

BLUE SIGNAL LIGHT

BATTERY LIGHTING UNITS AND REMOTE WALL MOUNTED

LIGHTHEADS (OR 1'-0" BELOW FINISHED CEILING OF TOP

WALL MOUNTED TV'S (AS SHOWN ON ARCH ELEVATIONS)

E FIGHTER PHONE JACK POF INTERCOM STATION EPHONE PAY STATIONS (MAX. SIDE REACH HEIGHT ADA)

\*PENDANT-HUNG INDUSTRIAL AND STRIP LIGHTING

WARNING OR SIGNALING FIXTURES/SIGNS

TOP OF LTG OR POWER PNL BOARDS

TOP OF FIRE ALARM PULL STATIONS, ADA COMPLIANT DEVICE ROUGH IN

ELECTRICAL RECEPTACLES W/N MECHANICAL SPACES,

\*RECEPTACLES, TEL, OUTLETS (DESK) INTERCOM OUTLET FOR DESKS, TELEVISION OUTLETS, UNO

W/S JUNCTION BOXES
WALL MOUNTED WIREMOLD NOT LOCATED ABOVE CASEWORK

TOP OF TEL CABINET/BACKBOARD

\*\*VISUAL FIRE ALARM
\*\*AUDIO/VISUAL FIRE ALARM

FIXT'S(NOT ABOVE DOOR)

TOP OF SAFETY DISC SW TOP OF CONTACTORS TOP OF MAGNETIC STARTERS

TEL "PS" (TOP OF COIN SLOT)

#### LIGHTING, POWER & SIGNAL SYMBOLS WALL MOUNTED JUNCTION BOXES FOR POWER (P) & TELECOM (C) SERVICE TO SYSTEMS FURNITURE: PROVIDE CIRCUITRY AS INDICATED AT POWER JUNCTION BOX AND CONNECT TO SYSTEMS FURNITURE WHIP. TELECOM PROVISIONS SHALL INCLUDE 4-11/16" SQ X 2-1/8"D BOX WITH 2-GANG COVER AND 1-1/4" EMPTY CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING WITH BUSHING, U.O.N. PHOTO CELL CONTROL DUPLEX RECEPTACLE OUTLET QUADRUPLEX RECEPTACLE OUTLET DUPLEX RECEPTACLE OUTLET - FLOOR MOUNTED **QUADRUPLEX RECEPTACLE OUTLET - FLOOR MOUNTED** DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTER ₩250-30 SPECIALTY RECEPTACLE OUTLET - NUMBERS DENOTE VOLTAGE AND AMPERE RATING. SPECIFIC MOUNTING HEIGHTS, REFER TO ARCH ELEVATIONS SURFACE MOUNTED RACEWAY WITH DEVICES AS SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING AND SPECIFICATION. MOTOR RATING IS INDICATED ON DRAWING ALL NECESSARY DISC SHALL BE INCLUDED AS NEEDED DISCONNECT SWITCH RATING AND TYPE AS REQUIRED BY NEC FUSED DISCONNECT SWITCH $\Box$ COMBINATION STARTER/DISCONNECT SWITCH MAGNETIC MOTOR STARTER (J) JUNCTION BOX INDICATES MOUNTING HEIGHT OTHER THAN STANDARD DEVICE REFER TO ARCHITECTS DWGS HP-EQUIPMENT LABEL IDENTIFICATION NUMBER GROUND ROD - 3/4" COPPER ROD 10'-0" LONG TELEDATA - DOUBLE GANG JUNCTION BOX, W/ PULL STRING SINGLE GANG PLASTER RING AND 1-1/4"C RACEWAY. PROVIDE QUANTITY OF CAT 5 CABLES FROM DATA CLOSET. - INDICATES FLOOR INDICATES CEILING (SPECIAL FUNCTION) c - CEILING MOUNTED FOR CAMERA #-QUANTITY OF JACKS/CABLES TELEPHONE - DOUBLE GANG JUNCTION BOX, W/ PULL STRING SINGLE GANG PLASTER RING AND 3/4"C RACEWAY(TELEPHONE (1) CAT 6E CABLES INSTALLED BY OTHERS). - INDICATES FLOOR INDICATES CEILING - (SPECIAL FUNCTION) FX - FAX OUTLET # - QUANTITY OF JACKS E - EMERGENCY PROVIDE WIRING AND PROVISIONS AS DIRECTED

BY OWNER

POKE-THRU POWER AND DATA SYSTEM FURNITURE

FEEDS. SIMILAR TO WIREMOLD AMTC-4 SERIES.

2-GROUND, 1-DEDICATED CIRCUIT).

TAMPER SWITCH

FLOW SWITCH

INDIVIDUAL ADDRESSABLE MODULE

CARD READER, SHALL BE FAIL SAFE OPEN

OPEN IN EMERGENCY TYPE

(8 WIRE FEED 3 HOT, 2-NEUTRAL, 2-NEUTRAL, 2-GROUND

FLUSH MTD FLOOR OUTLET WITH 20A-120V RECEPTACLES

DUAL SERVICE, BLANK ALUMINUM POWER POLE FOR FURNITURE

FEED. CONDISTS OF (1) POWER FEED POKE-THRU AND (1) DATA FEED POKE-THRU.

#### SHEET NOTES ELECTRICAL:

- 1. PROVIDE ALL DEVICES AND ACCESSORIES ETC. WHERE NOTED ON DRAWINGS OR AS DIRECTED BY ARCHITECT/TENANT.
- 2. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE BUILDING SITE BEFORE INSTALLATION OF HIS WORK.
  - PROVIDE A COMPLETE INSTALLATION INCLUDING DISCONNECT SWITCHES, PULLBOXES, EQUIPMENT AND WIRING AS INDICATED ON PLANS AND SPECIFICATIONS. ALL ELECTRICAL DEVICES INTENDED FOR OPERATION BY THE OCCUPANTS, INCLUDING THERMOSTATS SERVICING BASEBOARD HEATERS, SWITCHES (TO TOP OF SWITCH) SHALL BE
  - INCHES MINIMUM ABOVE FLOOR, ALL APPLICABLE CONTROLS AND EQUIPMENT MUST CONFORM TO THE IBC 1109.3. MATERIALS, WORKMANSHIP AND COMPLETE INSTALLATION SHALL CONFIRM TO THE 2011 NATIONAL ELECTRIC CODE, STATE, AND ALL APPLICABLE REGULATIONS. ALL EQUIPMENT SHALL BE U.L. LISTED
  - FOR INTENDED APPLICATION. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS PRIOR TO BEGINNING WORK. AT THE COMPLETION OF THE JOB, THE ELECTRICAL CONTRACTOR SHALL FURNISH TO THE

ACCESSIBLE AND COMPLY WITH REACH RANGE REQUIREMENTS. THE HIGH FORWARD OR SIDE REACH

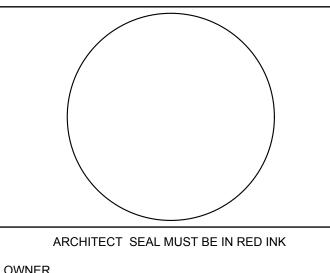
SHALL BE 48-INCHES MAXIMUM ABOVE THE FLOOR. THE LOW FORWARD OR SIDE REACH SHALL BE 115

