOR	-	290	-	7.5	5.5	8.5	1/4	1/2	200	1	60	0.2	30	3#12,#12G,3/4"C	43	B
2-10	LG / ARNU073TUD4	1-WAY CASSETTE	2ND FL EAST CORRIDOR	-	290	-	7.5	5.5	8.5	1/4	1/2	200	1	60	0.2	30	3#12,#12G,3/4"C	43	B
2-11	LG / ARNU093CEU4	FLOOR STANDING (UNCASED)	LOUNGE L2	-	336	-	9.6	6.9	10.9			200	1	60	0.8	30	3#12,#12G,3/4"C	46	B
3-1	LG / ARNU073TUD4	1-WAY CASSETTE	3RD FL ELEVATOR LOBBY	-	290	-	7.5	5.5	7.6	1/4	1/2	200	1	60	0.2	30	3#12,#12G,3/4"C	43	B
3-2	LG / ARNU073TUD4	1-WAY CASSETTE	3RD FL WEST CORRIDOR	-	290	-	7.5	5.5	7.6	1/4	1/2	200	1	60	0.2	30	3#12,#12G,3/4"C	43	B
3-3	LG / ARNU073TUD4	1-WAY CASSETTE	3RD FL EAST CORRIDOR	-	290	-	7.5	5.5	7.6	1/4	1/2	200	1	60	0.2	30	3#12,#12G,3/4"C	43	B
3-4	LG / ARNU183CFU4	FLOOR STANDING (UNCASED)	FITNESS	-	565	-	19.1	13.6	21.5			200	1	60	1.0	30	3#12,#12G,3/4"C	59	B

WATER COOLED CONDENSING UNIT

CODE	MANUFACTURER/ MODEL NO.	AHRI EER (SEER)	AHRI COP (HSPF)	WPD (FT)	GPM	COOLING EWT (° F)	COOLING MBH	HEATING EWT (° F)	HEATING MBH	kW	VOLT	PH	HZ	FLA	MCA	MOCP	DISC	FEEDER SIZE	WEIGHT LBS.	REMARKS
WCCU-2	LG / ARWB432DAS4	10.8	3.9	4.7	108	88	440.8	43	470.1		460	3	60	(3) @ 20.6	(3) @ 25.7	(3) @ 45	60	(3) 3#6, #10G, 1"C	(3) @ 309	A,B,C,D,E
WCCU-1	LG / ARWB072DAS4	13.8	5.0	3.7	20.3	88	72.0	43	81.0		460	3	60	13.0	16.2	25	30	3#12, #12G, 3/4"C	265	A,B,C,D

(WCCU-2 serves AHU units 1-1 through 2-7; WCCU-1 serves units 1-7 through 3-3.)

GENERAL NOTES
1. COOLING SEASON: EWT= 88°F, ?T = 10°
   HEATING SEASON: EWT= 43°F, ?T = 6°
2. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER NEMA STANDARD MG1-2003, TABLES 12-12 AND 12-13.
3. CONTRACTOR TO MAINTAIN ALL MANUFACTURE SERVICE AND PERFORMANCE CLEARANCES. COORDINATE WITH ALL TRADES.
4. REFRIGERANT: R-410A
5. WARRANTY: 2 YEAR PARTS, 5 YEAR COMPRESSOR
6. PROVIDE A REMOTE BMS CONNECTION. BMS SHALL MONITOR ALL POINTS. PROVIDE INTEGRATION CARD AS REQUIRED TO INTERFACE WITH BMS SYSTEM.
7. CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL MECHANICAL, ELECTRICAL, RIGGING, OR PHYSICAL ALTERATION COST RESUSCITATED BY THE PRODUCT, EVEN WITH ENGINEER APPROVAL. COST SAVINGS FOR THE SUBSITUTE PRODUCT SHALL BE PROVIDED TO THE ENGINEER.
8. CHECK, TEST AND STARTUP SUPERVISION WITH INSTALLING CONTRACTOR AND MANUFACTURE TECHNICIAN. SUBMIT STARTUP LOGS TO ENGINEER FOR RECORD.
9. PROVIDE ISOLATION VALVES THROUGOUT SYSTEM TO ASSIST IN FUTURE EVACUATION / CHARGING. COORDINATE LOCATIONS WITH DESIGN TEAM. PROVIDE FLEX CONNECTIONS AT CONDENSING UNIT.

AIR HANDLING UNIT REMARK NOTES
A. PROVIDE CONDENSATE PUMP IN DRAIN PAN, SIMILAR TO LITTLE GIANT-VCC20, 10' HEAD, 45 GPH, 115V, 1/30HP, WITH OVERFLOW SWITCH.
B. PROVIDE EMERGENCY POWER TO THE UNIT.
C. PROVIDE CONDENSATE PUMP. POWER FROM NEAREST 120V RECEPTACLE CIRCUIT.
D. PROVIDE FIRE ALARM RELAY FOR FAN SHUTDOWN UPON ACTIVATION OF AREA AND/OR RETURN PLENUM SMOKE DETECTORS.

CONDENSING UNIT REMARK NOTES
A. PROVIDE EMERGENCY POWER TO THE UNIT.
B. PROVIDE HOT GAS BYPASS SYSTEM TO ALLOW FOR MODULATION OF THE UNIT'S COOLING CAPACITY.
C. MANUFACTURER TO PROVIDE STAINLESS STEEL 3-FT HOSE KITS INCLUDING ISOLATION VALVES, "Y" STRAINER, AND P/T PORT.
   CONTRACTOR TO PROVIDE HAYS MEASUREFLOW PRESSURE INDEPENDENT BALANCING VALVE AND 2-WAY CONTROL VALVE.
D. PROVIDE VARIABLE FLOW WATER FLOW CONTROL KIT AT EACH INDIVIDUAL CONDENSER.
E. CONDENSING UNIT IS COMPRISED OF (3) INDIVIDUAL UNITS MANIFOLDED TOGETHER. INDIVIDUAL CONNECTIONS TO EACH UNIT ARE REQUIRED FOR POWER, CONTROLS, REFRIGERANT PIPE, CONDENSER WATER, CONDENSATE DRAIN, ETC.

PUMP SCHEDULE

CODE	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	PUMP TYPE	GPM	DRIVE	RPM	HEAD (FT)	MIN. DESIGN PRESS. (PSI)	FLUID TEMP. RANGE (F	IMPELLER SIZE (IN.)	MIN. EFF. %	CONTROLS	BHP	HP	VOLT	PH	HZ	FLA	DISC	FEEDER SIZE	REMARKS
CWP-1	BELL & GOSSETT / E-80ITSC 3X3X11B	CONDENSER WATER	141 - WATER SERVICE RM	SPLIT-COUPLED VERTICAL IN-LINE	205	VFD	1750	85	125	35 - 100	10.125	64.6	I	6.8	10	460	3	60	14	30	3#12, #12G, 3/4"C	A,B,C,D,E
CWP-2	BELL & GOSSETT / E-80ITSC 3X3X11B	CONDENSER WATER	141 - WATER SERVICE RM	SPLIT-COUPLED VERTICAL IN-LINE	205	VFD	1750	85	125	35 - 100	10.125	64.6	I	6.8	10	460	3	60	14	30	3#12, #12G, 3/4"C	A,B,D,E
CWP-3	BELL & GOSSETT / E-80ITSC 3X3X11B	CONDENSER WATER	141 - WATER SERVICE RM	SPLIT-COUPLED VERTICAL IN-LINE	205	VFD	1750	85	125	35 - 100	10.125	64.6	I	6.8	10	460	3	60	14	30	3#12, #12G, 3/4"C	A,B,D,E
GWP-1	BELL & GOSSETT / E-80ITSC 2.5X2.5X9.5C	GROUND SOURCE WATER	141 - WATER SERVICE RM	SPLIT-COUPLED VERTICAL IN-LINE	158	VFD	1750	65	125	35 - 100	8.625	64.2	II	4.3	7.5	460	3	60	11	30	3#12, #12G, 3/4"C	A,B,C,D,F
GWP-2	BELL & GOSSETT / E-80ITSC 2.5X2.5X9.5C	GROUND SOURCE WATER	141 - WATER SERVICE RM	SPLIT-COUPLED VERTICAL IN-LINE	158	VFD	1750	65	125	35 - 100	8.625	64.2	II	4.3	7.5	460	3	60	11	30	3#12, #12G, 3/4"C	A,B,D,F
GWP-3	BELL & GOSSETT / E-80ITSC 2.5X2.5X9.5C	GROUND SOURCE WATER	141 - WATER SERVICE RM	SPLIT-COUPLED VERTICAL IN-LINE	158	VFD	1750	65	125	35 - 100	8.625	64.2	II	4.3	7.5	460	3	60	11	30	3#12, #12G, 3/4"C	A,B,D,F
SCP-1	ARMSTRONG / ASTRO 280	SOLAR COLLECTOR CIRCULATION	164 - MECHANICAL	IN-LINE	9	ECM		30	-	65-180	-	-	III	-	0.21 kW	115	1	60	2	STO	3#12,#12G,3/4"C	G

GENERAL NOTES
1. PROVIDE MAGNETIC STARTER WITH AUXILIARY CONTACTS AND HOA SWITCH ON ALL THREE PHASE MOTORS WHERE VARIABLE FREQUENCY DRIVES ARE NOT SPECIFIED.
2. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER NEMA STANDARD MG1-2003, TABLES 12-12 AND 12-13.
3. FOR PARALLEL PUMP APPLICATIONS MANUFACTURER SHALL REVIEW SINGLE PUMP OPERATON SUCH THAT PUMP CAN OPERATE
   AND NOT EXCEED THE END OPERATION POINT ON THE PUMP CURVE AND MOTOR HP IS PROPERLY SELECTED TO PREVENT OVERLOADING.
4. NPSHR AT SCHEDULED OPERATING POINT SHALL NOT EXCEED 0.8*NPSHA.
5. REFER TO DRAWINGS TO DETERMINE REQUIRED PUMP ROTATION. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING.
6. PUMP HOUSING SHALL BE COMPLETELY INSULATED.
7. ALL PUMP COMPONENTS IN CONTACT WITH THE FLUID SHALL BE COMPATIBLE WITH GLYCOL. ADJUST STANDARD CATALOG PERFORMANCE TO ACCOUNT FOR USE OF GLYCOL.

REMARK NOTES
A. 50% CAPACITY (PARALLEL + STANDBY). PROVIDE AUTOMATIC CHANGEOVER OF LEAD PUMP DESIGNATION BASED ON RUNTIME.
B. PUMP SHALL BE PROVIDED WITH MOTOR MOUNTED VFD.
C. PUMP SHALL BE PROVIDED WITH MOTOR MOUNTED VFD & PARALLEL PUMP CONTROLLER.
D. PUMP SHALL BE ON EMERGENCY POWER.
E. FLUID CONTAINS 30% PROPYLENE GLYCOL.
F. FLUID CONTAINS 25% PROPYLENE GLYCOL.
G. FLUID CONTAINS 50% PROPYLENE GLYCOL. PUMP IS PART OF THE SOLAR THERMAL SYSTEM. ALL SOLAR THERMAL EQUIPMENT SHALL BE COORDINATED PRIOR TO PURCHASING.

CONTROL NOTES
I. MAINTAIN PRESSURE MEASURED AT DIFFERENTIAL PRESSURE SENSOR.
II. MAINTAIN TEMPERATURE MEASURED AT GWR TEMPERATURE SENSOR.
III. INTERLOCK PUMP WITH SOLAR THERMAL CONTROL SYSTEM.

PLATE-FRAME HEAT EXCHANGER SCHEDULE

CODE (HX)	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	OPERATION	MBH	HOT SIDE FLUID	HOT SIDE GPM	HOT SIDE EWT (F)	HOT SIDE LWT (F)	HOT SIDE WPD (FT)	COLD SIDE FLUID	COLD SIDE GPM	COLD SIDE EWT (F)	COLD SIDE LWT (F)	COLD SIDE WPD (FT)	MINIMUM DESIGN PRESSURE	NO. OF PLATES	REMARKS
HX-1	KELVION / NA04X CYF-150	CONDENSER WATER	141 - MECHANICAL	COOLING	1095	30% PROP. GLYCOL (BUILDING LOOP)	229	98	88	7.2	25% PROP. GLYCOL (GROUND LOOP)	229	85	95	7.2	150 PSI	144	B,C
				HEATING	653	25% PROP. GLYCOL (GROUND LOOP)	229	45	39	5.4	30% PROP. GLYCOL (BUILDING LOOP)	229	37	43	5.4			
HX-2	KELVION / NA04X CYF-150	CONDENSER WATER	141 - MECHANICAL	COOLING	1095	30% PROP. GLYCOL (BUILDING LOOP)	229	98	88	7.2	25% PROP. GLYCOL (GROUND LOOP)	229	85	95	7.2	150 PSI	144	B,C
				HEATING	653	25% PROP. GLYCOL (GROUND LOOP)	229	45	39	5.4	30% PROP. GLYCOL (BUILDING LOOP)	229	37	43	5.4			
HX-3	LINE DW / LA14DW	DOMESTIC HOT WATER	STORAGE - INSTITUE	-	-	50% PROP. GLYCOL	8	180	65	-	DOMESTIC WATER	10	55	140	-	-	-	A,D

GENERAL NOTES
1. HEAT EXCHANGERS SHALL BE PROVIDED WITH REMOVABLE INSULATED ENCLOSURE PANELS SUPPLIED BY THE MANUFACTURER TO MEET OSHA REQUIREMENTS. NAMEPLATE SHALL REMAIN VISIBLE WITH INSULATION.
2. REFER TO CONTROLS DIAGRAMS AND SEQUENCES FOR ADDITIONAL REQUIREMENTS.

REMARK NOTES
A. DOUBLE WALL BRAZED PLATE.
B. MOUNT ON 4" HOUSEKEEPING PAD.
C. PROVIDE STAINLESS STEEL DRAIN PAN.
D. HEAT EXCHANGER IS A PART OF THE SOLAR THERMAL SYSTEM. ALL SOLAR THERMAL EQUIPMENT SHALL BE COORDINATED PRIOR TO PURCHASING.

EXPANSION TANK SCHEDULE

CODE (ET)	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	OPERATING WEIGHT LBS.	DESIGN PARAMETERS SYSTEM VOLUME (GAL)	DESIGN PARAMETERS MIN. TEMP (F)	DESIGN PARAMETERS MAX TEMP (F)	OPERATING PARAMETERS RELIEF VALVE SETTING (PSIG)	OPERATING PARAMETERS CW MU PRV REQ'T (PSIG)	PRECHARGE (PSIG)	TANK CONFIG	TYPE	MIN. ACCEPT. (GAL)	PHYSICAL SIZE DIA. X LEN	REMARKS
1	AMTROL / AX-240V	GROUND LOOP	141 - MECH RM	787	7200	35	100	125		12	VERTICAL	BLADDER	46	30 X 58	
2	AMTROL / AX-60V	CONDENSER WATER	141 - MECH RM	383	1900	35	100	125		12	VERTICAL	BLADDER	11.3	16 X 45	

GENERAL NOTES
1. LOCATE MAKE UP WATER CONNECTION AT EXPANSION TANK CONNECTION TO HYDRONIC SYSTEM.
2. PROVIDE 4" HOUSEKEEPING PAD BELOW UNIT.
3. TANK AND APPURTENANCES SHALL BE COMPATIBLE WITH PROPYLENE GLYCOL.

GLYCOL MIXING UNIT

CODE	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	TANK CAPACITY GAL	COLD FILL PRESSURE PSI	MAX PRESSURE PSI	GPM	HP	VOLT	PH	HZ	FLA	DISC	FEEDER SIZE	REMARKS
GMU-1	BELL & GOSSETT / GMU-60	CONDENSER WATER (BUILDING LOOP)	141 - MECHANICAL	55	0-60	150	5	3/4	120	1	60	14	STO	2#12,#12G,3/4"C	
GMU-2	BELL & GOSSETT / GMU-60	GEOTHERMAL WATER (GROUND LOOP)	141 - MECHANICAL	55	0-60	150	5	3/4	120	1	60	14	STO	2#12,#12G,3/4"C	

GENERAL NOTES
1. MOUNT UNIT ON 4" HOUSEKEEPING PAD
2. PROVIDE CONTROL CIRCUIT VOLTAGE OF 24V

REMARK NOTES
A. WATER CONTAINS 25% PROPYLENE GLYCOL
B. WATER CONTAINS 30% PROPYLENE GLYCOL

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UNIT HEATER SCHEDULE (ELECTRIC)

CODE (EUH)	MANUFACTURER/ MODEL NO.	LOCATION	DISCHARGE DIRECTION	CAPACITY (kW)	EAT (°F)	LAT (°F)	ELECTRICAL CFM	VOLT	PH	HZ	FLA	DISC	FEEDER SIZE	REMARKS
EUH-A	TRANE / UHEC-03	SEE PLANS	HORIZONTAL	3.3	50	76	400	480	3	60	4	30	3#12,#12G,3/4"C	
EUH-B	TRANE / UHEC-05	SEE PLANS	HORIZONTAL	5	50	89	400	480	3	60	6.1	30	3#12,#12G,3/4"C	
EUH-C	TRANE / UHEC-07	SEE PLANS	HORIZONTAL	7.5	50	84	700	480	3	60	9.1	30	3#12,#12G,3/4"C	

GENERAL NOTES
1. PROVIDE WALL MOUNTED THERMOSTAT.
2. PROVIDE 24V DC CONTROL TRANSFORMER. COORDINATE WITH CONTROL CONTRACTOR.
3. UNIT SHALL BE ON EMERGENCY POWER.

CABINET HEATER SCHEDULE (ELECTRIC)

CODE (CUH)	MANUFACTURER/ MODEL NO.	LOCATION	ORIENTATION	CAPACITY (kW)	STAGES	EAT (°F)	LAT (°F)	CFM	ELECTRICAL kW	VOLT	HZ	PH	FLA	DISC	FEEDER SIZE	REMARKS
A	TRANE / FFB-020	SEE PLANS	VERTICAL CABINET	3.0	2	50	101	200	3.0	480	60	3	3.6	30	3#12,#12G,3/4"C	A
B	TRANE / FFB-030	SEE PLANS	VERTICAL CABINET	6.0	2	50	118	300	6.0	480	60	3	7.2	30	3#12,#12G,3/4"C	A
C	TRANE / FFE-020	SEE PLANS	HORIZONTAL RECESSED	3.0	2	50	96	222	3.0	480	60	3	3.6	30	3#12,#12G,3/4"C	B,C

GENERAL NOTES
1. PROVIDE 24 VDC CONTROL TRANSFORMER. COORDINATE WITH CONTROL CONTRACTOR.
2. PROVIDE DDC CONTROLS.
3. UNITS SHALL BE ON EMERGENCY POWER.
4. COORDINATE CABINET / PANEL FINISH WITH ARCHITECT.

REMARK NOTES
A. UNIT CONTROLLED BY UNIT MOUNTED TEMPERATURE SENSOR/CONTROLLER.
B. PROVIDE BOTTOM STAMPED LOUVER OUTLET AND BOTTOM STAMPED RETURN INLET.
C. PROVIDE TERMINAL INTERFACE FOR CONNECTION TO FIELD-SUPPLIED TEMPERATURE SENSOR.

ELECTRIC TRENCH HEATER SCHEDULE

CODE (ETH)	MANUFACTURER/ MODEL NO.	LOCATION	CAPACITY AT MAX SPEED (MBH)	DIMENSIONS (IN) L	W	D	ELECTRICAL kW	VOLT	PH	HZ	FLA	DISC	FEEDER SIZE	REMARKS
A	KAMPMANN / KATHERM QE-UL	SEE PLANS	2.25	32.5	8.1	5	0.73	208	1	60	3.5	30	2#12G,#12G,3/4"C	

GENERAL NOTES:
1. PROVIDE ALUMINUM ROLL-UP GRILLE. GRILLE SHALL BE CONTINUOUS ACROSS ADJACENT SECTIONS. REFER TO ARCHITECTURAL PLANS FOR OVERALL GRILLE LENGTH. STYLE / FINISH SHALL BE APPROVED BY ARCHITECT.
2. HEATER SHALL BE INSTALLED SUCH THAT FINNED CONVECTOR IS LOCATED ON THE WINDOW SIDE AND FAN IS LOCATED ON THE ROOM SIDE.
3. FAN MOTOR SHALL BE ELECTRONICALLY COMMUTATED (ECM).

SOLAR COLLECTOR SCHEDULE

CODE	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	QTY. OF COLLECTORS	TOTAL SOLAR COLLECTOR AREA (SQ. FT)	LENGTH (IN)	WIDTH (IN)	TILT ANGLE DEGREE	ORIENTATION DEGREE	TOTAL ANNUAL YIELD (KBTU)	TOTAL GPM	REMARKS
SC-1	SUNEARTH /TRB-32	SOLAR THERMAL	ROOF- INSTITUTE	9	295.5	463	99	44	-30	81,587	9	

GENERAL NOTES
1. FLUID CONTAINS 50% PROPYLENE GLYCOL. ALL COMPONENTS IN CONTACT WITH FLUID SHALL BE COMPATIBLE.
2. MAIN SYSTEM COMPONENTS INCLUDE; BRAZED PLATE HEAT EXCHANGER, SOLAR CIRCULATION PUMP AND DRAINBACK TANK. REFER TO DETAILS, SPECIFICATIONS, AND SCHEDULES FOR ADDITIONAL COMPONENTS REQUIRED IN SOLAR THERMAL SYSTEM
3. COLLECTOR IS PART OF THE SOLAR THERMAL SYSTEM. ALL SOLAR THERMAL EQUIPMENT SHALL BE COORDINATED PRIOR TO PURCHASING.

DRAIN BACK TANK SCHEDULE

CODE	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	OPERATING WEIGHT LBS.	CAPACITY (GAL)	PHYSICAL SIZE DIA. X LEN	REMARKS
DBT-1	HTP / SSU-30DB	SOLAR THERMAL	STORAGE	299	30	19.25" X 39.5"	A

GENERAL NOTES
1. TANK SHALL BE CONSTRUCTED OF 316L STAINLESS STEEL AND SHALL INCLUDE INTEGRAL SIGHTGLASS.
2. TANK IS PART OF THE SOLAR THERMAL SYSTEM. ALL SOLAR THERMAL EQUIPMENT SHALL BE COORDINATED PRIOR TO PURCHASING.

REMARKS
A. TANK AND APPURTENANCES SHALL BE COMPATIBLE WITH PROPYLENE GLYCOL.

ELECTRIC BASEBOARD HEATER SCHEDULE

CODE (EBB)	MANUFACTURER/ MODEL NO.	TYPE	LOCATION	CAPACITY W / FT	ELECTRICAL VOLT	PH	HZ	DISC	FEEDER SIZE	REMARKS
A	VULCAN / SBT-PD	PEDESTAL DRAFT BARRIER	SEE PLANS	150	277	1	60	30	2#12,#12G, 3/4"C	
B	VULCAN / SBT-PD	PEDESTAL DRAFT BARRIER	SEE PLANS	200	277	1	60	30	2#12,#12G, 3/4"C	

GENERAL NOTES:
1. ENCLOSURE COLOR BY ARCHITECT.
2. PROVIDE CONTINUOUS ENCLOSURE UNLESS OTHERWISE NOTED.
3. PROVIDE UNIT MOUNTED THERMOSTAT AT ONE UNIT PER EXTERIOR FACE PER ROOM. ALL OTHER UNITS ALONG SAME WALL SHALL BE CONTROLLED FROM THERMOSTAT. REFER TO M-900 DRAWINGS FOR ADDITIONAL CONTROLS SCOPE.

REMARK NOTES:
A. INTERLOOK CONTROL WITH VRF AC UNIT SERVING SAME ZONE.

COIL SCHEDULE (ELECTRIC)

CODE (EC)	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	CONTROL	AIRSIDE EAT (F)	LAT (F)	CFM	MIN. VELOCITY	kW	APD (IN)	L (IN)	W (IN)	ELECTRICAL kW	VOLT	PH	HZ	FLA	DISC	FEEDER SIZE	REMARKS
1	INDEECO / TFZU	DRYER MAKEUP AIR	INN - PENTHOUSE	SCR, 0-10V	6	50	1600	525	22	0.1	22	14	22	480	3	60	26.5	60	3#8, #10G, 3/4"C	

GENERAL NOTES
1. PROVIDE NEMA 1 CONTROL ENCLOSURE. CONTRACTOR TO VERIFY TERMINAL BOX OVERHANG CONFIGURATION AND AIRFLOW DIRECTION.
2. CONTRACTOR TO FIELD VERIFY AIRFLOW DIRECTION AND CONTROLS MOUNTING.
3. COILS SHALL BE FINNED TUBULAR WITH 80% NICKEL, 20% CHROMIUM HEATING ELEMENTS.
4. HEATER IS FLANGED, PROVIDE SQUARE TO ROUND TRANSITIONS FOR ANY CONNECTION TO ROUND DUCT.
5. COIL SHALL BE INSTALLED MINIMUM 4 FEET AWAY FROM ANY DUCTWORK TRANSITIONS, EQUIPMENT, OR OUTLET.
6. PROVIDE MAGNETIC DE-ENERGIZING CONTACTORS.
7. PROVIDE MANUAL THERMAL CUTOUT, AUTOMATIC THERMAL CUTOUT.
8. PROVIDE INTEGRAL DIFFERENTIAL PRESSURE AIRFLOW SWITCH TO DE-ENERGIZE THE HEATER CONTROL CIRCUIT UPON LOSS OF AIRFLOW.
9. PROVIDE FUSES TO PROTECT EACH CIRCUIT IN ANY HEATER DRAWING MORE THAN 48 AMPS.
10. PROVIDE CONTROL CIRCUIT TRANSFORMER, WITH 24 VOLT SECONDARY AS SPECIFIED, INCLUDING ANY OVERCURRENT PROTECTION REQUIRED BY UL / NEC.
11. PROVIDE INTEGRAL, DOOR INTERLOCKED DISCONNECT SWITCH TO PROTECT SERVICE PERSONNEL.
12. STATIC PRESSURE DROP SHALL NOT EXCEED THE VALUES LISTED IN THE SCHEDULE AT THE AIRFLOW INDICATED.
13. CONTRACTOR SHALL INSTALL DUCT AS REQUIRED MAINTAIN UNIFORM AIRFLOW AS RECOMMENDED BY MANUFACTURER AND UL LISTING REQUIREMENTS.
14. CONTRACTOR SHALL MAINTAIN MINIMUM CLEARANCES REQUIRED BY THE MANUFACTURER AND THE NATIONAL ELECTRIC CODE (NEC).
15. INSTALL SHEET METAL DUCT LINER ON INSIDE OF INTERNAL DUCT INSULATION. DUCT LINER SHALL EXTEND MINIMUM 6" BEYOND HEATER TERMINAL BOX ON BOTH SIDES.

HYDRONIC BOILERS SCHEDULE (ELECTRIC)

CODE (B)	MANUFACTURER/ MODEL NO.	LOCATION	ELEMENTS kW	MBH	QTY	STEPS@KW	STORAGE (GAL)	EWT (F)	LWT (F)	GPM	WEIGHT (LBS)	DIMENSIONS (IN) WIDTH	DEPTH	HEIGHT	ELECTRICAL VOLT	PH	HZ	MOCP	DISC	FEEDER SIZE	REMARKS
1	LOCHINVAR / BWX2-165C	141 - MECHANICAL	165	563	11	1@45, 4@30	36	37	47	120	800	28	34	52	480	3	60	250	400	3#250, #4G, 2-1/2"C	

GENERAL NOTES
1. WATER CONTAINS 30% PROPYLENE GLYCOL.
2. PROVIDE RELIEF VALVE PER SPECIFICATIONS.
3. UNIT SHALL BE MOUNTED ON A 4" HOUSEKEEPING PAD.
4. PROVIDE 120V FUSED CONTROL TRANSFORMER.
5. UNIT SHALL BE UL LISTED.
6. PRESSURE VESSEL SHALL BE ASME CERTIFIED.
7. PROVIDE ADJUSTABLE HIGH LIMIT SWITCH WITH MANUAL RESET.
8. PROVIDE PROPORTIONAL PROGRESSIVE SEQUENCE STEP CONTROL.
9. BMS SHALL BE CAPABLE OF CONTROLLING SETPOINTS, STEP CONTROLS, AND ALARMS. PROVIDE ALL REQUIRED MODBUS/BACNET CARDS
10. PROVIDE POWER AND ENERGY METERING TO BOILER. BMS SHALL BE CAPABLE OF TRENDING METERING DATA.
11. PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT SWITCH.
12. PROVIDE FACTORY MOUNTED FLOW SWITCH AT INLET PIPE CONNECTION.
13. PROVIDE AUXILIARY LOW WATER CUTOFF SWITCH.
14. BOILER SHALL BE PROVIDE A MINIMUM OF A 40,000 SCCR RATING.

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PLUMBING FIXTURE SCHEDULE

CODE	FIXTURE	MANUFACTURER / MODEL NO.	FAUCET/FLUSH VALVE	CW CONN.	HW CONN.	SAN CONN.	IW CONN.	VENT CONN.	ST CONN.	ACCESSORIES / COMMENTS
WC-1	WATER CLOSET FLOOR MOUNTED	KOHLER / K-5310-0 "CIMARRON"	FLUSH TANK INCLUDED 1.28 GPF	1"	-	4"	-	2"	-	SEAT: KOHLER / K-4008-0 ANGLE SUPPLY W/ STOP: KOHLER / K-7637 TRIP LEVER: KOHLER / K-9466-X-2BZ
WC-2	WATER CLOSET WALL MOUNTED	TOTO / CT708UVG	TOTO / TET3LA31#SS 1.28 GPF	1"	-	4"		2"		SEAT: TOTO / SC534 SEE SPECIFICATIONS FOR ACCESSORIES
LAV-1	LAVATORY UNDERMOUNTED	KOHLER / K-2882 "VERTICYL"	WATERMARK DESIGNS / 23-2.17-L8 1.2 GPM W/ MPU5PL DRAIN, MPT1 P-TRAP	1/2"	1/2"	1-1/2"	-	1-1/2"	-	TMV
LAV-2	LAVATORY UNDERMOUNTED	KOHLER/ K-5400 "IRON PLAINS"	SPLASH LAB / TSL.R.020 (HARDWIRE) 0.50 GPM	1/2"	1/2"	1-1/2"	-	1-1/2"	-	TMV
LAV-3	LAVATORY WALL MOUNTED	AMERICAN STANDARD / 355.012 "LUCERNE"	TOTO / TEL103 ECOPOWER 0.35 GPM	1/2"	1/2"	1-1/2"	-	1-1/2"	-	TMV
DF-1	SINGLE BOWL DRINKING FOUNTAIN W/ BOTTLE FILL STATION	ELKAY / LZWS - EDFPBM114K	N/A	1/2"	-	1-1/2"	-	1-1/2"	-	SEE SPECIFICATIONS FOR ACCESSORIES
DF-2	DOUBLE BOWL DRINKING FOUNTAIN W/ BOTTLE FILL STATION	ELKAY / LZWS-EDFPBM117K	N/A	1/2"	-	1-1/2"	-	1-1/2"	-	SEE SPECIFICATIONS FOR ACCESSORIES
BF	BOTTLE FILL STATION	ELKAY / LZWSMDK	N/A	1/2"	-	1-1/2"	-	1-1/2"	-	SEE SPECIFICATIONS FOR ACCESSORIES
SH-1	SHOWER	WATERMARK DESIGNS / 23-HAF	N/A	1/2"	1/2"	2"	-	2"	-	PRESSURE BALANCE TRIM: WATERMARK DESIGNS / 23-P80-L9 PRESSURE BALANCE VALVE: WATERMARK DESIGNS / SS-PB75 DRAIN: WATERMARK DESIGNS / LDRK DRAIN PLATE: WATERMARK DESIGNS / LD6-XX
SH-2	SHOWER ADA	WATERMARK DESIGNS / 23-HAF	WATERMARK DESIGNS / 23-HSHK3 (2.0 GPM)	1/2"	1/2"	2"	-	2"	-	PRESSURE BALANCE TRIM: WATERMARK DESIGNS / 23-P80-L8 PRESSURE BALANCE VALVE: WATERMARK DESIGNS / SS-PB75 DRAIN: WATERMARK DESIGNS / LDRK DRAIN PLATE: WATERMARK DESIGNS / LD6-XX DIVERTER VALVE: WATERMARK DESIGNS / SS-WD2 DIVERTER VALVE TRIM KIT: WATERMARK DESIGNS / 23-WTR-L8
BATH-1	BATH TUB ADA	WET STYLE / BC 14XX-#MA	WATERMARK DESIGNS / 23-WBS WATERMARK DESIGNS / 23-HSHK3 (2.0 GPM)	1/2"	1/2"	3"	-	2"	-	PRESSURE BALANCE TRIM: WATERMARK DESIGNS / 23-P80-L8 PRESSURE BALANCE VALVE: WATERMARK DESIGNS / SS-PB75 DIVERTER VALVE TRIM KIT: WATERMARK DESIGNS / 23-WTR-L8
BATH-2	BATH TUB FREE STANDING	WET STYLE / BLB 01XX-#MA	WATERMARK DESIGNS / 23-8.26.3-L8	1/2"	1/2"	3"	-	2"	-	
SK-1	SINK	ELKAY / LRAD222255	SPEAKMAN / SC-3004-LD-E 0.5 GPM	1/2"	1/2"	1-1/2"	-	1-1/2"	-	TMV
SK-2	SINK	KOHLER / K-3894-4-NA	KOHLER / K-7505 1.5 GPM	1/2"	1/2"	1-1/2"	-	1-1/2"	-	TMV DRAIN: KOHLER / K-8801 "DUOSTRAINER"
JSK-1	JANITOR'S SINK	FIAT / MSB-2424100 "MODESTO"	FIAT / 830AA	1/2"	1/2"	3"	-	2"	-	VB
JSK-2	JANITOR'S SINK LAUNDRY TUB	FIAT / L-1 "SERV-A-SINK"	FIAT / A1000	1/2"	1/2"	2"	-	1-1/2"	-	VB
EYE	EMERGENCY EYE WASH STATION	SPEAKMAN / SE-582	AS PROVIDED WITH FIXTURE 3.2 GPM	1/2"	1/2"	1-1/2"	-	1-1/2"	-	TMV
FD-A	FLOOR DRAIN	ZURN / Z-505	N/A	-	-	SEE PLANS	-	2"	-	TP
FD-B	FLOOR DRAIN	ZURN / ZN-415-B	N/A	-	-	SEE PLANS	-	2"	-	TP
FD-C	FLOOR DRAIN	ZURN / Z-520	N/A	-	-	SEE PLANS	-	2"	-	TP
FS	FLOOR SINK	ZURN / Z-1900-4	N/A	-	-	SEE PLANS	-	2"	-	
TD-1	TRENCH DRAIN, 12" WIDE	ZURN / Z882	N/A	-	-	SEE PLANS	-	2"	-	TP
TD-2	TRENCH DRAIN, 6" WIDE	ZURN / Z886	N/A	-	-	SEE PLANS	-	2"	-	TP
HB	HOSE BIBB	ZURN / Z1333XL	N/A	3/4"	-	-	-	-	-	
WH	WALL HYDRANT	ZURN / Z1330XL	N/A	3/4"	-	-	-	-	-	
FPWH	FREEZE PROOF WALL HYDRANT	ZURN / Z1320XL	N/A	3/4"	-	-	-	-	-	
FPRH	FREEZE PROOF ROOF HYDRANT	ZURN / Z1388XL	N/A	3/4"	-	-	-	-	-	VB
AD	AREA DRAIN	ZURN / Z-550	N/A	-	-	-	-	-	SEE PLANS	
RD-A	ROOF DRAIN	ZURN / Z-100-ERC	N/A	-	-	-	-	-	SEE PLANS	
RD-B	GUTTER DRAIN	ZURN/ Z180 CORNICE DRAIN	N/A	-	-	-	-	-	2"	
RD-C	CANOPY DRAIN	ZURN/ Z180 CORNICE DRAIN	N/A	-	-	-	-	-	2"	
OD-A	OVERFLOW ROOF DRAIN	ZURN / Z-100-ERC-W4	N/A	-	-	-	-	-	SEE PLANS	

GENERAL NOTES
1. PLUMBING DESIGN AND SIZES ARE BASED ON THE 2015 NYS PLUMBING CODE.
2. ALL EXPOSED PIPING SERVING PLUMBING FIXTURES THAT MAY BE USED FOR ADA PURPOSES SHALL TRAPS AND SUPPLIES INSULATED PER ADA REQUIREMENTS.
3. FINISH AND TYPE OF ALL FIXTURES AND FAUCETS ARE SUBJECT TO ARCHITECT APPROVAL. REFER TO ARCHITECTURAL SCHEDULE.
4. EACH PLUMBING FIXTURE SHALL BE PROVIDED WITH A P-TRAP, EXCEPT THOSE WITH INTEGRAL TRAPS.
5. EXTEND INDIRECT WASTE FULL SIZE TO NEAREST FLOOR DRAIN OR FLOOR SINK, UNLESS OTHERWISE NOTED ON PLANS.
6. FAUCET SHALL BE LEAD FREE AS PER COMPLIANCE WITH NSF 61.
7. EXTEND DOMESTIC HOT WATER RECIRCULATION LINE AS REQUIRED TO ALLOW FOR HOT WATER TO BE RECIRCULATED WITHIN 24" OF LAVATORY VALVE STOPS.

ACCESSORY CODES
TP = TRAP PRIMER
VB = VACUUM BREAKER
FLTR = FILTER
TMV = POINT-OF-USE THERMOSTATIC MIXING VALVE, ASSE 1070 COMPLIANT

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150 West 28th St, Suite 1802, New York, NY 10001 |

MEP
SCHEDULES V
SCALE: AS INDICATED

E0.54

FOOD SERVICE SCHEDULES

CODE	EQUIPMENT	QTY	WASTE: INDIRECT SIZE	WASTE: DIRECT SIZE	WASTE: FS REQ	WASTE: VENT SIZE	WATER: CW SIZE	WATER: FW (FILTERED CW) SIZE	WATER: HW SIZE	ACCESSORIES / COMMENTS
01	HAND SINK, WALL MOUNT	4	-	1-1/2"	-	1-1/2"	1/2"	-	1/2"	TMV
06	WATER FILTER ASSEMBLY	1	-	-	-	-	3/4"	-		VB, INTERCONNECT TO ITEMS 07, 09, 11 (KITCHEN)
07	COFFEE BREWER, DOUBLE	2	-	-	-	-	-	1/2"	-	VB
08	DROP IN SODA / ICE DISPENSER	2	3/4"	-	YES	-	-	-	-	
09	ICED TEA BREWER	2	-	-	-	-	-	1/2"	-	VB
11	ESPRESSO MACHINE	1	5/8"	-	YES	-	-	1/2"	-	VB
14	DROP-IN SINK, SINGLE	1	1-1/2"	-	YES	-	1/2"	-	1/2"	
22	DROP-IN SINK, DOUBLE	1	(2) 1-1/2"	-	YES	-	1/2"	-	1/2"	
25	ICE BIN	1	3/4"	-	YES	-	-	-	-	
26	ICE MAKER, MODULAR CRESCENT CUBER	1	3/4"	-	YES	-	-	1/2"	-	RPZ
27	FLOOR TROUGH	1	-	4"	-	2"	-	-	-	
28	FLOOR TROUGH	1	-	4"	-	2"	-	-	-	
29	ICE STORAGE BIN	1	3/4"	-	YES	-	-	-	-	
30	ICE MAKER, MODULAR SLIM-LINE	1	3/4"	-	YES	-	-	1/2"	-	RPZ
31	WATER FILTER ASSEMBLY	1	-	-	-	-	1/2"	-	-	VB, INTERCONNECT TO ITEM 30
32	WATER FILTER ASSEMBLY	1	-	-	-	-	1/2"	-	-	VB, INTERCONNECT TO ITEM 26
33	MOP SINK CABINET	1	-	2"	-	2"	-	-	-	
34	SERVICE SINK FAUCET	1	-	-	-	-	1/2"	-	1/2"	VB
42	FLOOR TROUGH	1	-	4"	-	2"	-	-	-	
43	TILTING KETTLE, ELECTRIC	1	-	-	-	-	3/8"	-	1/2"	VB
45	ELECTRICAL COMBI-STEAMER	1	2"	-	YES	-	-	3/4"	-	VB
46	WATER FILTER ASSEMBLY	1	-	-	-	-	3/4"	-	-	VB, INTERCONNECT TO ITEMS 45, 47
47	PASTA COOKER, ELECTRIC	1	(2) 1"	-	YES	-	-	(2) 3/4"	-	VB
55	HAND SINK, WELDED	1	-	1-1/2"	-	1-1/2"	-	-	-	
55A	DECK MOUNT MIXING FAUCET	1	-	-	-	-	1/2"	-	1/2"	TMV
57	DROP-IN SINK, SINGLE	1	1-1/2"	-	YES	-	1/2"	-	1/2"	TMV
67	HAND SINK	1		1-1/2"		1-1/2"	1/2"	-	1/2"	
69	THREE COMPARTMENT SINK	1	(3) 1-1/2"	-	YES	-	-	-	-	
70	WALL MOUNT SWING FAUCET	2	-	-	-	-	1/2"	-	1/2"	VB
74	DISHWASHER, CONVEYER TYPE	1	1-1/2"	-	YES	-	-	-	3/4"	
74B	DISHWASHER VENT, UNLOAD END	1	1-1/2"	-	YES	-	-	-	-	
75	PRE-RINSE FAUCET	1	-	-	-	-	1/2"	-	1/2"	VB
76	WASTE DISPOSER	1	-	2"	YES	1-1/2"	1/2"	-	-	
83	EVAPORATOR COIL, REFRIGERATOR	1	3/4"	-	-	-	-	-	-	DRAIN TO FLOOR DRAIN W/ FUNNEL
85	EVAPORATOR COIL, FREEZER	1	3/4"	-	-	-	-	-	-	DRAIN TO FLOOR DRAIN W/ FUNNEL
92	WATER FILTER ASSEMBLY	1	-	-	-	-	1/2"	-	-	VB, INTERCONNECT TO ITEMS 07, 09 (PANTRY)
93	WATER FILTER ASSEMBLY	1	-	-	-	-	1/2"	-	-	VB, INTERCONNECT TO ITEM 94
94	DECK MOUNT STATION W/ GLASS FILLER	1	1-1/4"	-	YES	-	-	1/2"	-	VB
95	DROP-IN SINK, SINGLE	1	1-1/2"	-	YES	-	1/2"		1/2"	
98	ICE STORAGE BIN	1	3/4"	-	YES	-	-	-	-	
99	ICE MAKER - STACKABLE ICE CUBER	1	3/4"	-	YES	-	-	1/2"	-	RPZ
100	WATER FILTER ASSEMBLY	1	-	-	-	-	1/2"	-	-	VB, INTERCONNECT TO ITEM 99
104	DRAINBOARD CABINET	2	1-1/2"	-	YES	-	-	-	-	
105	COMBO ICE BIN	2	(1) 1-1/2", (1) 3/4"	-	YES	-	-	-	-	
107	SINK, SINGLE BOWL	2	1-1/2"	-	YES	-	1/2"	-	1/2"	VB
109	DISHWASHER, UNDERCOUNTER	1	5/8"	-	YES	-	1/2"	-	-	
110	UNDERBAR HAND SINK	2	1-1/2"	-	YES	-	1/2"	-	1/2"	TMV, VB
113	TEE TOWER	1	1/2"	-	YES	-	-	-	-	
120	ICE BIN	1	1-1/2"	-	YES	-	-	-	-	
121	DRAINBOARD CABINET	1	1-1/2"	-	YES	-	-	-	-	
122	BLENDER STATION	1	1-1/2"	-	YES	-	1/2"	-	1/2"	TMV, VB
128	CARBONATOR	1	-	-	-	-	1/2"	-	-	RPZ

GENERAL NOTES (APPLIES TO ALL CONCESSIONS, BARS, AND PANTRIES):
1. PLUMBING DESIGN AND SIZES ARE BASED ON THE 2015 NYS PLUMBING CODE.
2. ALL EXPOSED PIPING SERVING PLUMBING FIXTURES THAT MAY BE USED FOR ADA PURPOSES SHALL HAVE TRAPS AND SUPPLIES INSULATED PER ADA REQUIREMENTS.
3. EACH UNIT WITH A DIRECT WASTE CONNECTION SHALL BE PROVIDED WITH A P-TRAP, EXCEPT EQUIPMENT WITH INTEGRAL TRAPS.
4. EXTEND INDIRECT WASTE TO NEAREST FLOOR SINK, UNLESS OTHERWISE NOTED ON PLANS. PROVIDE MINIMUM 1" AIR GAP.
5. ALL HAND WASH SINKS SHALL BE PROVIDED WITH MV REGARDLESS OF ACCESSORIES NOTED. LEONARD MODEL 270-LF OR APPROVED EQUAL.
6. REFER TO PLANS FOR FIXTURES REQUIRING CONNECT TO GREASE INTERCEPTOR SYSTEM.
7. CONTRACTOR TO REFER TO FOOD SERVICE AND ARCHITECTURAL DRAWINGS FOR ALL PIPE SIZES, MOUNTING HEIGHTS AND ACTUAL EQUIPMENT QTY., ETC.