- OWNER AN INSPECTION CERTIFICATE FROM A LICENSED INSPECTION AGENCY. TEST EQUIPMENT TO VERIFY THAT ITEMS ARE FREE FROM UNINTENDED GROUNDS, SHORT CIRCUITS, AND OPEN CIRCUITS AND THAT EQUIPMENT WILL OPERATE AS SPECIFIED. FURNISH LABOR AND MATERIAL FOR MAKING SUCH TESTS AND MAKE CORRECTIONS NECESSARY TO OBTAIN PROPER OPERATION.
- CONTRACTOR SHALL SUBMIT, TO THE OWNER FOR REVIEW, MANUFACTURERS CUT FOR ALL EQUIPMENT SPECIFIED. EQUIPMENT CUTS SHALL INDICATE MANUFACTURERS NAME AND MODEL
- 9. ALL BRANCH CIRCUIT WIRING, JUNCTION BOXES, CONDUITS, PANELBOARDS, EQUIPMENT, DEVICES, ETC., SHALL BE GROUNDED IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRIC CODE.
- 10. ALL WIRING SHALL ADHERE STRICTLY TO THE 2011 NATIONAL ELECTRIC CODE.
- WIRING EXPOSED & SUBJECT TO DAMAGE SHALL BE EMT; ALL OTHER SHALL BE TYPE MC CABLE. 12. ALL WIRING SHALL BE SOFT DRAWN COPPER OF 98% CONDUCTIVITY, 600 VOLT RATING, THHN/THWN. 13. BUSHINGS SHALL BE PROVIDED FOR ALL TERMINATION'S AT PANELS, JUNCTION BOXES, WIRING
- 14. ALL CONDUIT AND WIRE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE. CONDUIT AND
- WIRE SHALL NOT BE SUPPORTED FROM PIPING, DUCTWORK, ETC. PROVIDE EACH RACEWAY OR CABLE PASSING THROUGH A MASONRY OR CONCRETE WALL, FLOOR OR PARTITION WITH A SLEEVE MADE FROM STANDARD WEIGHT STEEL PIPE WITH SMOOTH EDGES,
- SECURELY AND NEATLY CEMENTED IN PLACE. WHERE SLEEVES OR CONDUIT PENETRATE FIRE RATED WALLS, FLOORS, PARTITIONS OR SLABS, FILL AND SEAL WITH FIRE SEALANT CREATING A FIRE STOP EQUAL TO OR EXCEEDING FIRE RATING OF CONSTRUCTION MATERIAL BEING PENETRATED. FIRE SEALANT SHALL PREVENT SPREAD OF FLAME.
- SMOKE, AIR AND WATER AND SHALL PASS A 3 HOUR TEST PER ASTM E814 AND UL 1479. FIRE SEALANT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. 17. PULL AND JUNCTION BOXES SHALL BE CODE GAUGE ZINC COATED SHEET STEEL CONFORMING TO THE 2011 NATIONAL ELECTRIC CODE AND AS REQUIRED TO FACILITATE INSTALLATION OF WIRES
- WITHOUT SHARP BENDS AND CROWDING CONDUCTORS AGAINST SIDES OR COVER. USE SCREW-ON AND/OR HINGED COVERS. 18. SPLICING SHALL BE WITHIN OUTLET BOXES OR JUNCTION BOXES. NO SPLICING SHALL BE PERMITTED
- IN MAINS OR FEEDERS
- 19. WHEN OVERSIZED CONDUCTORS ARE INSTALLED, AND CONDUCTORS DO NOT FIT PROPERLY INTO THE DISTRIBUTION OF UTILIZATION EQUIPMENT PROVIDE JUNCTION BOX ADJACENT TO EQUIPMENT FOR TAP CHANGE OF CONDUCTOR SIZE FROM THE JUNCTION BOX TO THE EQUIPMENT TAP CONDUCTOR SHALL BE AS LARGE AS POSSIBLE, AND IN NO CASE SHALL ITS CURRENT CARRYING CAPACITY BE LESS THAN THAT REQUIRED BY THE NEC.
- 20. WIRES WITHIN EQUIPMENT, SUCH AS PANEL BOARDS, SHALL BE NEATLY ARRANGED AND TIED WITH
- CABLE TIES. 21. ALL BRANCH CIRCUIT CONDUITS SHALL CONTAIN NOT MORE THAN ONE CONDUCTOR OF EACH PHASE (A, B, C) AND NEUTRAL CONDUCTOR, ONE EQUIPMENT GROUNDING CONDUCTOR, AND ASSOCIATED
- SWITCH OR CONTROL WIRING, UNLESS INDICATED OTHERWISE 22. RACEWAYS INSTALLED EXPOSED OR IN ACCESSIBLE SPACES SHALL BE PLACED AT RIGHT ANGLES TO OR PARALLEL WITH THE BUILDING WALLS AND CEILINGS.
- 23. CONDUITS SHALL BE INSTALLED WITH A MINIMUM SEPARATION OF 6 INCHES BETWEEN ELECTRICAL RACEWAYS AND WATER OR STEAM LINES. WHEN INSTALLED AT CLOSER DISTANCE, PROVIDE
- INSULATING PIPE COVERING ON THE WATER AND STEAM LINES. 24. WHERE CONDUIT TERMINATES IN A CABINET, BOX OR AUXILIARY GUTTER, THE CONDUCTORS SHALL BE PROTECTED BY AN INSULATING BUSHING. LOCKNUTS SHALL BE PROVIDED BOTH INSIDE AND
- OUTSIDE THE ENCLOSURE. 25. SWAB OUT AND MAKE RACEWAYS DRY. DO NOT INSTALL WIRE UNTIL THE AREA IS PROTECTED FROM
- THE WEATHER AND SWABBING OF RACEWAYS HAS BEEN COMPLETED. 26. ALL RECEPTACLES, JUNCTION BOXES AND PULL BOXES SHALL BE PERMANENTLY LABELED WITH
- LABELMAKER IN WORDS WITH LETTERS AT LEAST ONE INCH HIGH IDENTIFYING PANEL NAME AND
- 27. CONTRACTOR TO PROVIDE CONDUIT, PULL WIRE, PULL BOXES, AND FACEPLATES FOR TENANT
- SUPPLIED TELE/DATA WIRING. 28. ALL COMMUNICATIONS & FIRE ALARM CABLE SHALL BE PLENUM RATED. PROVIDE 3/4" FROM OUTLET TO ABOVE CEILING FOR NEW SIGNAL DEVICES.
- 29. CONTRACTOR SHALL PROVIDE AN OPERATING MANUAL AND MAINTENANCE MANUAL TO THE BUILDING OWNER, THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING: (A) SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. (B) OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE
- CLEARLY IDENTIFIED. (C) NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY. REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATION/COORDINATION OF ALL FIXTURES, LIGHTS SPRINKLER HEADS, AIR DEVICES AND ALL MPE & FP ITEMS.

FIRE ALARM SYMBOLS	
MANUAL PULL STATION MTD 48" AFF WP = INDICATES WEATHERPROOF MANUAL PULL STATION	
HORN/STROBE FIRE ALARM SIGNAL WP = INDICATES WEATHERPROOF HORN/STROBE FIRE ALARM	
VISUAL FIRE ALARM SIGNAL ONLY	
SMOKE DETECTOR ("D" INDICATES DUCT DETECTOR )	l —
I = INDICATES IONIZATION SMOKE DETECTOR I = INDICATES LINEAR BEAM SMOKE DETECTOR	
HVAC = INDICATES HVAC SMOKE DETECTOR	
HEAT DETECTOR F= INDICATES FIXT TEMP HEAT DETECTOR A= INDICATES ABOVE CEILING HEAT DETECTOR	
FIRE ALARM CONTROL & ANNUNCIATOR PANEL	
FIRE ALARM ANNUNCIATOR PANEL	
FIRE ALARM GRAPHIC ANNUNCIATOR PANEL	

			LIGHT FIXTURE SCHE	DULE					
Fixt Type	Description	Manufacturer	Model No.	# Lamps	Lamp Type	Watt/ Lamp	Volt	Mounting	Remarks
Α	FLAT RECESSED PANEL 2X4 LED	EATON CORELITE	DRI-WD-2-L35-UNV-24-X-STD	1	LED	23	120	RECESSED	-
A1	DIRECT/INDIRECT 2X4 WITH ENCLOSED AND GASKETED HOUSING	EATON FAILSAFE	SGI-G-4-2-STD-35-CP187-CRSW-120-EDC-WL	1	LED	73	120	RECESSED	-
В	4' DIRECT/INDIRECT PENDANT FIXTURE	FINELITE	SERIES 16 LED ID-WCB-4'-3E-VH-835-OPEN-120V-FA-FE	1	LED	49	120	PENDANT	-
B1	4' LED LENSED STRIP LIGHT FIXTURE	HUBBELL	LCL4-35ML-EU-CSHC	1	LED	47	120	SURFACE	PROVIDE CHAIN HANGER ACCESSORY IN AREAS WITH NO CEILING
С	4' LED BILEVEL LUMINAIRE WITH CONTROLS	HUBBELL	LBIL4-35LW-EU	1	LED	31	120	SURFACE	-
D	5" LED SURFACE MOUNTED DOWNLIGHT	PRESCOLITE	LBS5LEDA6L-30K-9-WH	1	LED	13	120	SURFACE	-
E	WALL MOUNTED LED WALLPACK	HUBBELL	PVL-30L1-4K-035-BZ-PC-BBU	1	LED	40	120	SURFACE	-
EM	WALL MOUNTED EMERGENCY LIGHT	PHILIPS CHLORIDE	VU6L	1	LED	5	120	SURFACE	-
X1	LED EXIT SIGN WITH BATTERY BACKUP	PHILIPS CHLORIDE	CXXL-3-R-W	-	LED	3	120/277	WALL/ CEILING	COORDINATE CHEVRON DIRECTION WITH ARCHITECTURAL EGRESS PLANS
			MATCH FIXTURE TRIM AND SUPPORT TO CEILING TYPE S	SHOWN ON ARCHITEC	TURAL DRAWINGS.				

**PLATO** MARINAKOS, JR. ARCHITECT, LLC www.plato-studio.com 107 S 2nd Street 4th Floor Philadephia, PA 19106 267-866-0930 OFFICE 267-866-0931 DIRECT plato@plato-studio.com



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DATE

**CLIENT SIGNATURE** 

CHECK (X) ONE BOX

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> **ELECTRICAL COVER SHEET**

05/01/2021 Checked by E001

Author

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1/8" = 1'-0"

Project number Drawn by

DRAFT

\* EXCEPT AS NOTED ON DRAWINGS OR IN SPECIFICATIONS \*\* IF CEILING HEIGHT IS BELOW 6'-8", MOUNT DEVICE 6" BELOW CEILING.

5/24/2021 11:38:44 AM

COMPUTER OUTLETS

FINISHED FLOOR

OR AS SHOWN ON INTERIOR

6" ABOVE FIRE HOUSE CABINET

CENTERED ABOVE DOOR OR

6'-8" -TO BOTTOM OF DEVICE

WINDOW OPENING

ELEVATIONS, "IF" SERIES

10'-0"

8'-6"

7'-0"

6'-3"

4'-6"

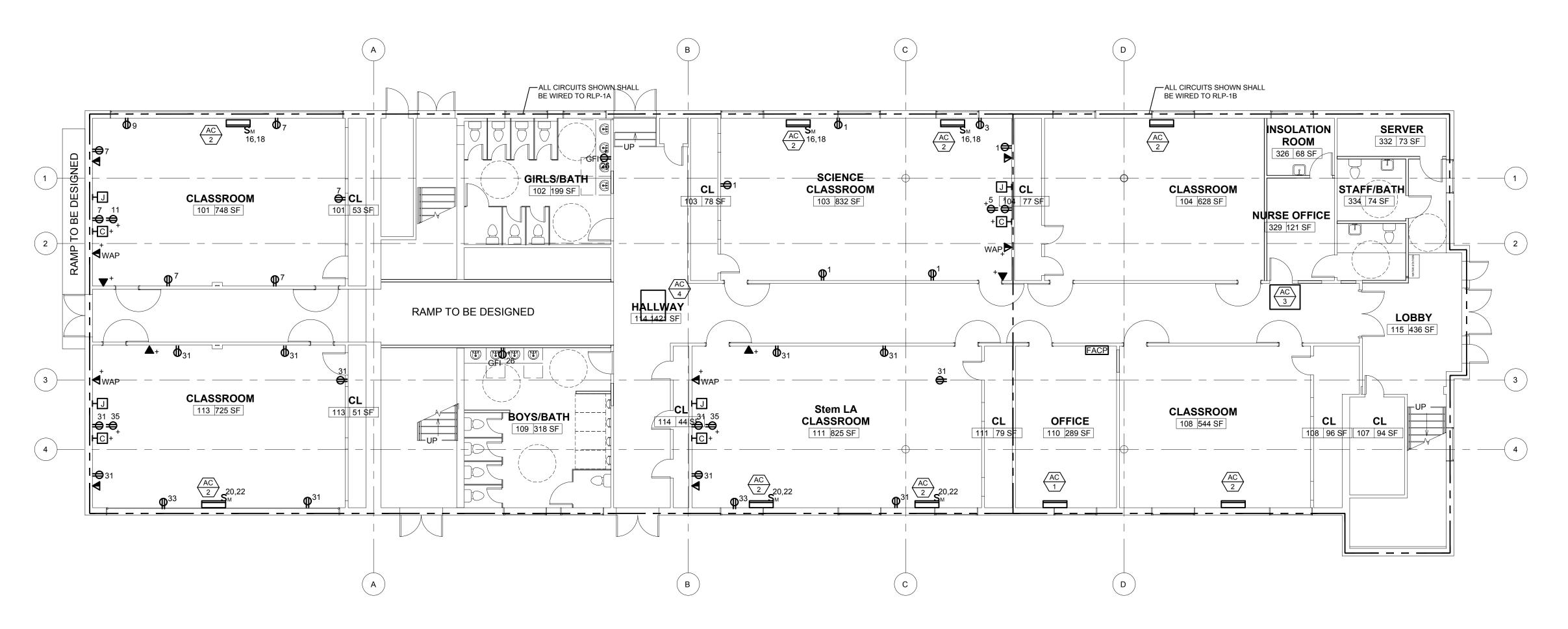
4'-0"

3'-6"

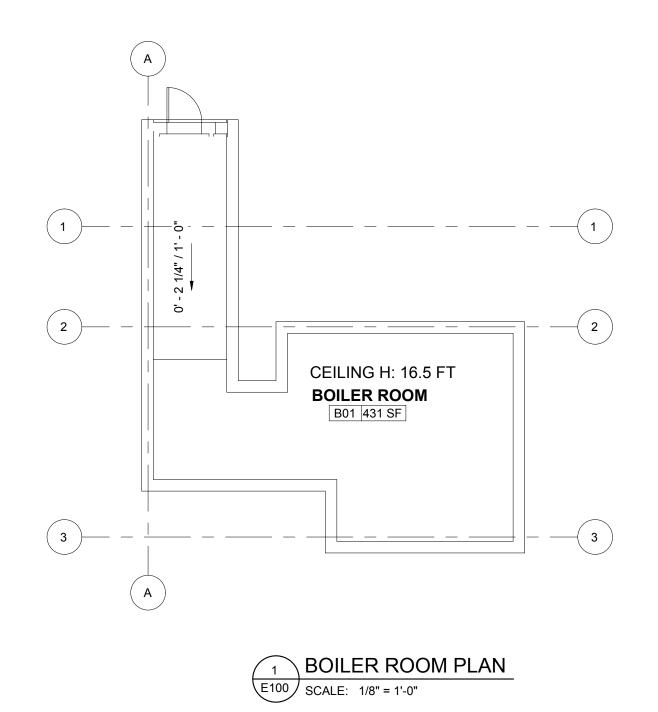
2'-0"

0'-0"

6'-0" MAX.