ACCESSORY CODES
TP = TRAP PRIMER
VB = VACUUM BREAKER
FLTR = FILTER
TMV = POINT-OF-USE THERMOSTATIC MIXING VALVE, ASSE 1070 COMPLIANT
RPZ = REDUCED PRESSURE ZONE ASSEMBLY
VB = VACUUM BREAKER

APPLIANCE CONNECTION SCHEDULE

CODE	DESCRIPTION	CW CONN.	HW CONN.	SAN CONN.	IW CONN.	VENT CONN.	ACCESSORIES / COMMENTS
WASH	WASHING MACHINE	(2) 3/4"	(2) 3/4"	-	3"	-	VB
REF	REFRIGERATOR W/ ICE MAKER	1/2"	-	-	-	-	VB, FLTR
ICE	ICE MAKER	1/4"	-	-	(2) 3/4"	-	RPZ, FLTR
WD	WATER DISPENSER	1/2"	-	1-1/2"	-	1-1/2"	VB
LCS	LAUNDRY CHUTE SANITATION UNIT	3/4"	-	-	-	-	VB
DW	DISHWASHER, UNDERCOUNTER	-	3/8"	3/4"	-	-	
FWD	FOOD WASTE DISPOSER	-	-	1-1/2", 3/4"	-	-	INCLUDES DISHWASHER CONNECTION

GENERAL NOTES
1. PLUMBING DESIGN AND SIZES ARE BASED ON THE 2015 INTERNATIONAL PLUMBING CODE.
2. ALL EXPOSED PIPING SERVING PLUMBING FIXTURES THAT MAY BE USED FOR ADA PURPOSES SHALL TRAPS AND SUPPLIES INSULATED PER ADA REQUIREMENTS.
3. EACH PLUMBING FIXTURE SHALL BE PROVIDED WITH A P-TRAP, EXCEPT THOSE WITH INTEGRAL TRAPS.
4. EXTEND INDIRECT WASTE TO NEAREST FLOOR DRAIN OR FLOOR SINK, UNLESS OTHERWISE NOTED ON PLANS.

ACCESSORY CODES
VB = VACUUM BREAKER — RPZ = REDUCED PRESSURE ZONE ASSEMBLY
TP = TRAP PRIMER — MV = POINT-OF-USE MIXING VALVE, ASSE 1070 COMPLIANT
FLTR = FILTER

WATER TREATMENT SCHEDULE

GENERAL: CODE	GENERAL: SERVICE	GENERAL: LOCATION	COPPER SILVER IONIZATION SYSTEM FLOW CELL: MANUFACTURER/ MODEL NO.	QTY	FLOW RATE (EA) (GPM)	TOTAL SYSTEM FLOW RATE (GPM)	WORKING PRESSURE (PSI)	CONTROLLER: MANUFACTURER/ MODEL NO.	ELECTRICAL: AMPS	VOLT	PH	HZ	DISC	FEEDER SIZE	REMARKS
CSI-1	INN	WATER ROOM	LIQUITECH/ QF14-4/4 LIQUITECH MARK III CLEAN FLOW 4" "QUICK-CONNECT" FLOW CELL	1	20	20	150	S300	8	120	1	60	30	2#12, #12G, 3/4"C	

GENERAL NOTES
1. COPPER SILVER IONIZATION SYSTEMS SHALL BE PROVIDED WITH (1) DIAGNOSTICS TFX ULTA TANSIT-TIME FLOW METER, (1) MODEL DC1200 COPPER COLORIMETER TEST KIT, AND (1) REMS REMOTE ENGINEER MONITORING SYSTEM PER LIQUITECH MODULE.
2. PROVIDE BMS TIE-IN
3. CONTROLLER SHALL BE LIQUITECH ELECTRONIC CONTROL UNIT WITH "PROPORATIONAL CONTROL" AND REMOTE MONITORING.
4. PROVIDE (1)SPARE FLOW CELL
5. ALL WETTED COMPONENTS SHALL COMPLY WITH NSF-61
6. FLOW CELL SHALL BE VERTICALLY MOUNTED

REMARK NOTES

DOMESTIC WATER HEATER SCHEDULE (ELECTRIC)

CODE (DWH)	MANUFACTURER/ MODEL NO.	LOCATION	SERVICE	STORAGE (GAL)	RECOVERY (GPH)	TEMP. RISE	KW	DIMENSIONS (IN) L	W	H	OPERATING WEIGHT (LB)	ELECTRICAL: VOLT	PH	FLA	DISC	FEEDER SIZE	PANEL	REMARKS
DWH-1	PVI / DURAWATT 650-L-200A-VE	1ST FL STORAGE/ CLOSET	INSTITUTE	200	515	100	126	44	34	75	2820	480	3	151.6	200	3#3/0,#6G,2"C		
DWH-2	PVI / DURAWATT 650-L-200A-VE	1ST FL STORAGE/ CLOSET	INSTITUTE	200	515	100	126	44	34	75	2820	480	3	151.6	200	3#3/0,#6G,2"C		
DWH-3	PVI / DURAWATT 550-L-150A-VE	1ST FL WATER SERVICE RM	INN	150	440	100	108	44	34	63	2343	480	3	129.9	200	3#3/0,#6G,2"C		
DWH-4	PVI / DURAWATT 550-L-150A-VE	1ST FL WATER SERVICE RM	INN	150	440	100	108	44	34	63	2343	480	3	129.9	200	3#3/0,#6G,2"C		

GENERAL NOTES
1. HEAT EXCHANGER AND TANK TO BE ASSEMBLED AT THE FACTORY AND SHIPPED FULLY ASSEMBLED.
2. HOT WATER HEATER SHALL BE FURNISHED WITH IMMERSION THERMOSTAT.
3. ROUTE ALL T&P RELIEF VALVES TO APPROVED RECEPTOR. ALL T&P RELIEF VALVES SHALL BE ACSA-RATED.
4. MUST BE NSF APPROVED.
5. TANK SHALL BE AN AQUAPLEX TANK (UNLINED DUPLEX STAINLESS STEEL)
6. TANK SHALL BE NON-FERROUS, REMOVABLE TANK FITTINGS. NO ANODE RODS SHALL BE REQUIRED.
7. TANK SHALL BE SUPPLIED WITH FIBERGLASS INSULATION AND ENCLOSED IN STEEL JACKET PANELS.
8. TANK SHALL BE FURNISHED WITH A 25-YEAR WARRANTY.
9. MOUNT TANK ON 4" HOUSEKEEPING PAD.

REMARK NOTES

SUMP PUMP SCHEDULE

CODE	MANUFACTURER / MODEL NO.	SERVICE	TYPE	NO. OF PUMPS	GPM(EA)	FT HD (EA)	DISCHARGE PIPE SIZE (EA.)	RPM	SUMP SIZE (L X W X D)	ELECTRICAL: HP	VOLT	PH	FLA	DISC	FEEDER SIZE	REMARKS
ESP-1	STANCOR / OIL-MINDER SE50	INN ELEVATOR	VORTEX SUBMERSIBLE	1	50	22	2"	3450	2' X 2' X 2' (BY OTHERS)	0.5	460	3	1.4	30	3#12,#12G,3/4"C	
ESP-2	STANCOR / OIL-MINDER SE50	INSTITUTE ELEVATOR - BOH	VORTEX SUBMERSIBLE	1	50	22	2"	3450	2' X 2' X 2' (BY OTHERS)	0.5	460	3	1.4	30	3#12,#12G,3/4"C	
ESP-3	STANCOR / OIL-MINDER SE50	INSTITUTE ELEVATOR - LOBBY	VORTEX SUBMERSIBLE	1	50	22	2"	3450	2' X 2' X 2' (BY OTHERS)	0.5	460	3	1.4	30	3#12,#12G,3/4"C	

GENERAL NOTES
1. PROVIDE CHECK VALVE ON EACH PUMP. SEE GENERAL DETAIL ON DRAWINGS.
2. PROVIDE PREMIUM EFFICIENCY MOTORS FOR MOTORS 1 HP AND OVER PER MENA STANDARD MG1-2003, TABLES 12-12 AND 12-13.
3. PROVIDE LOCAL INDICATION OF HIGH LIQUID, HIGH CURRENT/LOCKED ROTOR, AND OIL SENSING ALARMS. COORDINATE WITH BMS CONTRACTOR TO PROVIDE ADDITIONAL BMS READOUT OF ALL ALARMS.
4. PROVIDE ON/OFF SWITCH.
5. PROVIDE HIGH ALARM AND WIRE TO RING BELL IN MECHANICAL ROOM.
6. PROVIDE PROPERLY GROUNDED RECEPTACLE PROTECTED BY GFCI FOR CONTROLLER.
7. PROVIDE WITH PUMP ON FLOAT, HIGH ALARM FLOAT, SENSOR PROBE, ETC TO ALLOW FOR PROPER OPERATION OF PUMP.
8. PUMP SHALL BE ON EMERGENCY POWER.
9. CONTROL PANEL SHALL BE NEMA 4X RATED.
10. WARRANTY: 1.5 YEAR PUMP (WET END), 20 YEAR MOTOR

DOMESTIC WATER STORAGE TANK SCHEDULE

CODE (ST)	MANUFACTURER/ MODEL NO.	LOCATION	TYPE	GALLONS	ORIENTATION	DIMENSION (IN) L	W	H	WEIGHT (LBS)	REMARKS
ST-1	PVI/ L215A-TR	1ST FL STORAGE	INSULATED & JACKETED	200	VERTICAL	37	34	78	2565	
ST-2	PVI/ L215A-TR	1ST FL STORAGE	INSULATED & JACKETED	200	VERTICAL	37	34	78	2565	

GENERAL NOTES
1. ENTIRE TANK TO BE FULLY INSULATED TO MEET ASHRAE 90.1-07.
2. TANK SHALL BE PROVIDED WITH CONNECTIONS FOR AQUA-STAT, RELIEF VALVE, DRAIN, THERMOMETER WATER INLET, WATER OUTLET, AND WATER RECIRCULATION.
3. MOUNT UNIT ON 4" CONCRETE HOUSEKEEPING PAD.
4. ROUTE ALL T&P RELIEF VALVES TO APPROVED RECEPTOR. ALL T&P RELIEF VALVES SHALL BE ACSA-RATED.
5. MUST BE NSF APPROVED.
6. TANK SHALL BE AN AQUAPLEX TANK (UNLINED DUPLEX STAINLESS STEEL)
7. TANK SHALL BE NON-FERROUS, REMOVABLE TANK FITTINGS. NO ANODE RODS SHALL BE REQUIRED.
8. TANK SHALL BE SUPPLIED WITH FIBERGLASS INSULATION AND ENCLOSED IN STEEL JACKET PANELS.
9. TANK SHALL BE FURNISHED WITH A 25-YEAR WARRANTY.

REMARKS

PUMP SCHEDULE

GENERAL: CODE	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	PUMP DATA: PUMP TYPE	DRIVE	GPM	HEAD (FT)	TEMP. RANGE (F)	MIN EFF. %	ELECTRICAL: HP	VOLT	PH	DISC	FEEDER SIZE	HZ	RPM	REMARKS
DWCP-1	BELL & GOSSETT / ECOCIRC XL N 36-45	INSTITUTE CIRCULATION	KITCHEN	INLINE	ECM	20	15	40 - 140	49	1/6	120	1	STO	2#12,#12G,3/4"C	60	3600	
DWCP-2	BELL & GOSSETT / ECOCIRC XL N 36-45	INN CIRCULATION	MECH	INLINE	ECM	20	15	40 - 140	49	1/6	120	1	STO	2#12,#12G,3/4"C	60	3600	
DWCP-3	BELL & GOSSETT / ECOCIRC XL N 36-45	INN CIRCULATION	MECH	INLINE	ECM	20	15	40 - 140	49	1/6	120	1	STO	2#12,#12G,3/4"C	60	3600	A
DWCP-4	BELL & GOSSETT / ECOCIRC XL N 36-45	SOLAR THERMAL CIRCULATION	MECH	INLINE	ECM	10	10	40 - 140	42.2	1/6	120	1	STO	2#12,#12G,3/4"C	60	3600	

GENERAL NOTES
1. PROVIDE A HIGHLY EFFICENT ELECTRONICALLY COMMUTATED PERMANENT MAGNET MOTOR (ECM/PM TECHNOLOGY)
2. PROVIDE ALL STAINLESS STEEL CONSTRUCTION, NSF-372 AND NSF-61 COMPLIANT.
3. PUMP SHALL BE SUPPLED WITH A CLOSED, PERFECTLY MOLDED INSULATION SHELL THAT FITS THE PUMP HOUSING EXACTLY.
4. PUMP SHALL BE CONNECTED TO A TEMPERATURE SENSOR THAT MAINTAINS A 5 DEGREE DELTA T IN THE HOT WATER CIRULATION LINE.
5. PUMP SHALL BE SUPPLIED WITH A BUILT-IN TEMPERATURE SENSOR.
6. PUMP SHALL BE PROVIDED WITH A 1.5" SUCTION AND DISCHARGE FLANGES.

REMARK NOTES
A. 100% STANDBY OPERATION. PROVIDE AUTOMATIC LEAD/STANDBY CHANGEOVER BASED ON RUN TIME.

EXPANSION TANK SCHEDULE

CODE	SERVICE	LOCATION	DESIGN PARAMETERS: SYSTEM VOLUME (GAL)	MIN. TEMP (F)	MAX TEMP (F)	OPERATING PARAMETERS: RELIEF VALVE SETTING (PSIG)	CW MU PRV REQ'T (PSIG)	CONFIG	TYPE	MIN. ACCEPT. (GAL)	PRECHARGE (PSIG)	MANUFACTURER/ MODEL NUMBER	REMARKS
DET-1	INSTITUTE DOM. HW	INSTITUTE - 1ST FL STORAGE	800	40	140	100	80	V	D	68	55	AMTROL/ ST-120V-C	
DET-2	INN DOM. HW	INN - 1ST FL WATER RM	300	40	140	100	80	V	D	34	55	AMTROL/ ST-70V-C	

GENERAL NOTES
1. TYPE: B=FULL BLADDER
D=PARTIAL DIAPHRAGM

REMARKS

VASSAR COLLEGE INN & INSTITUTE
18010.00
COLLEGE AND RAYMOND AVENUE POUGHKEEPSIE, NY

CONTRACTOR

CONSULTANT
me engineers

ISSUE DATES

Frederick Fisher and Partners

MEP
SCHEDULES VI
SCALE: AS INDICATED

E0.55

1 ELECTRICAL SITE PLAN
SCALE: 1/32" = 1'-0"

GENERAL NOTES:

1. EXACT LOCATIONS SHALL BE COORDINATED WITH SITE/CIVIL DRAWINGS AND FIELD CONDITIONS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL EXISTING UTILITIES WITH NEW WORK. THE CONTRACTOR SHALL USE ALL APPLICABLE LOCAL CODES TO VERIFY AND/OR RELOCATE EXISTING UTILITIES IN THE PROPOSED ROUTING OF NEW UTILITY SERVICE. CONTRACTOR SHALL INCLUDE ALL COSTS FOR SUCH SERVICE IN BID. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING FOR NEW UTILITY SERVICES TO AVOID DAMAGE TO EXISTING UTILITIES.
3. SCALE OF PLANS IS APPROXIMATE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LENGTH OF RUNS, ETC., PRIOR TO SUBMITTING BID, AND SHALL ALLOW FOR SUFFICIENT ADDITIONAL LENGTH OF CABLE IN BID TO ALLOW FOR UNFORESEEN BENDS, ETC.
4. PRIOR TO INSTALLATION OF WIRE CONTRACTOR SHALL FIELD MEASURE LENGTHS OF CONDUITS USING TRUTAPE OR OTHER APPROVED METHOD. CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY TO DETERMINE LENGTH OF CABLE REQUIRED.
5. ALL CONDUIT ROUTINGS ARE SCHEMATIC AND SHALL BE COORDINATED WITH OWNER PRIOR TO COMMENCING INSTALLATION.
6. WARNING TAPE SHALL BE PLACED ABOVE ALL UNDERGROUND CONDUIT RUNS.
7. ALL CONDUITS SHOWN ON THIS PLAN ARE NEW UNLESS OTHERWISE NOTED.
8. COORDINATE ENTIRE SCOPE AND EXTENT OF WORK WITH GENERAL CONTRACTOR.
9. ALL EMPTY CONDUITS SHALL CONTAIN PULL WIRES.
10. ALL CONDUIT SHALL BE PVC. 90 DEGREE CONDUIT TURNS SHALL BE PVC COATED RIGID STEEL CONDUIT.
11. ALL UNDERGROUND CONDUIT JOINTS AND ENDS SHALL BE SEALED TO PREVENT WATER, GAS, AND RODENTS FROM ENTERING THE FACILITY.
12. ALL CONDUIT ENDS SHALL BE REAMED AND TERMINATED WITH A PROTECTIVE CABLE BUSHING.
13. CONDUIT ROUTING SHALL NOT EXCEED 270-DEGREES FOR THE SUM OF ELBOWS OF A PARTICULAR CONDUIT RUN, WITHOUT THE INSTALLATION OF AN APPROVED PULL-BOX OR HANDHOLE.
14. ALL CONDUITS WITH AN INSIDE DIAMETER LARGER THAN 2-INCHES SHALL HAVE A BEND RADIUS OF 10:1 OF THE INSIDE CONDUIT DIAMETER.
15. ALL CONDUITS WITH AN INSIDE DIAMETER EQUAL TO OR LESS THAN 2-INCHES SHALL HAVE A BEND RADIUS OF 6:1 OF THE INSIDE CONDUIT DIAMETER.
16. PULL AND SPLICE BOXES REQUIRED FOR PROPER CABLE INSTALLATION ARE NOT SHOWN. CONTRACTOR SHALL PROVIDE ALL BOXES REQUIRED FOR THE INSTALLATION AS SHOWN ON DRAWINGS. COORDINATE WITH ALL OTHER TRADES. REFER TO DETAIL.
17. COORDINATE ALL FINAL STUB UP LOCATIONS WITH CIVIL.
18. COORDINATE ALL PRIMARY CONDUIT, MANHOLE AND TRANSFORMER PAD INSTALLATIONS WITH CENTRAL HUDSON UTILITY REPRESENTATIVE AND CENTRAL HUDSON UTILITY SPECIFICATIONS.
19. REFER TO POWER ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
20. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
21. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
22. REFER TO MEP SCHEDULES FOR ADDITIONAL INFORMATION.

VASSAR COLLEGE INN & INSTITUTE
18010.00
COLLEGE AND RAYMOND AVENUE POUGHKEEPSIE, NY

CONTRACTOR

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ISSUE DATES

09/03/2019 100% DESIGN DEVELOPMENT
12/13/2019 50% CONSTRUCTION DOCUMENTS
04/15/2020 ISSUED FOR PERMIT
05/01/2020 ISSUED FOR CONSTRUCTION
07/01/2020 GMP SET
12/18/2020 FINAL GMP SET
06/21/2021 BID SET

Frederick Fisher and Partners
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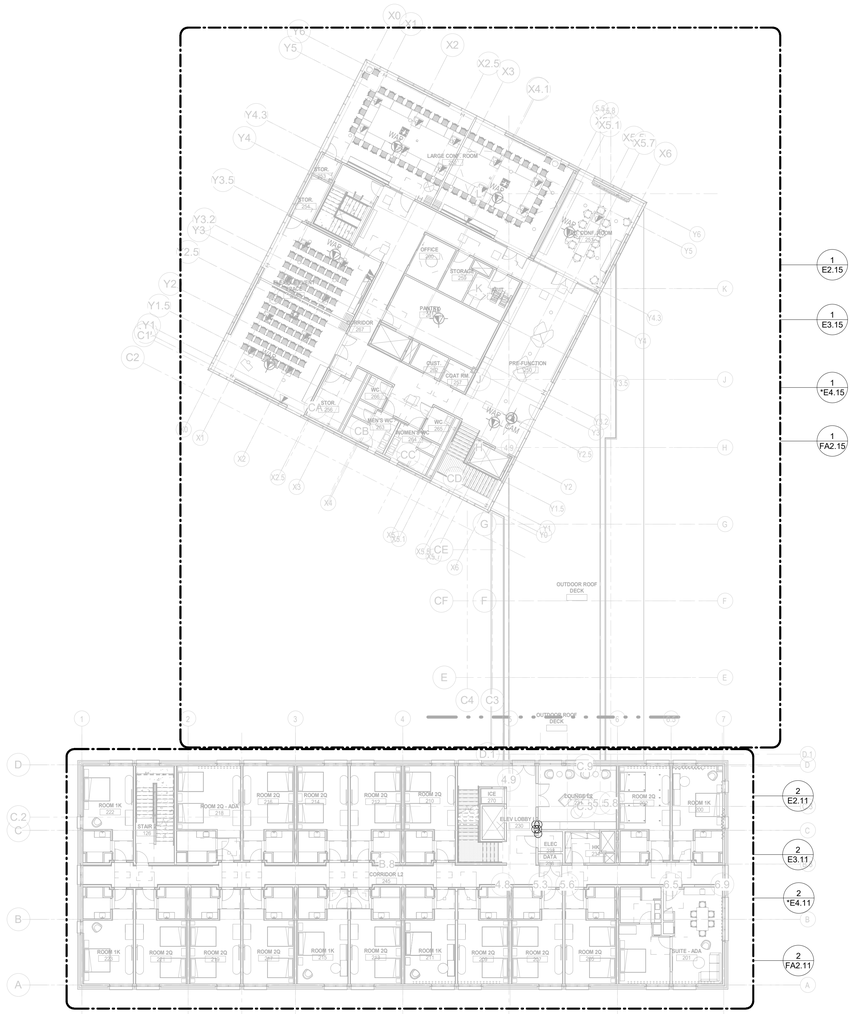
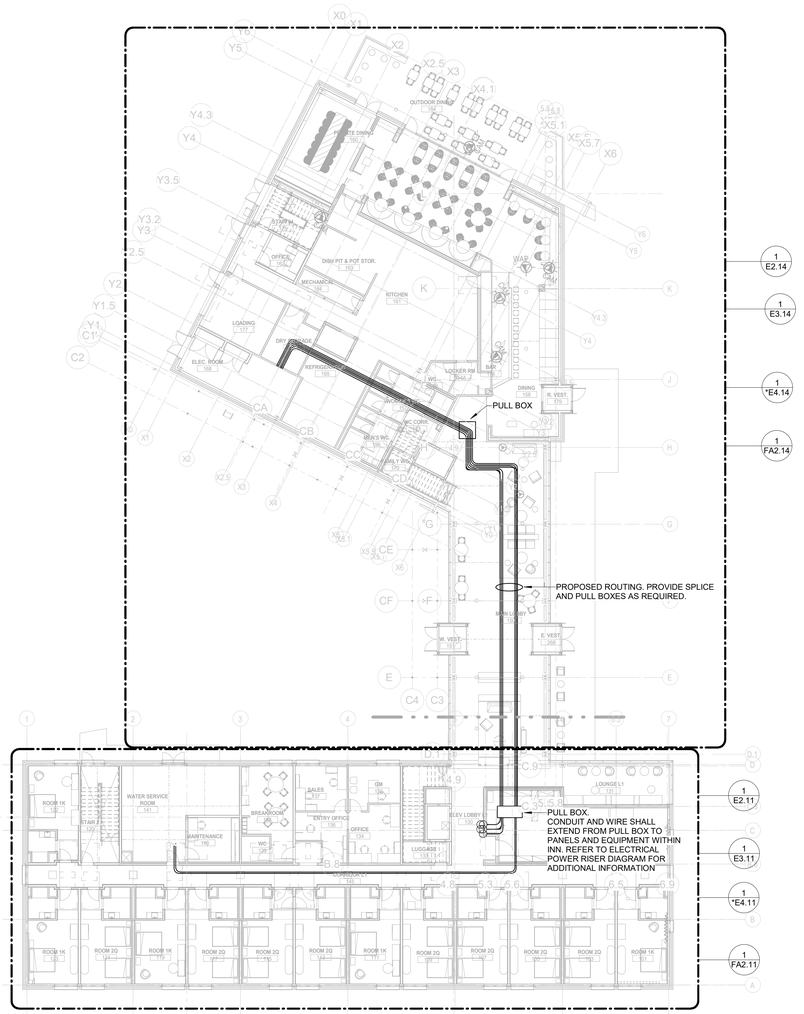
ELECTRICAL SITE PLAN
SCALE: AS INDICATED

E1.01



2 ELECTRICAL PLAN - LEVEL 2

SCALE: 1/16"= 1'-0"



1 ELECTRICAL PLAN - LEVEL 1

SCALE: 1/16"= 1'-0"

KEYNOTES

GENERAL NOTES:

1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES REFER TO ARCHITECTURAL DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS AND ADDITIONAL INFORMATION.
3. PROVIDE (1) NEUTRAL FOR EACH HOT AND (1) COMMON GROUND FOR EACH HOMERUN.
4. ALL MECHANICAL/PLUMBING EQUIPMENT IS SHOWN FOR ELECTRICAL CIRCUITING INFORMATION ONLY. EXACT LOCATIONS AND QUANTITIES OF MECHANICAL/PLUMBING EQUIPMENT SHALL BE COORDINATED WITH MECHANICAL/PLUMBING DRAWINGS.
5. EXACT LOCATIONS AND QUANTITIES OF FIRE/SMOKE DAMPERS SHALL BE COORDINATED WITH MECHANICAL DRAWINGS.
6. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECH PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
7. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY, AND GYP. WALLS.
8. REFER TO POWER ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
9. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
10. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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ELECTRICAL OVERALL FLOOR PLANS

SCALE: AS INDICATED

E2.01

KEYNOTES

GENERAL NOTES:

1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES REFER TO ARCHITECTURAL DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS AND ADDITIONAL INFORMATION.
3. PROVIDE (1) NEUTRAL FOR EACH HOT AND (1) COMMON GROUND FOR EACH HOMERUN.
4. ALL MECHANICAL/PLUMBING EQUIPMENT IS SHOWN FOR ELECTRICAL CIRCUITING INFORMATION ONLY. EXACT LOCATIONS AND QUANTITIES OF MECHANICAL/PLUMBING EQUIPMENT SHALL BE COORDINATED WITH MECHANICAL/PLUMBING DRAWINGS.
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7. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY, AND GYP. WALLS.
8. REFER TO POWER ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
9. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
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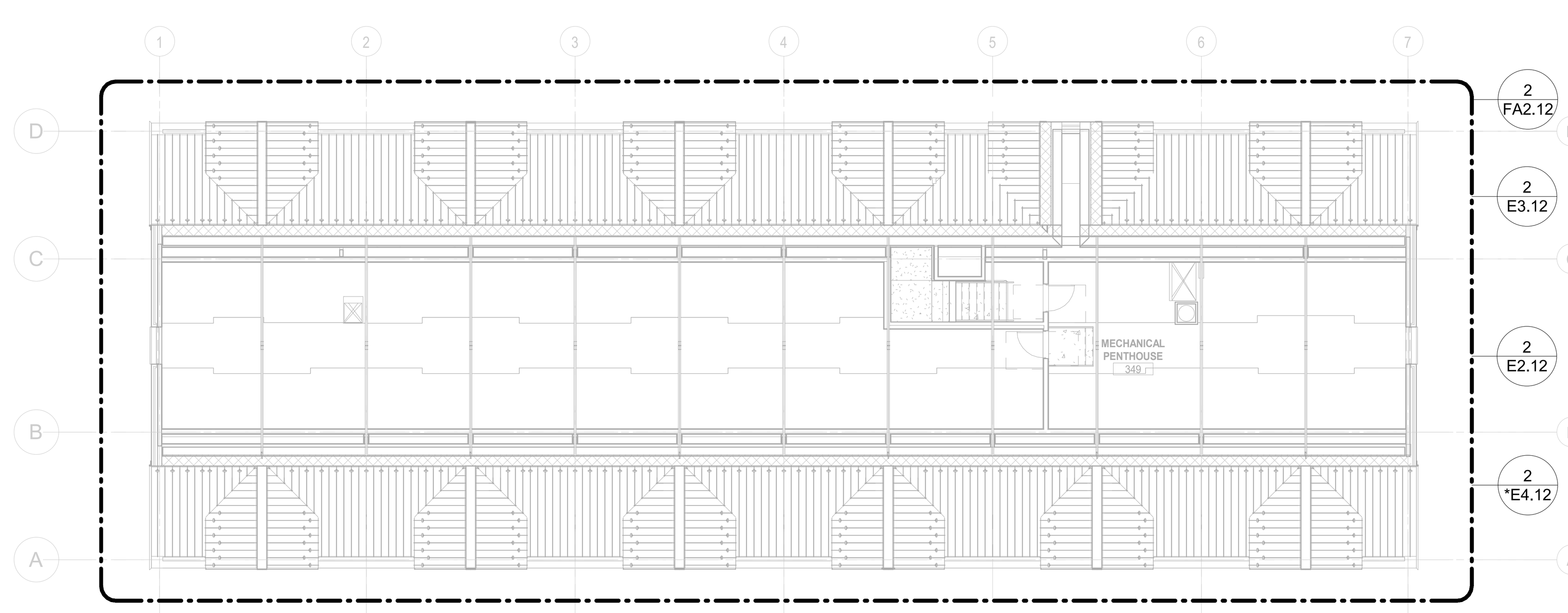
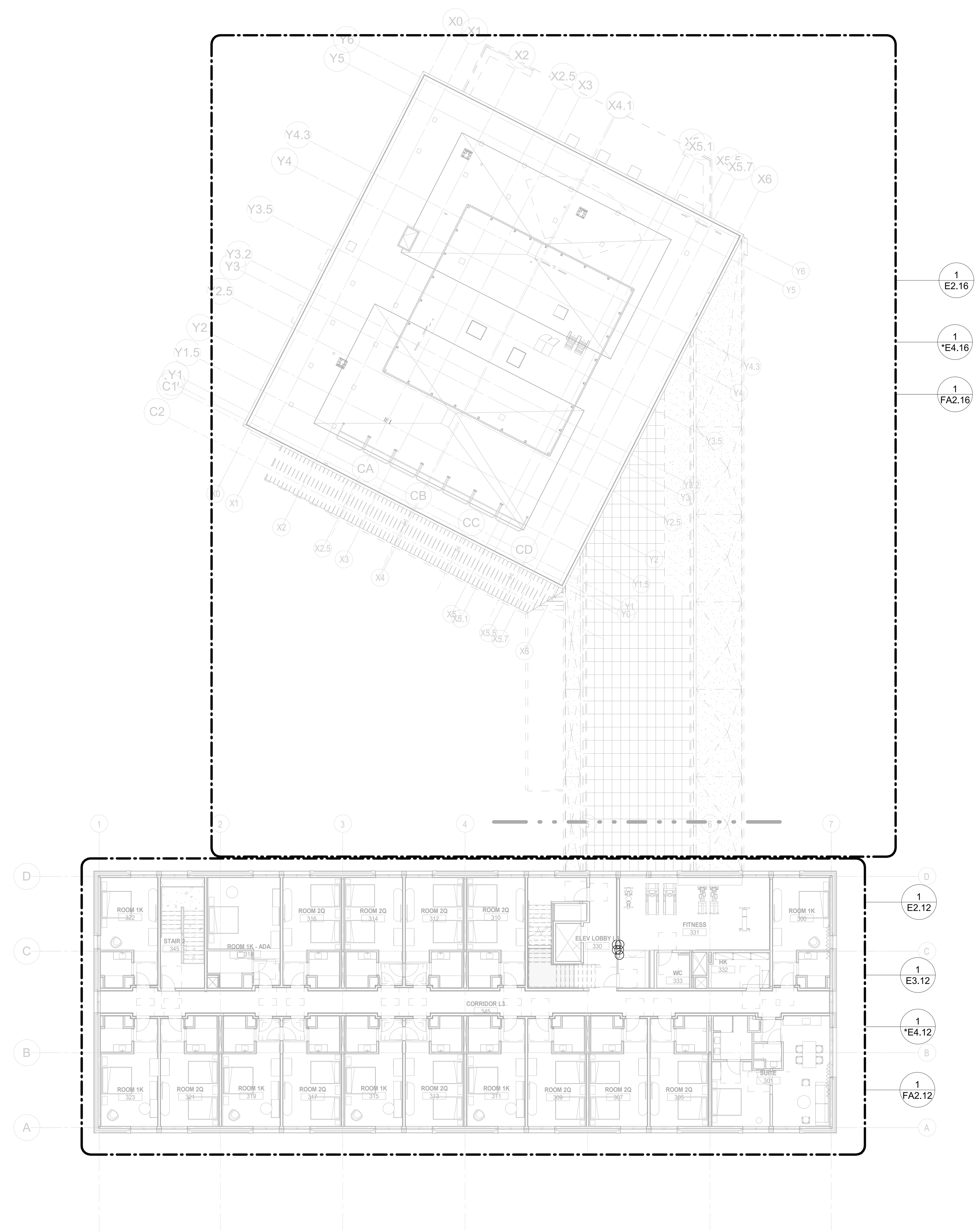
11. REFER TO MEP SCHEDULES FOR ADDITIONAL INFORMATION.



2 ELECTRICAL PLAN - PENTHOUSE LEVEL
SCALE: 1/16" = 1'-0"



1 ELECTRICAL PLAN - LEVEL 3
SCALE: 1/16" = 1'-0"

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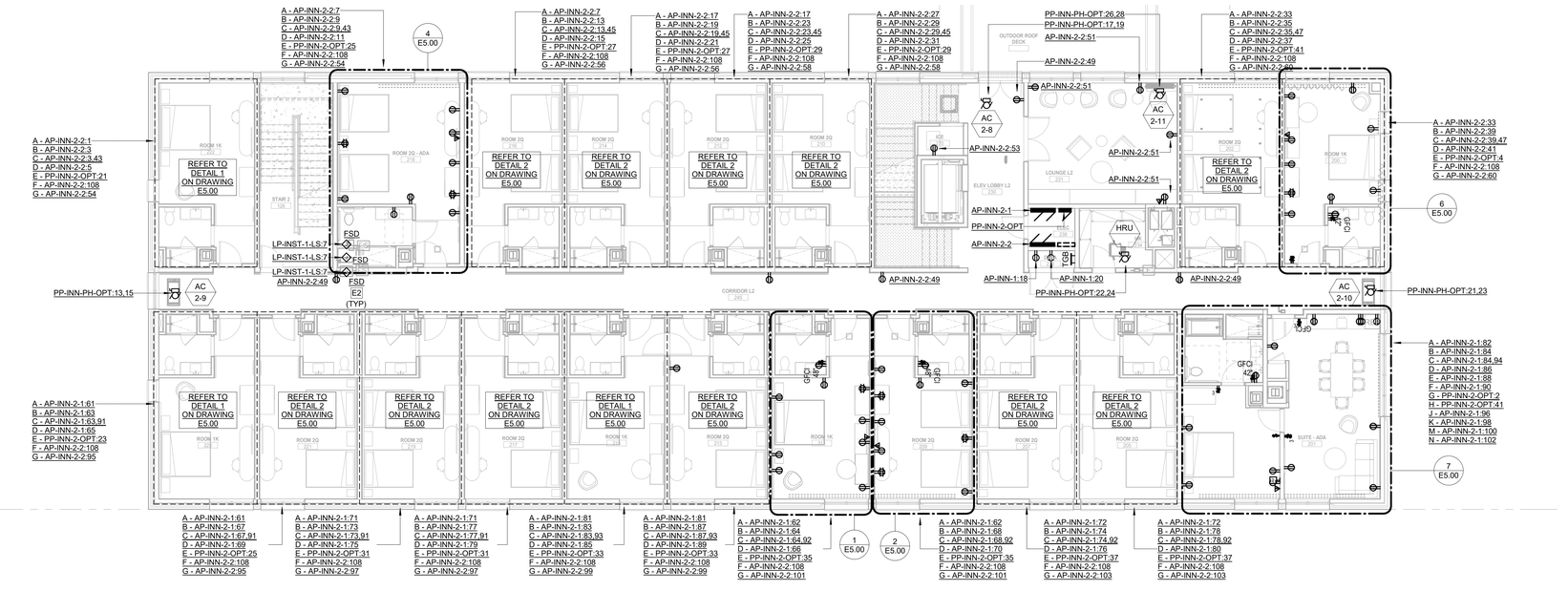
ELECTRICAL OVERALL FLOOR PLANS
SCALE: AS INDICATED

E2.02



KEYNOTES	
E1	POWER FOR MOTORIZED DAMPER.
E2	POWER FOR FIRE/SMOKE AND SMOKE DAMPER. ROUTE POWER VIA FIRE ALARM RELAY. EXTEND POWER TO ALL RELAYS AND DAMPERS AS REQUIRED.
E3	RECEPTACLE SHALL BE AUTOMATICALLY CONTROLLED WITH LIGHTS IN THE SPACE, AND SHALL BE DE-ENERGIZED WHEN LIGHTS AUTO-MATICALLY TURN OFF.
E4	QUADRUPLEX RECEPTACLE SHALL BE PROVIDED WITH A BARRIER FOR SEPARATION OF CIRCUITS. THE SECOND CIRCUIT INDICATED SHALL BE AUTOMATICALLY CONTROLLED WITH LIGHTS IN THE SPACE, AND SHALL BE DE-ENERGIZED WHEN LIGHTS AUTO-MATICALLY TURN OFF.

GENERAL NOTES:

1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES REFER TO ARCHITECTURAL DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS AND ADDITIONAL INFORMATION.
3. PROVIDE (1) NEUTRAL FOR EACH HOT AND (1) COMMON GROUND FOR EACH HOMERUN.
4. ALL MECHANICAL/PLUMBING EQUIPMENT IS SHOWN FOR ELECTRICAL CIRCUITING INFORMATION ONLY. EXACT LOCATIONS AND QUANTITIES OF MECHANICAL/PLUMBING EQUIPMENT SHALL BE COORDINATED WITH MECHANICAL/PLUMBING DRAWINGS.
5. EXACT LOCATIONS AND QUANTITIES OF FIRE/SMOKE DAMPERS SHALL BE COORDINATED WITH MECHANICAL DRAWINGS.
6. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECH PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
7. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY, AND GYP. WALLS.
8. REFER TO POWER ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
9. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
10. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. REFER TO MEP SCHEDULES FOR ADDITIONAL INFORMATION.

2 ELECTRICAL PARTIAL PLANS - LEVEL 2 INN

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

1 ELECTRICAL PARTIAL PLANS - LEVEL 1 INN

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

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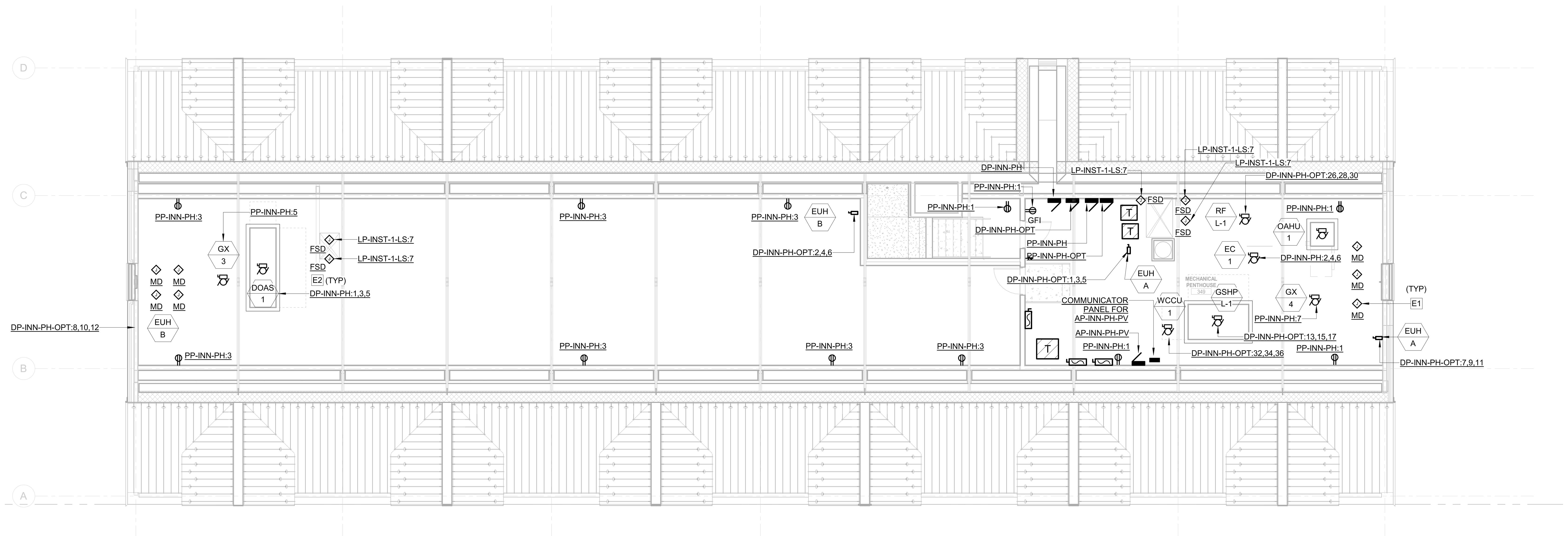
ELECTRICAL PARTIAL PLANS - LEVEL 1/2 INN

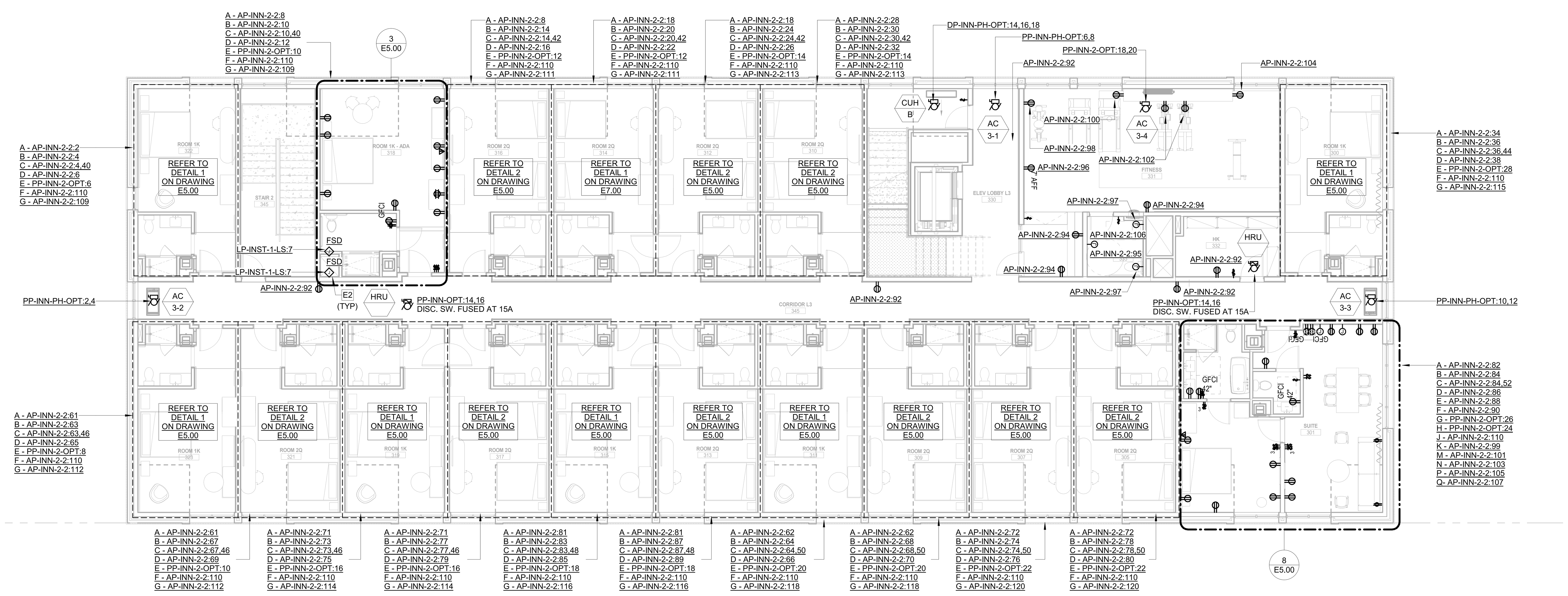
SCALE: AS INDICATED

E2.11



2 ELECTRICAL PARTIAL PLANS - PENTHOUSE LEVEL INN

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



1 ELECTRICAL PARTIAL PLANS - LEVEL 3 INN

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

KEYNOTES	
E1	POWER FOR MOTORIZED DAMPER.
E2	POWER FOR FIRE/SMOKE AND SMOKE DAMPER. ROUTE POWER VIA FIRE ALARM RELAY. EXTEND POWER TO ALL RELAYS AND DAMPERS AS REQUIRED.

GENERAL NOTES:

1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES REFER TO ARCHITECTURAL DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS AND ADDITIONAL INFORMATION.
3. PROVIDE (1) NEUTRAL FOR EACH HOT AND (1) COMMON GROUND FOR EACH HOMERUN.
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ELECTRICAL PARTIAL PLANS - LEVEL 3/PH INN

SCALE: AS INDICATED

E2.12

KEYNOTES

GENERAL NOTES:

1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES REFER TO ARCHITECTURAL DRAWINGS.
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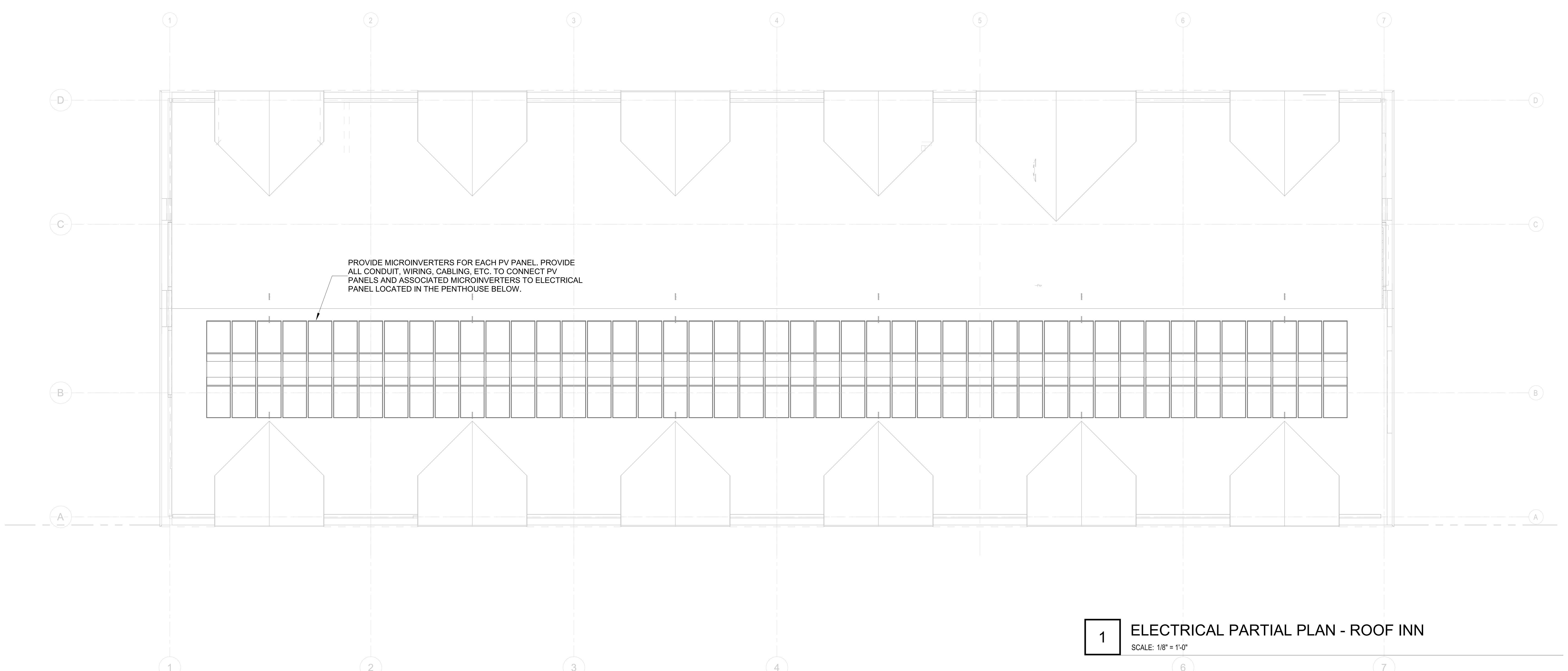
9. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
10. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. REFER TO MEP SCHEDULES FOR ADDITIONAL INFORMATION.



1 ELECTRICAL PARTIAL PLAN - ROOF INN

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

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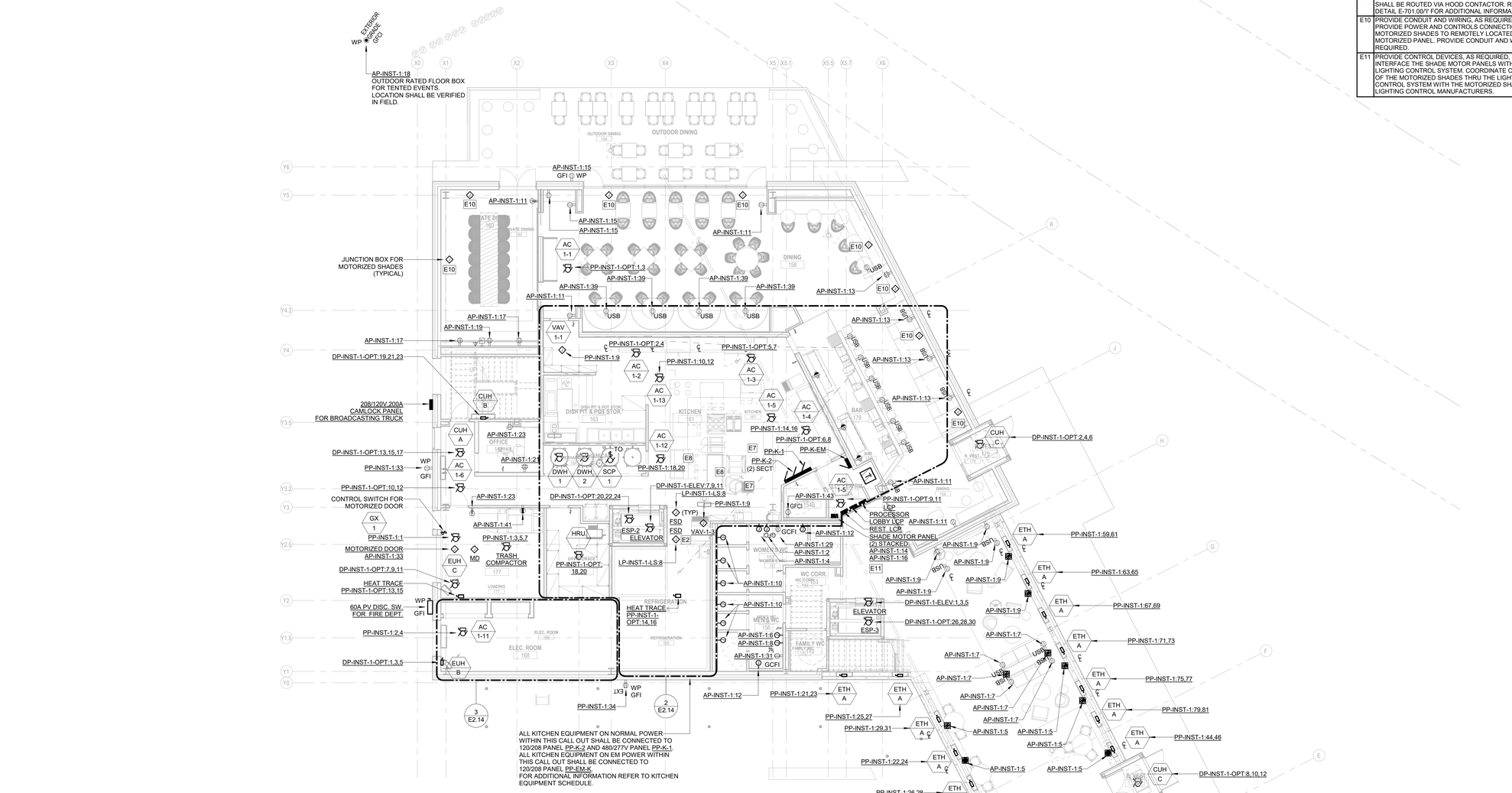
ELECTRICAL PARTIAL PLANS - ROOF INN

SCALE: AS INDICATED

E2.13



KEYNOTES

E2	POWER FOR FIRE/SMOKE AND SMOKE DAMPER. ROUTE POWER VIA FIRE ALARM RELAY. EXTEND POWER TO ALL RELAYS AND DAMPERS AS REQUIRED.
E7	ALL POWER FOR EQUIPMENT LOCATED UNDER HOOD SHALL BE ROUTED VIA HOOD CONTACTOR. REFER TO DETAIL E-701.00/'H' FOR ADDITIONAL INFORMATION.
E8	ALL POWER FOR EQUIPMENT LOCATED UNDER HOOD SHALL BE ROUTED VIA HOOD CONTACTOR. REFER TO DETAIL E-701.00/'I' FOR ADDITIONAL INFORMATION.
E10	PROVIDE CONDUIT AND WIRING, AS REQUIRED, TO PROVIDE POWER AND CONTROLS CONNECTIONS TO MOTORIZED SHADES TO REMOTELY LOCATED SHADE MOTORIZED PANEL. PROVIDE CONDUIT AND WIRE, AS REQUIRED.
E11	PROVIDE CONTROL DEVICES, AS REQUIRED, TO INTERFACE THE SHADE MOTOR PANELS WITH THE LIGHTING CONTROL SYSTEM. COORDINATE CONTROL OF THE MOTORIZED SHADES THRU THE LIGHTING CONTROL SYSTEM WITH THE MOTORIZED SHADE AND LIGHTING CONTROL MANUFACTURERS.

GENERAL NOTES:

1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES REFER TO ARCHITECTURAL DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS AND ADDITIONAL INFORMATION.
3. PROVIDE (1) NEUTRAL FOR EACH HOT AND (1) COMMON GROUND FOR EACH HOMERUN.
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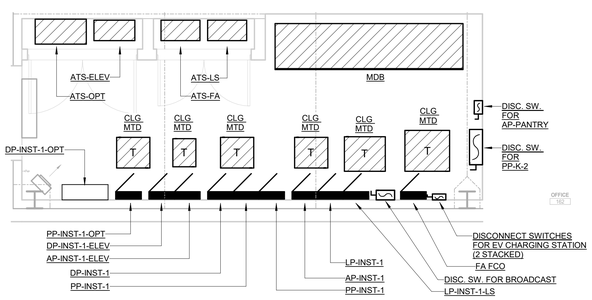
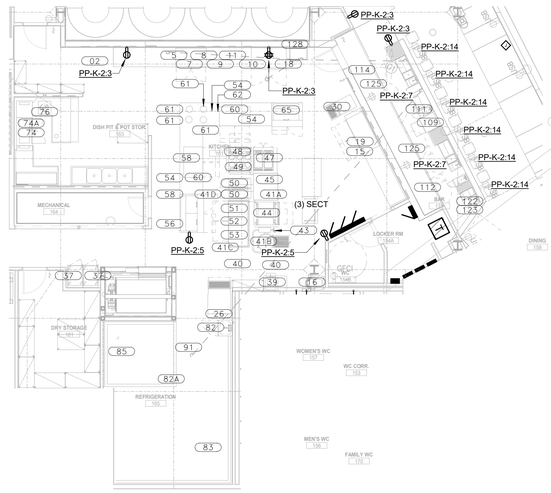
7. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY, AND GYP. WALLS.
8. REFER TO POWER ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
9. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
10. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. REFER TO MEP SCHEDULES FOR ADDITIONAL INFORMATION.

FOOD SERVICE NOTES:

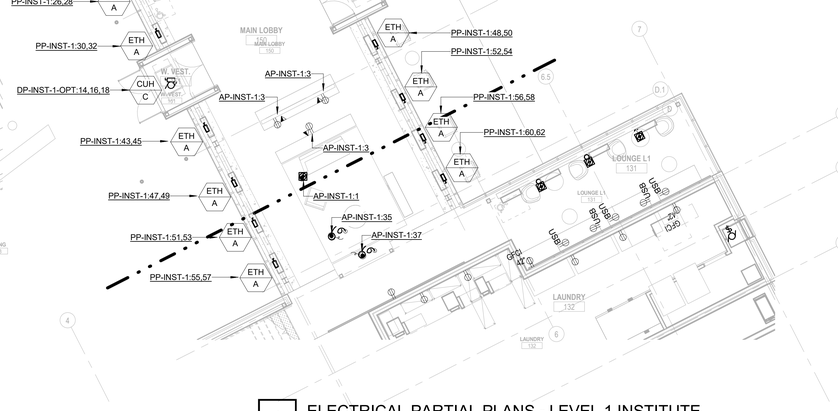
1. PROVIDE SEALED PENETRATIONS PER ELECTRICAL CODE REQUIREMENTS FOR ALL CONDUIT PENETRATIONS THROUGH WALK-IN COOLER OR FREEZER WALLS.
2. CONTRACTOR SHALL REFER TO FOOD SERVICE EQUIPMENT CONNECTION DRAWINGS FOR ALL DEVICE AND HARDWIRE CONNECTION DIMENSIONS INCLUDING MOUNTING HEIGHTS. SUBMIT DIMENSIONED SHOP DRAWINGS FOR ALL ELECTRICAL WORK. IN ADDITION, UNLESS OTHERWISE NOTED, ALL ELECTRICAL RECEPTACLES SERVING ABOVE COUNTER EQUIPMENT OR MARKED AS "AC", INCLUDING POS'ES, PRINTERS, ETC., SHALL BE MOUNTED AT 54" A.F.F. VERIFY HEIGHT WITH THE ARCHITECT PRIOR TO INSTALLATION.
3. EQUIPMENT CONNECTIONS, VOLTAGES, AMPERAGES AND DEVICE RATINGS INDICATED ON THIS DRAWING ARE BASED UPON THE LATEST DRAWINGS, SPECIFICATIONS AND CUTSHEETS THAT COULD BE PROCURED FROM THE FOOD SERVICE CONSULTANT. ACTUAL PURCHASED EQUIPMENT MAY VARY FROM THE FOOD SERVICE CONSULTANT'S DOCUMENTS. PRIOR TO FINAL CONNECTION AND DEVICE INSTALLATION THE CONTRACTOR SHALL VERIFY THE CONNECTION REQUIREMENTS WITH THE MOST CURRENT FOOD SERVICE DOCUMENTS AND ACTUAL EQUIPMENT PURCHASED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER.
4. PROVIDE FUSIBLE DISCONNECTS WHERE REQUIRED BY CODE OR THE KITCHEN DOCUMENTS. PROVIDE FUSIBLE DISCONNECTS FOR ALL WATER HEATERS AND ICE MACHINES. ALL ROOFTOP MOUNTED DISCONNECTS SHALL BE IN NEMA 3R ENCLOSURES.
5. ALL 120V, 20A RECEPTACLES SHALL BE GFI PROTECTED. IF FOOD SERVICE DRAWINGS CALL FOR A SINGLE RECEPTACLE, OR IF RECEPTACLE IS NOT ACCESSIBLE, PROVIDE A GFI BREAKER IN THE ELECTRICAL PANEL.
6. PROVIDE INTERWIRING BETWEEN HOODS FOR CONTROLS, LIGHTING, ETC. AS REQUIRED. REFER TO FOOD SERVICE DOCUMENTS.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS FOR SODA LINES AND CO2 LINES. REFER TO FOOD SERVICE DOCUMENTS.
8. PROVIDE RECESSED BACKBOX AND CONCEALED CONDUIT FOR ALL KITCHEN HOOD SUPPRESSION MANUAL PULL STATIONS. REFER TO FOOD SERVICE DOCUMENTS.
9. REFER TO FOOD SERVICE DOCUMENTS. WHERE KITCHEN EQUIPMENT IS NOTED AS BEING OWNER FURNISHED, ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT VOLTAGE, AMPERAGE, ETC. AND NOTIFY ENGINEER VIA RFI IF EQUIPMENT VOLTAGE, AMPERAGE, ETC. DIFFERS FROM WHAT IS INDICATED ON ELECTRICAL KITCHEN DOCUMENT.
10. ELECTRICAL CONTRACTOR SHALL INSTALL HEAT TRACE FOR FREEZER WASTE-PIPE SYSTEMS. CONNECT TO LOCAL 120V EVAPORATOR CIRCUIT. REFER TO FOOD SERVICE DOCUMENTS.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL FIELD WIRING (SHOWN DASHED) PER FOOD SERVICE DOCUMENTS. THIS REQUIREMENT INCLUDES WIRING FOR LINE AND CONTROL VOLTAGES. CONTROL WIRING TO INCLUDE CONNECTIONS BETWEEN CONTROL PANEL AND DAMPER SWITCH AS WELL AS WIRING TO FAN MOTOR CONTROL CIRCUIT. ALL WIRING SHALL BE IN CONDUIT. CONTRACTOR SHALL LABEL ALL JUNCTION BOXES FOR CONTROL WIRING AS SUCH.
12. ELECTRICAL CONTRACTOR SHALL INSTALL AND CONNECT ALL LIGHT FIXTURES FOR WALK-IN COOLERS AND FREEZERS. REFER TO FOOD SERVICE DOCUMENTS.
13. REFER TO FOOD SERVICE EQUIPMENT SCHEDULE ON SHEET E0.15 FOR ELECTRICAL WIRING AND DEVICES FOR FOOD SERVICE EQUIPMENT.



3 ELECTRICAL PARTIAL PLANS - MAIN ELECTRICAL SERVICE ROOM
SCALE: 1/4" = 1'-0"



2 ELECTRICAL PARTIAL PLANS - INSTITUTE KITCHEN
SCALE: 1/8" = 1'-0"



1 ELECTRICAL PARTIAL PLANS - LEVEL 1 INSTITUTE
SCALE: 1/8" = 1'-0"

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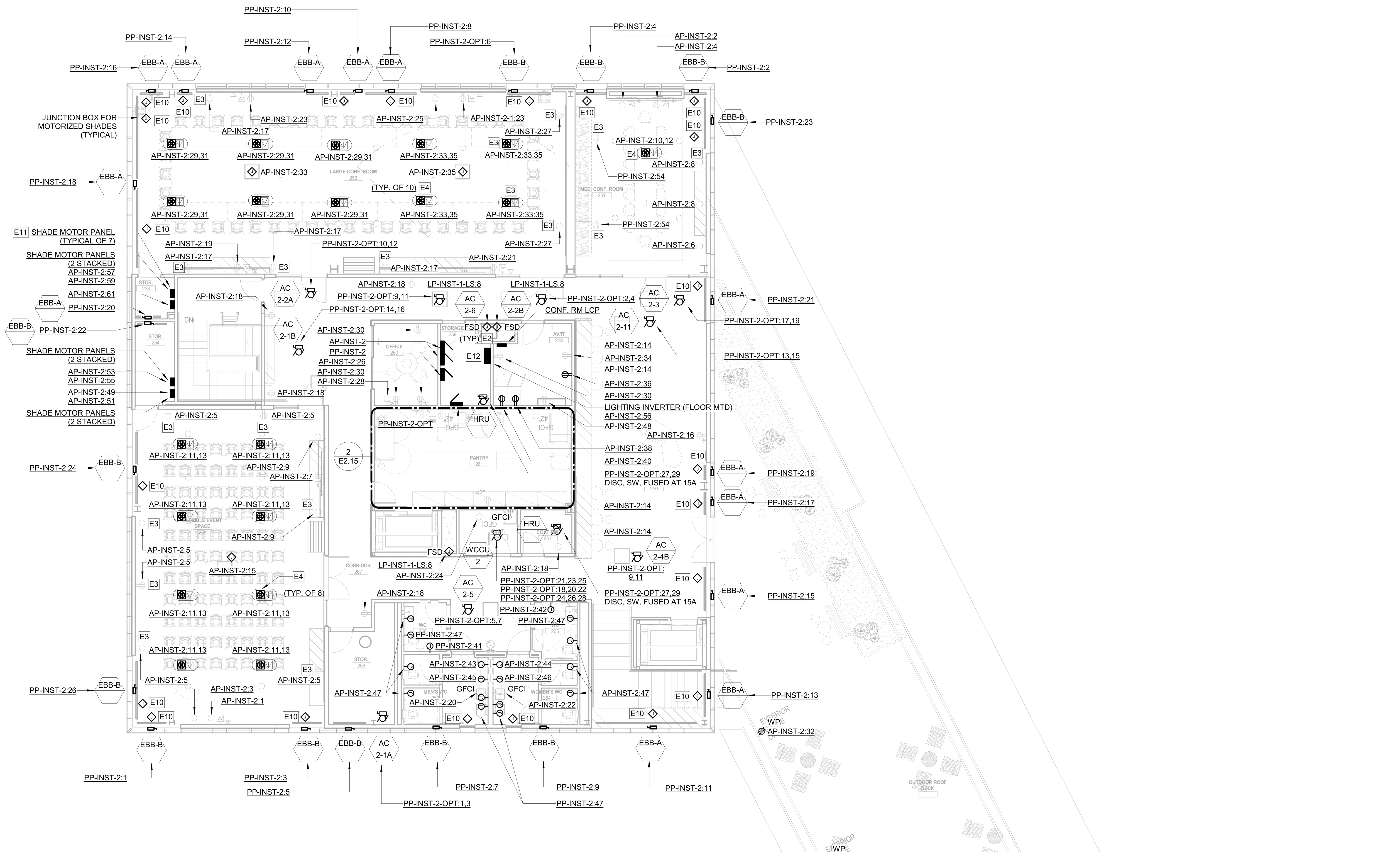
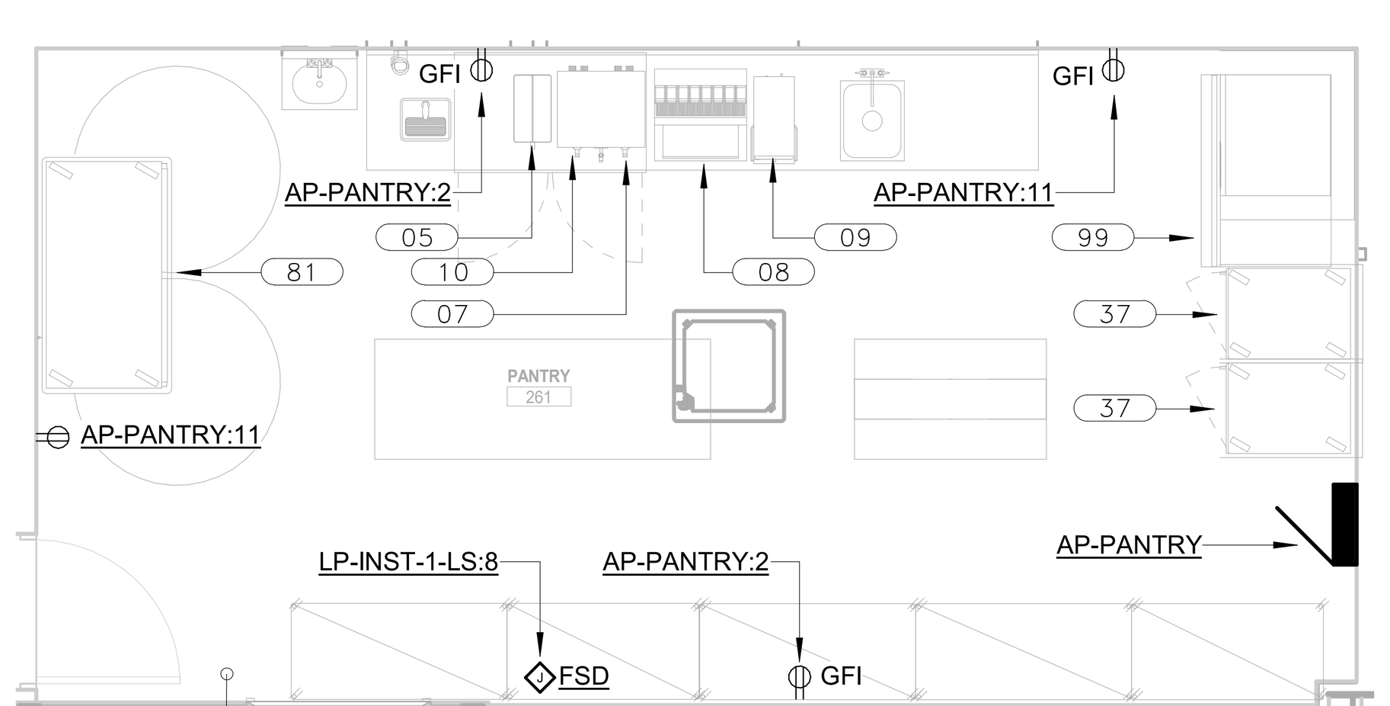
ELECTRICAL PARTIAL PLAN - LEVEL 1 INSTITUTE
SCALE: AS INDICATED

E2.14



1 ELECTRICAL PARTIAL PLANS - LEVEL 2 INSTITUTE

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



ALL KITCHEN EQUIPMENT ON NORMAL POWER WITHIN THIS AREA SHALL BE CONNECTED TO 120/208 PANEL AP-PANTRY. ALL KITCHEN EQUIPMENT ON EM POWER WITHIN THIS AREA SHALL BE CONNECTED TO 120/208 PANEL PP-EM-K. FOR ADDITIONAL INFORMATION REFER TO KITCHEN EQUIPMENT SCHEDULE.

2 ELECTRICAL PARTIAL PLANS - INSTITUTE PANTRY

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

KEYNOTES	
E2	POWER FOR FIRE/SMOKE AND SMOKE DAMPER. ROUTE POWER VIA FIRE ALARM RELAY. EXTEND POWER TO ALL RELAYS AND DAMPERS AS REQUIRED.
E3	RECEPTACLE SHALL BE AUTOMATICALLY CONTROLLED WITH LIGHTS IN THE SPACE, AND SHALL BE DE-ENERGIZED WHEN LIGHTS AUTO-MATICALLY TURN OFF.
E4	QUADRUPLEX RECEPTACLE SHALL BE PROVIDED WITH A BARRIER FOR SEPARATION OF CIRCUITS. THE SECOND CIRCUIT INDICATED SHALL BE AUTOMATICALLY CONTROLLED WITH LIGHTS IN THE SPACE, AND SHALL BE DE-ENERGIZED WHEN LIGHTS AUTO-MATICALLY TURN OFF.
E10	PROVIDE CONDUIT AND WIRING, AS REQUIRED, TO PROVIDE POWER AND CONTROLS CONNECTIONS TO MOTORIZED SHADES TO REMOTELY LOCATED SHADE MOTORIZED PANEL. PROVIDE CONDUIT AND WIRE, AS REQUIRED.
E11	PROVIDE CONTROL DEVICES, AS REQUIRED, TO INTERFACE THE SHADE MOTOR PANELS WITH THE LIGHTING CONTROL SYSTEM. COORDINATE CONTROL OF THE MOTORIZED SHADES THRU THE LIGHTING CONTROL SYSTEM WITH THE MOTORIZED SHADE AND LIGHTING CONTROL MANUFACTURERS.
E12	PROVIDE 120V, 1PH, 1000W FLOOR MOUNTED LIGHTING INVERTER CONTAINING (2) 10A CIRCUIT BREAKERS FOR PROVIDING EMERGENCY POWER TO OUTDOOR ROOF DECK RAIL LIGHTING. INVERTER SHALL BE ILLUMINATOR CM SERIES, AS MANUFACTURED BY MYERS, OR APPROVED EQUAL.

GENERAL NOTES:

1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES REFER TO ARCHITECTURAL DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS AND ADDITIONAL INFORMATION.
3. PROVIDE (1) NEUTRAL FOR EACH HOT AND (1) COMMON GROUND FOR EACH HOMERUN.
4. ALL MECHANICAL/PLUMBING EQUIPMENT IS SHOWN FOR ELECTRICAL CIRCUITING INFORMATION ONLY. EXACT LOCATIONS AND QUANTITIES OF MECHANICAL/PLUMBING EQUIPMENT SHALL BE COORDINATED WITH MECHANICAL/PLUMBING DRAWINGS.
5. EXACT LOCATIONS AND QUANTITIES OF FIRE/SMOKE DAMPERS SHALL BE COORDINATED WITH MECHANICAL DRAWINGS.
6. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECH PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
7. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY, AND GYP. WALLS.
8. REFER TO POWER ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
9. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
10. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. REFER TO MEP SCHEDULES FOR ADDITIONAL INFORMATION.

FOOD SERVICE NOTES:

1. PROVIDE SEALED PENETRATIONS PER ELECTRICAL CODE REQUIREMENTS FOR ALL CONDUIT PENETRATIONS THROUGH WALK-IN COOLER OR FREEZER WALLS.
2. CONTRACTOR SHALL REFER TO FOOD SERVICE EQUIPMENT CONNECTION DRAWINGS FOR ALL DEVICE AND HARDWIRE CONNECTION DIMENSIONS INCLUDING MOUNTING HEIGHTS. SUBMIT DIMENSIONED SHOP DRAWINGS FOR ALL ELECTRICAL WORK. IN ADDITION, UNLESS OTHERWISE NOTED, ALL ELECTRICAL RECEPTACLES SERVING ABOVE COUNTER EQUIPMENT OR MARKED AS "AC", INCLUDING POS'ES, PRINTERS, ETC., SHALL BE MOUNTED AT 54" A.F.F. VERIFY HEIGHT WITH THE ARCHITECT PRIOR TO INSTALLATION.
3. EQUIPMENT CONNECTIONS, VOLTAGES, AMPERAGES AND DEVICE RATINGS INDICATED ON THIS DRAWING ARE BASED UPON THE LATEST DRAWINGS, SPECIFICATIONS AND CUTSHEETS THAT COULD BE PROCURED FROM THE FOOD SERVICE CONSULTANT. ACTUAL PURCHASED EQUIPMENT MAY VARY FROM THE FOOD SERVICE CONSULTANT'S DOCUMENTS. PRIOR TO FINAL CONNECTION AND DEVICE INSTALLATION THE CONTRACTOR SHALL VERIFY THE CONNECTION REQUIREMENTS WITH THE MOST CURRENT FOOD SERVICE DOCUMENTS AND ACTUAL EQUIPMENT PURCHASED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER.
4. PROVIDE FUSIBLE DISCONNECTS WHERE REQUIRED BY CODE OR THE KITCHEN DOCUMENTS. PROVIDE FUSIBLE DISCONNECTS FOR ALL WATER HEATERS AND ICE MACHINES. ALL ROOFTOP MOUNTED DISCONNECTS SHALL BE IN NEMA 3R ENCLOSURES.
5. ALL 120V, 20A RECEPTACLES SHALL BE GFI PROTECTED. IF FOOD SERVICE DRAWINGS CALL FOR A SINGLE RECEPTACLE, OR IF RECEPTACLE IS NOT ACCESSIBLE, PROVIDE A GFI BREAKER IN THE ELECTRICAL PANEL.
6. PROVIDE INTERWIRING BETWEEN HOODS FOR CONTROLS, LIGHTING, ETC. AS REQUIRED. REFER TO FOOD SERVICE DOCUMENTS.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS FOR SODA LINES AND CO2 LINES. REFER TO FOOD SERVICE DOCUMENTS.
8. PROVIDE RECESSED BACKBOX AND CONCEALED CONDUIT FOR ALL KITCHEN HOOD SUPPRESSION MANUAL PULL STATIONS. REFER TO FOOD SERVICE DOCUMENTS.
9. REFER TO FOOD SERVICE DOCUMENTS. WHERE KITCHEN EQUIPMENT IS NOTED AS BEING OWNER FURNISHED, ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT VOLTAGE, AMPERAGE, ETC. AND NOTIFY ENGINEER VIA RFI IF EQUIPMENT VOLTAGE, AMPERAGE, ETC. DIFFERS FROM WHAT IS INDICATED ON ELECTRICAL KITCHEN DOCUMENT.
10. ELECTRICAL CONTRACTOR SHALL INSTALL HEAT TRACE FOR FREEZER WASTE-PIPE SYSTEMS. CONNECT TO LOCAL 120V EVAPORATOR CIRCUIT. REFER TO FOOD SERVICE DOCUMENTS.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL FIELD WIRING (SHOWN DASHED) PER FOOD SERVICE DOCUMENTS. THIS REQUIREMENT INCLUDES WIRING FOR LINE AND CONTROL VOLTAGES. CONTROL WIRING TO INCLUDE CONNECTIONS BETWEEN CONTROL PANEL AND DAMPER SWITCH AS WELL AS WIRING TO FAN MOTOR CONTROL CIRCUIT. ALL WIRING SHALL BE IN CONDUIT. CONTRACTOR SHALL LABEL ALL JUNCTION BOXES FOR CONTROL WIRING AS SUCH.
12. ELECTRICAL CONTRACTOR SHALL INSTALL AND CONNECT ALL LIGHT FIXTURES FOR WALK-IN COOLERS AND FREEZERS. REFER TO FOOD SERVICE DOCUMENTS.
13. REFER TO FOOD SERVICE EQUIPMENT SCHEDULE ON SHEET E0.15 FOR ELECTRICAL WIRING AND DEVICES FOR FOOD SERVICE EQUIPMENT.

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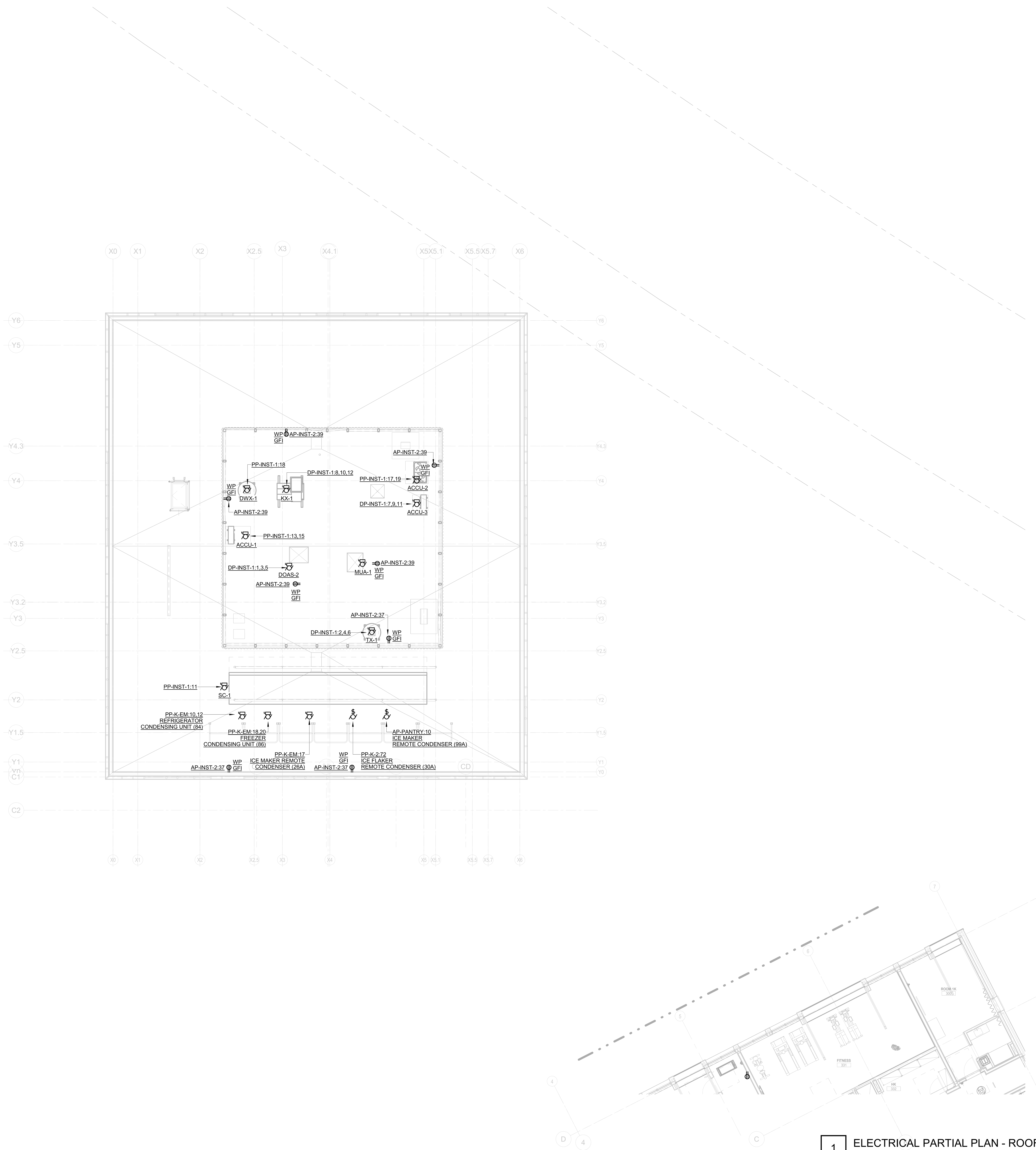
ELECTRICAL PARTIAL PLAN - LEVEL 2 INSTITUTE

SCALE: AS INDICATED

E2.15



1 ELECTRICAL PARTIAL PLAN - ROOF INSTITUTE

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

KEYNOTES

GENERAL NOTES:

1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES REFER TO ARCHITECTURAL DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS AND ADDITIONAL INFORMATION.
3. PROVIDE (1) NEUTRAL FOR EACH HOT AND (1) COMMON GROUND FOR EACH HOMERUN.
4. ALL MECHANICAL/PLUMBING EQUIPMENT IS SHOWN FOR ELECTRICAL CIRCUITING INFORMATION ONLY. EXACT LOCATIONS AND QUANTITIES OF MECHANICAL/PLUMBING EQUIPMENT SHALL BE COORDINATED WITH MECHANICAL/PLUMBING DRAWINGS.
5. EXACT LOCATIONS AND QUANTITIES OF FIRE/SMOKE DAMPERS SHALL BE COORDINATED WITH MECHANICAL DRAWINGS.
6. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECH PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
7. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY, AND GYP. WALLS.
8. REFER TO POWER ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
9. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
10. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. REFER TO MEP SCHEDULES FOR ADDITIONAL INFORMATION.

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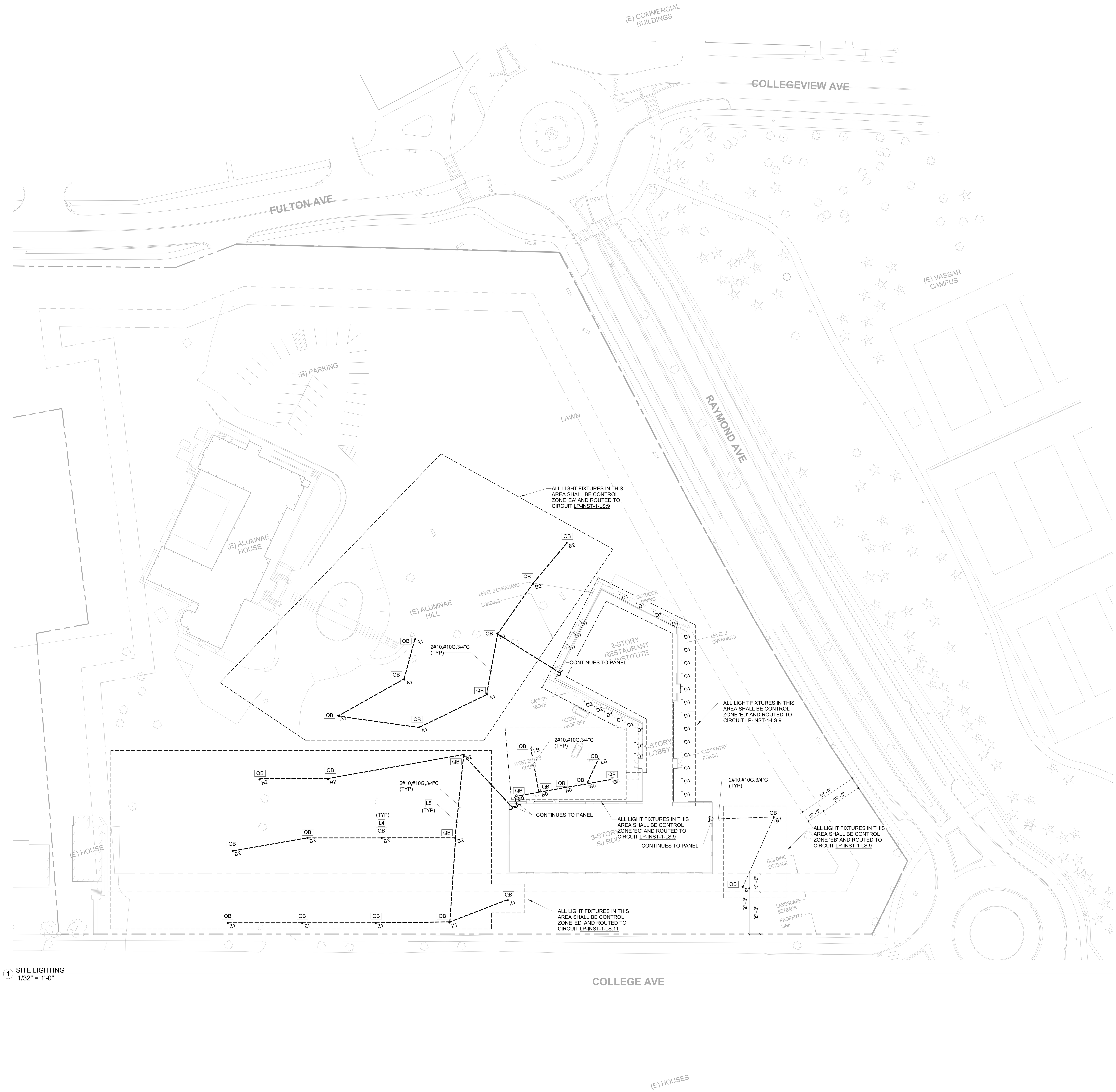
ELECTRICAL PARTIAL PLAN - ROOF INSTITUTE

SCALE: AS INDICATED

E2.16



1 SITE LIGHTING
1/32" = 1'-0"

GENERAL NOTES:

1. ALL EXTERIOR LIGHTING SHALL BE ROUTED VIA LIGHTING CONTROL SYSTEM.
2. EXACT LOCATIONS SHALL BE COORDINATED WITH SITE/CIVIL DRAWINGS AND FIELD CONDITIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL EXISTING UTILITIES WITH NEW WORK. THE CONTRACTOR SHALL USE ALL APPLICABLE LOCAL CODES TO VERIFY AND/OR RELOCATE EXISTING UTILITIES IN THE PROPOSED ROUTING OF NEW UTILITY SERVICE. CONTRACTOR SHALL INCLUDE ALL COSTS FOR SUCH SERVICE IN BID. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING FOR NEW UTILITY SERVICES TO AVOID DAMAGE TO EXISTING UTILITIES.
4. SCALE OF PLANS IS APPROXIMATE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LENGTH OF RUNS, ETC., PRIOR TO SUBMITTING BID, AND SHALL ALLOW FOR SUFFICIENT ADDITIONAL LENGTH OF CABLE IN BID TO ALLOW FOR UNFORESEEN BENDS, ETC.
5. PRIOR TO INSTALLATION OF WIRE, CONTRACTOR SHALL FIELD MEASURE LENGTHS OF CONDUITS USING TRUTAPE OR OTHER APPROVED METHOD. CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY TO DETERMINE LENGTH OF CABLE REQUIRED.
6. ALL CONDUIT ROUTINGS ARE SCHEMATIC AND SHALL BE COORDINATED WITH OWNER PRIOR TO COMMENCING INSTALLATION.
7. WARNING TAPE SHALL BE PLACED ABOVE ALL UNDERGROUND CONDUIT RUNS.
8. ALL CONDUITS SHOWN ON THIS PLAN ARE NEW UNLESS OTHERWISE NOTED.
9. COORDINATE ENTIRE SCOPE AND EXTENT OF WORK WITH GENERAL CONTRACTOR.
10. ALL EMPTY CONDUITS SHALL CONTAIN PULL WIRES.
11. CONTRACTOR SHALL LABEL BOTH ENDS OF NEW CONDUIT RUNS TO IDENTIFY CONDUIT STUB UPS.
12. ALL CONDUIT SHALL BE PVC. 90 DEGREE CONDUIT TURNS SHALL BE RIGID STEEL CONDUIT.
13. ALL UNDERGROUND CONDUIT JOINTS AND ENDS SHALL BE SEALED TO PREVENT WATER, GAS, AND RODENTS FROM ENTERING THE FACILITY.
14. ALL CONDUIT ENDS SHALL BE REAMED AND TERMINATED WITH A PROTECTIVE CABLE BUSHING.
15. CONDUIT ROUTING SHALL NOT EXCEED 270-DEGREES FOR THE SUM OF ELBOWS OF A PARTICULAR CONDUIT RUN, WITHOUT THE INSTALLATION OF AN APPROVED PULL-BOX OR HANDHOLE.
16. ALL CONDUITS WITH AN INSIDE DIAMETER LARGER THAN 2-INCHES SHALL HAVE A BEND RADIUS OF 10:1 OF THE INSIDE CONDUIT DIAMETER.
17. ALL CONDUITS WITH AN INSIDE DIAMETER EQUAL TO OR LESS THAN 2-INCHES SHALL HAVE A BEND RADIUS OF 6:1 OF THE INSIDE CONDUIT DIAMETER.
18. PULL AND SPLICE BOXES REQUIRED FOR PROPER CABLE INSTALLATION ARE NOT SHOWN. CONTRACTOR SHALL PROVIDE ALL BOXES REQUIRED FOR THE INSTALLATION AS SHOWN ON DRAWINGS. COORDINATE WITH ALL OTHER TRADES. REFER TO DETAIL, THIS SHEET.
19. COORDINATE ALL FINAL STUB UP LOCATIONS WITH CIVIL.
20. REFER TO LIGHT FIXTURE SCHEDULE FOR LIGHT FIXTURE INFORMATION.
21. CONTRACTOR SHALL COORDINATE VOLTAGES FOR ALL LIGHT FIXTURES PRIOR TO INSTALLATION AND PROVIDE FOR ALL LOW VOLTAGE TRANSFORMERS AS REQUIRED.
22. PROVIDE #10 SIZE WIRE FOR ALL BRANCH CIRCUITS EXCEEDING 75 FEET.
23. REFER TO E-200 SERIES FOR PANEL LOCATIONS.
24. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES	
L4	PROVIDE IN GROUND QUAZITE BOX OPEN BOTTOM AS REQUIRED FOR ROUTING OF CONDUT AND WIRE TO SITE LIGHT FIXTURES. EXACT QUANTITIES SHALL BE COORDINATED IN FIELD.
L5	PROPOSED ROUTING OF UNDERGROUND CONDUIT. COORDINATE EXACT ROUTING IN FIELD.