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

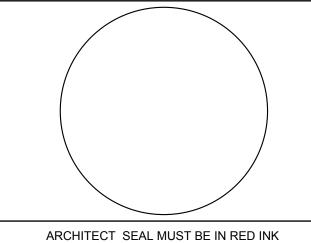


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POWER FLOOR PLANS

 Project number
 N/A

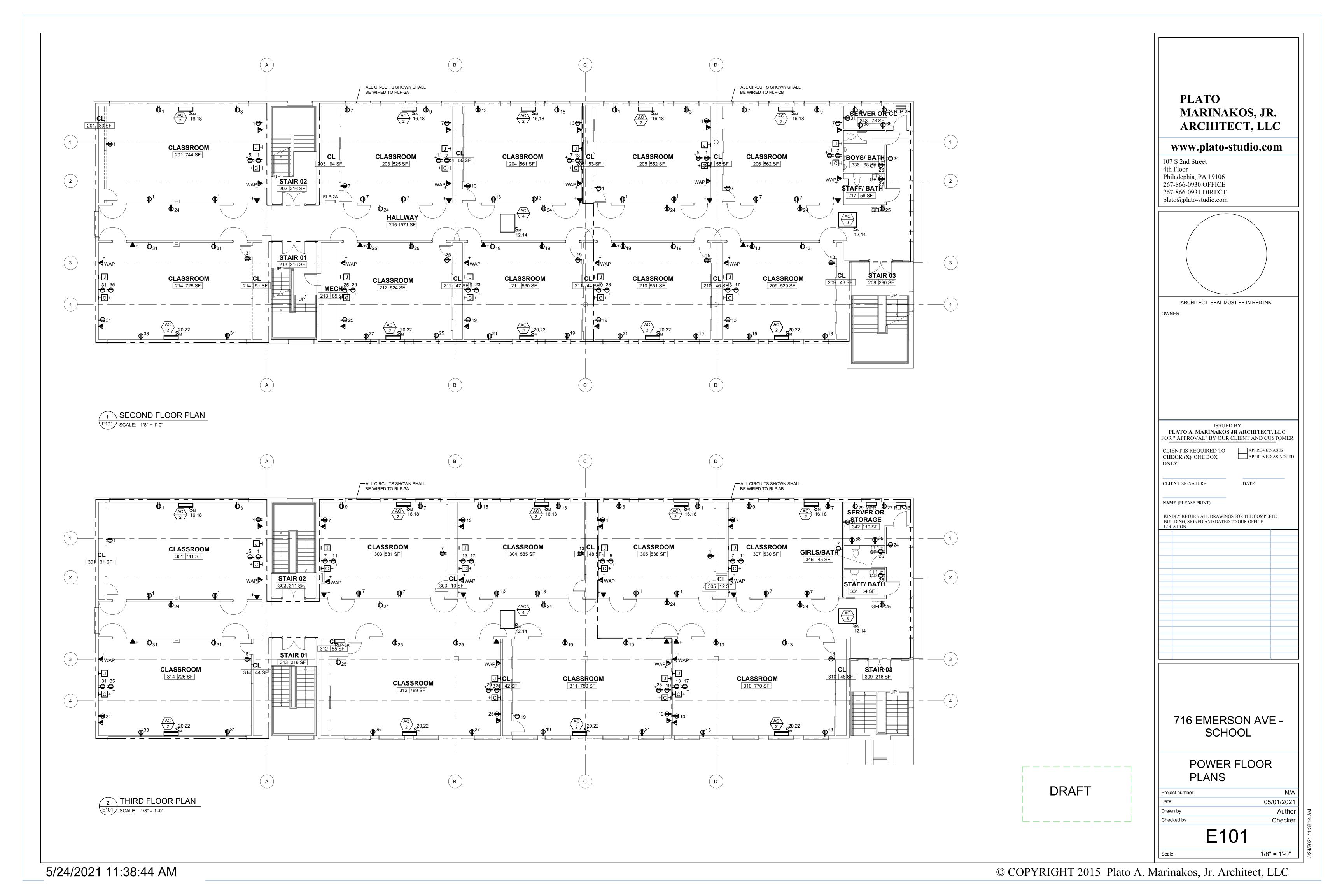
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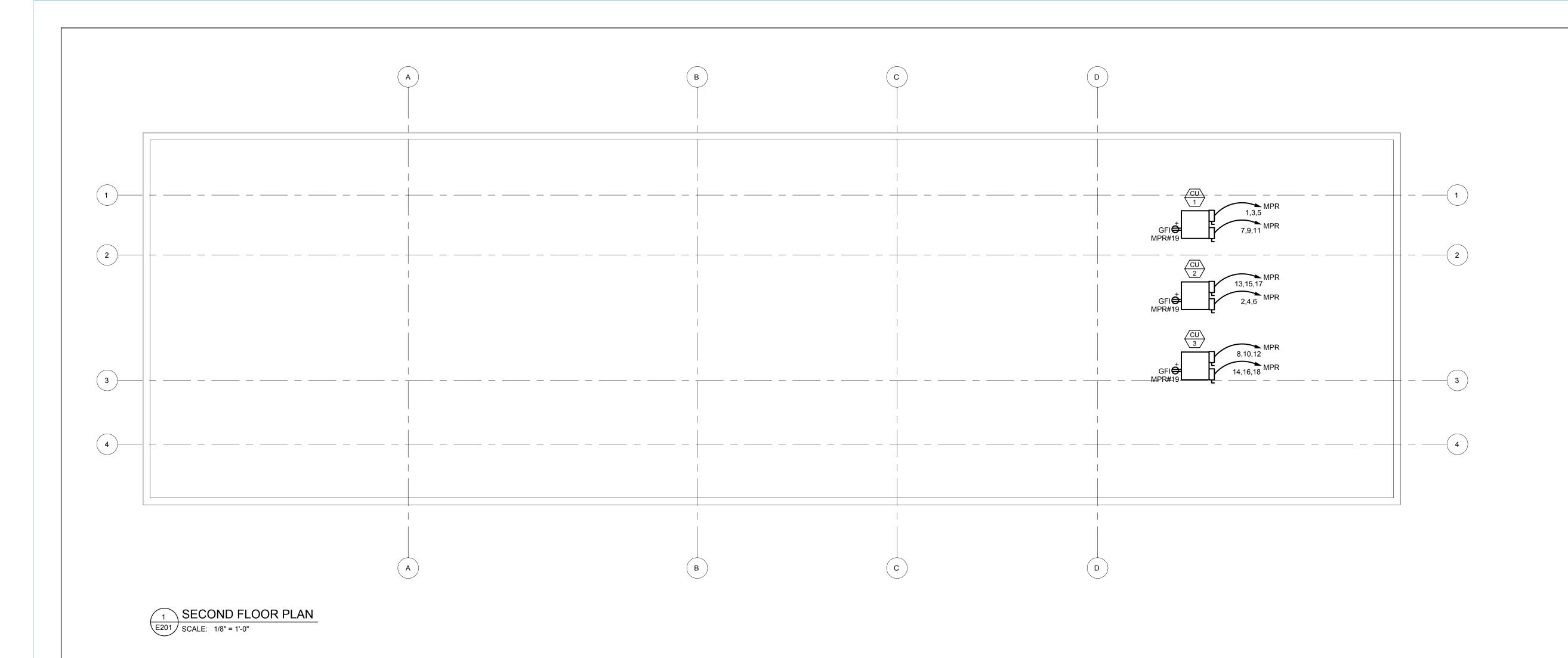
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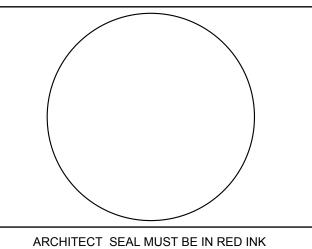




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LOCATION

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> POWER FLOOR PLANS

Project number

Date

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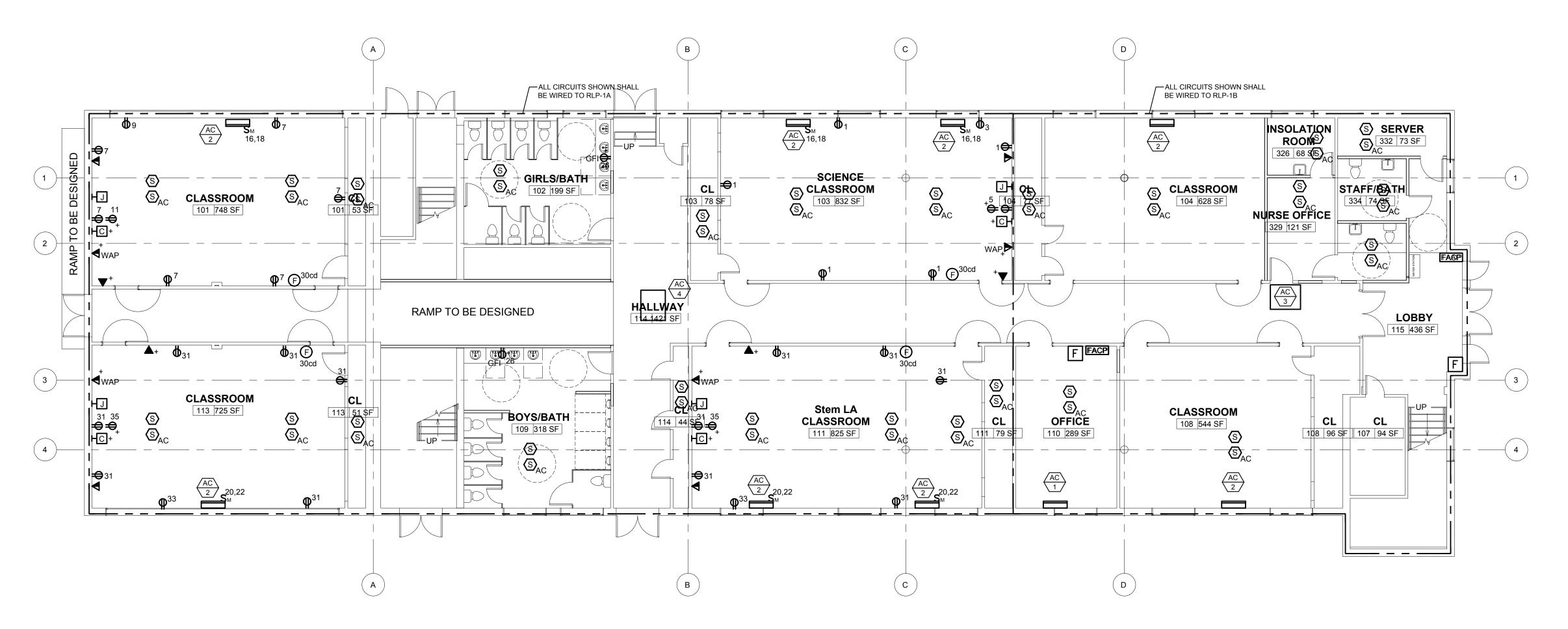
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Checker **E102**1/8" = 1'-0"