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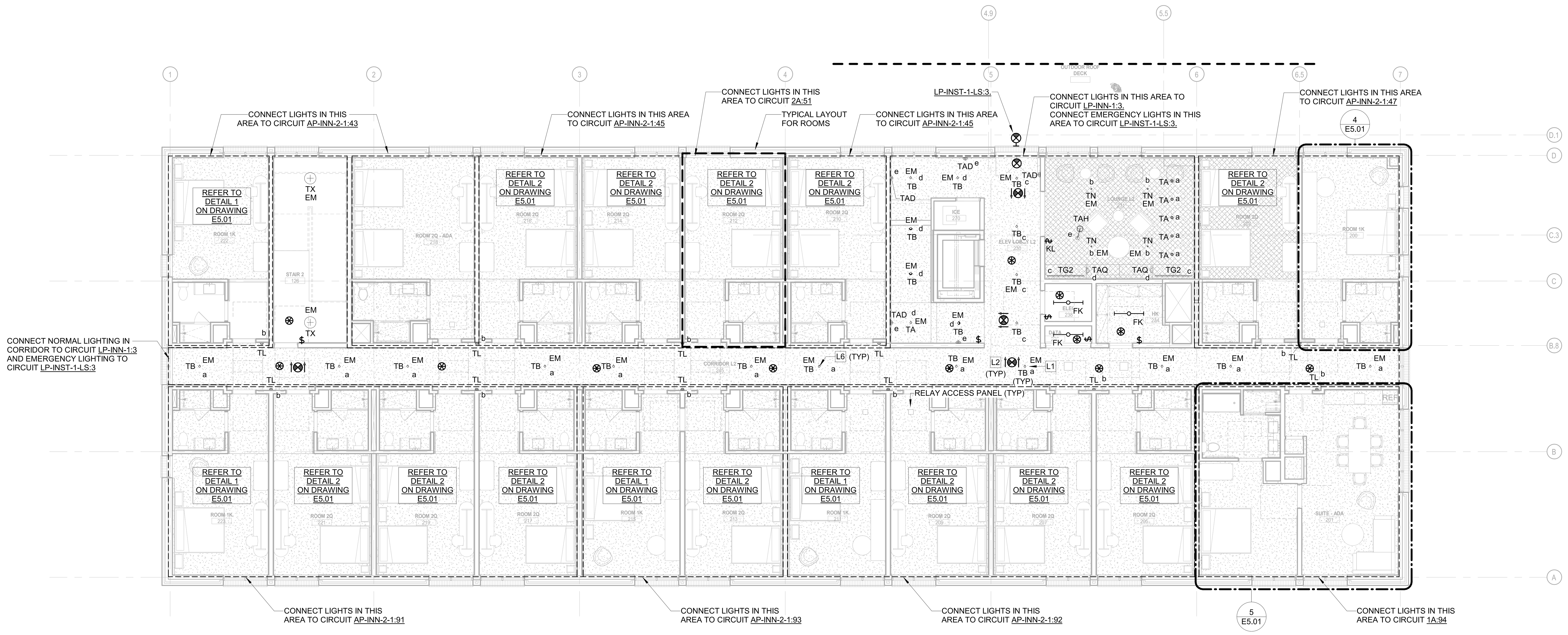
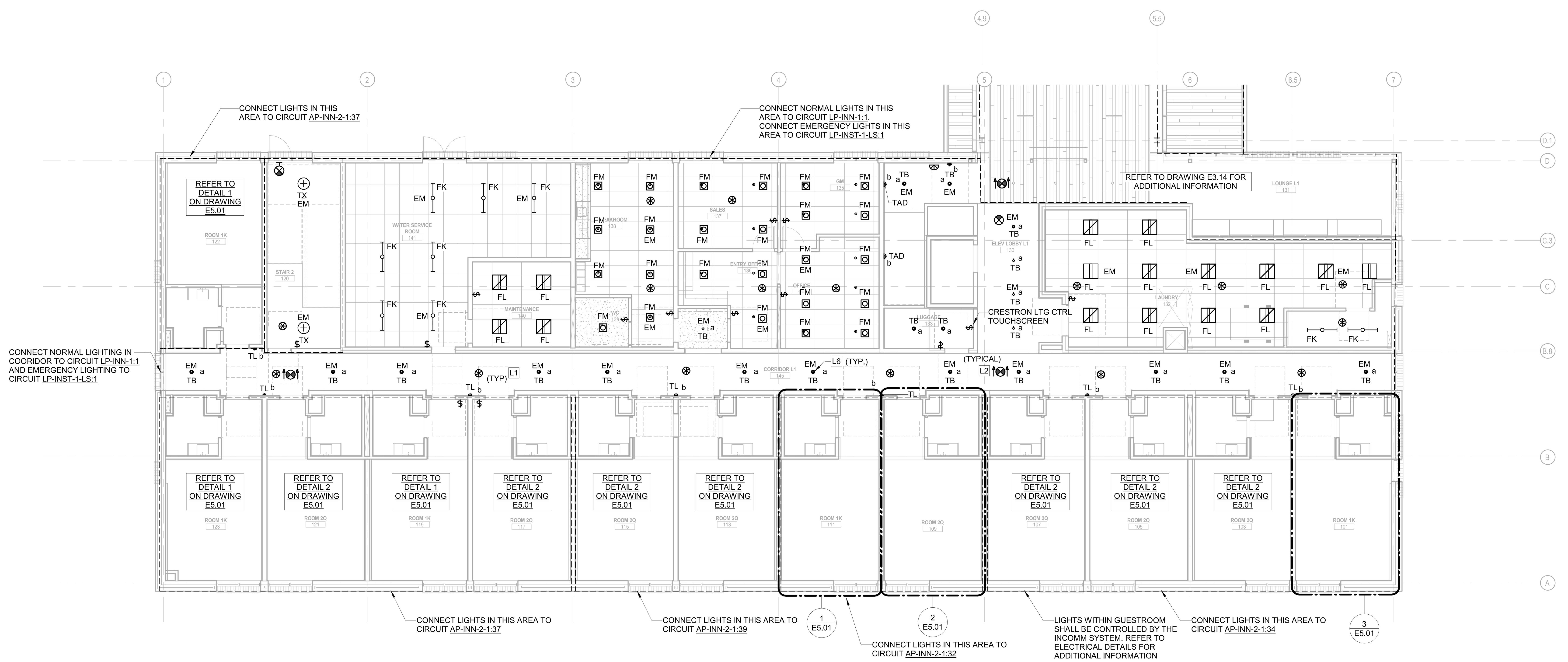
LIGHTING SITE PLAN
SCALE: AS INDICATED

E3.01



2 ELECTRICAL LIGHTING PLAN - LEVEL 2 INN

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



1 ELECTRICAL LIGHTING PLAN - LEVEL 1 INN

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

GENERAL NOTES:

1. REFER TO LIGHT FIXTURE SCHEDULE FOR LIGHT FIXTURE INFORMATION.
2. REFER TO DRAWING E0.15 FOR LIGHT FIXTURE SCHEDULE (FOR REFERENCE ONLY).
3. CONTRACTOR SHALL COORDINATE VOLTAGES FOR ALL LIGHT FIXTURES PRIOR TO INSTALLATION AND PROVIDE FOR ALL LOW VOLTAGE TRANSFORMERS AS REQUIRED.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS.
5. PROVIDE #10 SIZE WIRE FOR ALL BRANCH CIRCUITS EXCEEDING 75 FEET.
6. CONNECT SWITCHES TO LIGHTING FIXTURES. PROVIDE CONTROL OF FIXTURES AS INDICATED BY SWITCHING LETTERS.
7. ALL FLUORESCENT FIXTURES TO HAVE HIGH FREQUENCY ELECTRONIC BALLASTS OR FIXTURES SHALL BE TANDEM WIRED.
8. ALL SURFACE MOUNTED CONDUIT SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BEAMS AND COLUMNS. ALL CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. ALL SURFACE MOUNTED CONDUIT WHERE EXPOSED TO PUBLIC AREAS SHALL BE PAINTED. PAINT COLOR TO BE DETERMINED BY ARCHITECT.
9. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT FIXTURE LENGTHS FOR ALL CONTINUOUS LINEAR FIXTURES. FOR COVES, PROVIDE CONTINUOUS ILLUMINATION WITH 6" MAXIMUM DISTANCE BETWEEN END FIXTURE AND WALL.
10. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES IN MECHANICAL ROOMS TO PROVIDE UNIFORM LIGHT LEVELS. PROVIDE 40% OF ALL FIXTURES ON EMERGENCY POWER. PROVIDE MOUNTING HARDWARE AS REQUIRED.
11. REFER TO E2.XX SERIES FOR PANEL LOCATIONS.
12. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES	
L1	LIGHT FIXTURE MARKED WITH ‘EM’ SHALL BE DESIGNATED EMERGENCY.
L2	CONNECT EXIT SIGNS TO UNSWITCHED LEG OF CIRCUIT INDICATED ON PLAN/SERVING AREA.
L6	PROVIDE UL924 APPROVED MODULE / CONTROL DEVICE, AS REQUIRED, TO TURN ALL EMERGENCY LIGHTING FIXTURES TO FULL-ON UNDER NORMAL POWER LOSS CONDITIONS.

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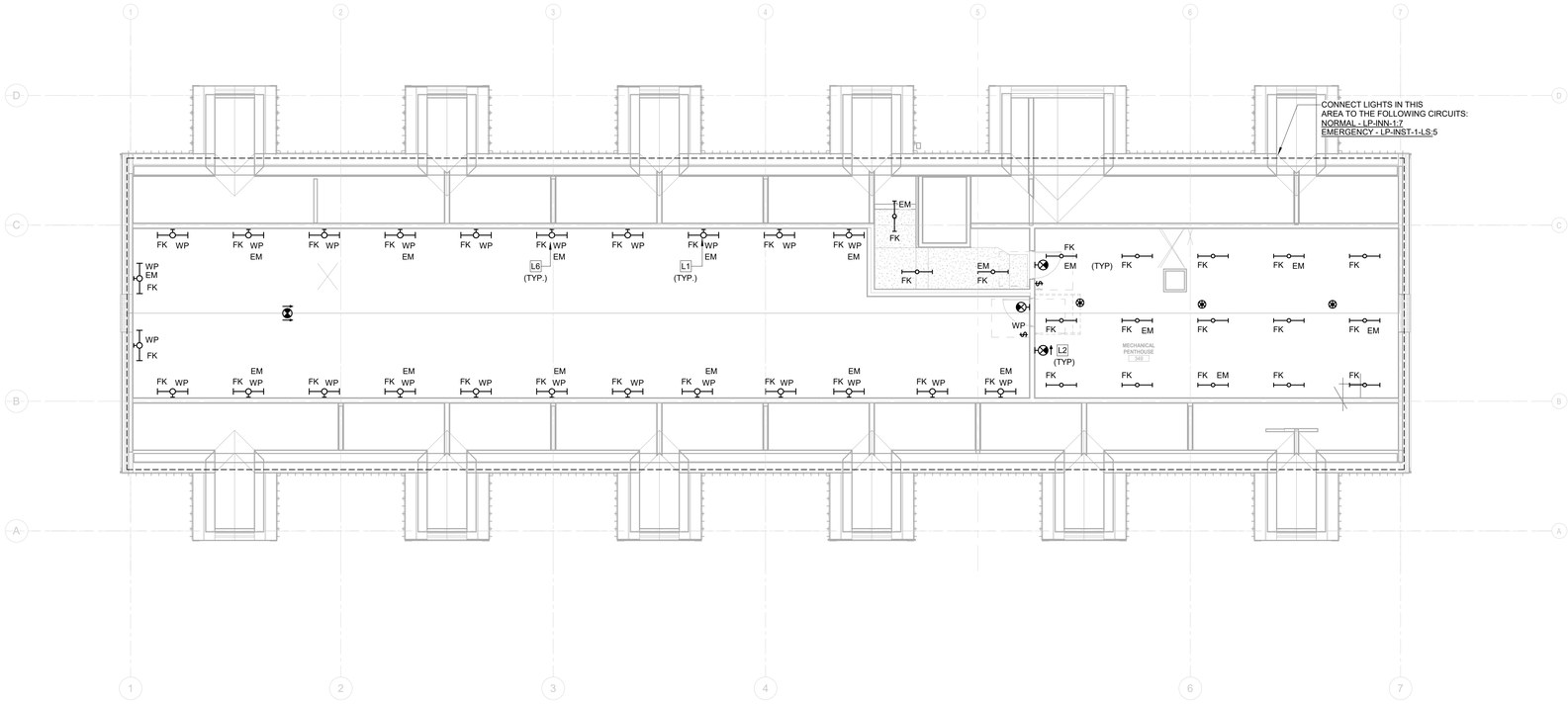
ELECTRICAL LIGHTING PARTIAL PLANS - LEVEL 1/2 INN

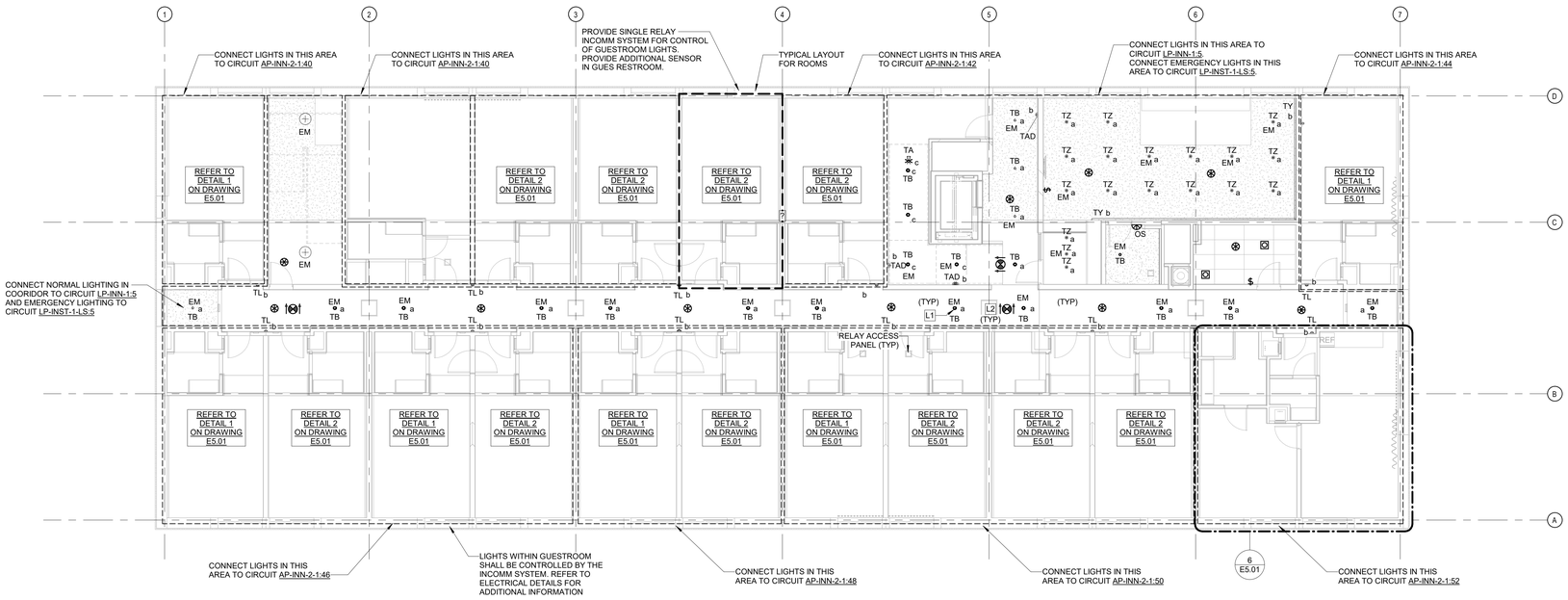
SCALE: AS INDICATED

E3.11



2 ELECTRICAL LIGHTING PLAN - MECH. PENTHOUSE

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



1 ELECTRICAL LIGHTING PLAN - LEVEL 3 INN

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

GENERAL NOTES:

1. REFER TO LIGHT FIXTURE SCHEDULE FOR LIGHT FIXTURE INFORMATION.
2. REFER TO DRAWING E0.15 FOR LIGHT FIXTURE SCHEDULE (FOR REFERENCE ONLY).
3. CONTRACTOR SHALL COORDINATE VOLTAGES FOR ALL LIGHT FIXTURES PRIOR TO INSTALLATION AND PROVIDE FOR ALL LOW VOLTAGE TRANSFORMERS AS REQUIRED.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS.
5. PROVIDE #10 SIZE WIRE FOR ALL BRANCH CIRCUITS EXCEEDING 75 FEET.
6. CONNECT SWITCHES TO LIGHTING FIXTURES. PROVIDE CONTROL OF FIXTURES AS INDICATED BY SWITCHING LETTERS.
7. ALL FLUORESCENT FIXTURES TO HAVE HIGH FREQUENCY ELECTRONIC BALLASTS OR FIXTURES SHALL BE TANDEM WIRED.
8. ALL SURFACE MOUNTED CONDUIT SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BEAMS AND COLUMNS. ALL CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. ALL SURFACE MOUNTED CONDUIT WHERE EXPOSED TO PUBLIC AREAS SHALL BE PAINTED. PAINT COLOR TO BE DETERMINED BY ARCHITECT.
9. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT FIXTURE LENGTHS FOR ALL CONTINUOUS LINEAR FIXTURES. FOR COVES, PROVIDE CONTINUOUS ILLUMINATION WITH 6" MAXIMUM DISTANCE BETWEEN END FIXTURE AND WALL.
10. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES IN MECHANICAL ROOMS TO PROVIDE UNIFORM LIGHT LEVELS. PROVIDE 40% OF ALL FIXTURES ON EMERGENCY POWER. PROVIDE MOUNTING HARDWARE AS REQUIRED.
11. REFER TO E2.XX SERIES FOR PANEL LOCATIONS.
12. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES

L1	LIGHT FIXTURE MARKED WITH 'EM' SHALL BE DESIGNATED EMERGENCY.
L2	CONNECT EXIT SIGNS TO UNSWITCHED LEG OF CIRCUIT INDICATED ON PLAN/SERVING AREA.
L6	PROVIDE UL924 APPROVED MODULE / CONTROL DEVICE, AS REQUIRED, TO TURN ALL EMERGENCY LIGHTING FIXTURES TO FULL-ON UNDER NORMAL POWER LOSS CONDITIONS.

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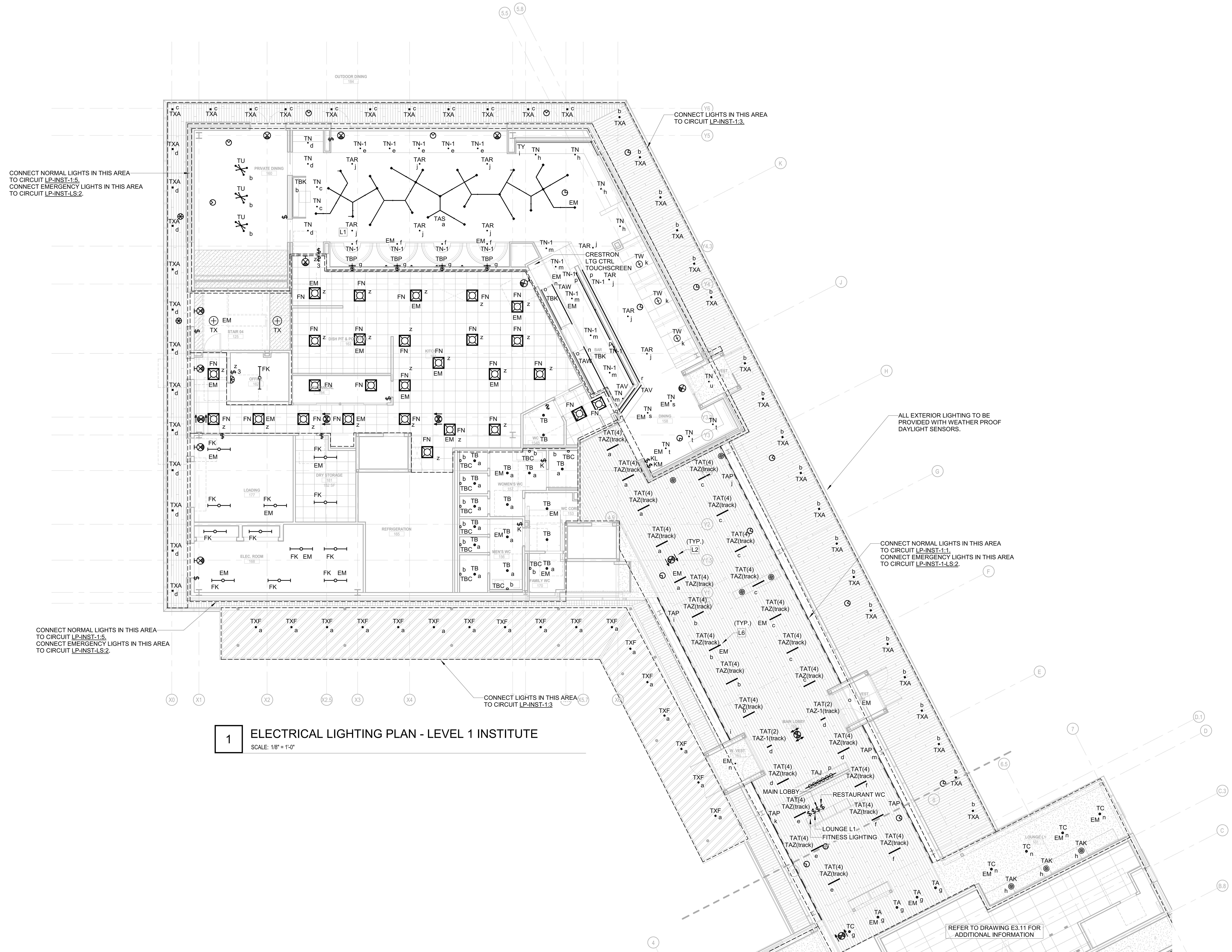
ELECTRICAL LIGHTING PARTIAL PLANS - LEVEL 3/PH INN

SCALE: AS INDICATED

E3.12



1 ELECTRICAL LIGHTING PLAN - LEVEL 1 INSTITUTE

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

GENERAL NOTES:

1. REFER TO LIGHT FIXTURE SCHEDULE FOR LIGHT FIXTURE INFORMATION.
2. REFER TO DRAWING E0.15 FOR LIGHT FIXTURE SCHEDULE (FOR REFERENCE ONLY).
3. CONTRACTOR SHALL COORDINATE VOLTAGES FOR ALL LIGHT FIXTURES PRIOR TO INSTALLATION AND PROVIDE FOR ALL LOW VOLTAGE TRANSFORMERS AS REQUIRED.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS.
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10. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES IN MECHANICAL ROOMS TO PROVIDE UNIFORM LIGHT LEVELS. PROVIDE 40% OF ALL FIXTURES ON EMERGENCY POWER. PROVIDE MOUNTING HARDWARE AS REQUIRED.
11. REFER TO E2.XX SERIES FOR PANEL LOCATIONS.
12. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES	
L1	LIGHT FIXTURE MARKED WITH 'EM' SHALL BE DESIGNATED EMERGENCY.
L2	CONNECT EXIT SIGNS TO UNSWITCHED LEG OF CIRCUIT INDICATED ON PLAN/SERVING AREA.
L6	PROVIDE UL924 APPROVED MODULE / CONTROL DEVICE, AS REQUIRED, TO TURN ALL EMERGENCY LIGHTING FIXTURES TO FULL-ON UNDER NORMAL POWER LOSS CONDITIONS.

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18010.00
COLLEGE AND RAYMOND AVENUE POUGHKEEPSIE, NY

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ISSUE DATES

07/30/2019 75% DESIGN DEVELOPMENT
09/03/2019 100% DESIGN DEVELOPMENT
12/13/2019 50% CONSTRUCTION DOCUMENTS
04/15/2020 ISSUED FOR PERMIT
05/01/2020 ISSUED FOR CONSTRUCTION
07/01/2020 GMP SET
12/18/2020 FINAL GMP SET
06/21/2021 BID SET

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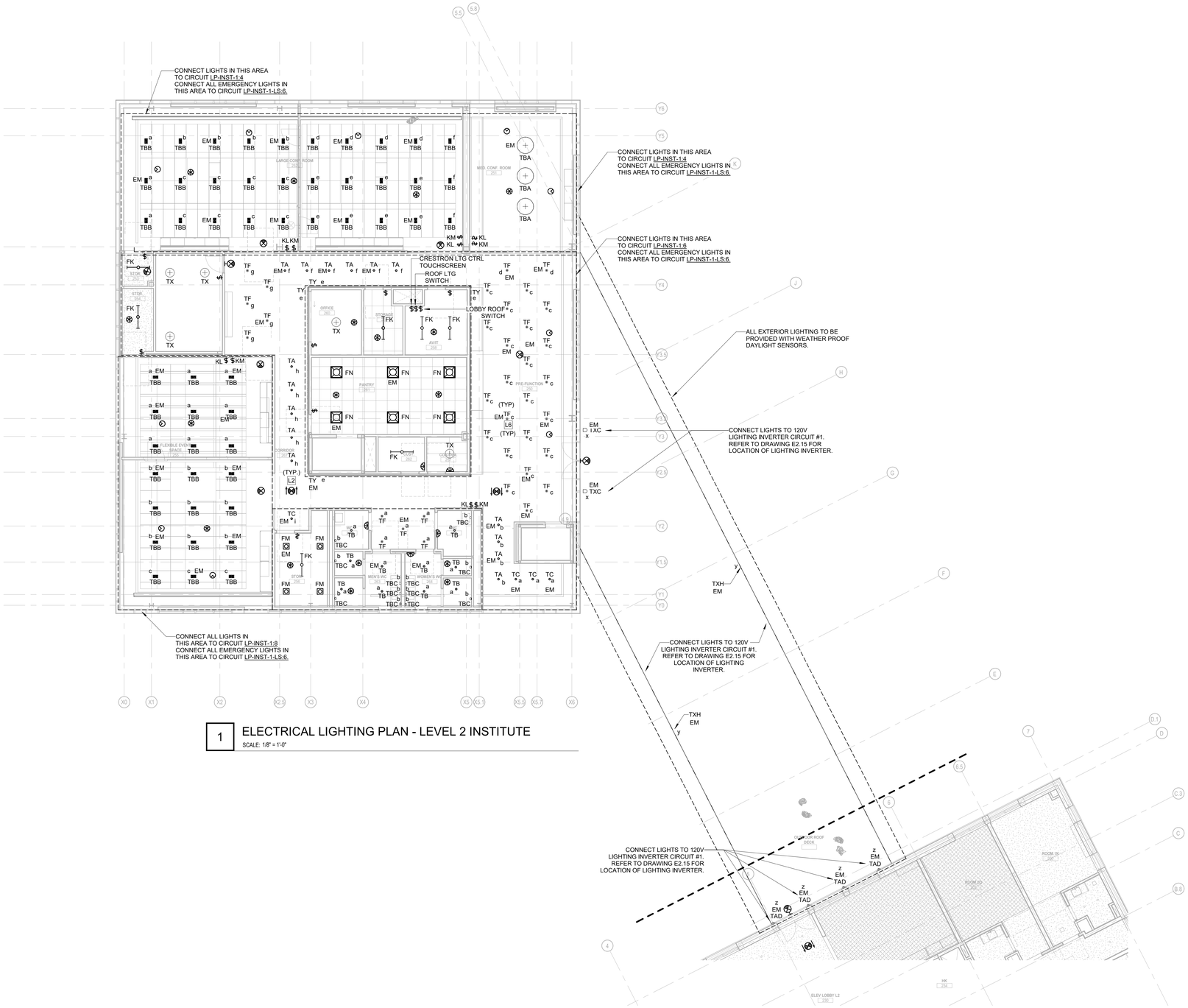
ELECTRICAL LIGHTING PARTIAL PLAN - LEVEL 1 INSTITUTE

SCALE: AS INDICATED

E3.14



1 ELECTRICAL LIGHTING PLAN - LEVEL 2 INSTITUTE

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

GENERAL NOTES:

1. REFER TO LIGHT FIXTURE SCHEDULE FOR LIGHT FIXTURE INFORMATION.
2. REFER TO DRAWING E0.15 FOR LIGHT FIXTURE SCHEDULE (FOR REFERENCE ONLY).
3. CONTRACTOR SHALL COORDINATE VOLTAGES FOR ALL LIGHT FIXTURES PRIOR TO INSTALLATION AND PROVIDE FOR ALL LOW VOLTAGE TRANSFORMERS AS REQUIRED.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS.
5. PROVIDE #10 SIZE WIRE FOR ALL BRANCH CIRCUITS EXCEEDING 75 FEET.
6. CONNECT SWITCHES TO LIGHTING FIXTURES. PROVIDE CONTROL OF FIXTURES AS INDICATED BY SWITCHING LETTERS.
7. ALL FLUORESCENT FIXTURES TO HAVE HIGH FREQUENCY ELECTRONIC BALLASTS OR FIXTURES SHALL BE TANDEM WIRED.
8. ALL SURFACE MOUNTED CONDUIT SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BEAMS AND COLUMNS. ALL CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. ALL SURFACE MOUNTED CONDUIT WHERE EXPOSED TO PUBLIC AREAS SHALL BE PAINTED. PAINT COLOR TO BE DETERMINED BY ARCHITECT.
9. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT FIXTURE LENGTHS FOR ALL CONTINUOUS LINEAR FIXTURES. FOR COVES, PROVIDE CONTINUOUS ILLUMINATION WITH 6" MAXIMUM DISTANCE BETWEEN END FIXTURE AND WALL.
10. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES IN MECHANICAL ROOMS TO PROVIDE UNIFORM LIGHT LEVELS. PROVIDE 40% OF ALL FIXTURES ON EMERGENCY POWER. PROVIDE MOUNTING HARDWARE AS REQUIRED.
11. REFER TO E2.XX SERIES FOR PANEL LOCATIONS.
12. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES	
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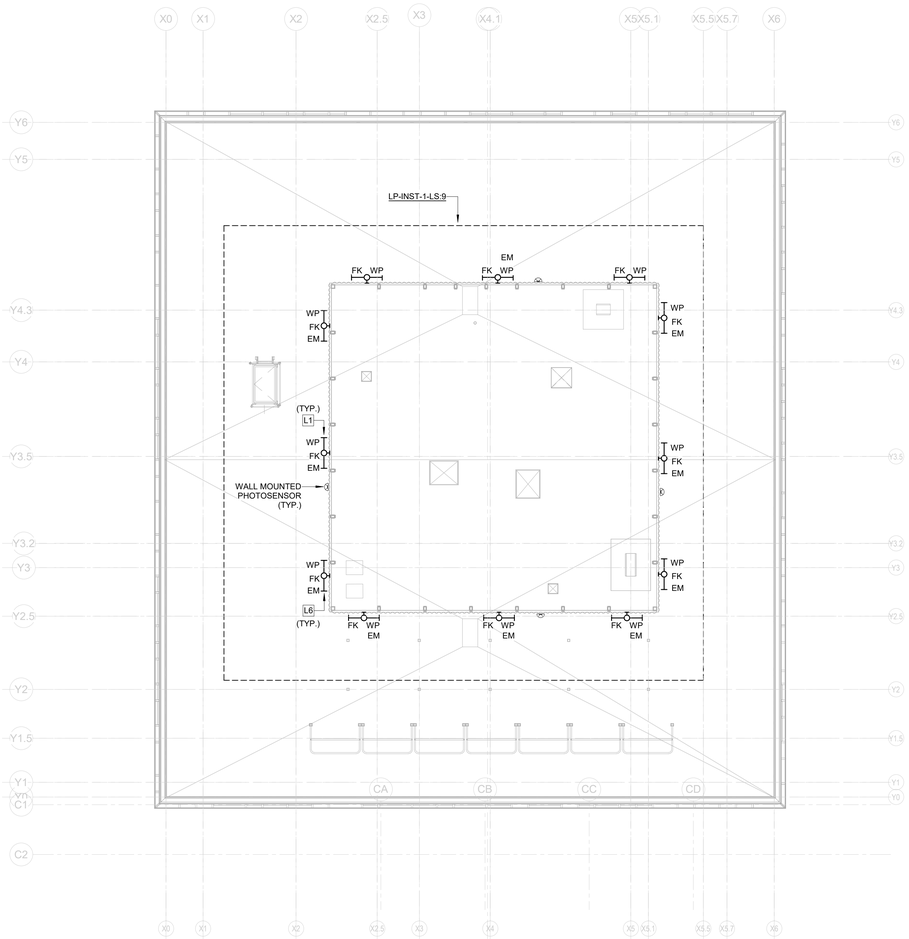
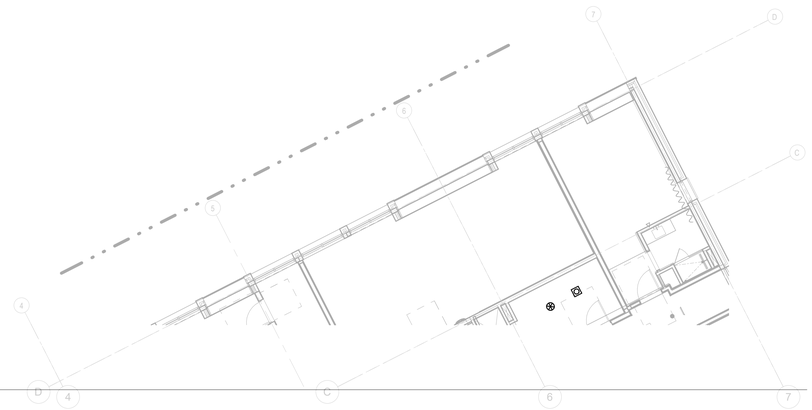
ELECTRICAL LIGHTING PARTIAL PLAN - LEVEL 2 INSTITUTE

SCALE: AS INDICATED

E3.15



1 ELECTRICAL LIGHTING PARTIAL PLAN - ROOF INSTITUTE
1/8" = 1'-0"



GENERAL NOTES:

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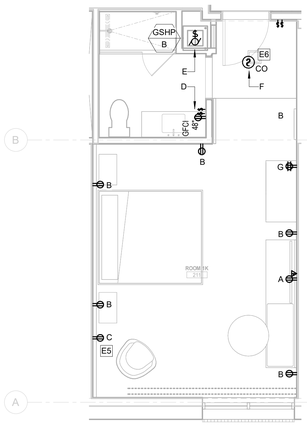
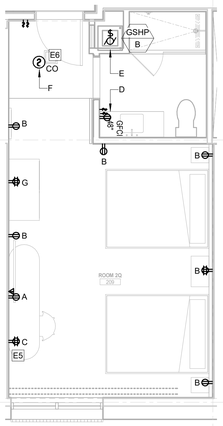
ELECTRICAL LIGHTING PARTIAL PLAN - ROOF INSTITUTE
SCALE: AS INDICATED

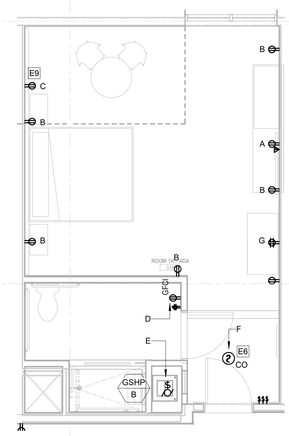
E3.16



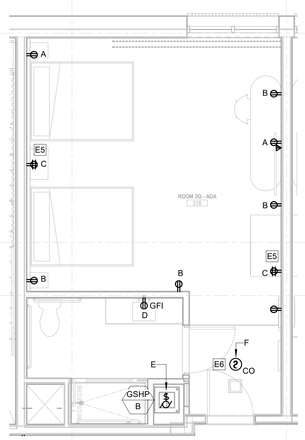
1 ELECTRICAL PARTIAL PLANS - TYPICAL GUESTROOM POWER DETAIL I
1/4" = 1'-0"



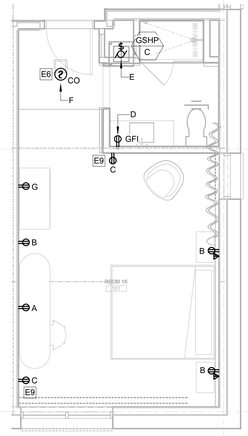
2 ELECTRICAL PARTIAL PLANS - TYPICAL GUESTROOM POWER DETAIL II
1/4" = 1'-0"



3 ELECTRICAL PARTIAL PLANS - TYPICAL GUESTROOM POWER DETAIL III
1/4" = 1'-0"



4 ELECTRICAL PARTIAL PLANS - TYPICAL GUESTROOM POWER DETAIL IV
1/4" = 1'-0"



5 ELECTRICAL PARTIAL PLANS - TYPICAL GUESTROOM POWER DETAIL V
1/4" = 1'-0"

6 ELECTRICAL PARTIAL PLANS - TYPICAL GUESTROOM POWER DETAIL VI
1/4" = 1'-0"

7 ELECTRICAL PARTIAL PLANS - TYPICAL GUESTROOM POWER DETAIL VII
1/4" = 1'-0"

8 ELECTRICAL PARTIAL PLANS - TYPICAL GUESTROOM POWER DETAIL VIII
1/4" = 1'-0"

KEYNOTES	
E5	QUADRUPLEX RECEPTACLE SHALL BE PROVIDED WITH A BARRIER FOR SEPARATION OF CIRCUITS. THE SECOND CIRCUIT INDICATED SHALL BE CONTROLLED WITH LIGHTS IN THE SPACE.
E6	PROVIDE BATTERY BACKUP FOR ALL SMOKE ALARMS. MULTIPLE SMOKE ALARMS WITHIN A SIGNLE UNIT SHALL BE INTERCONNECTED.
E9	DUPLEX RECEPTACLE SHALL BE SEPARATED TO PROVIDE EACH SIMPLEX RECEPTACLE ON DIFFERENT CIRCUITS. THE SECOND CIRCUIT INDICATED SHALL BE CONTROLLED WITH LIGHTS IN THE SPACE.

GENERAL NOTES:

1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES REFER TO ARCHITECTURAL DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS AND ADDITIONAL INFORMATION.
3. PROVIDE (1) NEUTRAL FOR EACH HOT AND (1) COMMON GROUND FOR EACH HOMERUN.
4. ALL MECHANICAL/PLUMBING EQUIPMENT IS SHOWN FOR ELECTRICAL CIRCUITING INFORMATION ONLY. EXACT LOCATIONS AND QUANTITIES OF MECHANICAL/PLUMBING EQUIPMENT SHALL BE COORDINATED WITH MECHANICAL/PLUMBING DRAWINGS.
5. EXACT LOCATIONS AND QUANTITIES OF FIRE/SMOKE DAMPERS SHALL BE COORDINATED WITH MECHANICAL DRAWINGS.
6. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECH PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.
7. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY, AND GYP. WALLS.
8. REFER TO POWER ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
9. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
10. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. REFER TO MEP SCHEDULES FOR ADDITIONAL INFORMATION.

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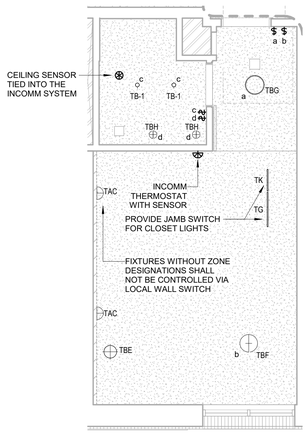
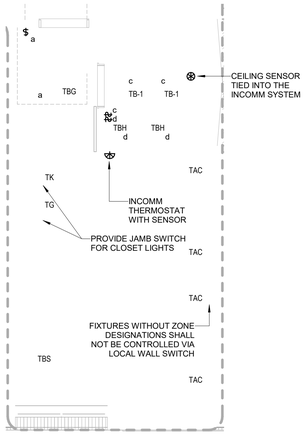
ELECTRICAL ENLARGED GUESTROOM PARTIAL POWER PLANS
SCALE: AS INDICATED

E5.00



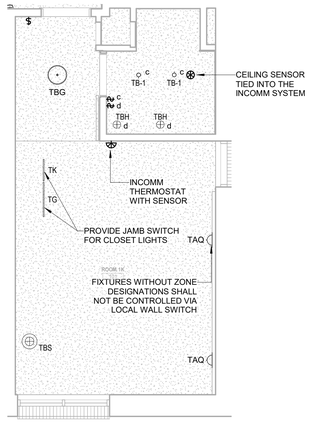
1 ELECTRICAL PARTIAL PLAN - TYPICAL GUESTROOM LIGHTING DETAIL I

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



2 ELECTRICAL PARTIAL PLAN - TYPICAL GUESTROOM LIGHTING DETAIL II

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



3 ELECTRICAL PARTIAL PLAN - TYPICAL GUESTROOM LIGHTING DETAIL III

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

4 ELECTRICAL PARTIAL PLAN - TYPICAL GUESTROOM LIGHTING DETAIL IV

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

5 ELECTRICAL PARTIAL PLAN - TYPICAL GUESTROOM LIGHTING DETAIL V

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

6 ELECTRICAL PARTIAL PLAN - TYPICAL GUESTROOM LIGHTING DETAIL VI

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

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11. REFER TO E2.XX SERIES FOR PANEL LOCATIONS.
12. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES

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~~ELECTRICAL~~
ENLARGED GUESTROOM PARTIAL LIGHTING PLANS

SCALE: AS INDICATED

E5.01

TRANSFORMER TABLE - 480V PRIMARY - 208/120V, SECONDARY								
KVA	FL AMPS	BKR SIZE	FDR	TRANSFORMER GROUNDING ELECTRODE (3)		FL AMPS	BKR SIZE	FDR
3PH	480V	(1)	(2)	WIRE AWG	CONDUIT IN	208V	(1)	(2)
15	18	30	F2	8	3/4	41.7	50	FA4A
30	36.1	50	F4	6	3/4	83.3	100	FA8A
45	54.1	70	F5	6	3/4	124.9	150	FA9
75	90.2	125	F9	2	3/4	208.2	250	FA13A
112.5	135.3	175	F10	1/0	1	312.3	400	FA16A
150	180.4	225	F12	1/0	1	416.4	500	FA18A
225	270.6	350	F15	2/0	1	625.5	800	FA21A
300	360.8	450	F17	3/0	1	832.7	1000	FA22A
500	601.4	800	F21	250	1	1387.9	1600	FA24A

1 USE DEVICE TYPES INDICATED ON SINGLE LINE DIAGRAM.
2 REFERENCE FEEDER TABLE FOR FEEDER SIZE
3 PROVIDE COPPER GROUNDING ELECTRODE

FEEDER TABLE - CONDUCTORS						
			COPPER			COPPER
Bkr/OCPD	TAG	Sets	FDR/PIPE [3W]	TAG	Sets	FDR/PIPE [4 W]
20	F1	1	(3#12,#12G) 3/4"C	FA1	1	(4#12,#12G) 3/4"C
30	F2	1	(3#10,#10G) 3/4"C	FA2	1	(4#10,#10G) 3/4"C
40	F3	1	(3#8,#10G) 3/4"C	FA3	1	(4#8,#10G) 1"C
50	F4	1	(3#6,#10G) 1"C	FA4	1	(4#6,#10G) 1"C
50	-	-	-	FA4A	1	(4#6,#8G) 1-1/4"C
50				FA4D	1	(5#6,#8G) 1-1/4"C
60	F5	1	(3#4,#8G) 1-1/4"C	FA5	1	(4#4,#8G) 1-1/4"C
70	F5	1	(3#4,#8G) 1-1/4"C	FA5	1	(4#4,#8G) 1-1/4"C
80	F6	1	(3#3,#8G) 1-1/4"C	FA6	1	(4#3,#8G) 1-1/4"C
90	F7	1	(3#2,#8G) 1-1/4"C	FA7	1	(4#2,#8G) 1-1/2"C
100	F8	1	(3#1,#8G) 1-1/2"C	FA8	1	(4#1,#8G) 2"C
100	-	-	-	FA8A	1	(4#1,#6G) 2"C
100				FA8D	1	(5#1,#6G) 2"C
110	F8A	1	(3#1,#6G) 1-1/2"C	-	-	-
125	F9	1	(3#1/0,#6G) 1-1/2"C	FA9	1	(4#1/0,#6G) 2"C
150	F9	1	(3#1/0,#6G) 1-1/2"C	FA9	1	(4#1/0,#6G) 2"C
175	F10	1	(3#2/0,#6G) 2"C	FA10	1	(4#2/0,#6G) 2"C
200	F11	1	(3#3/0,#6G) 2"C	FA11	1	(4#3/0,#6G) 2-1/2"C
225	F12	1	(3#4/0,#4G) 2-1/2"C	FA12	1	(4#4/0,#4G) 2-1/2"C
250	F13	1	(3#250,#4G) 2-1/2"C	FA13	1	(4#250,#4G) 3"C
250	-	-	-	FA13A	1	(4#250,#2G) 3"C
250				FA13D	1	(5#250,#2G) 3"C
300	F14	1	(3#350,#4G) 3"C	FA14	1	(4#350,#4G) 3"C
350	F15	1	(3#500,#3G) 3"C	FA15	1	(4#500,#3G) 3-1/2"C
400	F16	2	(3#3/0,#3G) 2"C	FA16	2	(4#3/0,#3G) 2-1/2"C
400	-	-	-	FA16A	2	(4#3/0,#1/0G) 2-1/2"C
400	F16B	1	(3#500,#3G) 3"C	FA16B	1	(4#500,#3G) 3-1/2"C
400	-	-	-	FA16C	1	(4#600,#3G) 4"C
400	-	-	-	FA16D	2	(5#3/0,#1/0G) 2-1/2"C
450	F17	2	(3#4/0,#2G) 2-1/2"C	FA17	2	(4#4/0,#2G) 2-1/2"C
500	F18	2	(3#250,#2G) 2-1/2"C	FA18	2	(4#250,#2G) 3"C
500	-	-	-	FA18A	2	(4#250,#1/0G) 3"C
500				FA18D	2	(5#250,#1/0G) 3"C
600	F19	2	(3#350,#1G) 3"C	FA19	2	(4#350,#1G) 3"C
700	F20	2	(3#500,#1/0G) 3"C	FA20	2	(4#500,#1/0G) 3-1/2"C
750	F20	2	(3#500,#1/0G) 3"C	-	-	-
800	F21	3	(3#300,#1/0G) 3"C	FA21	3	(4#300,#1/0G) 3"C
800	-	-	-	FA21A	3	(4#300,#2/0G) 3"C
800	F21C	2	(3#600,#1/0G) 3-1/2"C	FA21C	2	(4#600,#1/0G) 4"C
800				FA21D	3	(5#300,#2/0G) 3"C
1000	F22	3	(3#400,#2/0G) 3"C	FA22	3	(4#400,#2/0G) 3-1/2"C
1000	-	-	-	FA22A	3	(4#400,#3/0G) 3-1/2"C
1000				FA22D	3	(5#400,#3/0G) 3-1/2"C
1200	F23	4	(3#350,#3/0G) 3"C	FA23	4	(4#350,#3/0G) 3"C
1200	F23C	3	(3#600,#3/0G) 3-1/2"C	FA23C	3	(4#600,#3/0G) 4"C
1600	F24	5	(3#400,#4/0G) 3"C	FA24	5	(4#400,#4/0G) 3-1/2"C
1600	-	-	-	FA24A	5	(4#400,#250G) 3-1/2"C
1600	F24C	4	(3#600,#4/0G) 3-1/2"C	FA24C	4	(4#600,#4/0G) 4"C
1600				FA24D	5	(5#400,#250G) 3-1/2"C
2000	F25	6	(3#400,#250G) 3"C	FA25	6	(4#400,#250G) 3-1/2"C
2000	F25C	5	(3#600,#250G) 4"C	FA25C	5	(4#600,#250G) 4"C
2500	F26	7	(3#500,#350G) 3-1/2"C	FA26	7	(4#500,#350G) 3-1/2"C
2500	-	-	-	FA26A	7	(4#500,#500G) 4"C
2500	F26C	6	(3#600,#350G) 4"C	FA26C	6	(4#600,#350G) 4"C
3000	F27	8	(3#500,#400G) 3-1/2"C	FA27	8	(4#500,#400G) 4"C
3500	F28	10	(3#500,#500G) 3-1/2"C	FA28	10	(4#500,#500G) 4"C
3500	F28C	9	(3#600,#500G) 4"C	FA28C	9	(4#600,#500G) 4"C
4000	F29	11	(3#500,#500G) 4"C	FA29	11	(4#500,#500G) 4"C
4000	F29C	10	(3#600,#500G) 4"C	FA29C	10	(4#600,#500G) 4"C
	ALL CONDUCTORS ARE WITH THHN/THWN WIRE WITH 60DEG TERMINATIONS UP TO #1AWG AND 75DEG FOR LARGER SIZES.					
	FEEDERS ENDING IN "D" CONTAIN DOUBLE NEUTRAL.					

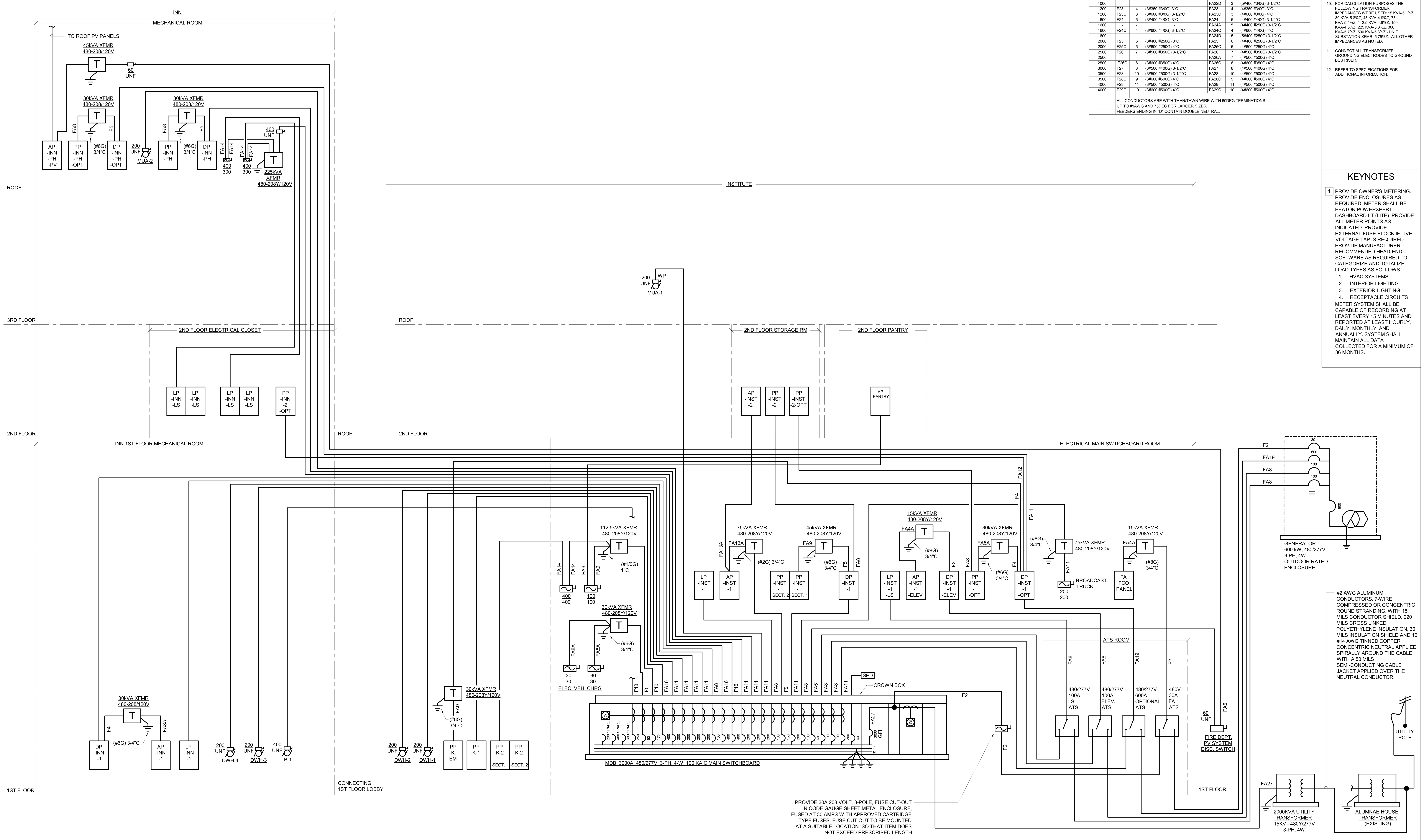
GENERAL NOTES

1. NOT ALL RISER OFFSETS OR SUPPORT BOXES ARE SHOWN. CONTRACTOR SHALL PROVIDE OFFSETS AND SUPPORT BOXES AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR DETERMINING FIELD CONDITIONS AND INCLUDING ALL NECESSARY OFFSET COSTS IN THE BID PRICE.
2. HORIZONTAL CONDUIT SEGMENTS ARE SHOWN ON THIS DRAWING FOR REFERENCE ONLY. REFER TO PLAN DRAWINGS FOR ADDITIONAL REQUIREMENTS SUCH AS ROUTING.
3. CONTRACTOR SHALL ENSURE THAT ALL WALL AND SLAB PENETRATIONS ARE FIRE STOPPED IN ORDER TO MAINTAIN AS A MINIMUM THE FIRE RATING OF THE WALL OR SLAB. REFERENCE ARCHITECTURAL AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
4. ALL CONDUIT RUNS SHALL BE RUN PERPENDICULAR AND PARALLEL TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT RUNS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE CABLE SUPPORT BOXES AS REQUIRED.
6. ALL FEEDERS SHALL BE COPPER (75°C). REFER TO FEEDER SCHEDULE ON THIS DRAWING.
7. CONTRACTOR TO NOTE FEEDER SIZES AND PROVIDE SUITABLE LUGS FOR TERMINATION FOR ALL NEW AND EXISTING EQUIPMENT. MODIFY AS REQUIRED.
8. ALL MECHANICAL PANELBOARDS SHALL BE POWER TYPE PANELS.
9. PROVIDE FULL BUSSING FOR ALL SPACES INDICATED ON PANEL BOARDS AND DISTRIBUTION BOARDS.
10. FOR CALCULATION PURPOSES THE FOLLOWING TRANSFORMER IMPEDANCES WERE USED: 15 KVA-5.1%Z, 30 KVA-5.3%Z, 45 KVA-4.9%Z, 75 KVA-5.4%Z, 112.5 KVA-4.9%Z, 150 KVA-4.5%Z, 225 KVA-5.3%Z, 300 KVA-5.7%Z, 500 KVA-5.8%Z \ UNIT SUBSTATION XFMR: 5.75%Z. ALL OTHER IMPEDANCES AS NOTED.
11. CONNECT ALL TRANSFORMER GROUNDING ELECTRODES TO GROUND BUS RISER.
12. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES

1 PROVIDE OWNER'S METERING. PROVIDE ENCLOSURES AS REQUIRED. METER SHALL BE EEATON POWERXPERT DASHBOARD LT (LITE). PROVIDE ALL METER POINTS AS INDICATED. PROVIDE EXTERNAL FUSE BLOCK IF LIVE VOLTAGE TAP IS REQUIRED. PROVIDE MANUFACTURER RECOMMENDED HEAD-END SOFTWARE AS REQUIRED TO CATEGORIZE AND TOTALIZE LOAD TYPES AS FOLLOWS:
1. HVAC SYSTEMS
2. INTERIOR LIGHTING
3. EXTERIOR LIGHTING
4. RECEPTACLE CIRCUITS

METER SYSTEM SHALL BE CAPABLE OF RECORDING AT LEAST EVERY 15 MINUTES AND REPORTED AT LEAST HOURLY, DAILY, MONTHLY, AND ANNUALLY. SYSTEM SHALL MAINTAIN ALL DATA COLLECTED FOR A MINIMUM OF 36 MONTHS.



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07/01/2020 GMP SET
12/18/2020 FINAL GMP SET
06/21/2021 BID SET

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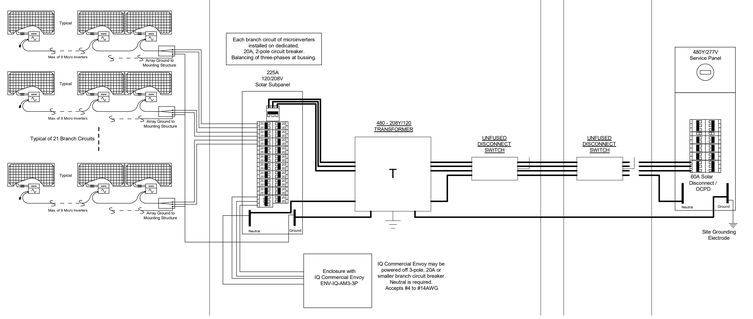
ELECTRICAL ONE-LINES I
SCALE: AS INDICATED

E6.00



GENERAL NOTES:
1. DETAIL SHOWN FOR DIAGRAMMATIC PURPOSES ONLY.
2. FOR ADDITIONAL INFORMATION REGARDING THE PV SYSTEM, CONTACT SUNDOG SOLAR (STEVEN MAMMOSER: 518-312-7870; SUNDOGSTEVEN@GMAIL.COM).

C PHOTOVOLTAIC SYSTEM DETAIL

NO SCALE

OVERVIEW OF THE SNAPRACK ULTRA RAIL SYSTEM INSTALLED ON A TYPICAL ROOF

REFER TO SPECIFIC "ATTACHMENT DETAIL" FOR DETAILS ON ATTACHING AND WATERPROOFING THE VARIOUS SNAPRACK ROOF ATTACHMENT PRODUCTS

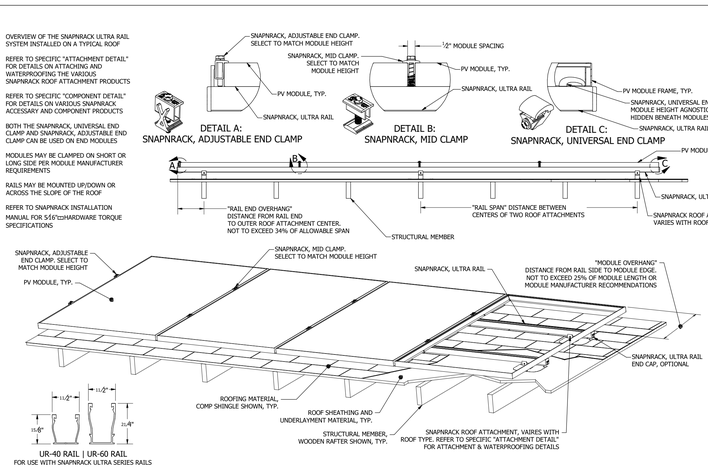
REFER TO SPECIFIC "COMPONENT DETAIL" FOR DETAILS ON VARIOUS SNAPRACK ACCESSARY AND COMPONENT PRODUCTS

BOTH THE SNAPRACK, UNIVERSAL END CLAMP AND SNAPRACK, ADJUSTABLE END CLAMP CAN BE USED ON END MODULES

MODULES MAY BE CLAMPED ON SHORT OR LONG SIDE PER MODULE MANUFACTURER REQUIREMENTS

RAILS MAY BE MOUNTED UP/DOWN OR ACROSS THE SLOPE OF THE ROOF

REFER TO SNAPRACK INSTALLATION MANUAL FOR 5/16"-18 SS HARDWARE TORQUE SPECIFICATIONS



UR-40 RAIL | UR-60 RAIL
FOR USE WITH SNAPRACK ULTRA SERIES RAILS

GENERAL NOTES:
1. DETAIL SHOWN FOR DIAGRAMMATIC PURPOSES ONLY.
2. FOR ADDITIONAL INFORMATION REGARDING THE PV SYSTEM, CONTACT SUNDOG SOLAR (STEVEN MAMMOSER: 518-312-7870; SUNDOGSTEVEN@GMAIL.COM).

B PHOTOVOLTAIC SOLAR PANEL RAILING DETAIL I

NO SCALE

THE ULTRA RAIL CAMMING SEAM CLAMP IS A NON ROOF PENETRATING ATTACHMENT FOR SEAM ROOFS

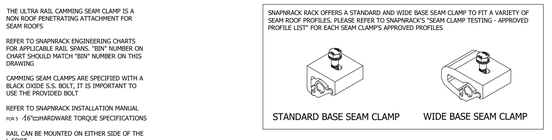
REFER TO SNAPRACK ENGINEERING CHARTS FOR APPLICABLE RAIL SPANS. "BIN" NUMBER ON CHART SHOULD MATCH "BIN" NUMBER ON THIS DRAWING

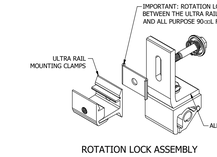
CAMMING SEAM CLAMPS ARE SPECIFIED WITH A BLACK OXIDE S.S. BOLT, IT IS IMPORTANT TO USE THE PROVIDED BOLT

REFER TO SNAPRACK INSTALLATION MANUAL FOR 5/16"-18 HARDWARE TORQUE SPECIFICATIONS

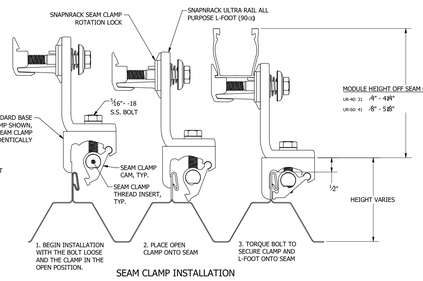
RAIL CAN BE MOUNTED ON EITHER SIDE OF THE L-FOOT

FOR LEVELING DETAILS, REFER TO SNAPRACK DETAIL DRAWING "SNR-DC-00332 ULTRA RAIL COMPONENT DETAIL, LEVELING EXTENSION KIT"

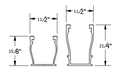




ROTATION LOCK ASSEMBLY



SEAM CLAMP INSTALLATION



UR-40 RAIL | UR-60 RAIL
FOR USE WITH SNAPRACK ULTRA SERIES RAILS

GENERAL NOTES:
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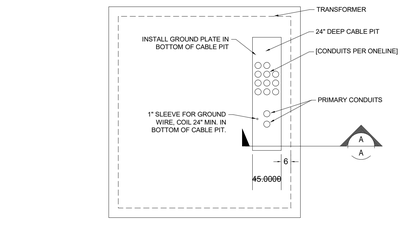
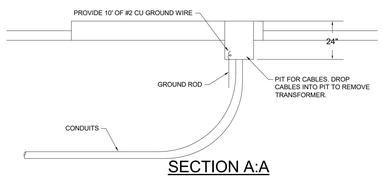
2. FOR ADDITIONAL INFORMATION REGARDING THE PV SYSTEM, CONTACT SUNDOG SOLAR (STEVEN MAMMOSER; 518-312-7870; SUNDOGSTEVEN@GMAIL.COM).

A PHOTOVOLTAIC SOLAR PANEL RAILING DETAIL II

NO SCALE

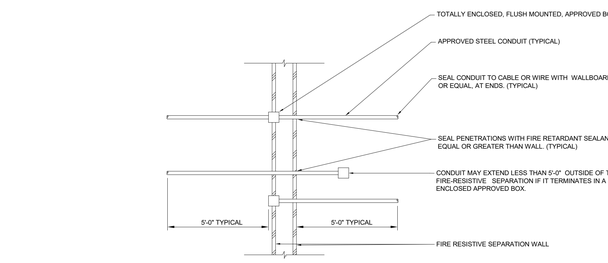




SECTION A:A

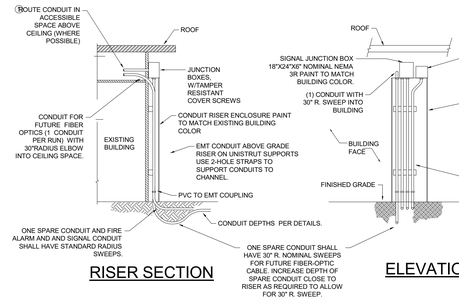
F TRANSFORMER PAD DETAIL

NO SCALE



E CONDUIT PENETRATIONS AT FIRE RESISTIVE SEPARATION WALL

NO SCALE

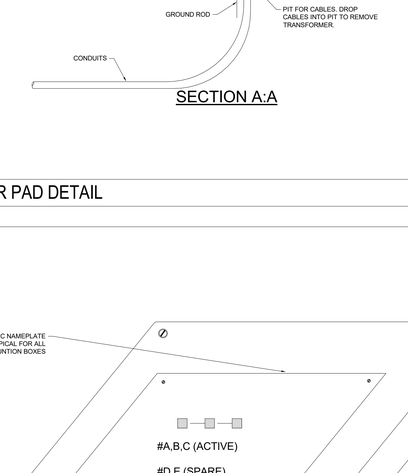


RISER SECTION

ELEVATION

D CONDUIT WALL PENETRATION DETAIL

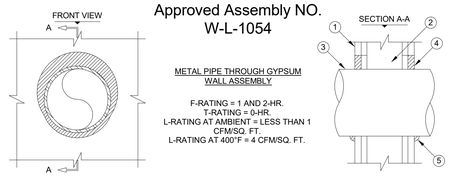
NO SCALE



NOTES:
1. TYPICAL FOR ALL JUNCTION BOXES/SUPPORT BOXES
2. TYPICAL FOR ALL UNDERFLOOR JUNCTION BOXES.

I TYPICAL JUNCTION BOX SUPPORT LABEL DETAIL

NO SCALE



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
A. MAXIMUM 30" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
B. MAXIMUM 30" DIAMETER CAST IRON PIPE.
C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. MINIMUM 5/8" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING :
A. 32-1/4" FOR STEEL STUD WALLS.
B. 14-1/2" FOR WOOD STUD WALLS.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2-1/4".
3. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT OF CONTACT.
4. PIPE MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.

FIRESTOP SYSTEMS

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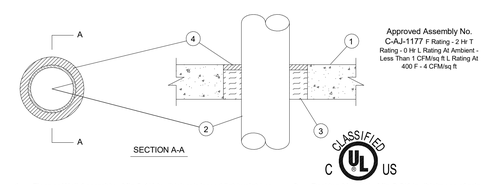
H TYPICAL GYPSUM WALL PENETRATION DETAIL

NO SCALE



1. Floor or Wall Assembly - Min 3-1/4 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete floor or min 3-3/4 in. thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants - One metallic pipe or conduit to be installed within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The annular space shall be 3/4 in. The following types and sizes of metallic pipes or conduits may be used:
A. Steel Pipe - Nom 4 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
B. Conduit - Nom 4 in. diam (or smaller) steel conduit.
3. Packing Material - Min 2-3/4 in. thickness of min 4.0 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
4. Fill, Void or Cavity Material* - Sealant - Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP601S, CP606 , FS601, FS604 or FS-ONE Sealant (Note: L Ratings apply only when FS-ONE Sealant is used). *Bearing the UL Classification Marking

NOTE: MAXIMUM CORE DRILL TO BE 1-1/2".

FIRESTOP SYSTEMS

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G TYPICAL SLAB PENETRATION DETAIL FOR 1-1/2" OR LESS

NO SCALE

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12/13/2019 90% CONSTRUCTION DOCUMENTS
04/15/2020 ISSUED FOR PERMIT
05/01/2020 ISSUED FOR CONSTRUCTION
07/31/2020 ADDENDUM #1
12/16/2020 FINAL DAP SET
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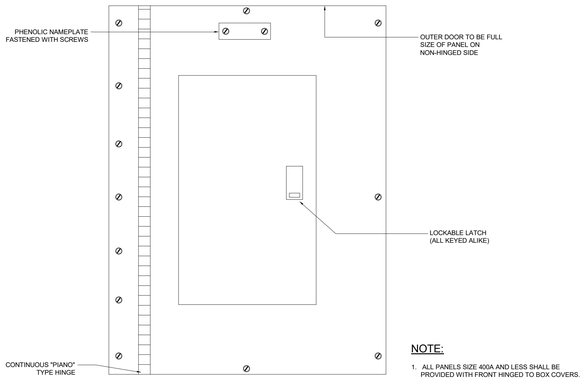
ELECTRICAL DETAILS I
SCALE: AS INDICATED

E7.00

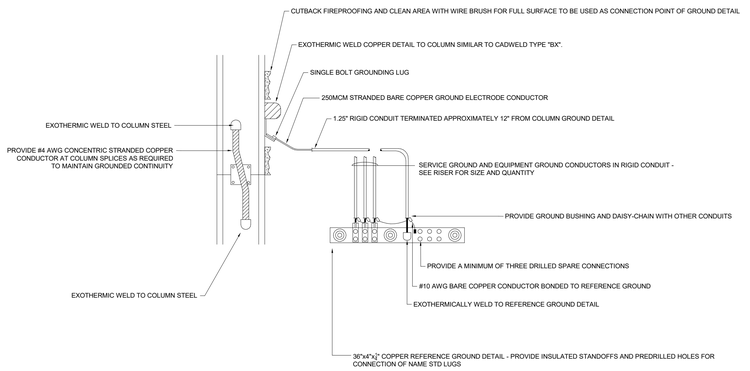


NOTE:

1. ALL PANELS SIZE 400A AND LESS SHALL BE PROVIDED WITH FRONT HINGED TO BOX COVERS.

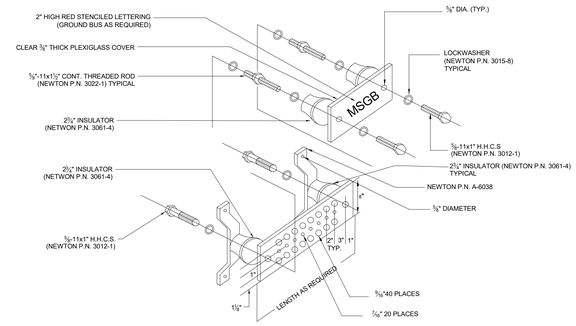
C PANELBOARD FRONT HINGE TO BOX DETAIL

NO SCALE



B GROUNDING DETAIL TYPE "B" (MAJOR ELEC EQUIPMENT ROOM GROUND CONNECTION)

NO SCALE

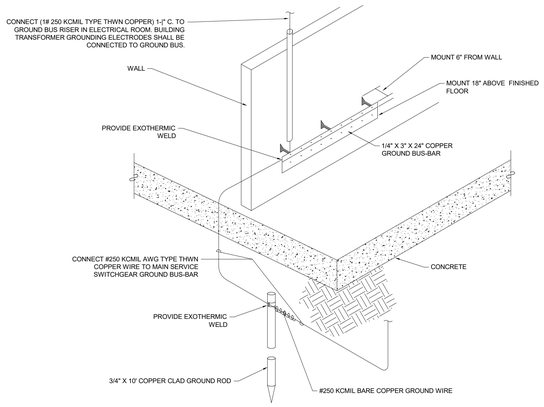


NOTES:

1. ALL CABLE CONNECTIONS TO BUS TO BE MADE WITH 2 BOLT HOLE COMPRESSION LUGS AND TO BE TAGGED AT BUS "DO NOT DISCONNECT".
2. PROVIDE 200% SPARE LUG CONNECTIONS HOLES.

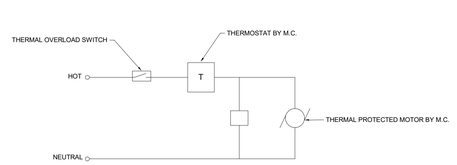
A TYPICAL GROUNDING BUS BAR DETAIL

NO SCALE



F SWITCHGEAR ROOM GROUND BAR DETAIL

NO SCALE

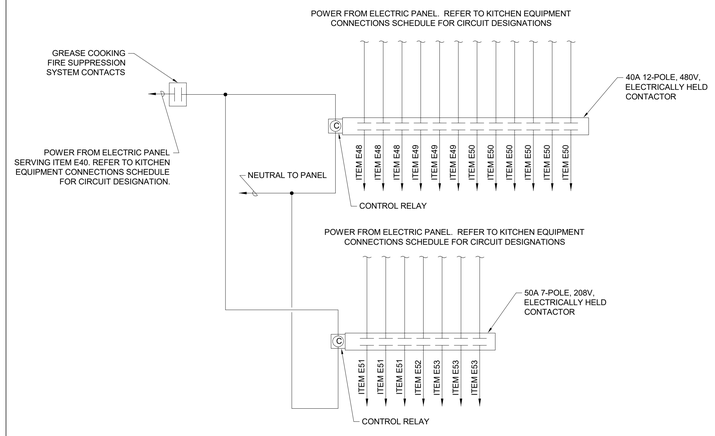


E UNIT HEATER WIRING DIAGRAM

NO SCALE

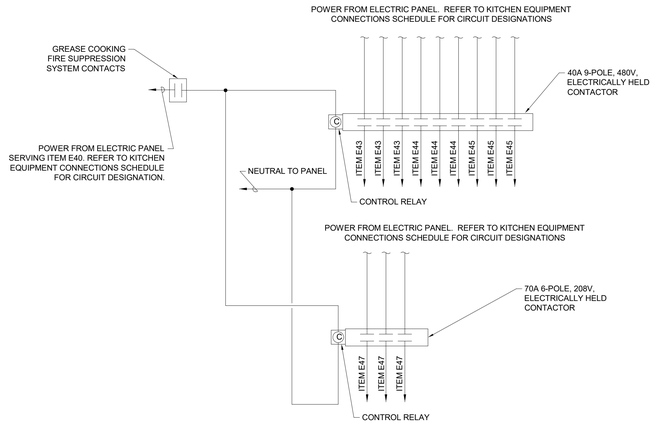
D TOP VIEW OF JUNCTION BOX DETAIL

NO SCALE



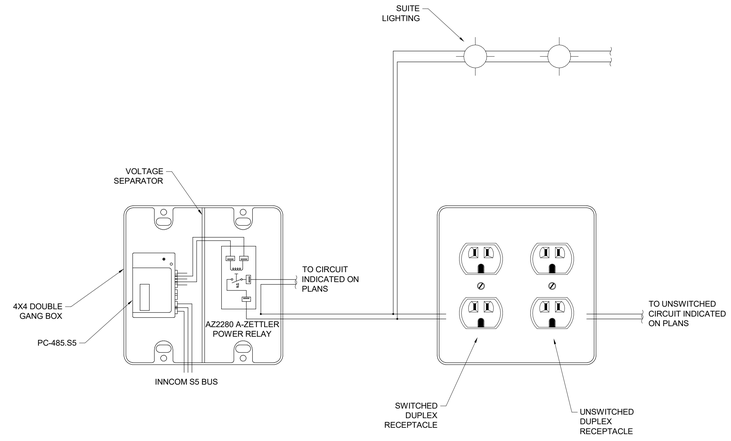
I HOOD SHUNT TRIP DETAIL - HOOD E41C&D

NO SCALE



H HOOD SHUNT TRIP DETAIL - HOOD E41A&B

NO SCALE



G LIGHTING CONTROL DETAILS - INNCOM

NO SCALE

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ELECTRICAL DETAILS II

SCALE: AS INDICATED

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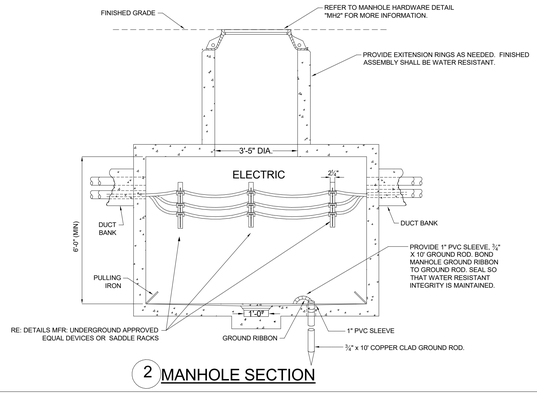
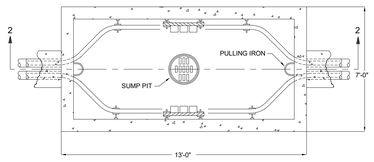


2 MANHOLE SECTION

NOTE:

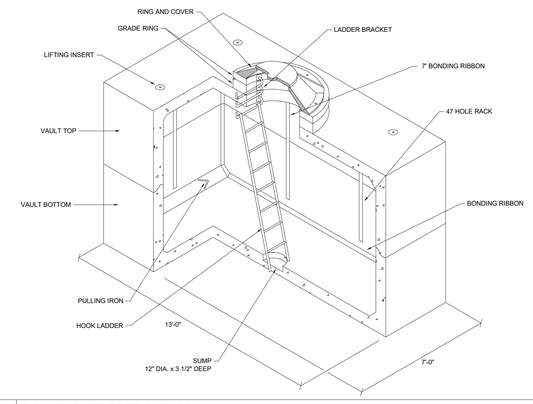
1. REINFORCING BAR: ½" ROUND, DEFORMED.WALLS AND BOTTOM APPROX. 12" C. TO C. BOTH WAYS. TOP AS SHOWN.
2. THICKNESS OF CONCRETE:
   MANHOLE WALLS, TOP AND BOTTOM.....6".
   SUMP WALL AND BOTTOM.....6".



1 MANHOLE PLAN

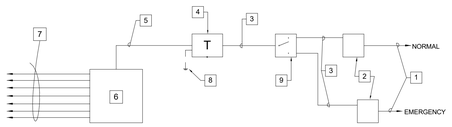
B MANHOLE DETAIL

SCALE



A MANHOLE CUT AWAY

NO SCALE



LEGEND

1. MAIN SUPPLY TAP CONNECTION
   PROVIDE 3#10,#10G TEFLON WIRES IN 3/4" CONDUIT. THE NORMAL SERVICE TAP CONNECTION TO BE MADE TO THE THREE PHASE LEGS OF INCOMING SERVICE (AHEAD OF SERVICE SWITCHES BUT AFTER THE METER). THE EMERGENCY SERVICE CONNECTION TO BE MADE TO THE THREE PHASE LEG LOAD OF TERMINALS OF EMERGENCY GENERATOR. TAP CONNECTION CONDUITS SHALL NOT EXCEED 5 FEET IN LENGTH.
2. MAIN FUSE CUT-OUT
   PROVIDE 30 AMP 480 VOLT, 3-POLE, FUSE CUT-OUT IN CODE GAUGE SHEET METAL ENCLOSURE, FUSED AT 30 AMPS. WITH APPROVED CARTRIDGE TYPE FUSES. FUSE CUT OUT TO BE MOUNTED AT A SUITABLE LOCATION SO THAT ITEM 1 DOES NOT EXCEED PRESCRIBED LENGTH.
3. 3#10,#10G 2 HOUR FIRE RATED WIRES IN 3/4" CONDUIT.
4. TRANSFORMER
   SUPPLY 15KVA, 3 PHASE, 480 VOLT TO 208/120VOLT TRANSFORMER AS PER BASIC SPECIFICATIONS FOR DRY TRANSFORMERS. TRANSFORMER TO BE MOUNTED AT ANY SUITABLE LOCATION IN SAME ROOM AS ELECTRIC SERVICE EQUIPMENT.
5. 4#6,#8G WIRES IN 1-1/4" CONDUIT.
6. FIRE SIGNALING SYSTEMS FUSE CUT-OUT PANEL
   CODE APPROVED FUSE CUT-OUT PANEL WITH FUSED BRANCHES AS PER SCHEDULE IN THIS DETAIL. BRANCHES TO BE CONNECTED BALANCED ON PHASES AS EVENLY AS POSSIBLE. CUT-OUT PANEL TO TO BE MOUNTED AT ANY ACCESSIBLE LOCATION AS CLOSE AS POSSIBLE TO TRANSFORMER.
7. BRANCH CIRCUITS.
   TYPICAL. EACH TO BE TYPE "FEP" TEFLON WIRES IN RIGID CONDUIT RUN TO THE POWER SUPPLY TERMINALS OF THE CENTRAL EQUIPMENT OF FIRE SIGNALING SYSTEM AND OTHER ITEMS AS PER SCHEDULE IN THIS DETAIL.
8. DRY TYPE TRANSFORMER GROUND AS PER BASIC SPECIFICATIONS.
9. 30AMP, 480VOLT, 3-POLE AUTOMATIC TRANSFER SWITCH OF THE TYPE SPECIFIED FOR EMERGENCY POWER SYSTEM USE.

NOTES:

1. EXTERIOR OF ALL ITEMS TO BE PAINTED "FIRE ALARM" RED.
2. WHERE PERMITTED BY AUTHORITIES HAVING JURISDICTION, THE USE OF A FUSED CUT OUT MAY BE SUBSTITUTED.

SCHEDULE OF FIRE SIGNALING SYSTEM CUT-OUT PANEL AND BRANCH CIRCUITS

SYSTEM SUPPLIED	BRANCH IN CUT-OUT PANEL SIZE	POLES	FUSE	BRANCH CIRCUIT
FIRE ALARM SYSTEM	30A	2	30A	2#10,#10G,3/4"C
ANSUL SYSTEM	20A	1	20A	2#12,#12G,3/4"C
ANSUL SYSTEM	20A	1	20A	2#12,#12G,3/4"C

D DETAIL OF FIRE SIGNALING SYSTEMS POWER SUPPLY FROM 480/277 VOLT NORMAL/EMERGENCY ELECTRICAL SERVICE

NO SCALE

C GROUNDING DETAILS

NO SCALE

GENERAL NOTES

1. REFER TO PLAN DRAWINGS FOR QUANTITIES AND LOCATIONS
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

KEY NOTES

1. CONCRETE ENCASED ELECTRODE PER NEC 250.52
2. ELECTRICAL ROOM GROUND BAR REFER TO SPECIFICATIONS, CONNECTIONS TO BE BY EXOTHERMIC WELD.
3. GROUND ROD, REFER TO SPECIFICATIONS.
4. GROUND LOOP, REFER TO GROUNDING RISER DIAGRAM
5. EXOTHERMIC WELD OR COMPRESSION CONNECTION.
6. GROUND RISER, REFER TO GROUNDING RISER DIAGRAM
7. PROVIDE EXOTHERMIC WELD AT APPROXIMATE LOCATION ON STEEL COLUMN, LOCATION TO BE BELOW FINAL POURED CONCRETE SLAB
8. NOT USED
9. BOND ALL INCOMING ELECTRICAL AND COMMUNICATIONS CONDUIT AND CABLE TRAY TO ZSRG AT ENTRY TO ROOM.
10. TO TELECOM GROUND BUS PER TECHNOLOGY GROUND RISER REQUIREMENTS
11. PROVIDE COOPER WIRE (SIZE PER NFPA 780) FOR LIGHTNING PROTECTION DOWNLEAD CONDUCTOR
12. CONNECT DOWNLEAD CONDUCTOR TO GROUND LOOP AND PROVIDE GROUND ROD AT THIS LOCATION.
13. PVC CONDUIT, CONCEAL IN WALLS OR CHASES OR PROVIDE ARCHITECTURAL CHASE, NOT TO BE RUN EXPOSED OR ABOVE CEILINGS.

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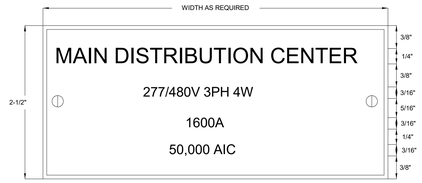
ELECTRICAL DETAILS III

SCALE: AS INDICATED

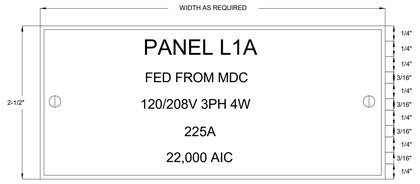
E7.02



NOTE: SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

C MAIN DIST. CENTER NAMEPLATE DTL.

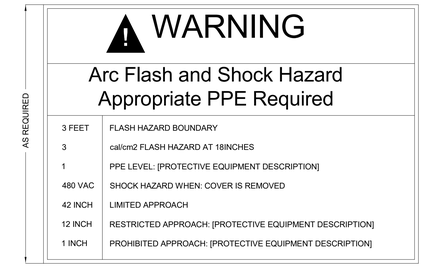
NO SCALE



NOTE: SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

B SUB DIST. CENTER & BRANCH PNL. NAME PLANE DTL.