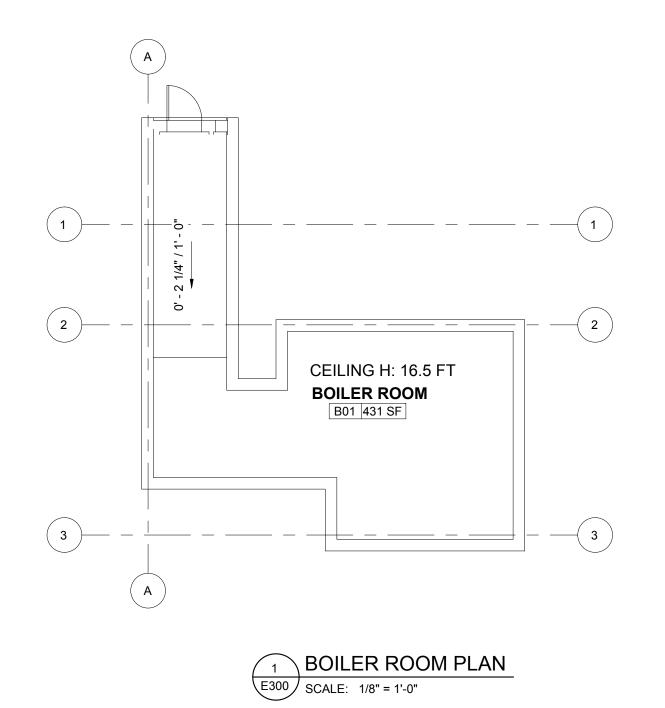
05/01/2021

Author

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FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

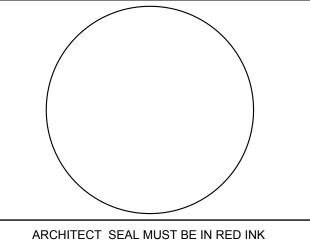


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> LIGHTING FLOOR PLANS

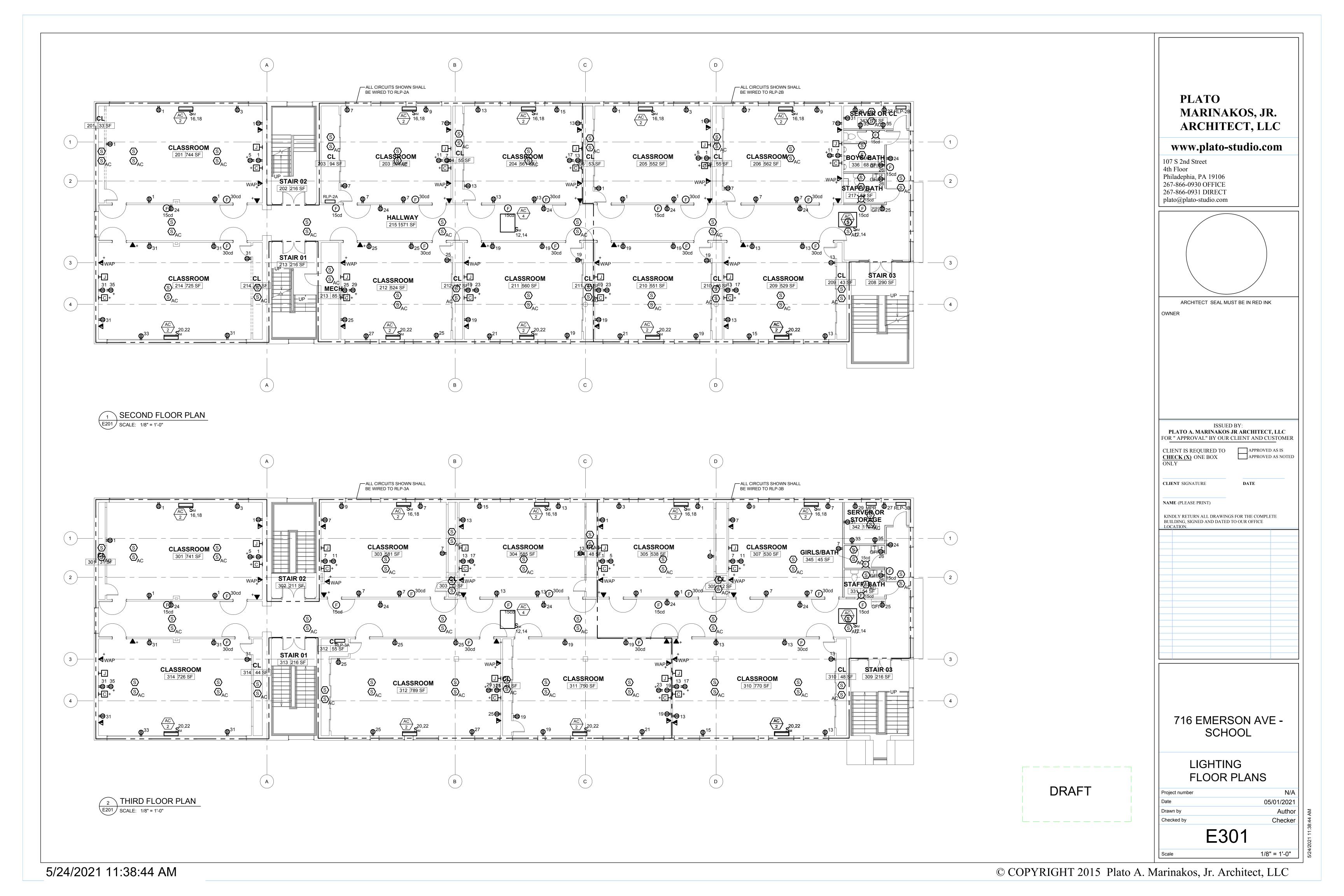
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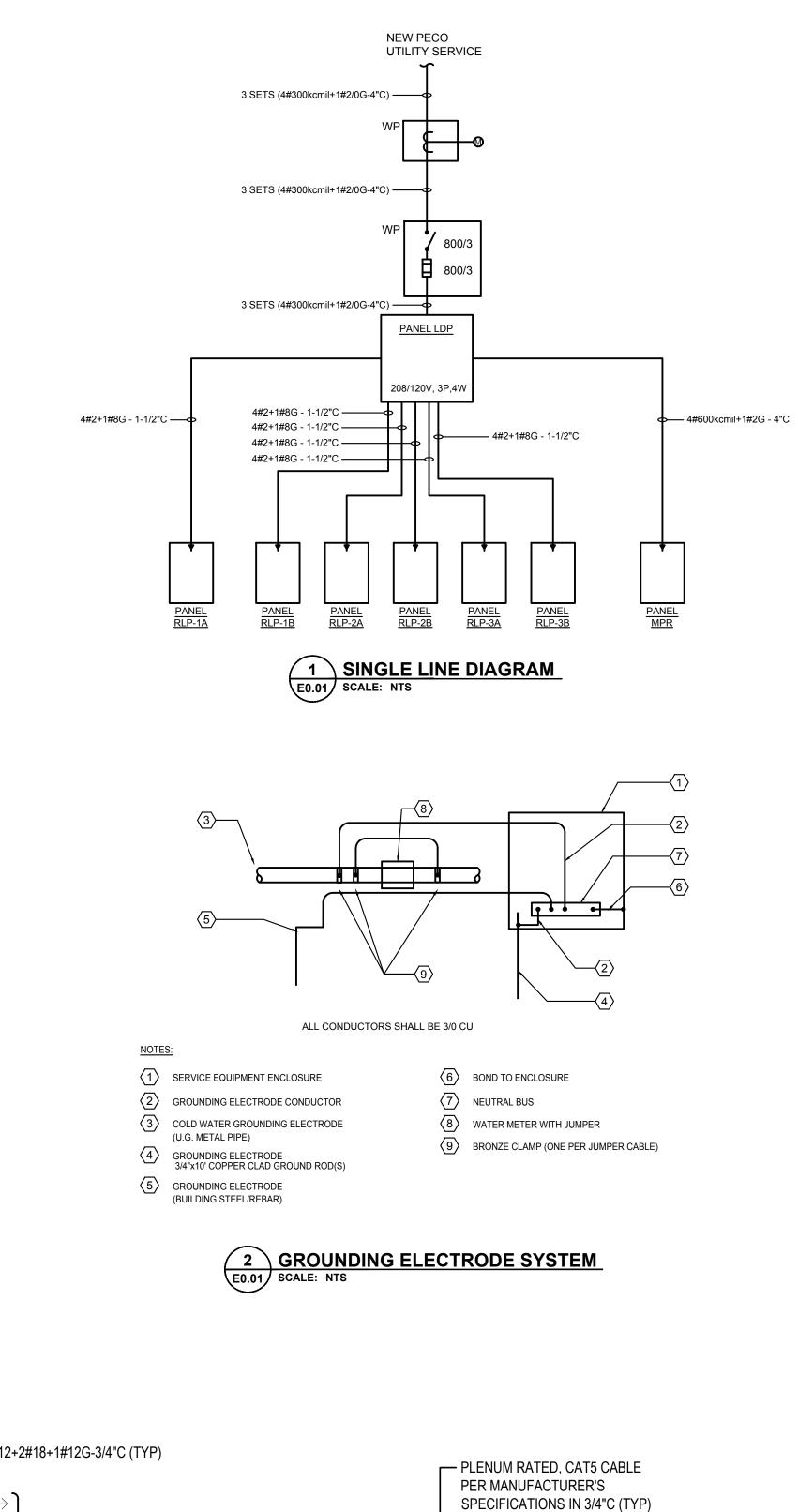
Date 05/01/2021