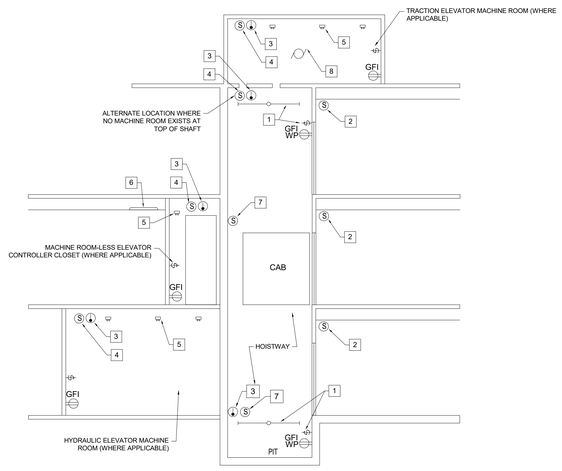
NO SCALE



NOTE: SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

A ARC FLASH LABEL

NO SCALE



KEYNOTES:

1. WEATHERPROOF GFI RECEPTACLE ON DEDICATED [STANDBY] CIRCUIT, FLUORESCENT WET LOCATION LENSED STRIPLIGHTS CONTROLLED BY SPST SWITCH. PROVIDE FIXTURES TO ACHIEVE A MINIMUM OF 10FC IN PIT. TYPICAL AT TOP AND BOTTOM OF HOISTWAY
2. LOBBY SMOKE DETECTOR AT ALL LEVELS, LOBBY, AND EQUIPMENT ROOM SMOKE DETECTORS SHALL INITIATE RECALL, TYPICAL.
3. 135 DEG HEAT DETECTOR ALL HEAT DETECTORS TO AUTOMATICALLY DISCONNECT POWER TO ELEVATOR PRIOR TO THE APPLICATION OF WATER, LOCATE HEAT DETECTOR ADJACENT TO EACH SPRINKLER HEAD.
4. SMOKE DETECTOR FOR FULL COVERAGE PER NFPA, DETECTORS SHALL INITIATE RECALL.
5. PROVIDE FLUORESCENT STRIPLIGHTS WITH WIREGUARD WITHIN MACHINE AND CONTROL ROOMS, PROVIDE FIXTURES TO ACHIEVE A MINIMUM OF 19FC IN ROOM OR CLOSET. COORDINATE LOCATION OF STRIPLIGHTS WITH ELEVATOR EQUIPMENT.
6. PROVIDE ADDITIONAL FIXTURES OUTSIDE OF CLOSET AS NEEDED TO ACHIEVE 19FC AT FRONT OF CONTROLLER. MATCH FIXTURES TYPICAL OF THIS SPACE.
7. [ENGINEER TO CONFIRM FOR NY: PROVIDE SMOKE DETECTOR AT ELEVATOR PIT AND AT EVERY 50'-0" THEREAFTER FOR SHAFTS 150' AND TALLER]
8. PROVIDE SMOKE DETECTOR FOR SMOKE RELIEF DAMPER OR RELIEF HATCH. HATCH TO RELEASE ON SHAFT DETECTOR ALARM.

D ELEVATOR DETAILS

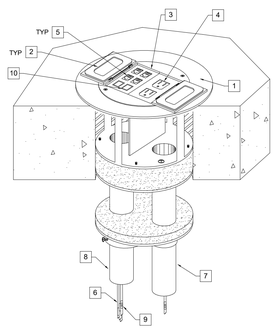
NO SCALE

KEYNOTES:

1. FLOOR-BOX: PROVIDE DUAL CHANNEL THROUGH FLOOR FITTING WITH (2) 1" (25MM) CONDUIT STEMS TO FEED POWER AND LOW VOLTAGE SERVICES.
2. COVER: PROVIDE UNIVERSAL COVER ASSEMBLY WITH CARPET OR TILE FLANGE AND HINGED DOORS. CONTRACTOR SHALL COORDINATE EXACT COVER TYPE AND FINISH FOR EACH SPECIFIC LOCATION WITH ARCHITECT AND ENGINEER DURING THE SUBMITTAL PROCESS, PRIOR TO PURCHASE AND INSTALLATION.
3. SUB-PLATE: PROVIDE SUB-PLATE WITH (2) STYLE LINE / GFCI OPENINGS FOR POWER AND COMMUNICATIONS APPLICATIONS.
4. POWER: PROVIDE DUPLEX POWER RECEPTACLE AS INDICATED ON FLOOR PLANS.
5. LOW VOLTAGE TERMINATIONS: SHOWN FOR REFERENCE ONLY, PROVIDED BY OTHERS.
6. LOW VOLTAGE CABLE: SHOWN FOR REFERENCE ONLY, PROVIDED BY OTHERS.
7. ELECTRICAL CONDUIT: PROVIDE (1) 3/4" (19MM) CONDUIT ROUTED TO NEAREST ELECTRICAL ROOM.
8. LOW VOLTAGE CONDUIT: PROVIDE (1) 1" (25MM) CONDUIT ROUTED TO NEAREST COMMUNICATIONS ROOM.

GENERAL NOTES:

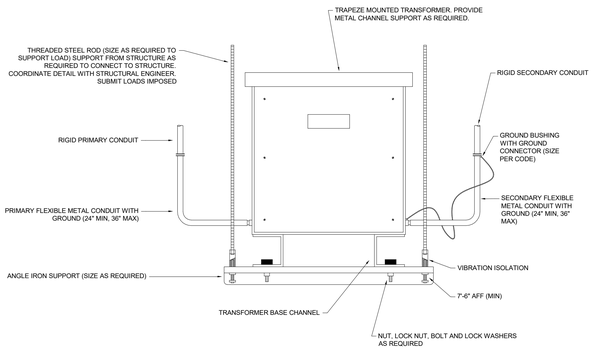
1. PROVIDE COMINATION FIRE-RATED POKE-THROUGH DEVICE FOR HOUSING POWER AND COMMUNICATIONS DEVICES. REFER TO WIRING DEVICES SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS.



E POKE-THROUGH DETAIL

NO SCALE SYMBOLS= CB

COORDINATE CHANGES BETWEEN TECH AND ELEC DETAILS/SPECS



D TRANSFORMER TRAPEZE MOUNTING DETAIL

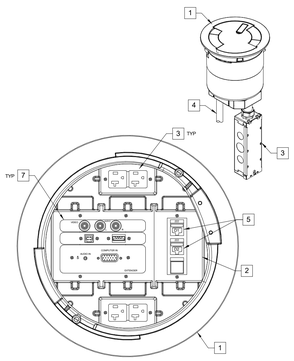
NO SCALE

GENERAL NOTES:

1. COMBINATION POKE-THROUGH DEVICE FOR HOUSING POWER, AUDIO/VIDEO AND COMMUNICATIONS DEVICES. REFER TO DIV.26 WIRING DEVICES SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS.
2. ALL LOW VOLTAGE CONDUITS SHALL BE ROUTED TO NEAREST COMM ROOM OR CABLE TRAY. U.N.O. REFER TO DEVICE SYMBOL NOTES ON TECHNOLOGY LEGEND TO CONFIRM IF CONDUIT SHALL STOP AT ACCESSIBLE CEILING SPACE.

KEYNOTES:

1. FLOOR BOX: PROVIDE POKE-THROUGH DEVICE PER DIV.26 WIRING DEVICES SPECIFICATION.
2. MOUNTING PLATE: PROVIDE (1) MOUNTING PLATE WITH STYLE-LINE (DECORA) FRAME OPENING FOR DATA OUTLETS. ADDITIONALLY, PROVIDE AV CONNECTION MOUNTING PLATES AND/OR BLANKS AS REQUIRED.
3. POWER: PROVIDE RECEPTACLES AND CONDUIT AS INDICATED ON DRAWINGS.
4. LOW VOLTAGE CONDUIT: PROVIDE (1) 1-1/4" CONDUIT FOR DATA CABLING AND (1) 1-1/4" CONDUIT FOR AV CABLING AT APPLICABLE DEVICE LOCATIONS.
5. DATA TERMINATIONS: DATA OUTLETS SHOWN FOR REFERENCE ONLY. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.
6. AV CONNECTIONS: AV OUTLETS SHOWN FOR REFERENCE ONLY. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.



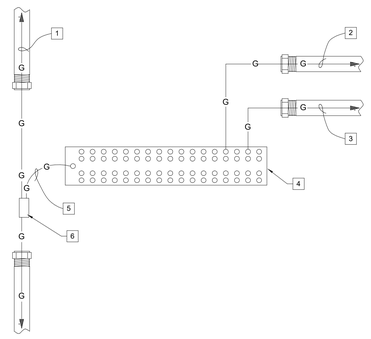
B AV/POWER/DATA POKE-TROUGH

NO SCALE SYMBOL = AV/#

COORDINATE CHANGES BETWEEN TECH AND ELEC DETAILS/SPECS

KEYNOTES:

1. RISER-TBB: PROVIDE (1) #3/0 AWG INSULATED STRANDED COPPER CONDUCTOR VERTICALLY TO THE FURTHEST RISER TGB FROM TMGB. CABLE SHALL BE INSTALLED IN 1" (25mm) CONDUIT.
2. PROVIDE (1) #3/0 AWG INSULATED STRANDED COPPER CONDUCTOR BONDED TO NEAREST BUILDING STRUCTURAL STEEL. CABLE SHALL BE INSTALLED IN 1" (25mm) CONDUIT, IF ROUTED OUTSIDE OF ROOM.
3. PROVIDE (1) #3/0 AWG INSULATED STRANDED COPPER CONDUCTOR BONDED TO NEAREST ELECTRICAL PANEL GROUND BUS. CABLE SHALL BE INSTALLED IN 1" (25mm) CONDUIT.
4. TGB: PROVIDE (1) 20" X 4" X 1/4" TINNED COPPER BUS ON ISOLATED STAND-OFF INSULATORS. GROUND BUS SHALL HAVE PRE-DRILLED HOLES FOR DUAL HOLE MOUNTING LUGS. REFER TO ENLARGED TELEPHONE ROOM PLAN SHEETS FOR LOCATIONS.
5. TAP CONDUCTOR: PROVIDE (1) #3/0 AWG INSULATED STRANDED COPPER CONDUCTOR FROM TBB TO THE TGB. CABLE SHALL BE ROUTED IN 1" (25mm) CONDUIT IF ROUTED OUTSIDE OF ROOM.
6. TAP FITTING: PROVIDE IRREVERSIBLE HIGH COMPRESSION FITTING.



E TELECOM GROUNDING BUS BAR (TGB)

NO SCALE SYMBOL = TGB

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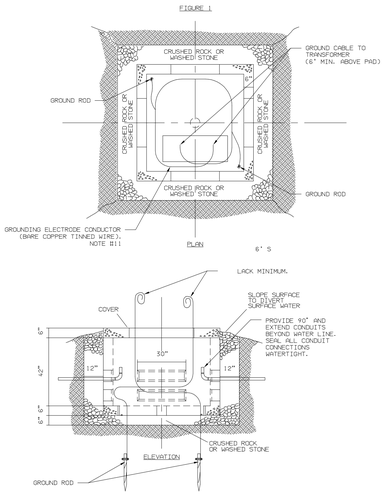
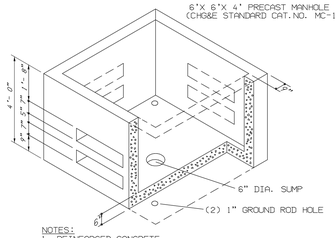
ELECTRICAL DETAILS IV

SCALE: AS INDICATED

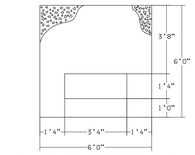
E7.03



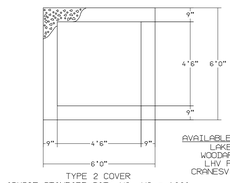


NOTES:
1. REINFORCED CONCRETE.
2. KNOCKOUTS - 7"X 30". 2 PER SIDE, FOUR SIDES.

WEIGHT:
BOX - 7899 LBS.
COVER - 2370 LBS.

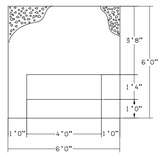


75 - 500 KVA TRANSFORMER COVER
(CH&E STANDARD CAT. NO. MC - 101)

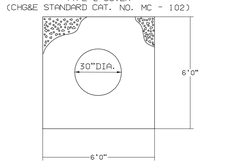


TYPE 2 COVER
(CH&E STANDARD CAT. NO. MC - 102)

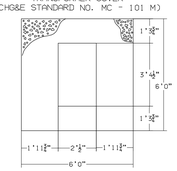
AVAILABLE MANUFACTURERS:
LAKELANDS M.V.
WOODARDS CONCRETE
LHV PRECAST INC.
CRANESVILLE BLOCK CO.



750 - 1000 KVA
TRANSFORMER COVER
(CH&E STANDARD NO. MC - 101 M)



TYPE 1 MANHOLE COVER
(CH&E STANDARD CAT. NO. MC - 103)



TYPE 4 COVER
(CH&E STANDARD CAT. NO. MC - 102 M)

B UTILITY TRANSFORMER PAD DETAILS

NO SCALE

GENERAL NOTES:

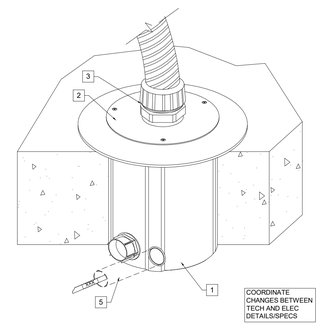
1. PROVIDE COMBINATION FLOOR BOX DEVICE FOR ROUTING POWER AND COMMUNICATIONS CABLING TO MODULAR FURNITURE. REFER TO WIRING DEVICES SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS.

KEYNOTES:

1 FLOOR-BOX: PROVIDE DUAL CHANNEL IN-SLAB FLOOR BOX WITH (2) 1" (25MM) CONDUIT OPENINGS TO FEED POWER. COMMUNICATIONS CABLE SHALL NOT BE COMBINED WITH POWER IN THIS BOX.

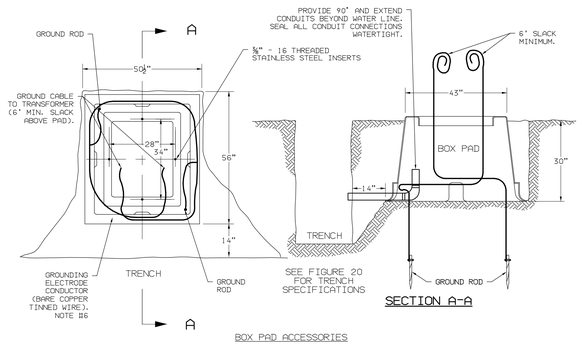
2 COVER: PROVIDE COVER ASSEMBLY WITH CARPET OR TILE FLANGE AND FLEXIBLE FURNITURE FEED. CONTRACTOR SHALL COORDINATE EXACT COVER TYPE AND FINISH FOR EACH SPECIFIC LOCATION WITH ARCHITECT AND ENGINEER DURING THE SUBMITTAL PROCESS, PRIOR TO PURCHASE AND INSTALLATION.

3 FLEXIBLE-WHIP: PROVIDE (1) 3/4" (19MM) FLEXIBLE CONDUIT EXTENDED FROM COVER PLATE TO MODULAR FURNITURE.



A FLOOR MOUNTED FURNITURE FEED DEVICE

NO SCALE SYMBOLS= J



C UNDERGROUND TRANSFORMER BOX PAD DETAILS

NO SCALE

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ELECTRICAL DETAILS V
SCALE: AS INDICATED

E7.04

KEY NOTES:

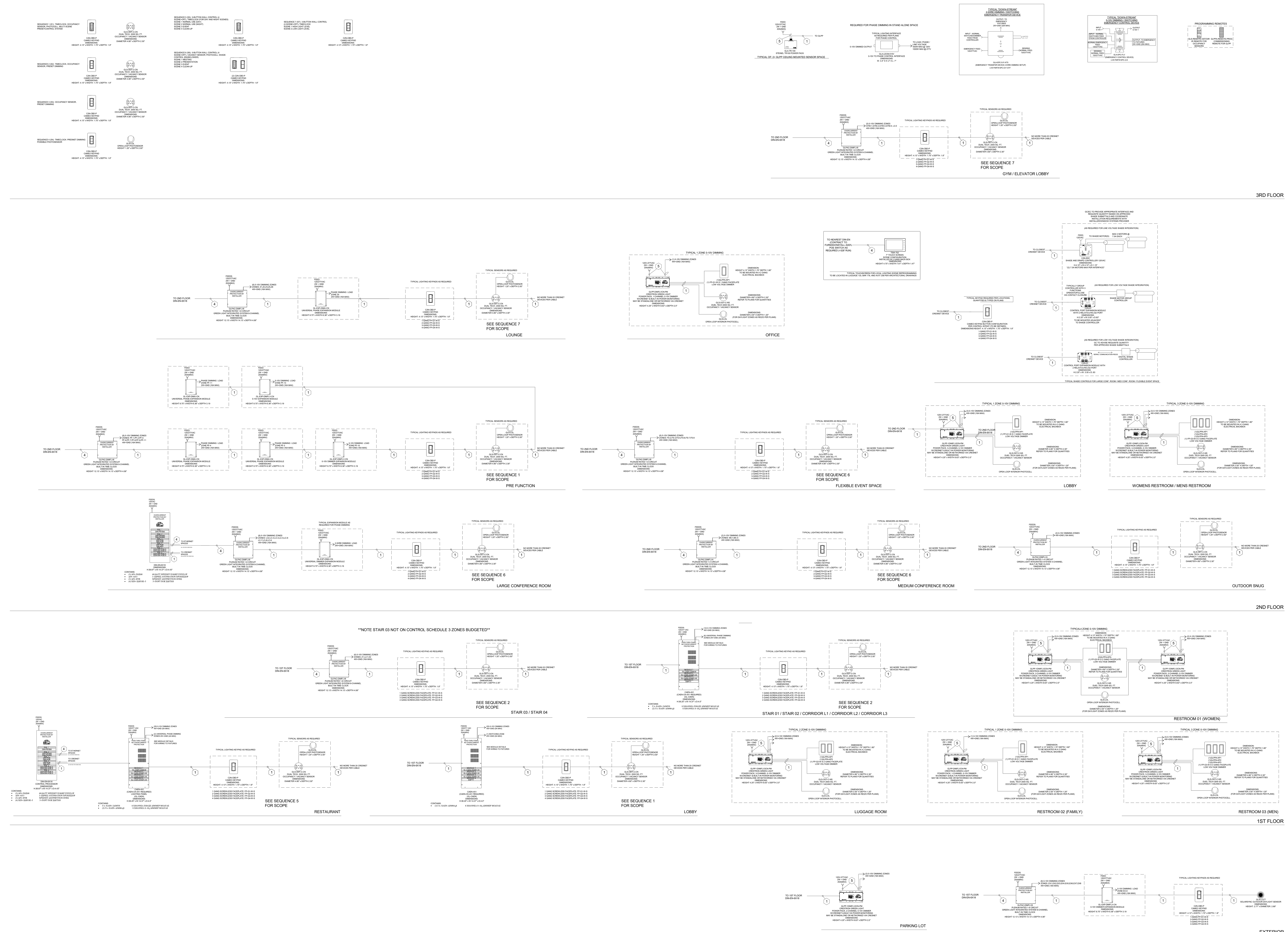
1. "CRESNET" CABLE:
(1) PAIR #18AWG,
(1) TWISTED PAIR 22AWG
W/SHIELD
NON-PLENUM PN: CRESNET-NP-TL
PLENUM PN: CRESNET-P-TL
CRESNET DEVICES ARE LIMITED
TO (20) PER CRESNET RUN

2. DMX CABLE:
BELDEN STANDARD 9729
OR EQUAL

3. CABLE:
(1) TWISTED PAIR 18AWG
(1) SHIELD

4. CABLE:
CAT5E ETHERNET
ETHERNET DEVICES MUST
BE HOME RUN

5. SUITABLE GAUGE WIRE
TO MEET LOAD
REQUIREMENTS



A | LIGHTING CONTROL DETAILS - CRESTRON

NO SCALE

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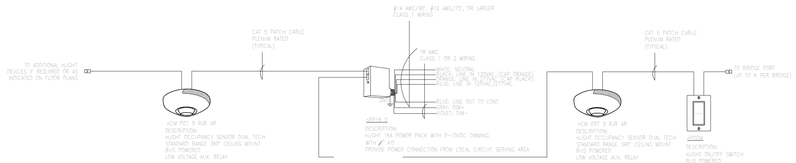
ELECTRICAL
DETAILS VI
SCALE: AS INDICATED

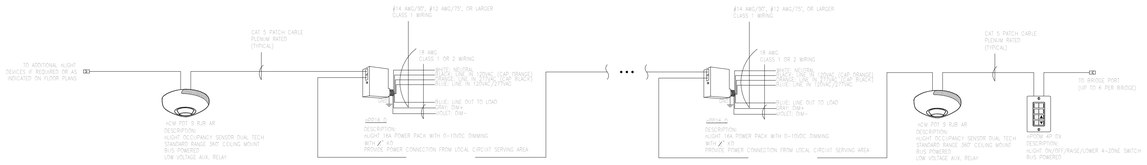
E7.05



NTS

TYPICAL SPACE USING nLIGHT POWER PACKS, OCCUPANCY SENSORS, ON/OFF, NORMAL ONLY

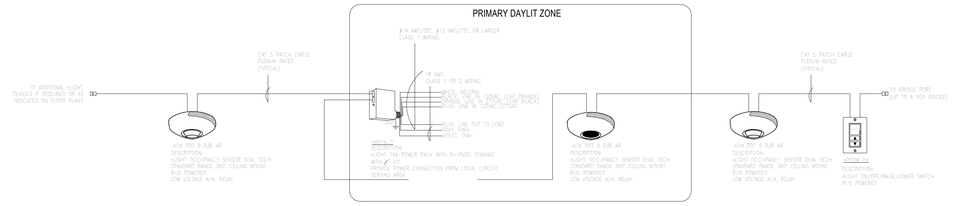
REFER TO PLANS FOR TYPES AND QUANTITIES



NTS

TYPICAL SPACE USING nLIGHT POWER PACKS, OCCUPANCY SENSORS, ON/OFF AND DIMMING, 4-ZONE, NORMAL ONLY

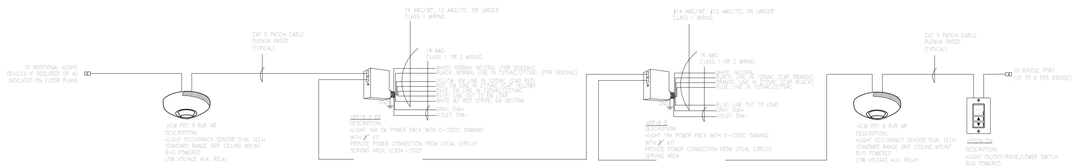
REFER TO PLANS FOR TYPES AND QUANTITIES



NTS

TYPICAL OPEN AREA WITH DAYLIGHTING USING nLIGHT POWER PACKS, NORMAL ONLY

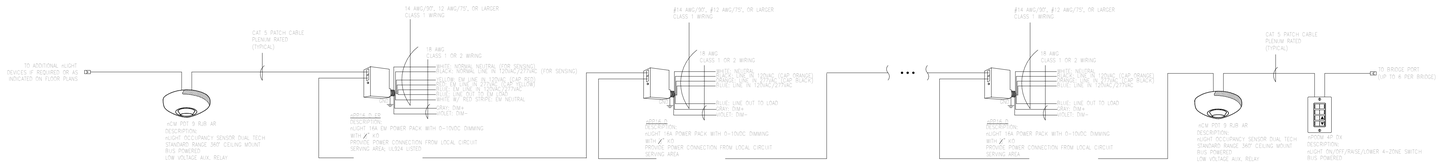
REFER TO PLANS FOR TYPES AND QUANTITIES



NTS

TYPICAL OPEN AREA USING nLIGHT POWER PACKS WITH NORMAL & EM SOURCE (GENERATOR)

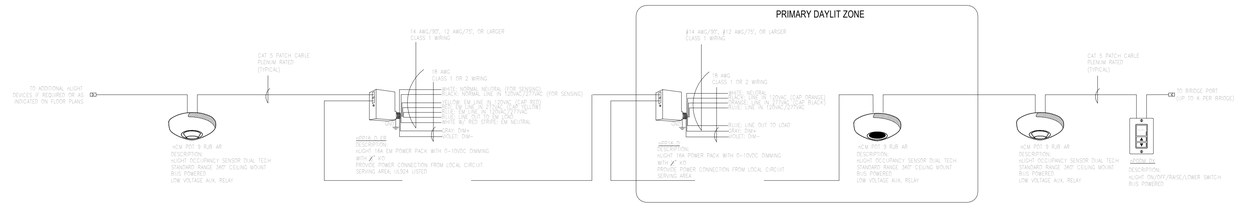
REFER TO PLANS FOR TYPES AND QUANTITIES



NTS

TYPICAL OPEN AREA USING nLIGHT POWER PACKS WITH NORMAL & EM SOURCE (GENERATOR) AND 4-ZONE SWITCH

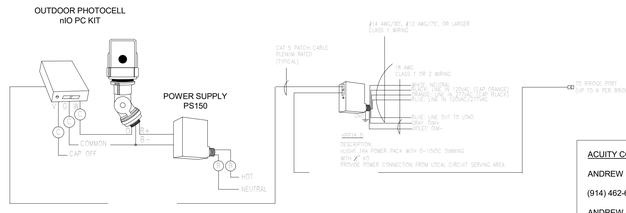
REFER TO PLANS FOR TYPES AND QUANTITIES



NTS

TYPICAL OPEN AREA WITH DAYLIGHTING USING nLIGHT POWER PACKS WITH NORMAL & EM SOURCE (GENERATOR)

REFER TO PLANS FOR TYPES AND QUANTITIES



NTS

EXTERIOR LIGHTS WITH PHOTOCELL CONTROL

REFER TO PLANS FOR TYPES AND QUANTITIES

ACUITY CONTROLS CONTACT:

ANDREW GROSS, LC

(914) 462-6117

ANDREW.GROSS@ACUITYBRANDS.COM

ACUITYBRANDS.COM

A LIGHTING CONTROL DETAILS - ACUITY

NO SCALE

GENERAL NOTES:

CONTRACTOR TO PROVIDE LIGHTING CONTROL VIA ACUITY BRANDS NLIGHT SYSTEM. MINIMUM REQUIREMENTS AS FOLLOWS:

1. PROVIDE (1) NGWY2 CTRL GATEWAY DEVICE AND (1) NGWY2 GFX DISPLAY PER FLOOR. PROVIDE PS-250 POWER SUPPLY. COORDINATE FINAL LOCATION IN FIELD.
2. ON DIGITAL SYSTEMS, ALL DEVICES TO BE CONNECTED IN A DAISY CHAIN PATTERN SO THAT THE FIRST AND LAST DEVICE IN THE CHAIN HAS AN OPEN PORT. NO T-TAP CONNECTIONS. EXCEPTIONS FOR NLIGHT "RJB" DEVICES UTILIZING THEIR INCLUDED RJ45 SPLITTER INSIDE PACKAGING.
3. ON DIGITAL SYSTEMS, CONTRACTOR SHALL NOTE AND LABEL ADDRESS AND LOCATION OF EACH DEVICE ON THE SYSTEM ONE-LINE DIAGRAMS OR SYSTEM LAYOUT DRAWINGS AT TIME OF INSTALLATION.
4. PROVIDE MINIMUM (1) NLIGHT POWER PACK PER ZONE, SEPARATE POWER PACKS FOR DAY-LIT ZONES, EMERGENCY LIGHTING, ETC. POWER PACK SHALL BE DIMMABLE. POWER PACKS SHALL BE LOCATED CONCEALED IN ACCESSIBLE CEILING SPACE. POWER PACKS SHALL BE CONNECTED TO LOCAL BRIDGE WITH CAT. 5e CABLING.
5. PROVIDE (1) BRIDGE PER EVERY (5) POWER PACKS. BRIDGES SHALL BE DAISY CHAINED TO EACH OTHER AND BACK TO GATEWAY DEVICE WITH CAT. 5e CABLING. MAXIMUM CABLING PER ZONE IS 1500'. PROVIDE PS-150 POWER SUPPLY PER BRIDGE. LOCATE EQUIPMENT IN ACCESSIBLE CEILING SPACE.
4. PROVIDE DUALTECH SMALL MOTION 360 NCMPDT OCCUPANCY SENSORS TO COVER SPACE. RADIUS OF SENSOR SHALL BE 12'. SENSORS SHALL BE DAISY CHAINED WITH CAT. 5e CABLING BACK TO LOCAL POWER PACK.
5. PROVIDE ASTRONOMICAL TIMECLOCK CAPABILITY ASSOCIATED WITH EQUIPMENT ABOVE.
6. POWER SUPPLIES SHALL BE SUPPLIED FROM LOCAL CIRCUIT SERVING LIGHTS.
7. CONTRACTOR IS RESPONSIBLE FOR ALL POWER AND CONTROL TERMINATIONS. NO SPLICES ARE PERMITTED IN CONTROL WIRING.
8. POWER AND CONTROL CONDUCTORS SHALL NOT SHARE THE SAME CONDUIT.
9. LOW VOLTAGE CABLE MUST BE INSTALLED AT LEAST 12 INCHES FROM ALL LINE VOLTAGE CONDUCTORS EXCEPT TO CROSS OR MAKE TERMINATIONS. CAT. 5 CABLE MUST BE KEPT AWAY FROM ALL EMF DEVICES SUCH AS BALLASTS OR TRANSFORMERS.
10. FOR 0-10VDC DIMMING SYSTEMS, VIOLET AND GRAY CONDUCTORS ARE FOR 0-10VDC LOW VOLTAGE TERMINATIONS ONLY. NEVER TERMINATE LINE VOLTAGE (120/230/277VAC) TO VIOLET AND GRAY.
11. CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL TERMINATIONS. NO SPLICES ARE PERMITTED IN CONTROL WIRING.
12. VERIFY MAXIMUM CABLE LENGTHS BASED ON CONTROL SYSTEM. MANUFACTURER IS NOT RESPONSIBLE FOR SYSTEMS EXCEEDING CABLING PARAMETERS.
13. ALL EXPOSED WIRING, INCLUDING LOW VOLTAGE WIRING, SHALL BE ROUTED IN CONDUIT. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.

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CONTRACTOR

CONSULTANT

me engineers
ME Engineers
33 w 39th street, 5th floor
New York, NY 10018
t 212.447.0707 f 212.447.0815
www.me-engineers.com

ISSUE DATES

07/01/2020 GMP SET
12/18/2020 FINAL GMP SET
06/21/2021 MID SET

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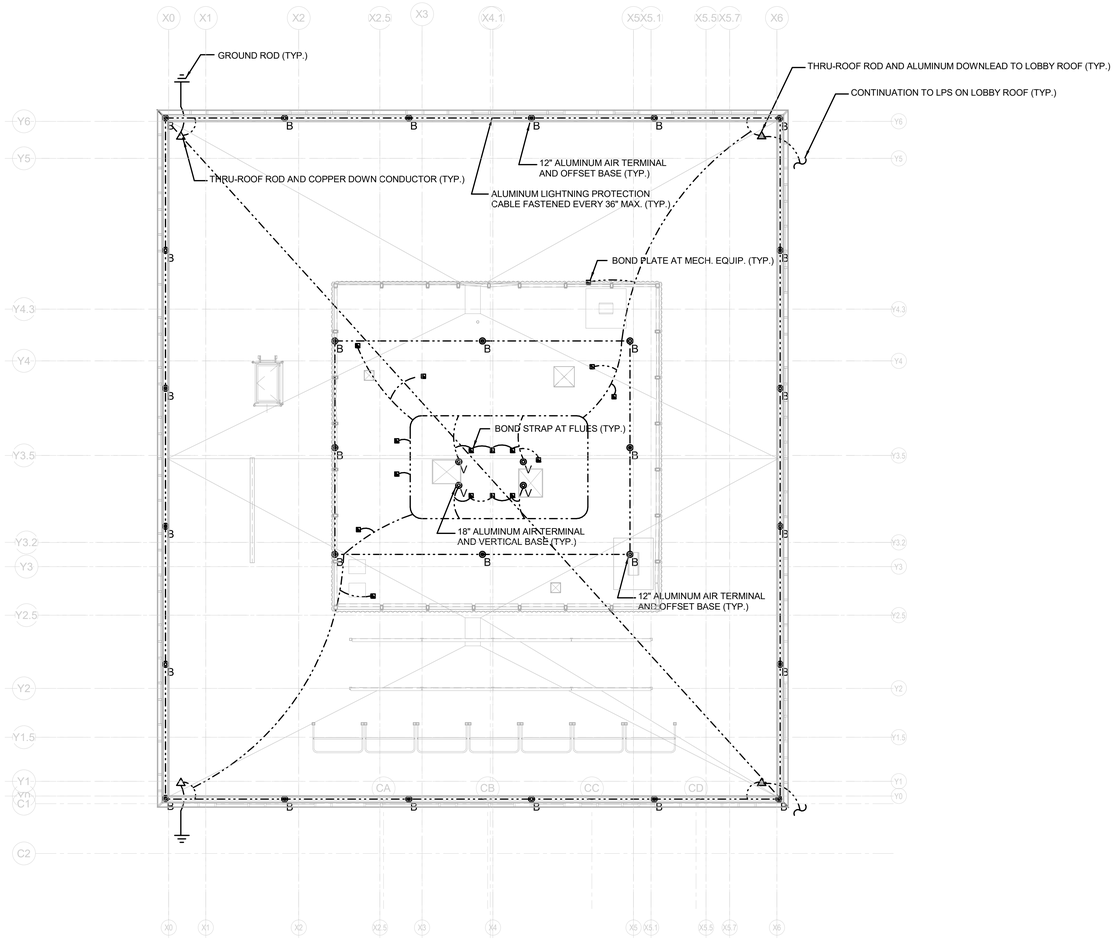
architects
12246 Santa Monica Blvd, Los Angeles, CA 90025 | (310) 820-6680 | fisherpartners.net
150 West 28th St., Suite 1802, New York, NY 10001

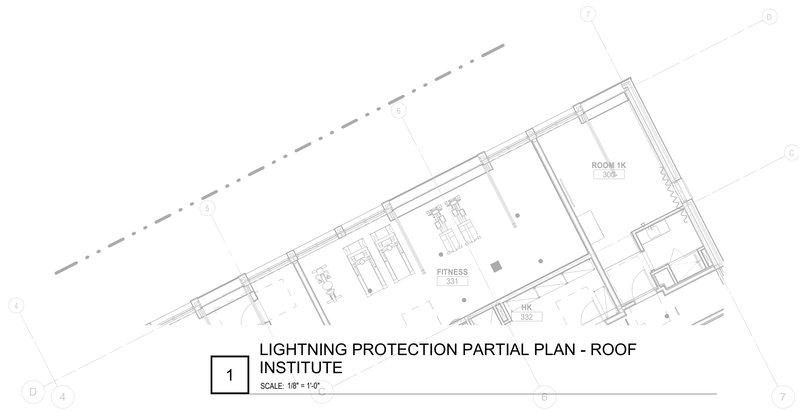
ELECTRICAL DETAILS VII

SCALE: AS INDICATED

E7.06

1 ELECTRICAL DETAILS VII
1/8" = 1'-0"





1 LIGHTNING PROTECTION PARTIAL PLAN - ROOF INSTITUTE
SCALE: 1/8" = 1'-0"

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09/03/2019 100% DESIGN DEVELOPMENT
12/13/2019 50% CONSTRUCTION DOCUMENTS
04/10/2020 ISSUED FOR PERMIT
05/01/2020 ISSUED FOR CONSTRUCTION
07/01/2020 GMP SET
12/18/2020 FINAL GMP SET
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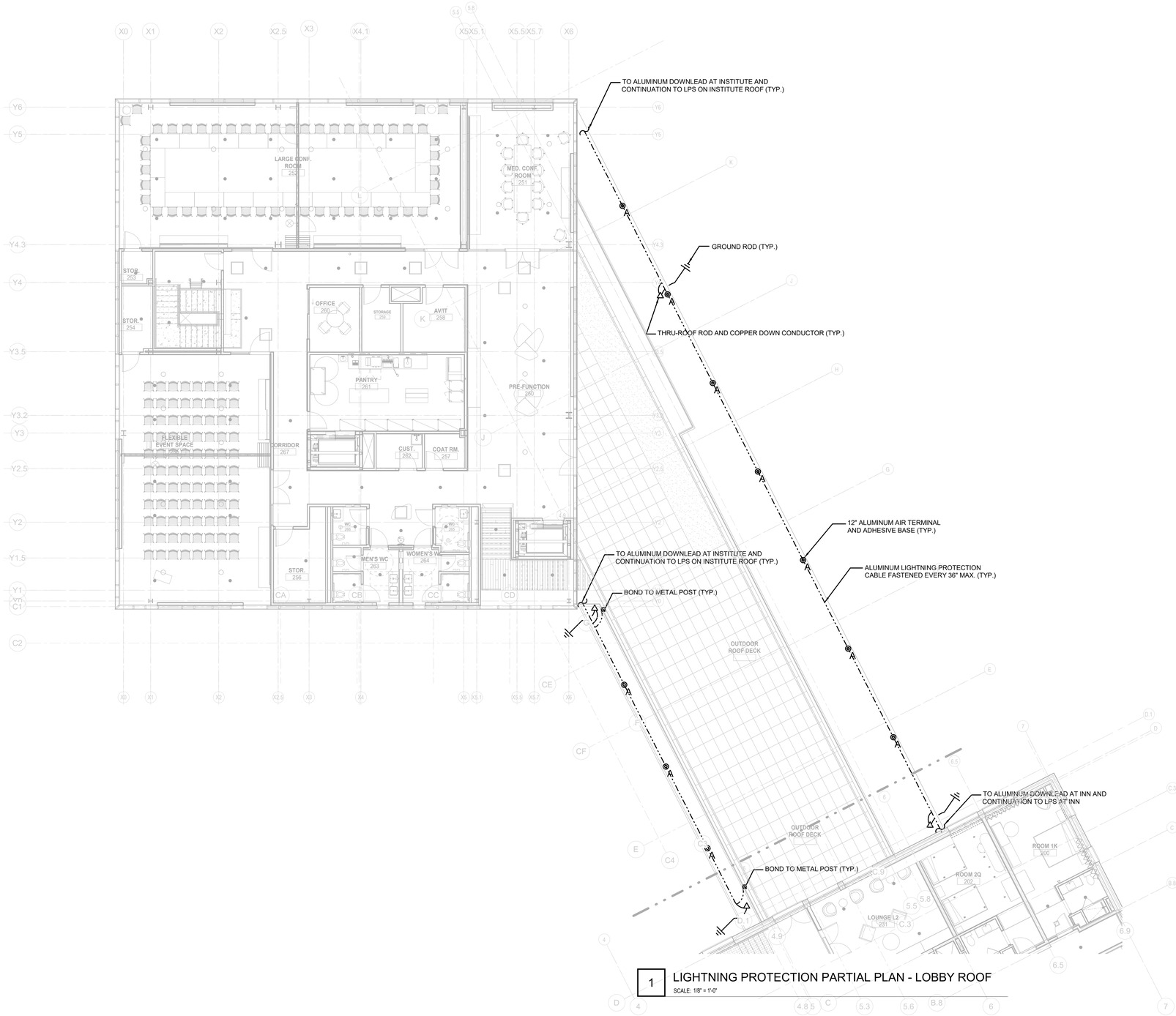
LIGHTNING PROTECTION PARTIAL PLAN - ROOF INSTITUTE
SCALE: AS INDICATED

E9.00



1 LIGHTNING PROTECTION PARTIAL PLAN - LOBBY ROOF
SCALE: 1/8" = 1'-0"

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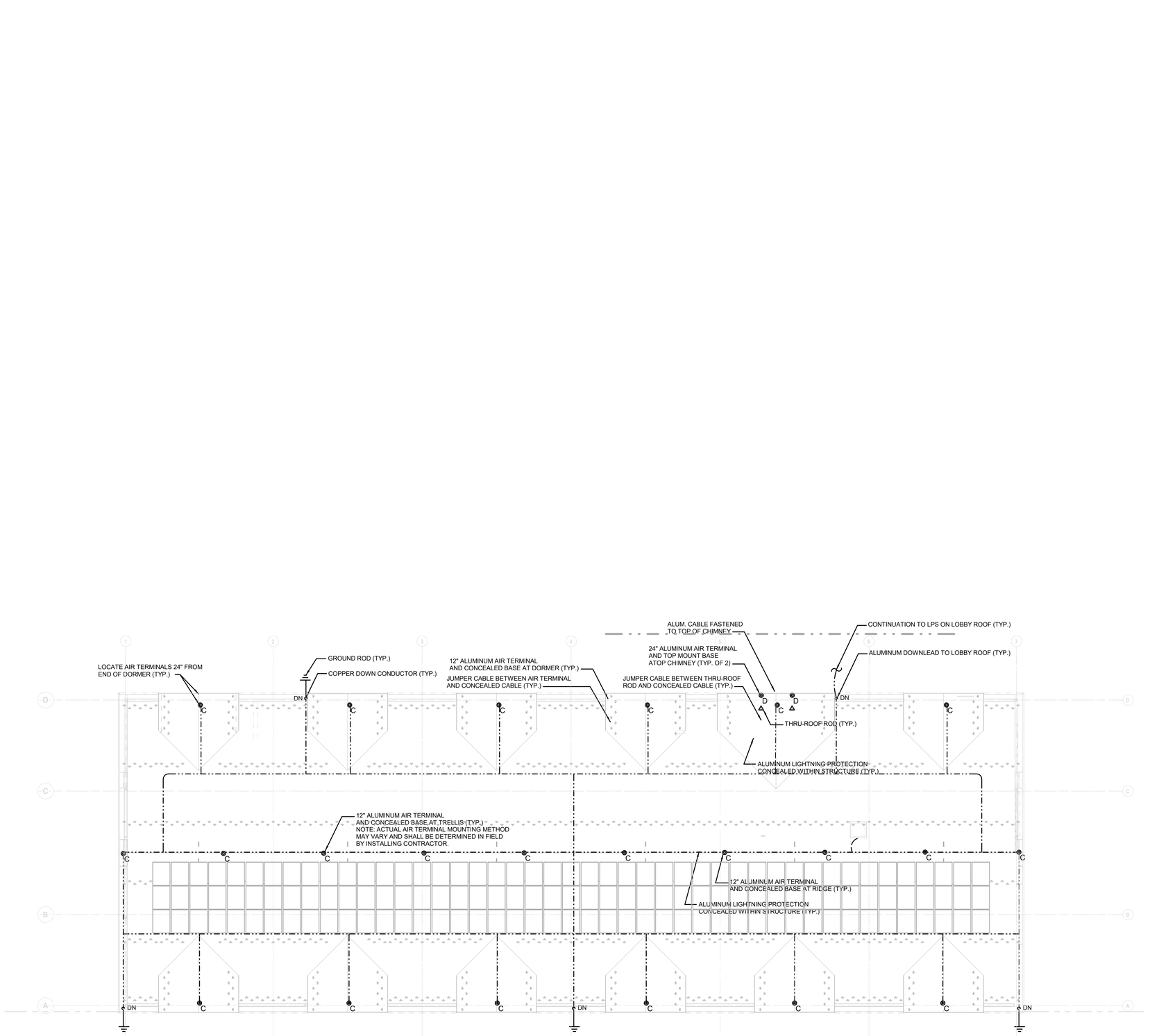
LIGHTNING PROTECTION PARTIAL PLAN - LOBBY ROOF