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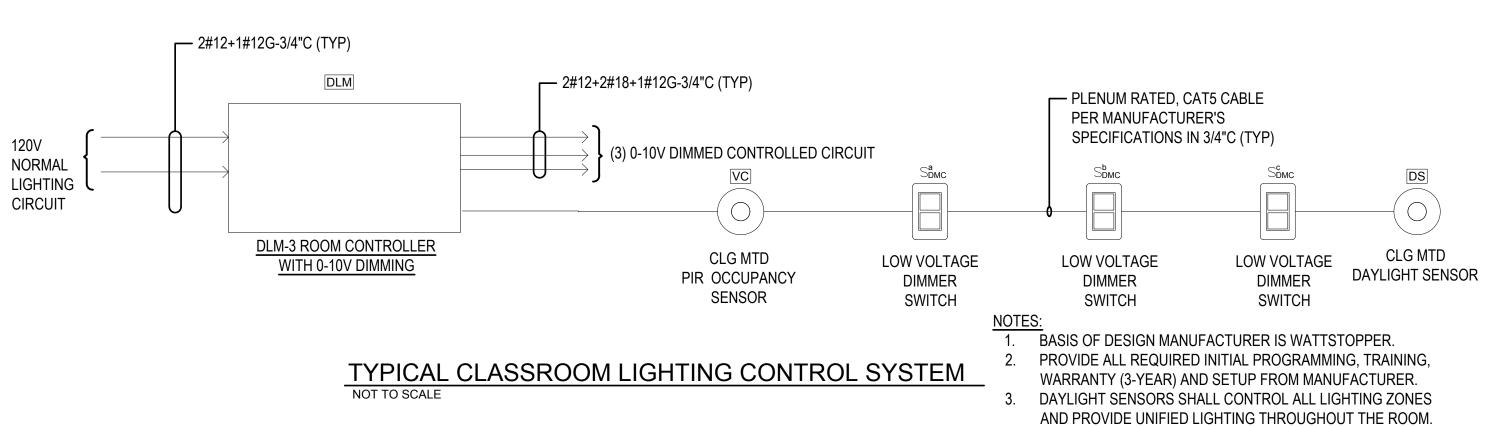
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E300





4. SEE PLANS FOR EXACT QUANTITIES OF DEVICES.



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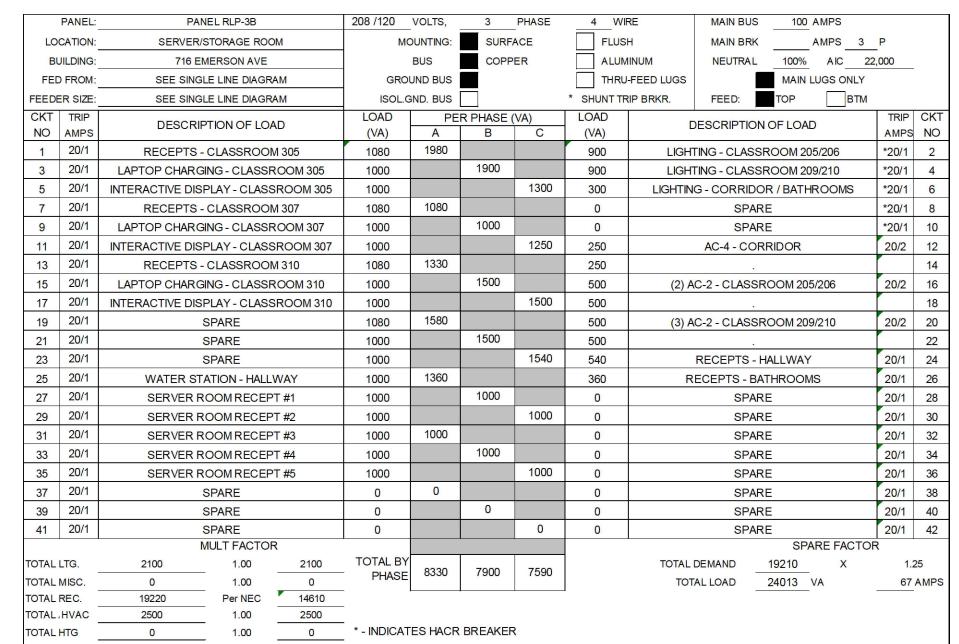
ELECTRICAL
DIAGRAMS

Project number N/A
Date 05/01/2021
Drawn by Author
Checked by Checker

E300

Scale 1/8" = 1'-0"

DRAFT



PANEL:		MPR		208 /120	VOLTS,	3	PHASE	4 WIF	RE MAIN BUS 400 AMPS		
LOCATION:	UTI	LITY ROOM		МС	DUNTING:	SURF	ACE	FLUSI	H MAIN BRK AMPS	P	
BUILDING:	716 E	MERSON AVE			BUS	COPP	COPPER		IINUM NEUTRAL 100% AIC	22,000	_
FED FROM:	SEE SING	LE LINE DIAGRA	M	GROU	JND BUS			THRU	-FEED LUGS MAIN LUGS (	ONLY	
FEEDER SIZE:	SEE SING	LE LINE DIAGRA	М	ISOL.G	IND. BUS			* SHUNT TR	RIP BRKR. FEED: TOP	втм	
CKT TRIP NO AMPS	DESCRI	PTION OF LOAI	D	LOAD (VA)	PE A	R PHASE (	(VA)	LOAD (VA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO
1 70/3	CU-1 (1) (4	#4+1#8G-1-1/4	"C)	6260	9410			3150	CU-2 (2) (4#8+1#10G-1"C)	40/3	2
3				6260		9410		3150			4
5		ı		6260			9410	3150			6
7 70/3	CU-1 (2) (4	#4+1#8G-1-1/4	"C)	6260	11260			5000	CU-3 (1) (4#6+1#10G-1-1/4"C)	60/3	8
9				6260		11260		5000	*		10
11				6260			11260	5000	•		12
13 70/3	CU-2(1) (4	#4+1#8G-1-1/4	"C)	6260	11260			5000	CU-2 (2) (4#6+1#10G-1-1/4"C)	60/3	14
15		7		6260		11260		5000			16
17		R		6260			11260	5000	·	-	18
19 20/1	RECE	PTS - ROOF		540	540			0	SPARE	20/1	20
21 20/1		SPARE		0		0		0	SPARE	20/1	22
23 20/1		SPARE		0			0	0	SPARE	20/1	24
		MULT FACTOR		TOTAL DV					SPARE FA		
OTAL LTG.	0	1.00	0	TOTAL BY PHASE	32470	31930	31930			X 1.:	
OTAL MISC.	0 540	1.00	0	_					TOTAL LOAD 120413 VA	335	AMPS
OTAL REC.	2.5	Per NEC	540	_							
OTAL HVAC	95790	1.00	95790								