SCALE: AS INDICATED

E9.01



1 LIGHTNING PROTECTION PARTIAL PLAN - ROOF INN
SCALE: 1/8" = 1'-0"

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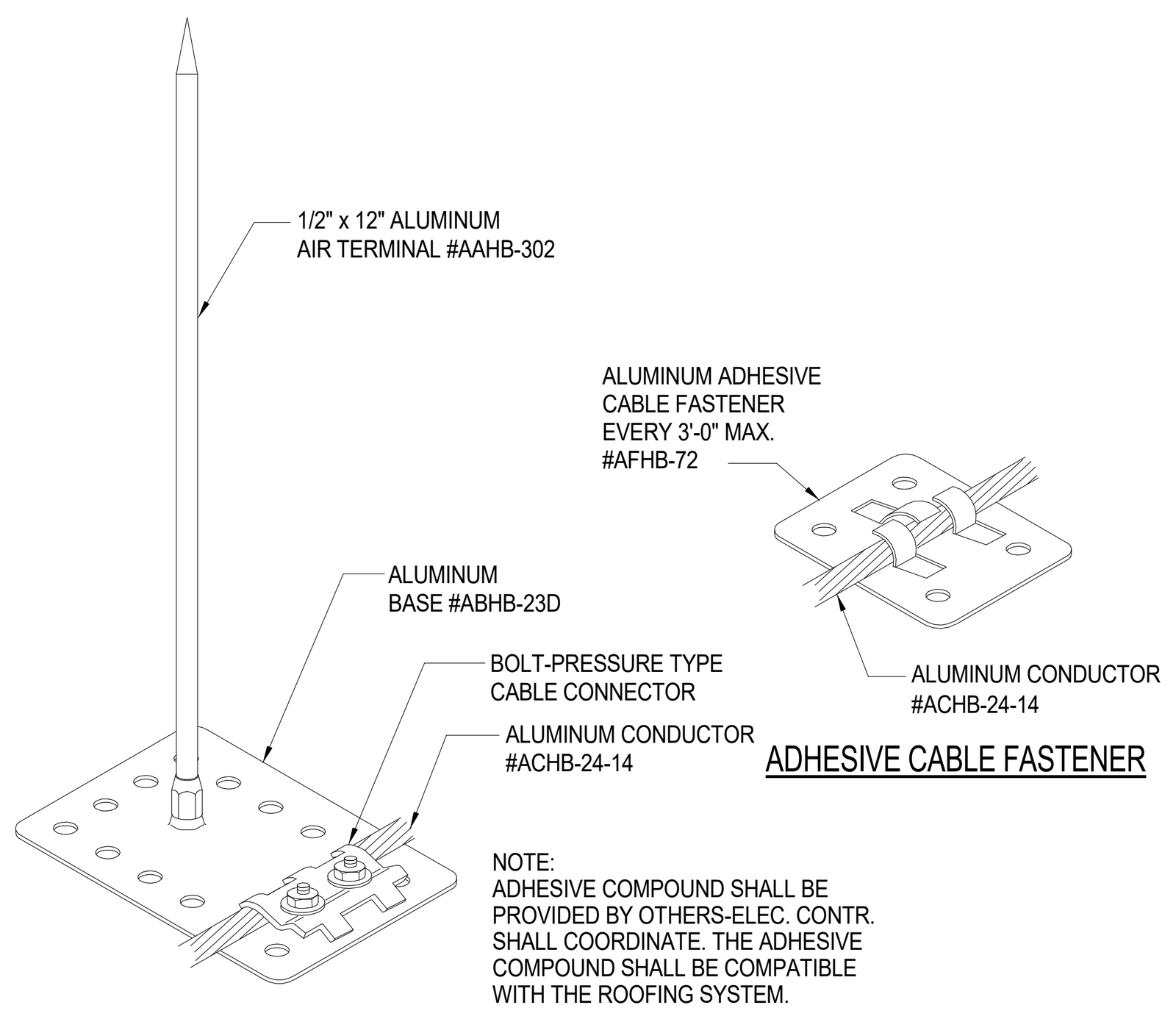
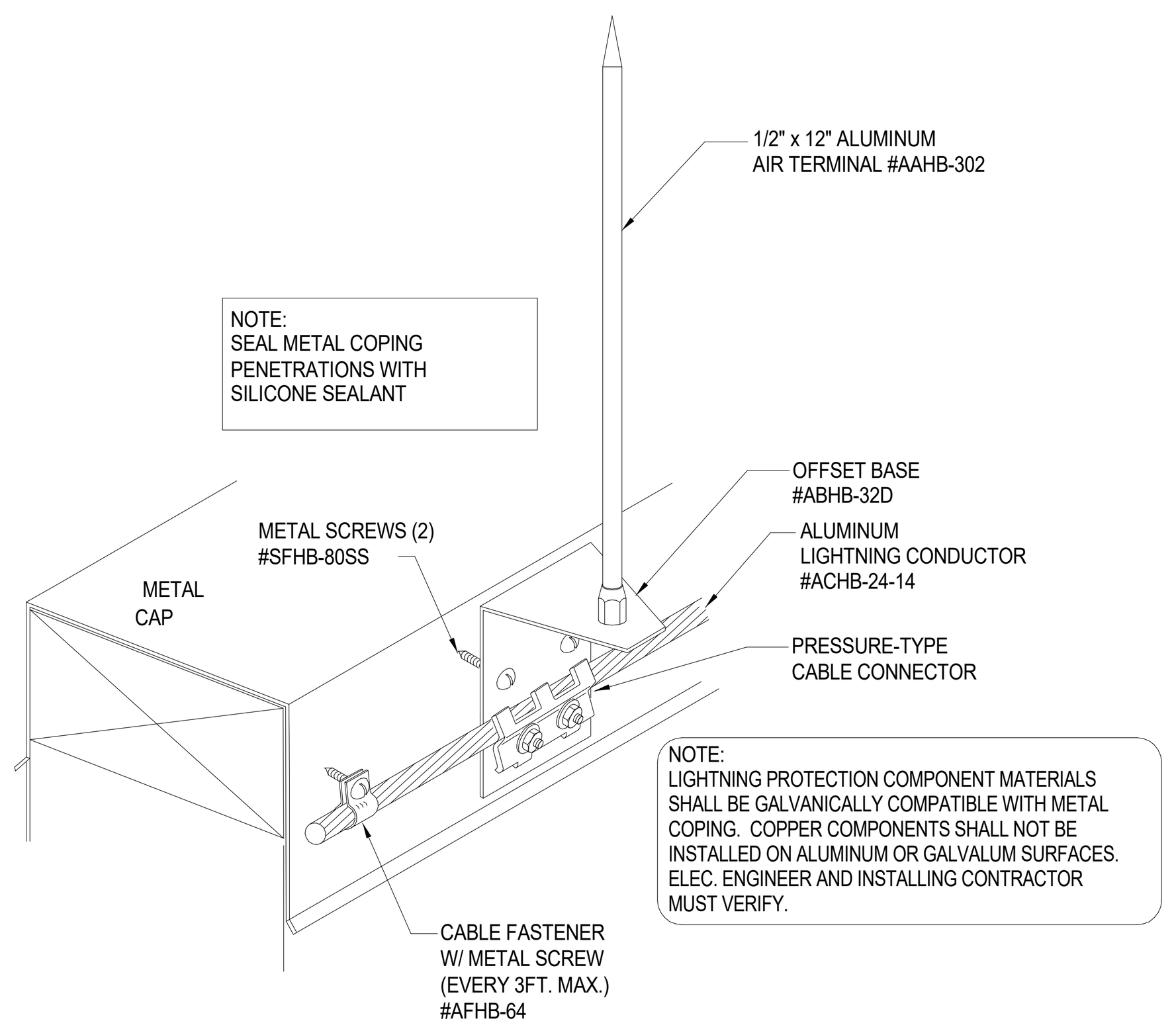
LIGHTNING PROTECTION PARTIAL PLAN - ROOF INN
SCALE: AS INDICATED

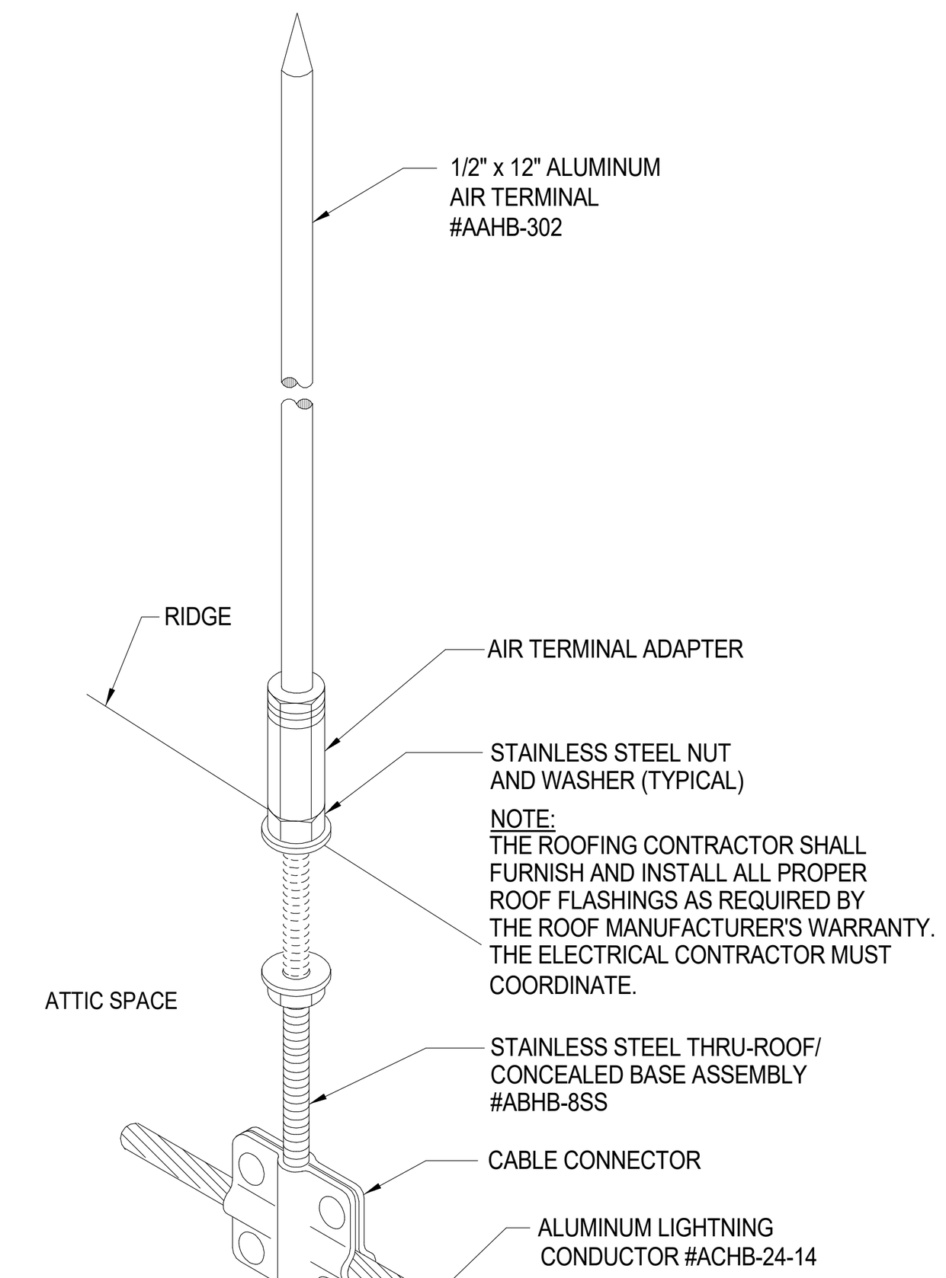
E9.02



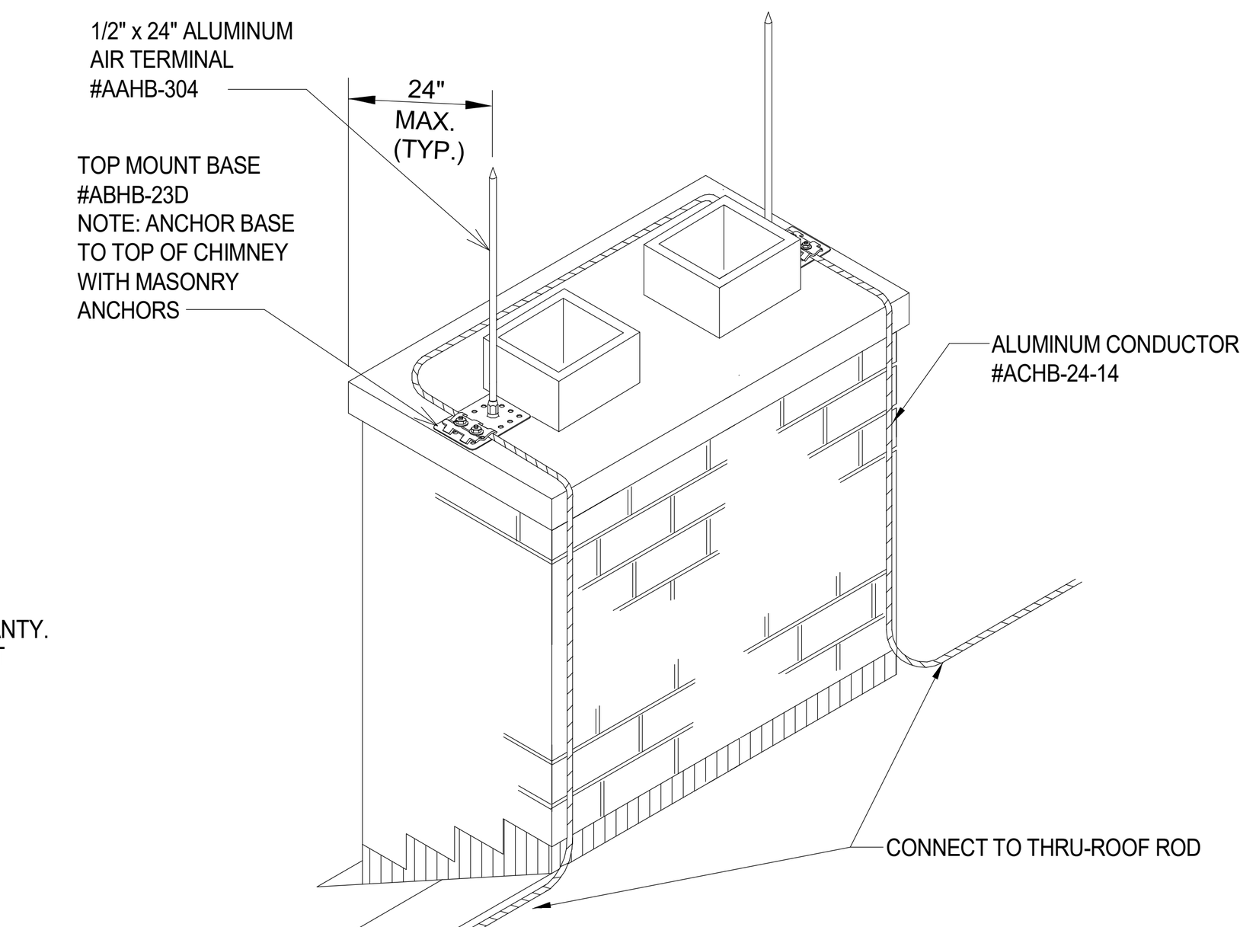
1 ADHESIVE AIR TERMINAL BASE
NTS SYMBOL A



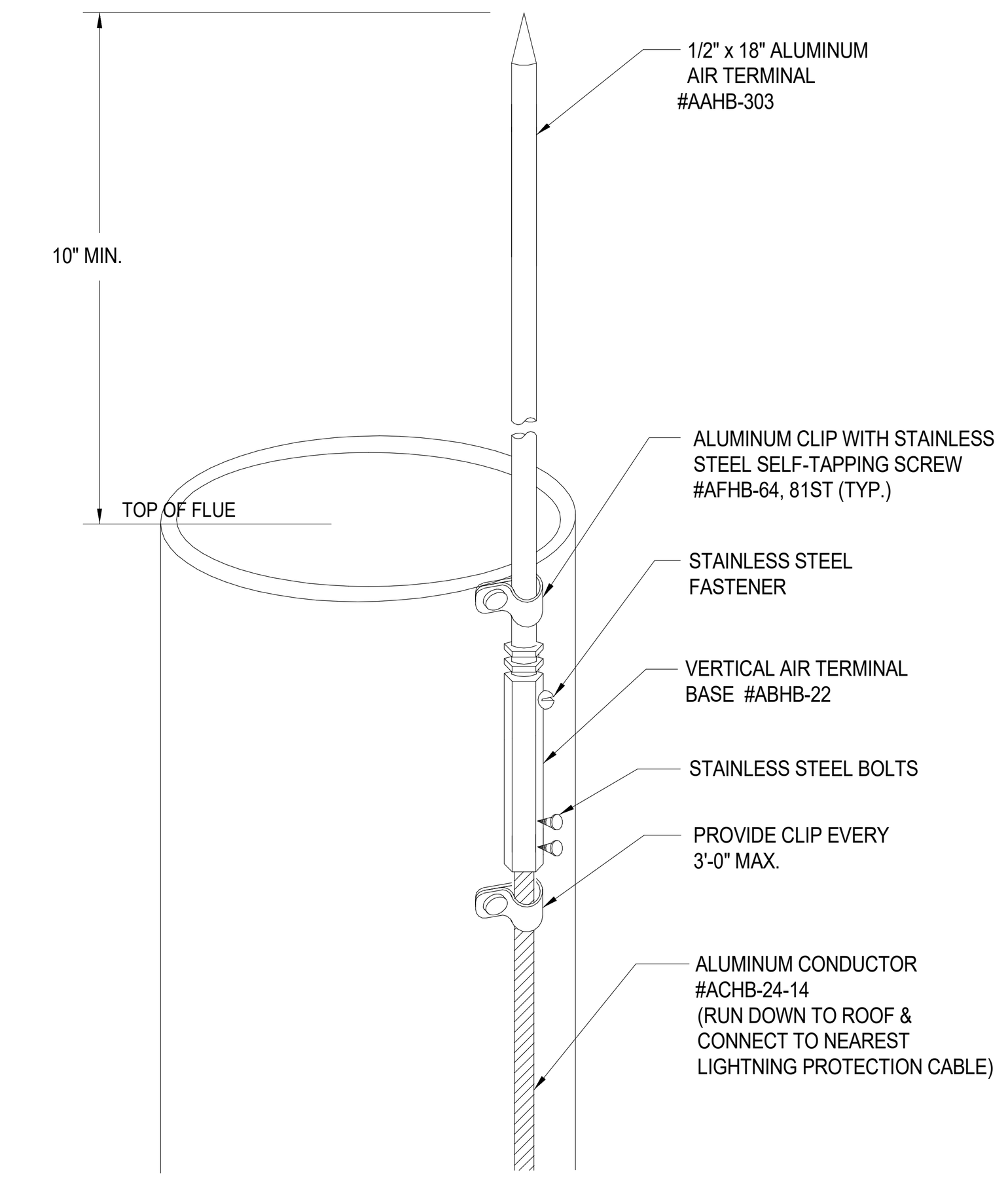
2 OFFSET AIR TERMINAL BASE
NTS SYMBOL B



3 CONCEALED AIR TERMINAL BASE
NTS SYMBOL C

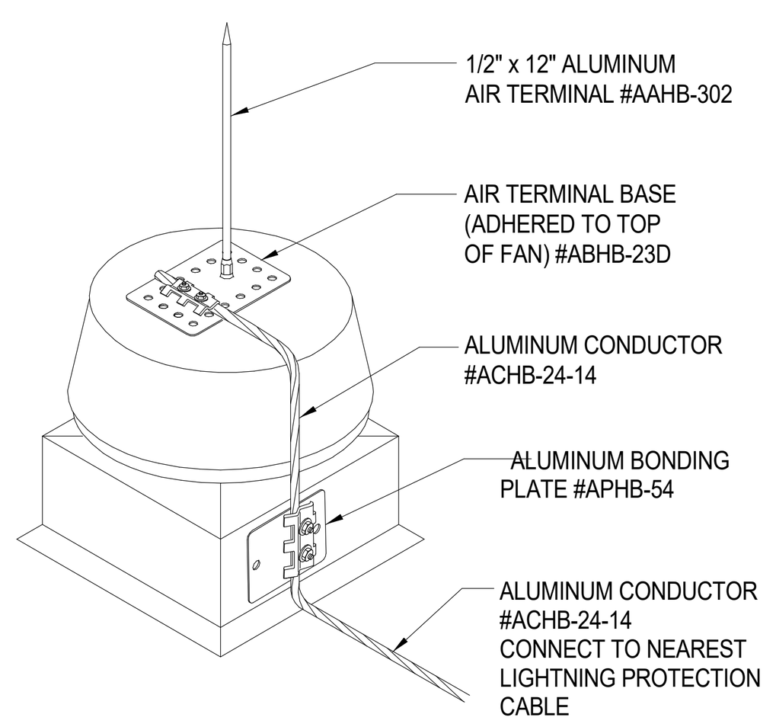


4 AIR TERMINALS AT CHIMNEY
NTS SYMBOL D

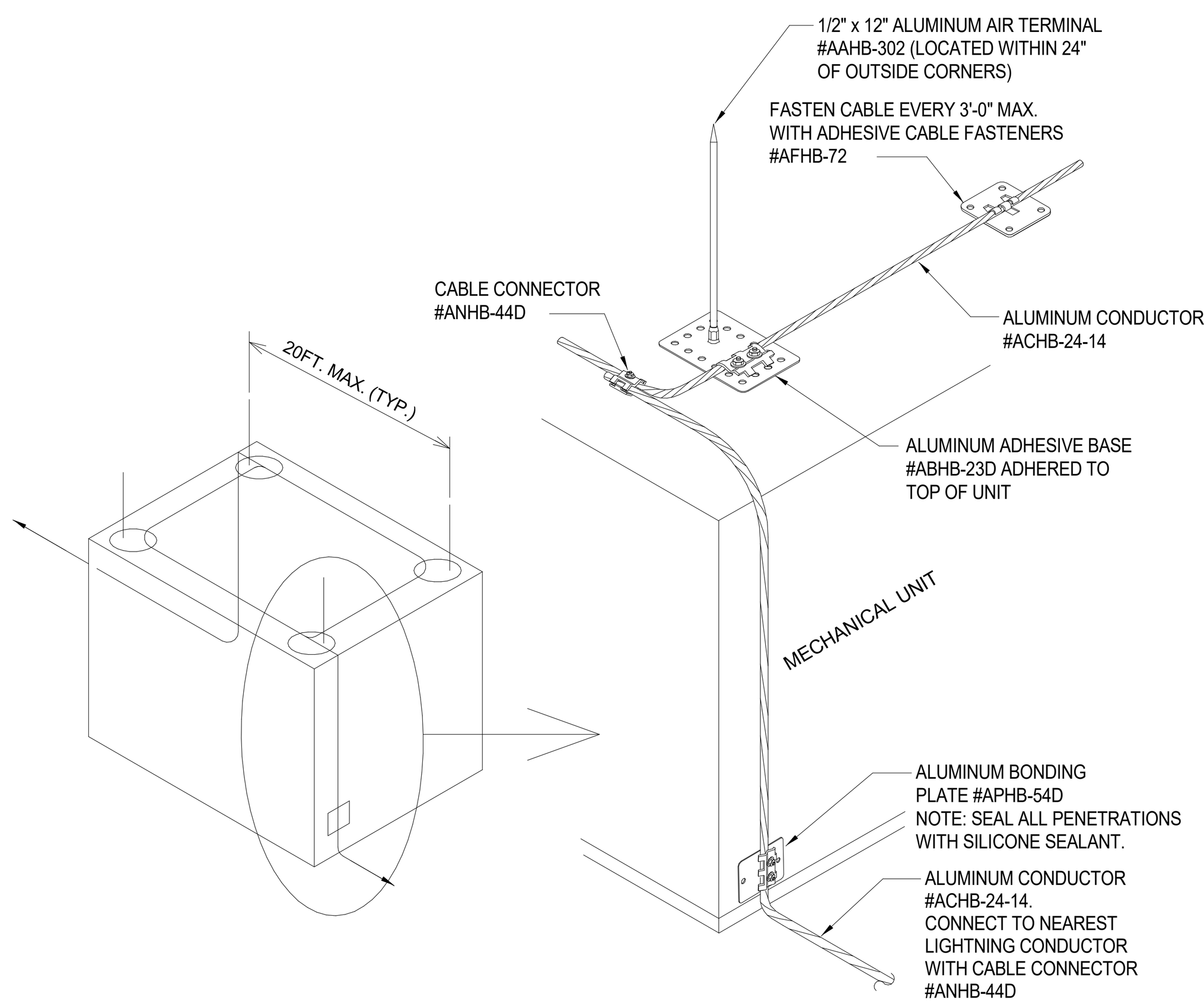


5 AIR TERMINAL AT FLUE
NTS SYMBOL V

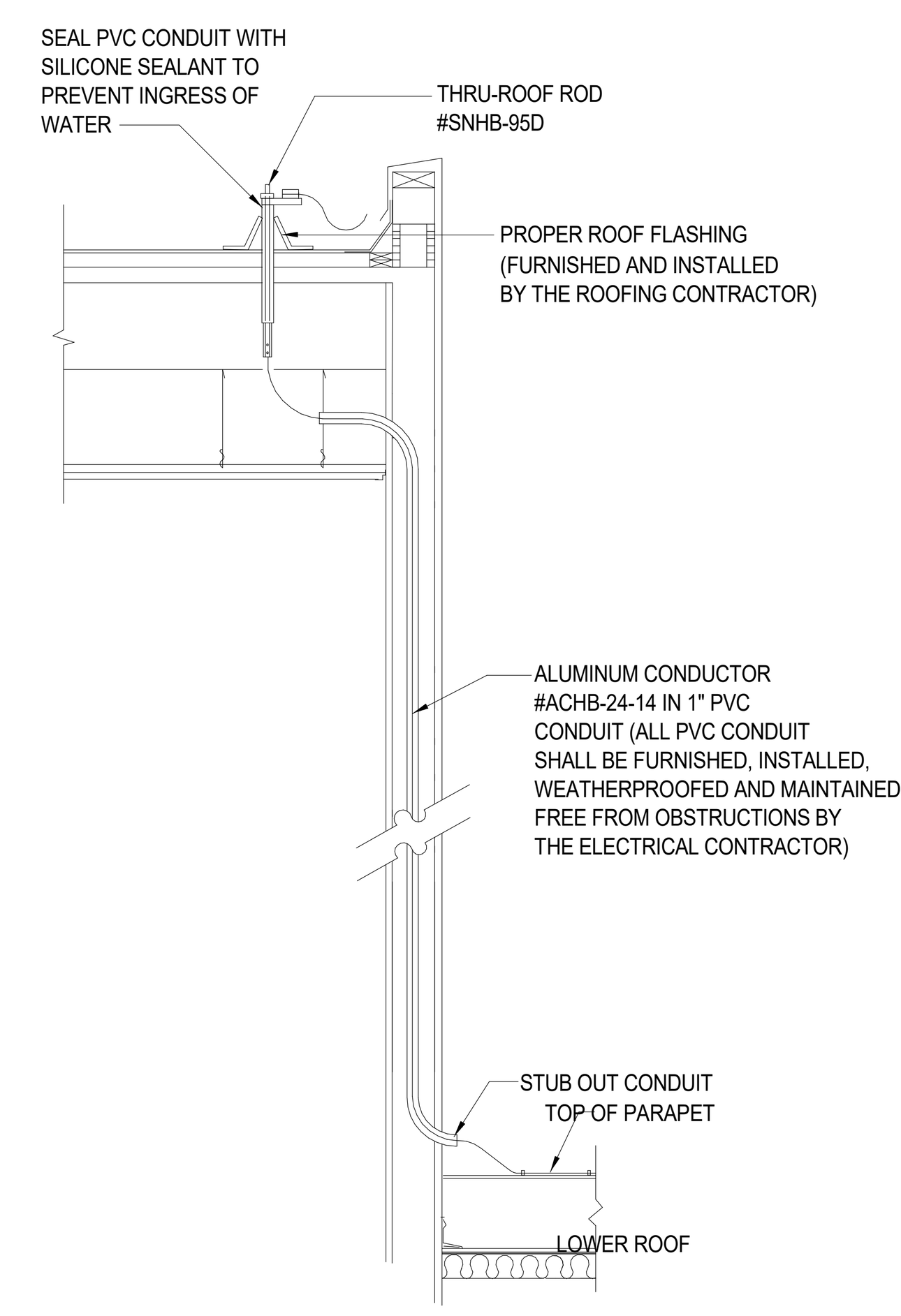
NOTE: AIR TERMINALS ARE REQUIRED ON ROOF VENTILATORS/EXH. FANS THAT ARE NOT WITHIN A ZONE OF PROTECTION OR WHEN HIGHER THAN ADJACENT AIR TERMINALS.



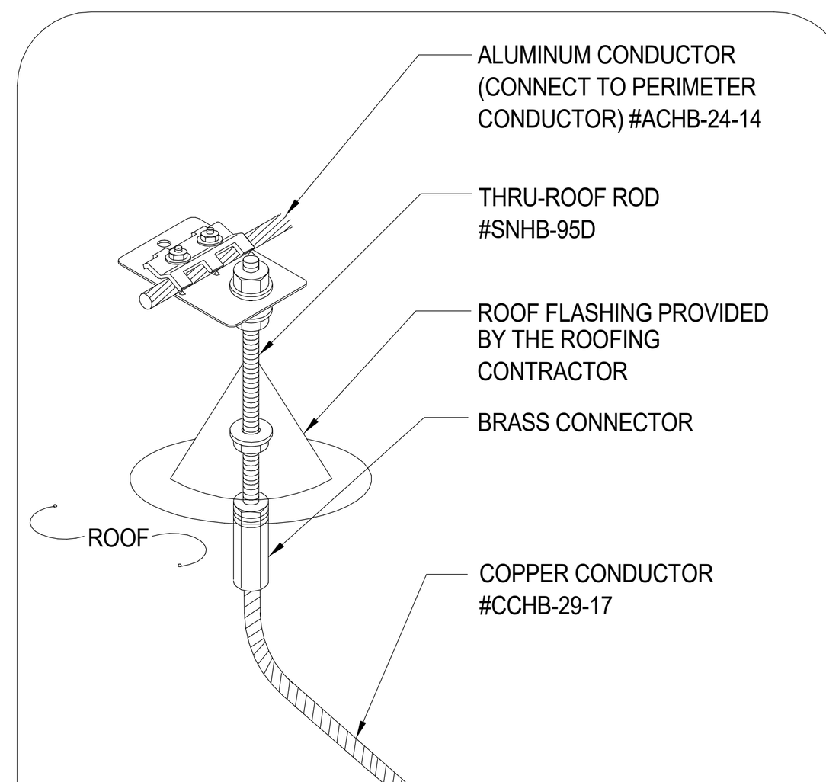
6 AIR TERMINAL AT EXH. FAN
NTS SYMBOL



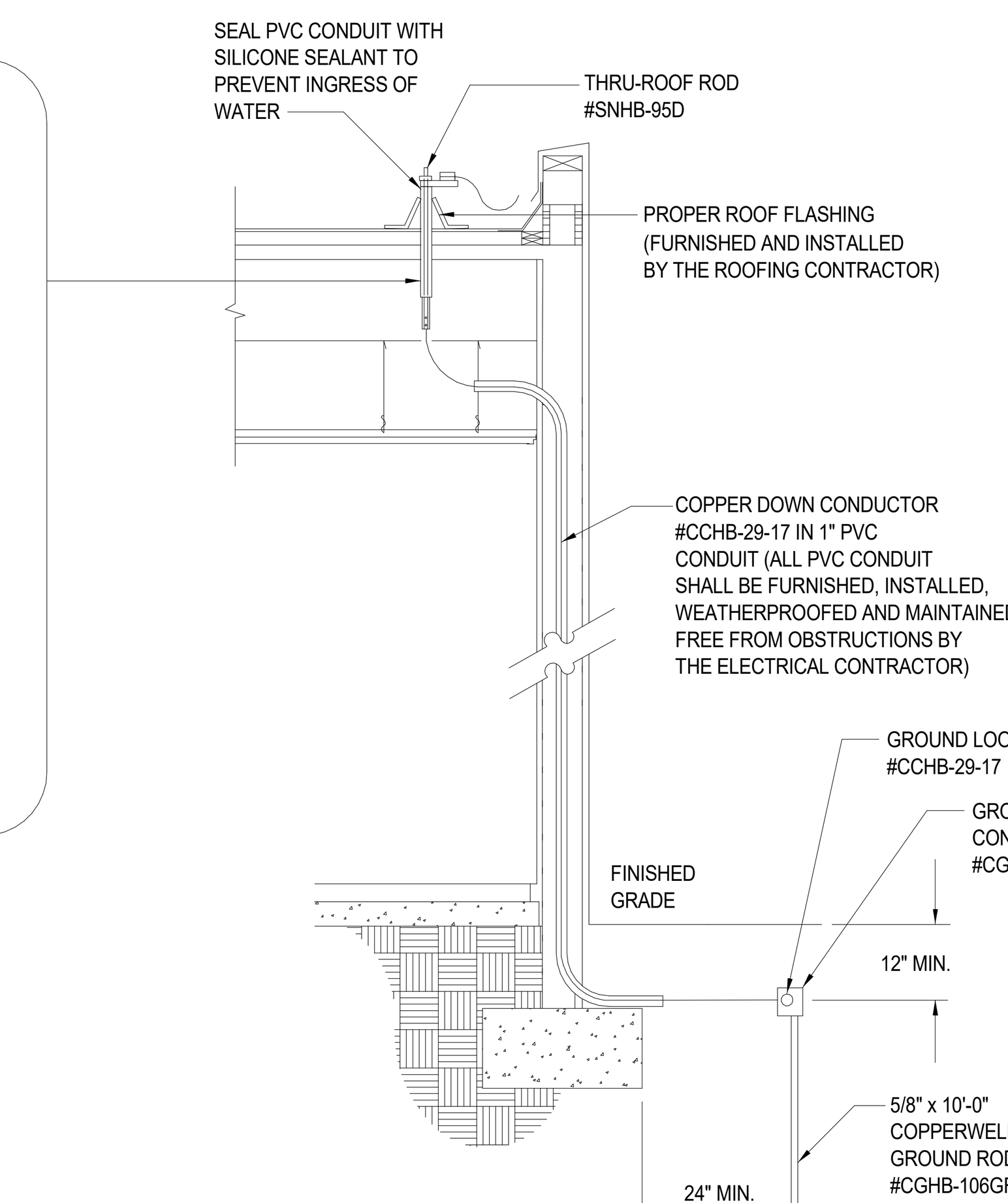
7 LIGHTNING PROTECTION AT ROOF TOP UNIT
NTS



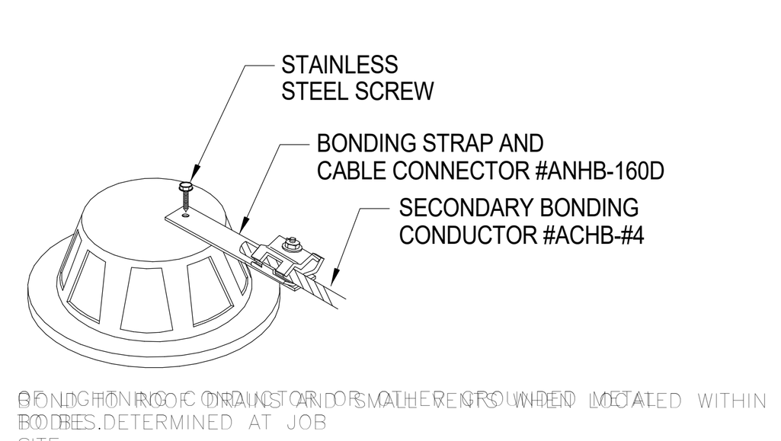
8 DOWN CONDUCTOR TO LOWER ROOF
NTS SYMBOL



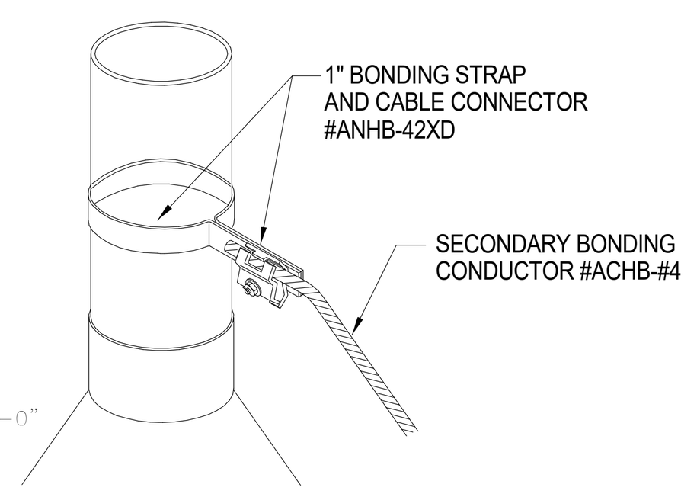
THRU-ROOF ROD



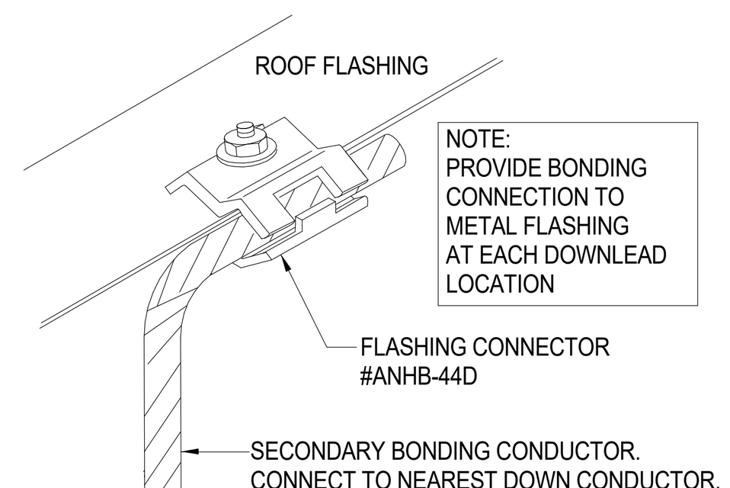
9 LIGHTNING PROTECTION GROUNDING
NTS SYMBOL



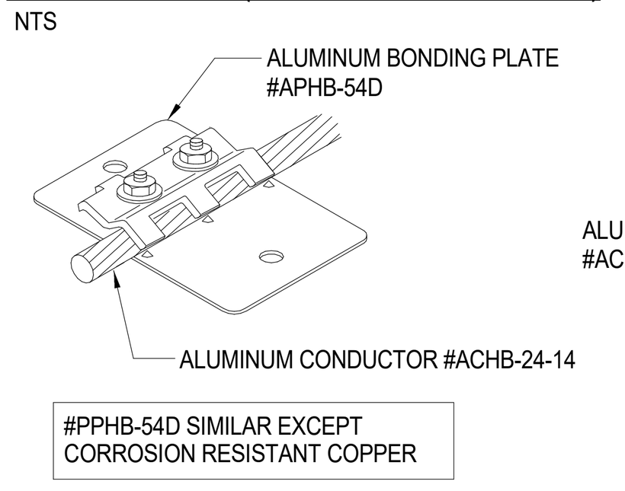
BONDING LUG (METAL ROOF DRAINS)
NTS



BONDING STRAP AT (METAL VENT PIPES)
NTS

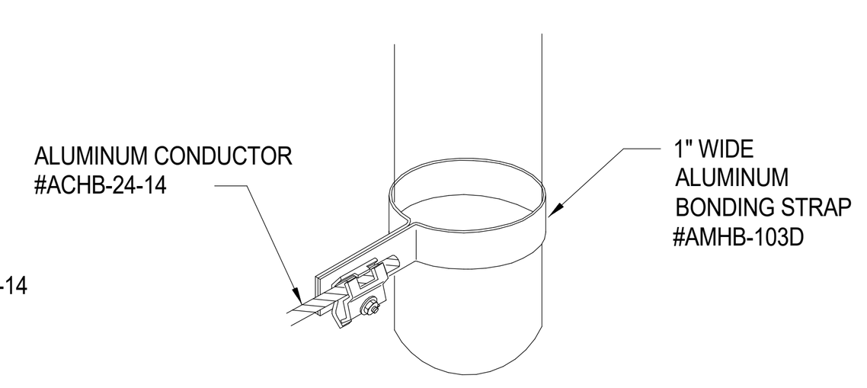


FLASHING CONNECTOR
NTS

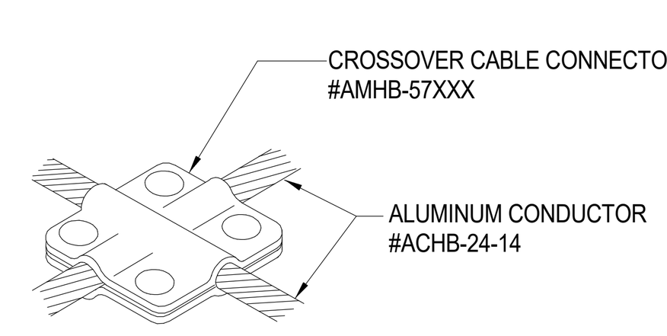


#PPHB-54D SIMILAR EXCEPT CORROSION RESISTANT COPPER

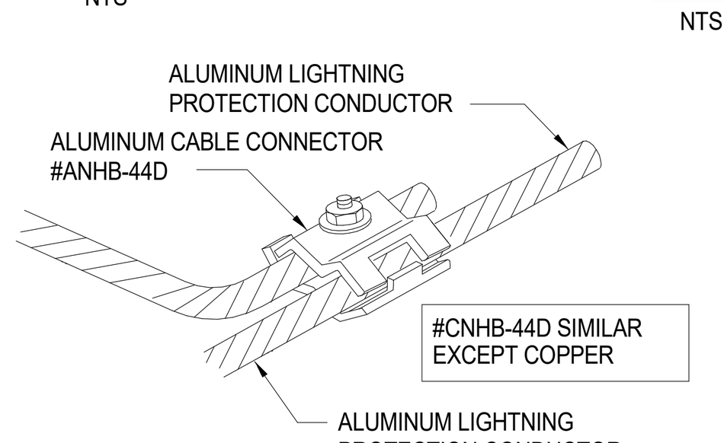
BONDING PLATE
NTS



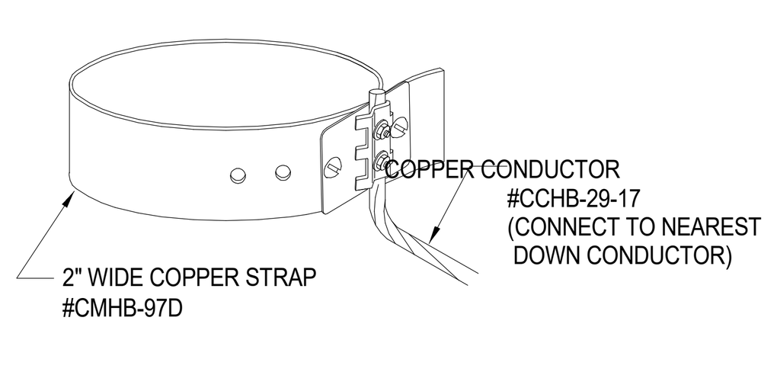
PIPE CLAMP (RAILINGS, ANTENNAS, ETC.)
NTS