	PANEL:	P.	ANEL RLP-2A		208 /120	VOLTS,	3	PHASE	4WIF	RE MAIN BUS 100 AMPS		
LO	CATION:	ST	ORAGE ROOM		M	OUNTING:	SURF	ACE	FLUS	H MAIN BRK AMPS	3 P	
В	JILDING:	716	EMERSON AVE			BUS	COPE	PER	ALUM	IINUM NEUTRAL 100% AIC	22,000	
FE	FROM:	SEE SIN	GLE LINE DIAGR	AM	GRO	UND BUS			THRU	-FEED LUGS MAIN LUGS ONL	Y	-
FEED	ER SIZE:	SEE SIN	GLE LINE DIAGR	AM	ISOL.0	GND. BUS			* SHUNT TR	RIP BRKR. FEED: TOP BT	M	
CKT NO	TRIP AMPS	DESCF	RIPTION OF LO	AD	LOAD (VA)	PE A	R PHASE B	(VA)	LOAD (VA)	DESCRIPTION OF LOAD	TRIP AMPS	CK NC
1	20/1	RECEPTS	- CLASSROO	M 201	1080	1680			600	LIGHTING - CLASSROOM 201	*20/1	2
3	20/1	LAPTOP CHAR	GING - CLASSF	ROOM 201	1000		1900		900	LIGHTING - CLASSROOM 203/204	*20/1	4
5	20/1	INTERACTIVE DI	SPLAY - CLASS	SROOM 201	1000			1600	600	LIGHTING - CLASSROOM 214	*20/1	6
7	20/1	RECEPTS	- CLASSROO	M 203	1080	1980			900	LIGHTING - CLASSROOM 211/212	*20/1	8
9	20/1	LAPTOP CHAR	GING - CLASSF	ROOM 203	1000		1400		400	LIGHTING - CORRIDOR		10
11	20/1	INTERACTIVE DI	SPLAY - CLASS	SROOM 203	1000			1250	250	AC-4 - CORRIDOR		12
13	20/1	RECEPTS	- CLASSROO	M 204	1080	1330			250			14
15	20/1	LAPTOP CHAR	GING - CLASSF	ROOM 204	1000		1500		500	(3) AC-2 - CLASSROOM 201/203/204	20/2	16
17	20/1	INTERACTIVE DI	SPLAY - CLASS	SROOM 204	1000			1500	500	•1		18
19	20/1	RECEPTS	- CLASSROO	M 211	1080	1580			500	(3) AC-2 - CLASSROOM 211/212/214	20/2	20
21	20/1	LAPTOP CHAR	GING - CLASSF	ROOM 211	1000		1500		500			22
23	20/1	INTERACTIVE DI	SPLAY - CLASS	SROOM 211	1000			1540	540	RECEPTS - HALLWAY	20/1	24
25	20/1	RECEPTS	- CLASSROO	M 212	1080	1080			0	SPARE	20/1	26
27	20/1	LAPTOP CHAR	GING - CLASSF	ROOM 212	1000		1000		0	SPARE	20/1	28
29	20/1	INTERACTIVE DI	SPLAY - CLASS	SROOM 212	1000			1000	0	SPARE	20/1	30
31	20/1	RECEPTS	- CLASSROO	M 214	1080	1080			0	SPARE	20/1	32
33	20/1	LAPTOP CHAR	GING - CLASSF	ROOM 214	1000		1000		0	SPARE	20/1	34
35	20/1	INTERACTIVE DI	SPLAY - CLASS	SROOM 214	1000			1000	0	SPARE	20/1	36
37	20/1		SPARE		0	0			0	SPARE	20/1	38
39	20/1		SPARE		0		0		0	SPARE	20/1	40
41	20/1		SPARE		0			0	0	SPARE	20/1	42
	MULT FACTOR		R						SPARE FACT	OR		
TOTAL	LTG.	3400	1.00	3400	TOTAL BY PHASE	0700	8300	7890		TOTAL DEMAND 20410 X		.25
TOTAL	-	0	1.00	0	- ITAGE					TOTAL LOAD 25513 VA	71	AMP
TOTAL	-	19020 2500	Per NEC	14510	-							
TOTAL	HVAC	2500	1.00 1.00	2500	- * - INDICAT	FO. 140D	DDEAKE	_				

	PANEL:	PANEL RLP-2B	208 /120	VOLTS,	3	PHASE	4WI	RE MAIN BUS 100 AMPS		
LOC	CATION:	SERVER/STORAGE ROOM	M	OUNTING:	SURF	ACE	FLUS	H MAIN BRK AMPS3	P	
BU	JILDING:	716 EMERSON AVE		BUS	COPP	ER	ALUM	IINUM NEUTRAL 100% AIC 22	2,000	_
FED	FROM:	SEE SINGLE LINE DIAGRAM	GRO	OUND BUS			THRU	-FEED LUGS MAIN LUGS ONLY		
FEEDE	R SIZE:	SEE SINGLE LINE DIAGRAM	ISOL.0	GND. BUS			* SHUNT TF	RIP BRKR. FEED: TOP BTM		
CKT NO	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (VA)	PE A	R PHASE (	(VA)	LOAD (VA)	DESCRIPTION OF LOAD	TRIP AMPS	CK
1	20/1	RECEPTS - CLASSROOM 205	1080	1980			900	LIGHTING - CLASSROOM 205/206	*20/1	2
3	20/1	LAPTOP CHARGING - CLASSROOM 205	1000		1900		900	LIGHTING - CLASSROOM 209/210	*20/1	4
5	20/1	INTERACTIVE DISPLAY - CLASSROOM 203	1000			1300	300	LIGHTING - CORRIDOR / BATHROOMS	*20/1	6
7	20/1	RECEPTS - CLASSROOM 206	1080	1080			0	SPARE		8
9	20/1	LAPTOP CHARGING - CLASSROOM 206	1000		1000		0	SPARE	*20/1	10
11	20/1	INTERACTIVE DISPLAY - CLASSROOM 200	1000			1250	250	AC-4 - CORRIDOR	20/2	12
13	20/1	RECEPTS - CLASSROOM 209	1080	1330			250			14
15	20/1	LAPTOP CHARGING - CLASSROOM 209	1000		1500		500	(2) AC-2 - CLASSROOM 205/206	20/2	16
17	20/1	INTERACTIVE DISPLAY - CLASSROOM 209	1000			1500	500			18
19	20/1	RECEPTS - CLASSROOM 210	1080	1580			500	(3) AC-2 - CLASSROOM 209/210	20/2	20
21	20/1	LAPTOP CHARGING - CLASSROOM 210	1000		1500		500			22
23	20/1	INTERACTIVE DISPLAY - CLASSROOM 21	1000			1540	540	RECEPTS - HALLWAY	20/1	24
25	20/1	WATER STATION - HALLWAY	1000	1360			360	RECEPTS - BATHROOMS	20/1	26
27	20/1	SERVER ROOM RECEPT #1	1000		1000		0	SPARE	20/1	28
29	20/1	SERVER ROOM RECEPT #2	1000			1000	0	SPARE	20/1	30
31	20/1	SERVER ROOM RECEPT #3	1000	1000			0	SPARE	20/1	32
33	20/1	SERVER ROOM RECEPT #4	1000		1000		0	SPARE	20/1	34
35	20/1	SERVER ROOM RECEPT #5	1000			1000	0	SPARE	20/1	36
37	20/1	SPARE	0	0			0	SPARE	20/1	38
39	20/1	SPARE	0		0		0	SPARE	20/1	40
41	1 20/1 SPARE		0			0	0	SPARE	20/1	42
		MULT FACTOR			ı			SPARE FACTOR	₹	
TOTAL I	-	2100 1.00 2100	TOTAL BY PHASE	0220	7900	7590		TOTAL DEMAND 19210 X	1.	
TOTAL	-	0 1.00 0			pr - 100 - 1			TOTAL LOAD 24013 VA	67	AMP
TOTAL F	-	19220 Per NEC 14610 2500 1.00 2500	_							
TOTAL I	-	0 1.00 0		TES HACE	BBEVKE	,				