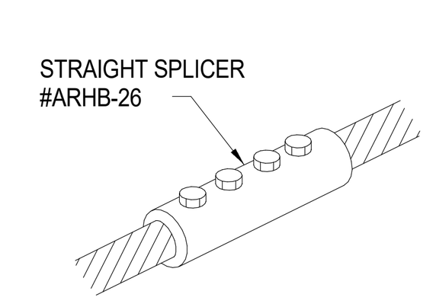
CROSSOVER CABLE CONNECTOR
NTS



CABLE CONNECTOR
NTS



WATERLINE BONDING STRAP
NTS



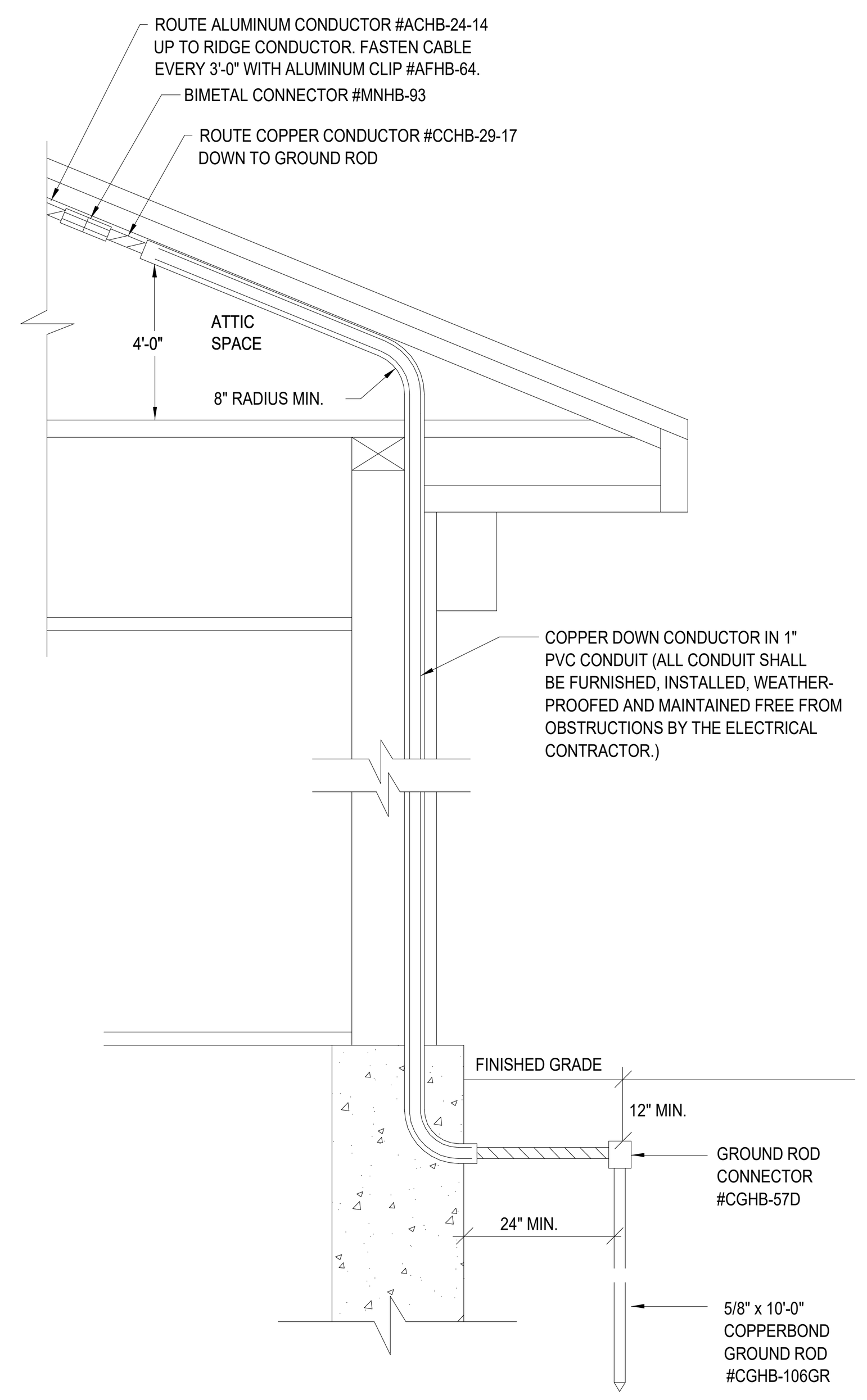
STRAIGHT SPLICER
NTS

LIGHTNING PROTECTION MATERIALS LIST

— - - —	ALUMINUM LIGHTNING PROTECTION MAIN ROOF CONDUCTOR	ACHB-24-14
	ALUMINUM LIGHTNING PROTECTION SECONDARY BONDING CABLE*	ACHB-#4
⌒ ⌒	COPPER LIGHTNING PROTECTION DOWN CONDUCTOR	CCHB-29-17
	BIMETAL CONNECTOR	MNHB-93
	CABLE FASTENERS (FASTEN CABLE EVERY 3FT. MAX.)	AFHB-72, 66, 64, CFHB-64
◎A	1/2" x 12" ALUMINUM AIR TERMINAL AND ADHESIVE BASE	AAHB-302, ABHB-23D
	1/2" x 12" ALUMINUM AIR TERMINAL AND ADHESIVE BASE (EXH. FANS, MECHANICAL EQUIPMENT, ETC.)	AAHB-302, ABHB-23D
◎B	1/2" x 12" ALUMINUM AIR TERMINAL AND OFFSET BASE (PARAPETS)	AAHB-302, ABHB-32D
◎C	1/2" x 12" ALUMINUM AIR TERMINAL AND CONCEALED BASE (AT INN)	AAHB-303, ABHB-8
◎D	1/2" x 24" ALUMINUM AIR TERMINAL AND TOP MOUNT BASE (AT CHIMNEY)	AAHB-304, ABHB-23D
◎V	1/2" x 18" ALUMINUM AIR TERMINAL AND VERTICAL BASE (AT FLUES)	AAHB-303, ABHB-22
▲ △	THRU-ROOF ROD	SNHB-95D
	SECONDARY BONDING: *FLASHING CONNECTOR *METAL ROOF DRAIN / GUTTER CONNECTOR *METAL VENT PIPE CONNECTOR	 ANHB-44D ANHB-160D ANHB-42X
◩	ALUMINUM BONDING PLATE (AT RTU & FANS)	APHB-54D
◩	ALUMINUM BONDING STRAP (AT FLUES)	APHB-97D
	CORROSION RESISTANT COPPER BONDING PLATE (TO TOP AND BOTTOM OF STEEL FRAMING, IF ANY, AT EACH DOWNLEAD)	PPHB-54D
	PIPE CLAMP (ANTENNAS, RAILINGS, ETC.)	AMHB-103D
	CABLE CONNECTOR	ANHB-44D, CNHB-44D
	STRAIGHT SPLICER	ARHB-26
	CROSSOVER CABLE CONNECTOR	AMHB-57XXX
	WATERLINE CONNECTOR (FIRE WATER & DOMESTIC WATER)	CMHB-97D
—⊣	5/8" x 10'-0" COPPERWELD GROUND ROD AND CONNECTOR	CGHB-106GR, 57D

LIGHTNING PROTECTION NOTES

1. ALL MATERIALS SHOWN ARE MANUFACTURED BY HEARY BROS. LIGHTNING PROTECTION CO., INC.
2. THE LIGHTNING PROTECTION SYSTEM AS SHOWN ON DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH UL96A & NFPA-780 LIGHTNING PROTECTION SYSTEM STANDARDS.
3. CONDUCTORS SHALL MAINTAIN A HORIZONTAL OR DOWNWARD COURSE, FREE FROM "U" OR "V" (DOWN AND UP) POCKETS.
4. NO BEND OF CONDUCTOR SHALL FORM AN ANGLE OF LESS THAN 90° NOR SHALL HAVE A RADIUS OF BEND LESS THAN 8".
5. AIR TERMINALS SHALL BE SPACED EVERY 20'-0" MAXIMUM AROUND THE ROOF PERIMETER AND/OR ALONG ROOF RIDGES. AIR TERMINALS SHALL BE LOCATED WITHIN 2'-0" OF OUTSIDE CORNERS.
6. AIR TERMINALS SHALL BE SPACED EVERY 50'-0" MAXIMUM IN CENTER ROOF AREAS.
7. ACTUAL JOBSITE CONDITIONS MAY REQUIRE SLIGHT ALTERATIONS IN AIR TERMINAL, DOWN CONDUCTOR AND GROUND ROD LOCATIONS.
8. BARE COPPER MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM OR GALVALUM SURFACES, AND ALUMINUM MATERIALS SHALL NOT BE INSTALLED ON COPPER SURFACES.
9. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED EVERY 3'-0" MAX.
10. ALL BOLTS ON BOLT-PRESSURE CONNECTORS SHALL BE TORQUED AT 150 FT-LB (17N-m).
11. ALL CONNECTIONS MUST BE USED WITH UL LISTED CLASS I OR CLASS II CABLE OF SAME METAL TYPE.
12. BOND SMALL METAL BODIES OF INDUCTANCE SITUATED WITHIN 6'-0" OF A LIGHTNING CONDUCTOR OR ANOTHER BONDED METAL BODY TO THE LIGHTNING PROTECTION CONDUCTOR SYSTEM, UNLESS INHERENTLY GROUNDED.
13. BOND ALL LARGE METAL BODIES TO THE LIGHTNING PROTECTION CONDUCTOR SYSTEM. (I.E.; EXHAUST FANS, ROOF VENTS, METAL COOLING TOWERS, HVAC UNITS, LADDERS, RAILINGS, ANTENNAS, SKYLIGHTS, METAL STACKS, AND ANY OTHER LARGE METAL BODIES WHOSE HEIGHT EXCEEDS THAT OF ADJACENT AIR TERMINALS).
14. CONNECTIONS TO GROUND RODS SHALL BE MADE AT A POINT NOT LESS THAN 1'-0" BELOW FINISHED GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
15. BOND TO WATERLINES (DOMESTIC & FIRE).
16. A LIGHTNING ARRESTOR, PROTECTOR OR ANTENNA DISCHARGE UNIT SHALL BE INSTALLED ON EACH ELECTRIC AND TELEPHONE SERVICE AND RADIO AND TELEVISION ANTENNA LEAD-IN BY THE ELECTRICAL CONTRACTOR, IN ACCORDANCE WITH NFPA-70.
17. TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) OF SERVICES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. (I.E. COMPUTERS, COPIERS, TELEPHONE, ETC.).
18. PROVIDE UL MASTER LABEL CERTIFICATION UPON COMPLETION OF INSTALLATION..



10 LIGHTNING PROTECTION GROUNDING
NTS SYMBOL

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CONTRACTOR

CONSULTANT
me engineers

ISSUE DATES

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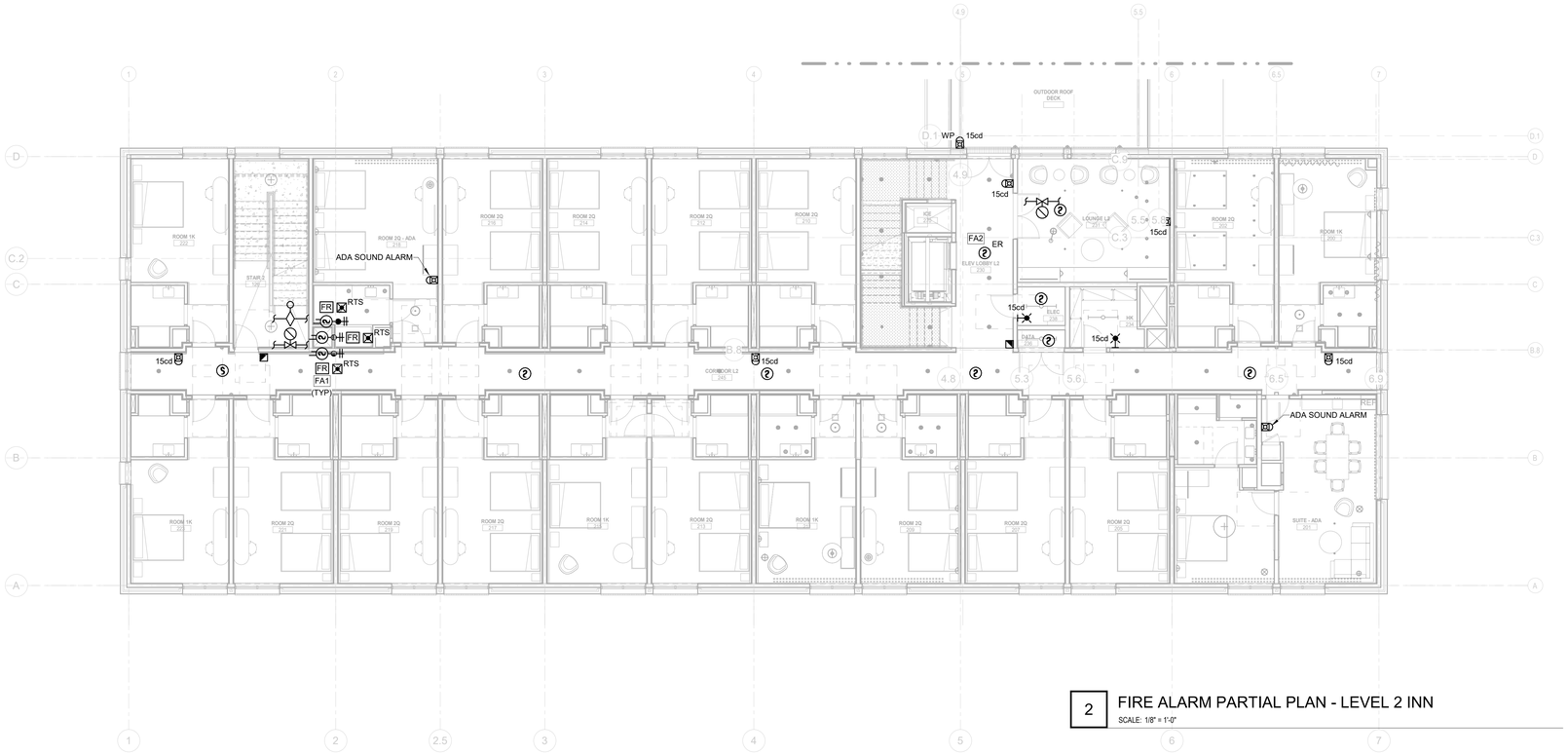
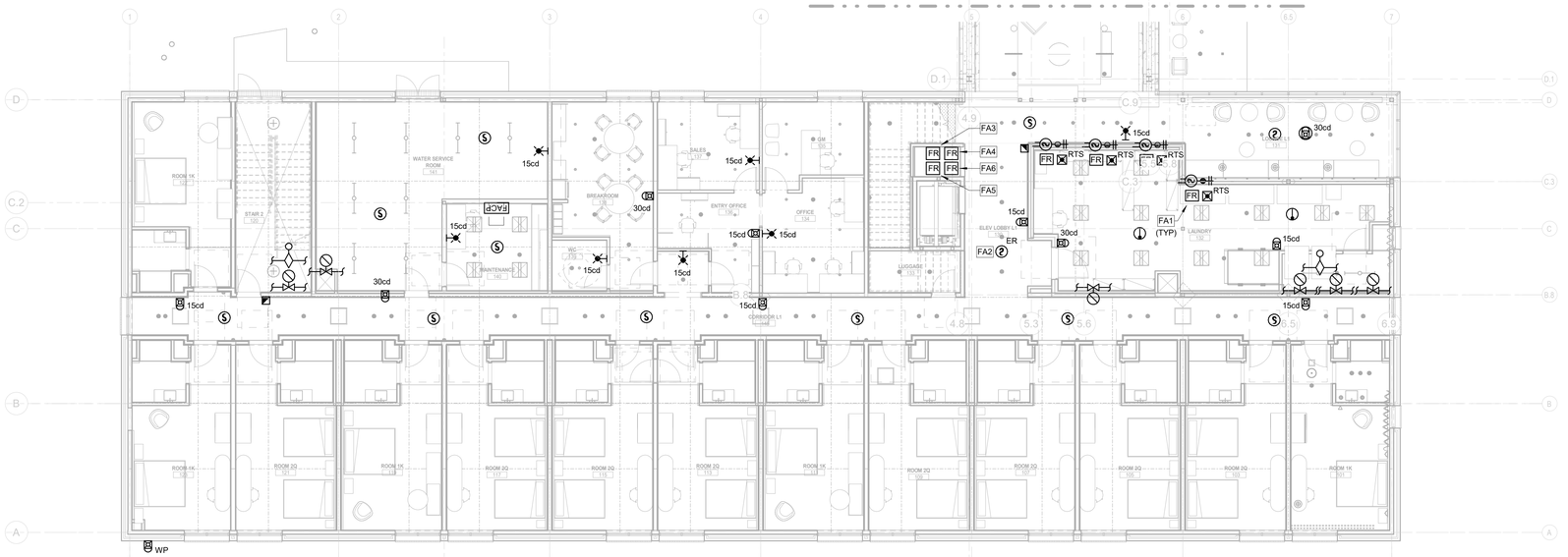
LIGHTNING PROTECTION DETAILS
SCALE: AS INDICATED

E9.50



2 FIRE ALARM PARTIAL PLAN - LEVEL 2 INN
SCALE: 1/8" = 1'-0"



1 FIRE ALARM PARTIAL PLAN - LEVEL 1 INN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES REFER TO ARCHITECTURAL DRAWINGS.
2. REFER TO MECHANICAL DRAWINGS FOR DUCT TYPE SMOKE DETECTORS QUANTITIES AND LOCATIONS. PROVIDE (1) DUCT TYPE SMOKE DETECTORS FOR EACH AIR HANDLING UNIT AND RETURN FAN OF 2,000 CFM AND GREATER. FOR EACH DUCT DETECTOR, PROVIDE FIRE ALARM RELAY TO SHUT DOWN ASSOCIATED MECHANICAL UNIT EXCEPT THOSE EXEMPTED FROM THIS REQUIREMENT. EXEMPTIONS INCLUDE FANS THAT DO NOT MOVE AIR BEYOND THE ROOM THEY ARE INSTALLED.
3. PROVIDE A REMOTE TEST SWITCH AND LED INDICATOR LIGHT FOR ALL DUCT DETECTORS THAT ARE NOT READILY ACCESSIBLE. LOCATE REMOTE TEST SWITCH AT NEAREST ACCESSIBLE CEILING OR MEP ROOM.
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10. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN POURED CONCRETE, PRE-CAST CONCRETE, MASONRY AND GYP. WALLS.
11. ALL FIRE ALARM ANNUNCIATING DEVICES SHALL BE WHITE.
12. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
13. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES

FA1	PROVIDE A FIRE ALARM CONTROL RELAY FOR CONTROL OF DAMPER MOTOR POWER FOR ALL FIRE SMOKE DAMPERS. ROUTE POWER VIA FIRE ALARM RELAY.
FA2	SMOKE DETECTOR SHALL INITIATE ELEVATOR RECALL TO UPON ACTIVATION.
FA3	SUPERVISED CONTROL CIRCUIT FOR PHASE 1 ELEVATOR RECALL TO DESIGNATED FLOOR. ACTIVATED BY SMOKE DETECTOR LOCATED IN LOBBY, LOCATED IN ELEVATOR SHAFT OR MACHINE ROOM/CONTROL SPACE. LOCATE RELAY WITHIN 3 FEET OF THE CONTROLLER.
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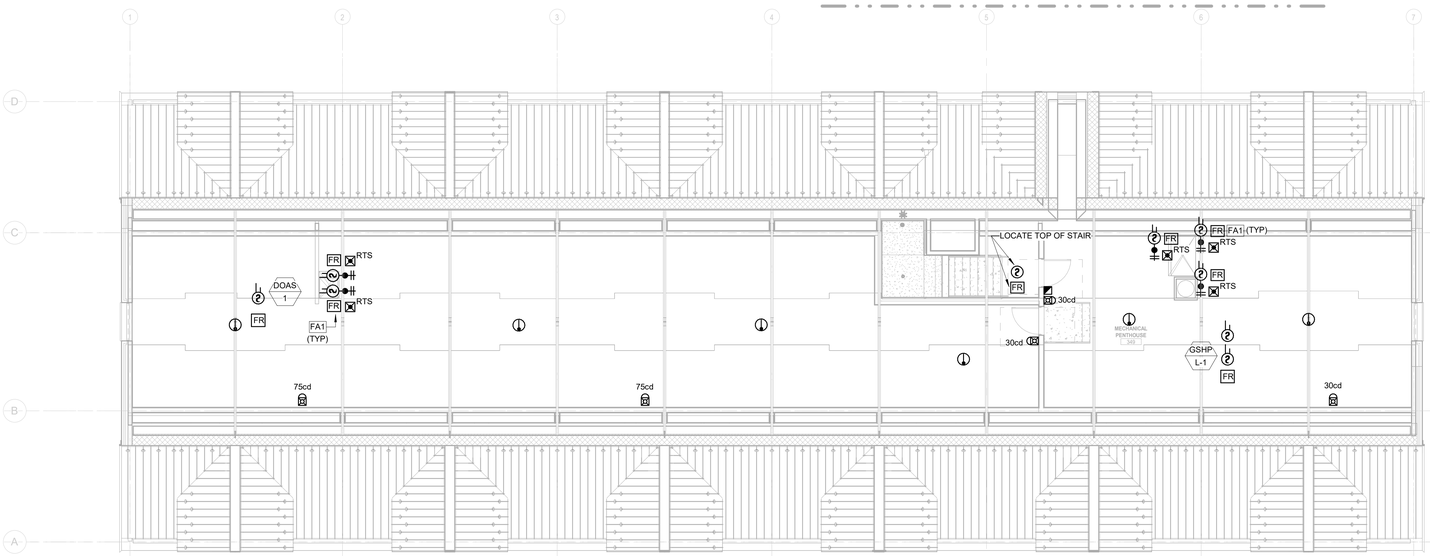
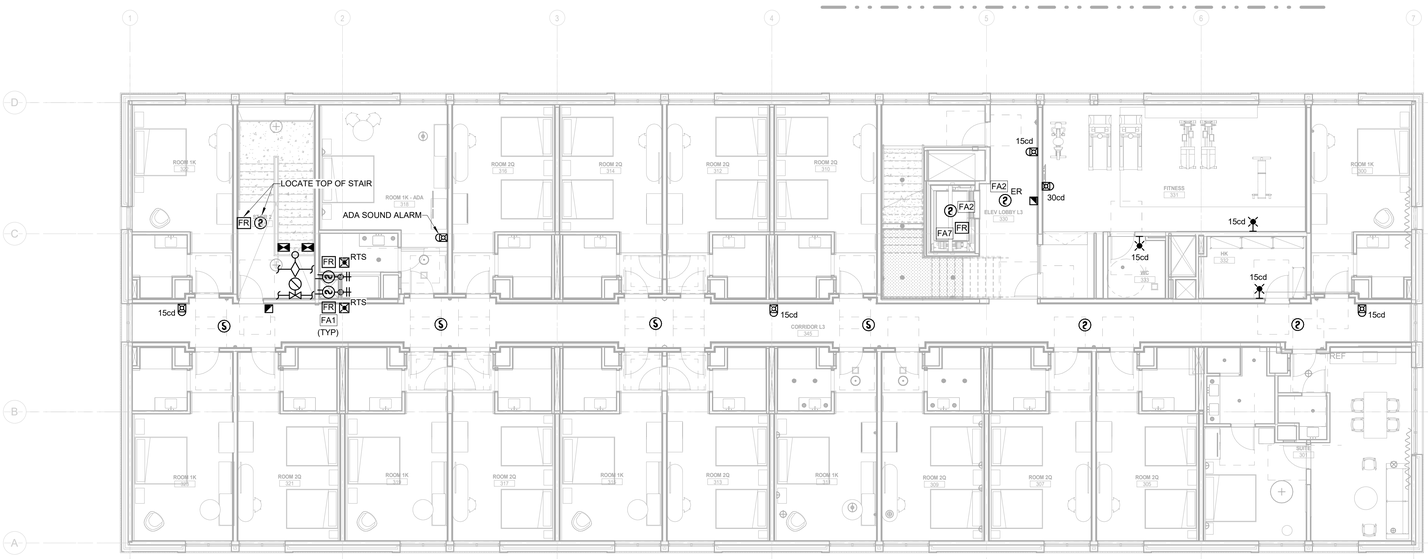
FIRE ALARM PARTIAL PLANS - LEVEL 1/2 INN

SCALE: AS INDICATED

FA2.11



2 FIRE ALARM PARTIAL PLAN - PENTHOUSE LEVEL INN
SCALE: 1/8" = 1'-0"



1 FIRE ALARM PARTIAL PLAN - LEVEL 3 INN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES REFER TO ARCHITECTURAL DRAWINGS.
2. REFER TO MECHANICAL DRAWINGS FOR DUCT TYPE SMOKE DETECTORS QUANTITIES AND LOCATIONS. PROVIDE (1) DUCT TYPE SMOKE DETECTORS FOR EACH AIR HANDLING UNIT AND RETURN FAN OF 2,000 CFM AND GREATER. FOR EACH DUCT DETECTOR, PROVIDE FIRE ALARM RELAY TO SHUT DOWN ASSOCIATED MECHANICAL UNIT EXCEPT THOSE EXEMPTED FROM THIS REQUIREMENT. EXEMPTIONS INCLUDE FANS THAT DO NOT MOVE AIR BEYOND THE ROOM THEY ARE INSTALLED.
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10. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN POURED CONCRETE, PRE-CAST CONCRETE, MASONRY AND GYP. WALLS.
11. ALL FIRE ALARM ANNUNCIATING DEVICES SHALL BE WHITE.
12. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
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KEYNOTES	
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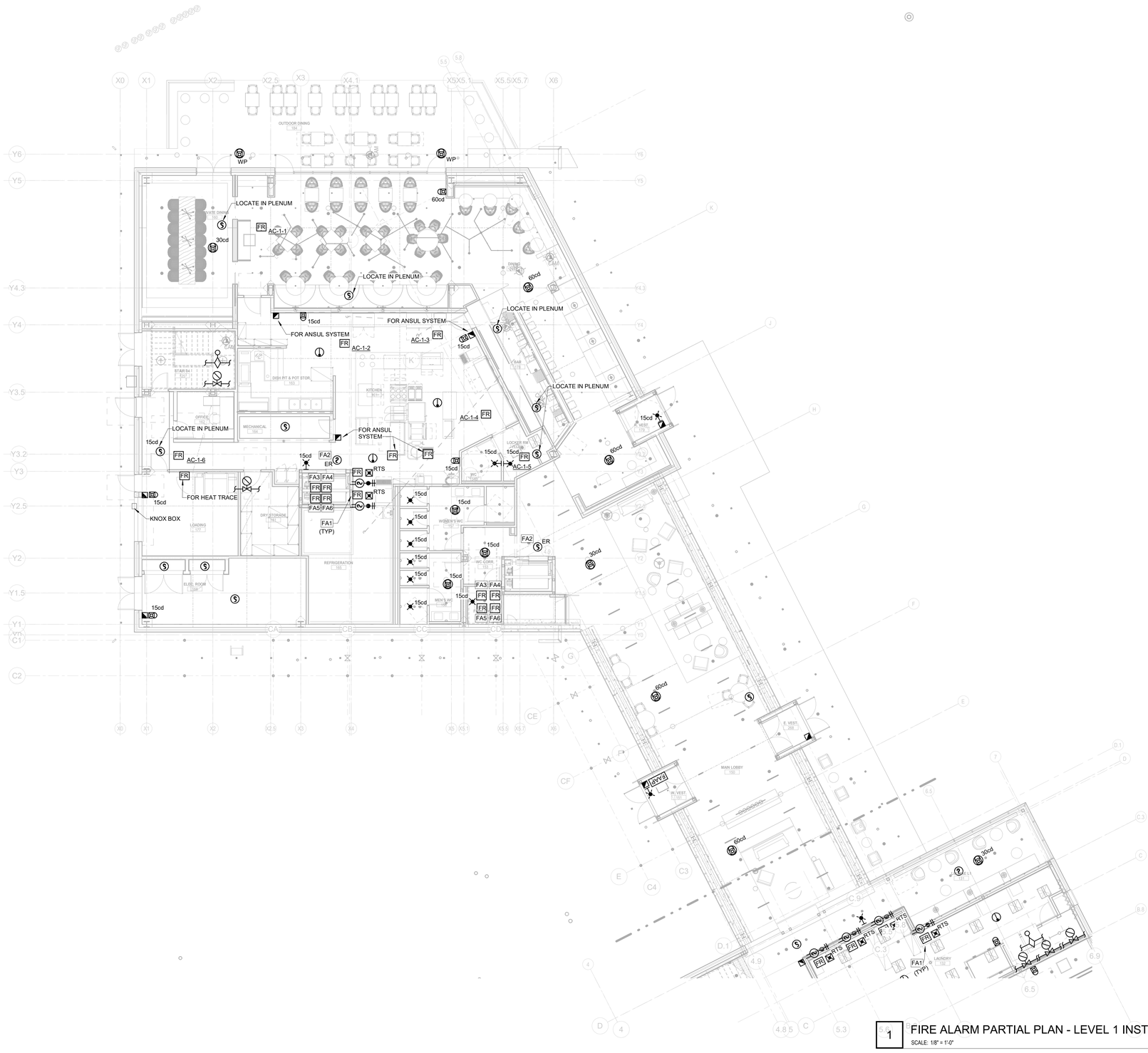
FIRE ALARM PARTIAL PLANS - LEVEL 3/PH INN

SCALE: AS INDICATED

FA2.12



1 FIRE ALARM PARTIAL PLAN - LEVEL 1 INSTITUTE
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES REFER TO ARCHITECTURAL DRAWINGS.
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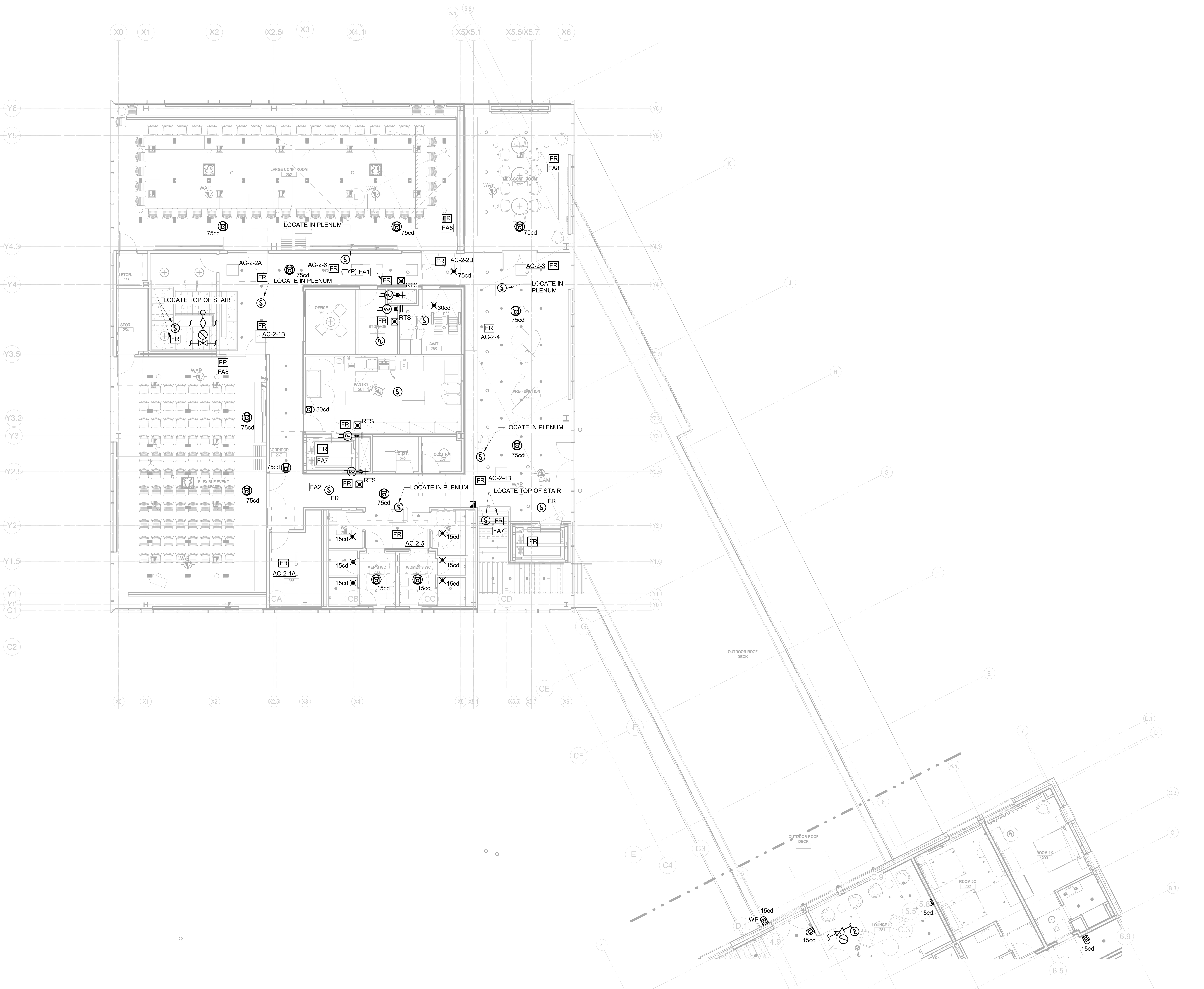
FIRE ALARM PARTIAL PLAN - LEVEL 1 INSTITUTE

SCALE: AS INDICATED

FA2.14



1 FIRE ALARM PARTIAL PLAN - LEVEL 2 INSTITUTE
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

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FA7	RELAY FOR ELEVATOR SHAFT VENTILATION DAMPER. ACTUATED BY SMOKE DETECTOR IN ELEVATOR SHAFT.
FA8	RELAY FOR AV SYSTEM OVERRIDE.

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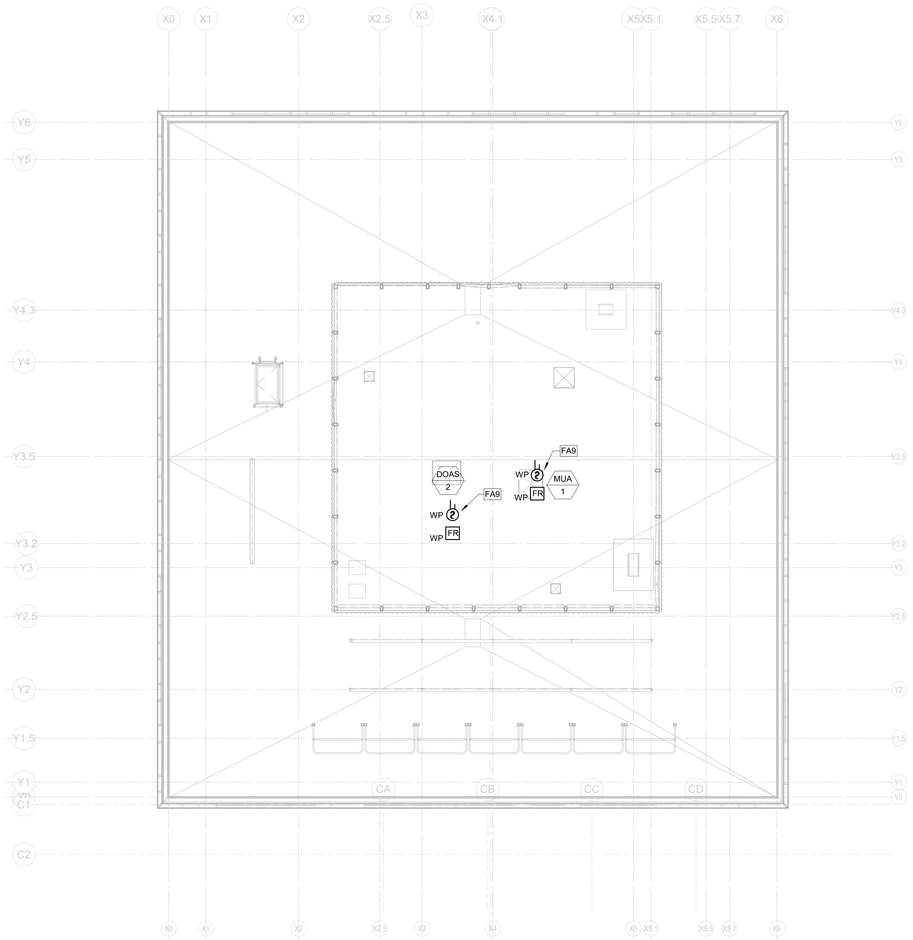
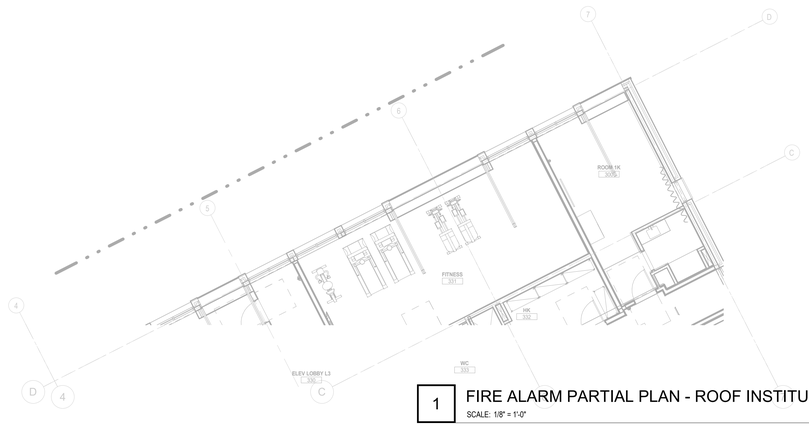
FIRE ALARM PARTIAL PLAN - LEVEL 2 INSTITUTE
SCALE: AS INDICATED

FA2.15





1 FIRE ALARM PARTIAL PLAN - ROOF INSTITUTE
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

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11. ALL FIRE ALARM ANNUNCIATING DEVICES SHALL BE WHITE.
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13. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES

FA9	DUCT DETECTOR PROVIDED WITH THE UNIT. CONTRACTOR SHALL PROVIDE ALL REQUIRED INSTALLATION, RELAYS AND PROGRAMMING AS REQUIRED FOR CONNECTION TO THE BUILDING FIRE ALARM SYSTEM.

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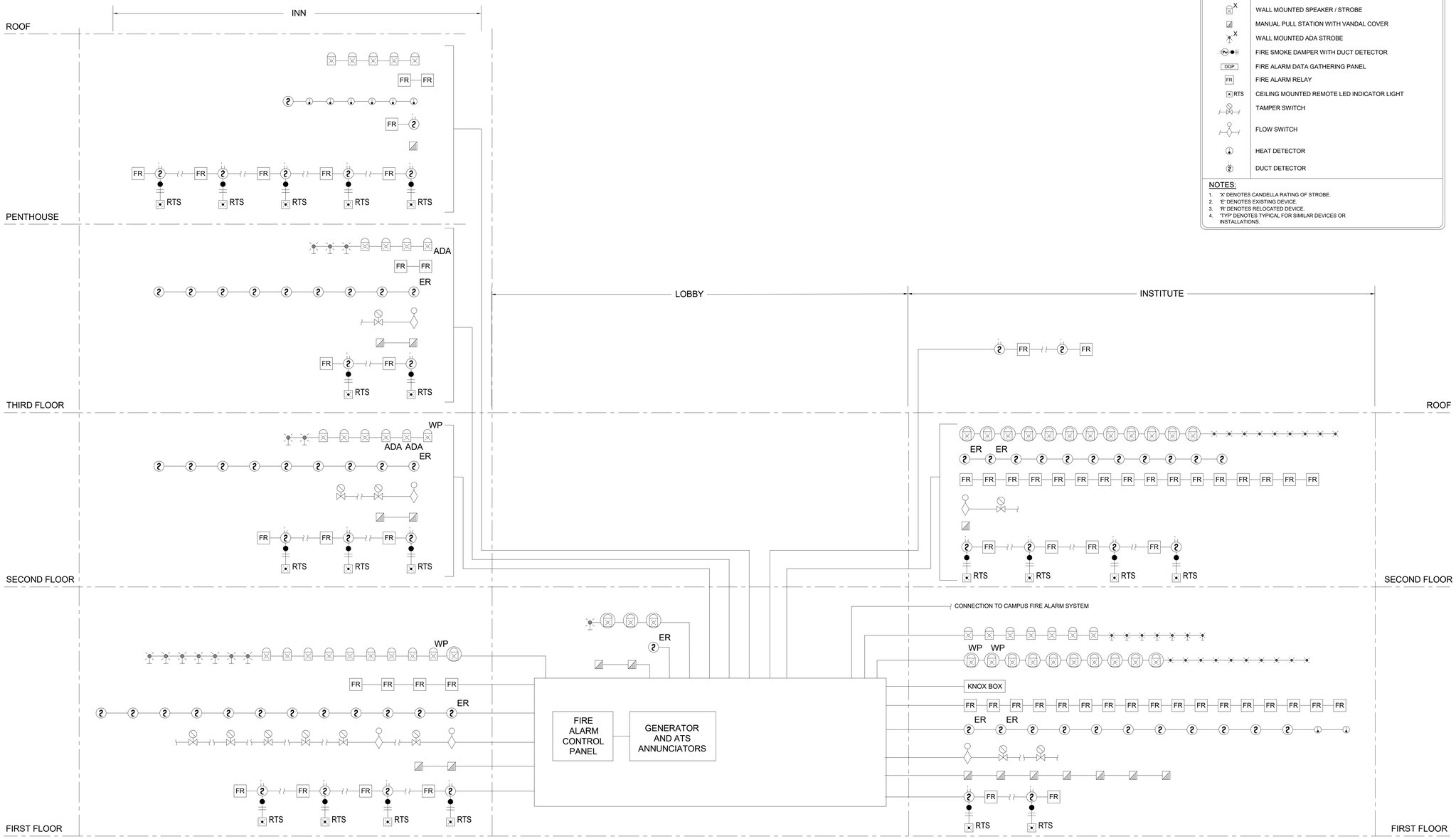
FIRE ALARM PARTIAL PLAN - ROOF INSTITUTE

SCALE: AS INDICATED

FA2.16



FIRE ALARM

	SMOKE DETECTOR
ER	SMOKE DETECTOR FOR ELEVATOR RECALL
X	WALL MOUNTED SPEAKER / STROBE
	MANUAL PULL STATION WITH VANDAL COVER
X	WALL MOUNTED ADA STROBE
	FIRE SMOKE DAMPER WITH DUCT DETECTOR
DGP	FIRE ALARM DATA GATHERING PANEL
FR	FIRE ALARM RELAY
RTS	CEILING MOUNTED REMOTE LED INDICATOR LIGHT
	TAMPER SWITCH
	FLOW SWITCH
	HEAT DETECTOR
	DUCT DETECTOR

NOTES:

1. 'X' DENOTES CANDELLA RATING OF STROBE.
2. 'E' DENOTES EXISTING DEVICE.
3. 'R' DENOTES RELOCATED DEVICE.
4. 'TYP' DENOTES TYPICAL FOR SIMILAR DEVICES OR INSTALLATIONS.

GENERAL NOTES

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2. PROVIDE A REMOTE TEST SWITCH AND LED INDICATOR LIGHT FOR ALL DUCT DETECTORS THAT ARE NOT READILY ACCESSIBLE. LOCATE REMOTE TEST SWITCH AT NEAREST ACCESSIBLE CEILING OR MEP ROOM.
3. REFER TO FIRE PROTECTION DRAWINGS FOR WATER FLOW AND TAMPER QUANTITIES AND LOCATIONS. PROVIDE COMPLETE INTEGRATION INTO FIRE ALARM SYSTEM.
4. REFER TO MECHANICAL DRAWINGS FOR FIRE/SMOKE DAMPER QUANTITIES AND LOCATIONS. PROVIDE COMPLETE INTEGRATION INTO FIRE ALARM SYSTEM.
5. ALL NEW FIRE ALARM SYSTEM SHALL BE INSTALLED UNDER DIRECT SUPERVISION OF EXISTING SYSTEM SUPPLIER WHO SHALL WARRANTY ALL WORK FOR (1) YEAR (SAFECO ALARM SYSTEMS, INC, PAUL SISTARE, 845-338-4440.)
6. COORDINATE EXACT LOCATIONS OF FIRE ALARM DEVICES WITH LOCATIONS OF MECHANICAL EQUIPMENT AND LIGHTING.
7. PROVIDE #14 AWG MINIMUM WIRING FOR ALL SIGNAL AND INITIATION DEVICES.
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NFPA OPERATIONS MATRIX

SYSTEM OUTPUTS

		Control Unit Annunciation						Notification							Required Fire Safety Control						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 WATERFLOW SIGNAL TO SUPERVISING STATION	L TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	O TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	P RELEASE MAGNETICALLY HELD DOORS	Q RECALL ELEVATORS TO GROUND FLOOR, OPEN CAB DOOR	R REMOVE ELEVATOR POWER (SHUNT TRIP)	S CLOSE SMOKE/FIRE DAMPERS IN RATED WALLS	T UNLOCK NECESSARY EXITS	U OPEN APPROPRIATE SMOKE HATCH	V SHUT DOWN ASSOCIATED FAN	W CLOSE ASSOCIATED SMOKE DAMPER	
SYSTEM INPUTS		A	B	C	D	E	F	G	H	I	J	K	L	O	P	Q	R	S	T	U	V	W	
1	MANUAL FIRE ALARM BOXES	X	X						X		X				X								1
2	AREA SMOKE OR HEAT DETECTORS	X	X						X	X					X			X	X	X	X	X	2
3	ELEVATOR LOBBY, TOP OF SHAFT & MACHINE RM SMOKE DETECTORS	X	X						X	X					X	X		X	X		X	X	3
4	IN-DUCT SMOKE DETECTORS	X	X						X	X					X			X	X		X	X	4
5	HEAT DETECTORS	X	X						X	X					X			X	X		X	X	5
6	ELEVATOR SHAFT HEAT DETECTOR	X	X						X	X					X	X	X	X			X	X	6
7	WATERFLOW	X	X						X			X			X	X		X	X		X	X	7
8	SMOKE AND/OR CARBON MONOXIDE ALARMS																						8
9	SPRINKLER CONTROL VALVE (TAMPER SWITCH)			X	X				X				X										9
10	LOW/HIGH LEVEL/TEMP/PRESSURE SWITCHES			X	X				X				X										11
11	FIRE ALARM AC FAILURE					X	X		X					X									13
12	FIRE ALARM SYSTEM LOW BATTERY					X	X		X					X									14
13	OPEN CIRCUIT					X	X		X					X									15
14	GROUND FAULT					X	X		X					X									16
15	NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X		X					X									17
16	SUBSYSTEM ALARM	X	X						X	X					X			X	X				18
17	SUBSYSTEM TROUBLE					X	X		X					X									19
18	DRILL SWITCH																						20

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ISSUE DATES

09/03/2019 100% DESIGN DEVELOPMENT
12/13/2019 50% CONSTRUCTION DOCUMENTS
04/10/2020 ISSUED FOR PERMIT
05/01/2020 ISSUED FOR CONSTRUCTION
07/01/2020 GMP SET
12/18/2020 FINAL GMP SET
06/21/2021 BID SET

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FIRE ALARM ONE-LINES I

SCALE: AS INDICATED

FA6.00