	PANEL:	PA	ANEL RLP-3A		208 /120	VOLTS,	3	PHASE	4WIF	RE	MAIN BUS100_ AMPS		
LO	CATION:	STO	DRAGE ROOM		МС	UNTING:	SURF	ACE	FLUSI	Н	MAIN BRK AMPS3	P	
В	IILDING:	716 E	EMERSON AVE			BUS	COPP	ER	ALUM	INUM	NEUTRAL 100% AIC	22,000	_
FED	FROM:	SEE SING	GLE LINE DIAGR	AM	GROU	JND BUS			THRU-	-FEED LUGS	MAIN LUGS ONLY		
FEEDE	R SIZE:	SEE SING	GLE LINE DIAGR	AM	ISOL.G	ND. BUS			* SHUNT TR	IP BRKR.	FEED: TOP BTM	I	
CKT	TRIP	DESCR	IPTION OF LO	ΔD	LOAD	PE	R PHASE (	VA)	LOAD	Ь	ESCRIPTION OF LOAD	TRIP	CK
NO	AMPS	DEGGIN	III TION OF EO		(VA)	Α	В	С	(VA)		DEGGNI HONGI EGAD		
1	20/1	RECEPTS	- CLASSROOI	M 301	1080	1680			600	LIG	HTING - CLASSROOM 301	*20/1	2
3	20/1	LAPTOP CHAR	GING - CLASSE	ROOM 301	1000		1900		900	LIGHT	ING - CLASSROOM 303/304	*20/1	4
5	20/1	INTERACTIVE DI	SPLAY - CLASS	SROOM 301	1000			1600	600	LIGH	HTING - CLASSROOM 314	*20/1	6
7	20/1	RECEPTS	- CLASSROOI	M 303	1080	1980			900	LIGHT	ING - CLASSROOM 311/312	*20/1	8
9	20/1	LAPTOP CHAR	GING - CLASSF	ROOM 303	1000		1400		400	L	*20/1	10	
11	20/1	INTERACTIVE DI	SPLAY - CLASS	SROOM 303	1000			1250	250		20/2	12	
13	20/1	RECEPTS	RECEPTS - CLASSROOM 304 APTOP CHARGING - CLASSROOM 304			1330			250			14	
15	20/1	LAPTOP CHARGING - CLASSROOM 304			1000		1500		500	(3) AC-3	20/2	16	
17	20/1	INTERACTIVE DIS	SPLAY - CLASS	SROOM 304	1000			1500	500				
19	20/1	RECEPTS	- CLASSROOI	M 311	1080	1580			500	(3) AC-3	3 - CLASSROOM 311/312/314	20/2	20
21	20/1	LAPTOP CHARGING - CLASSROOM 311		1000		1500		500			22		
23	20/1	INTERACTIVE DIS	SPLAY - CLASS	SROOM 311	1000			1540	540	İ	20/1	24	
25	20/1	RECEPTS	- CLASSROOI	M 312	1080	1080			0		SPARE	20/1	26
27	20/1	LAPTOP CHAR	GING - CLASSE	ROOM 312	1000		1000		0		SPARE	20/1	28
29	20/1	INTERACTIVE DIS	SPLAY - CLASS	SROOM 312	1000			1000	0		SPARE	20/1	30
31	20/1	RECEPTS	- CLASSROOI	M 314	1080	1080			0		SPARE	20/1	32
33	20/1	LAPTOP CHAR	GING - CLASSE	ROOM 314	1000		1000		0		SPARE	20/1	34
35	20/1	INTERACTIVE DIS	SPLAY - CLASS	SROOM 314	1000			1000	0		SPARE	20/1	36
37	20/1		SPARE	31 301 10	0	0			0		SPARE	20/1	38
39	20/1		SPARE		0		0		0		SPARE	20/1	40
41	20/1		SPARE		0			0	0		SPARE	20/1	42
			MULT FACTOR	R							SPARE FACTO	)R	
TOTAL	LTG.	3400	1.00	3400	TOTAL BY	8730	8300	7890		TOTAL D	DEMAND	1.2	25
TOTAL	MISC.	0	1.00	0	PHASE	0/30	6300	7030		TOTA	AL LOAD 25513 VA	71	AMP
TOTAL	REC.	19020	Per NEC	14510					•				-
TOTAL .	-	2500	1.00	2500									
TOTAL	HTG .	0	1.00	0	* - INDICAT	ES HACR	BREAKER	?					

	PANEL:		MDP		208 /120	VOLTS,	3	PHASE	4 WIF	RE MAIN BUS 800 AMP	S	
LO	CATION:	UI	TILITY ROOM		МС	DUNTING:	SURF	ACE	FLUSI	H MAIN BRK AMP	S P	
В	JILDING:	716 E	EMERSON AVE			BUS	COPP	ER	ALUM	IINUM NEUTRAL 100% A	IC 42,000	
FED	FROM:	SEE SING	GLE LINE DIAGRA	M	GROU	JND BUS			THRU	-FEED LUGS MAIN LUGS	ONLY	
FEEDE	ER SIZE:	SEE SING	GLE LINE DIAGRA	M	ISOL.G	ND. BUS			* SHUNT TR	RIP BRKR. FEED: TOP	втм	
CKT NO	TRIP AMPS	DESCR	IPTION OF LOA	.D	LOAD (VA)	PE A	R PHASE (	(VA)	LOAD (VA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO
1	100/3	PA	NEL RLP-1A		0	31930			31930	PANEL MPR		2
3			-		0		31930		31930			4
5					0			31930	31930			6
7	100/3	PA	NEL RLP-1B		0	0			0		20/1	8
9			*		0		0		0		20/1	10
11					0			0	0		20/1	12
13	100/3	PA	NEL RLP-2A		8730	8730			0		20/1	14
15					8300		8300		0		20/1	16
17			-		7890			7890	0		20/1	18
19	100/3	PA	NEL RLP-2B		8330	8330			0		20/1	20
21			-		7900		7900		0		20/1	22
23					7590			7590	0		20/1	24
25	100/3	PA	NEL RLP-3A		8730	8730			0		20/1	26
27					8300		8300		0		20/1	28
29			-		7890			7890	0		20/1	30
31	100/3	PA	NEL RLP-3B		8330	8330			0		20/1	32
33					7900		7900		0		20/1	34
35					7590			7590	0		20/1	36
OTAL	_	11000	MULT FACTOF 1.00	11000	TOTAL BY	00050	64330	62890		TOTAL DEMAND 160030		
OTAL	MISC REC HVAC	0 76480 105790	1.00 Per NEC 1.00	0 43240 105790	- ITAGE					TOTAL LOAD <u>200038</u> VA	556 /	AMPS
TOTAL	HTG	0	1.00	0	_							

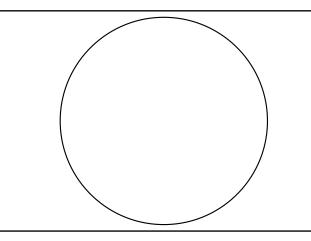
	PANEL:	F	PANEL RLP-1A		208 /120	VOLTS,	3	PHASE	4 WII	RE	MAIN BUS	100 A1	MPS		
LO	CATION:	S	TORAGE ROOM		MC	DUNTING:	SURF	ACE	FLUS	Ĥ	MAIN BRK	1A	MPS 3 P		
В	UILDING:	716	EMERSON AVE			BUS	COPF	PER	ALUM	IINUM	NEUTRAL	100%	AIC 22,00	00	
FE	FROM:	SEE SII	NGLE LINE DIAGRAM	1	GRO	JND BUS			THRU	I-FEED LUGS		MAIN LU	GS ONLY		
FEED	ER SIZE:	SEE SII	NGLE LINE DIAGRAM	1	ISOL.G	ND. BUS	$\exists$		* SHUNT TF	RIP BRKR.	FEED:	TOP	ВТМ		
CKT	TRIP	DESC	RIPTION OF LOAD	1	LOAD	PE	R PHASE	(VA)	LOAD		ESCRIPTION	OFLOAD		TRIP	CKT
NO	AMPS		MIPTION OF LOAD		(VA)	Α	В	С	(VA)		/ESCRIPTION	OF LOAD	,	AMPS	NO
1	20/1		SPARE		0	0			0		SPARE	Ē	*	20/1	2
3	20/1		SPARE		0		0		0		SPARE		*	20/1	4
5	20/1		SPARE		0			0	0		SPARE	<u> </u>	*	20/1	6
7	20/1		SPARE		0	0			0		SPARE		*	20/1	8
9	20/1		SPARE		0		0		0		SPARE		*	20/1	10
11	20/1		SPARE		0			0	0		SPARE			20/1	12
13	20/1		SPARE		0	0			0		SPARE	<u> </u>		20/1	14
15	20/1		SPARE		0		0		0		SPARE	1	1:	20/1	16
17	20/1		SPARE		0			0	0		SPARE	SPARE		20/1	18
19	20/1	SPARE		0	0			0		SPARE			20/1	20	
21	20/1		SPARE		0		0		0		SPARE		1:	20/1	22
23	20/1		SPARE		0			0	0		SPARE		12	20/1	24
25	20/1		SPARE		0	0			0		SPARE		1:	20/1	26
27	20/1		SPARE		0		0		0		SPARE		1:	20/1	28
29	20/1		SPARE		0			0	0		SPARE		1:	20/1	30
31	20/1		SPARE		0	0			0		SPARE			20/1	32
33	20/1		SPARE		0		0		0		SPARE		1	20/1	34
35	20/1		SPARE		0			0	0		SPARE			20/1	36
37	20/1		SPARE		0	0			0		SPARE			20/1	38
39	20/1		SPARE		0		0		0		SPARE			20/1	40
41	20/1		SPARE		0			0	0		SPARE			20/1	42
			MULT FACTOR										E FACTOR		
TOTAL	LTG.	0	1.00	0	TOTAL BY	0				TOTAL	DEMAND	0	X	1.2	25
TOTAL	MISC.	0	1.00	0	PHASE	0	0	0		TOT	AL LOAD	0 VA	N.	0	AMPS
TOTAL	REC.	0	Per NEC	0	_				4				_		
TOTAL	HVAC	0	1.00	0	_										
TOTAL	HTG	0	1.00	0	* - INDICAT	ES HACR	BREAKER	₹							

PANEL:	PANEL RLP-1B	208 /120	VOLTS,	_	PHASE	4 WIF	KE	MAIN BUS	100_AM	IPS	
LOCATION:	SERVER/STORAGE ROOM	MC	OUNTING:	SURFA	CE	FLUSI	Н	MAIN BRK	AN	1PS 3 P	
BUILDING:	716 EMERSON AVE		BUS	COPPE	R	ALUM	IINUM	NEUTRAL	100%	AIC 22,00	0
FED FROM:	SEE SINGLE LINE DIAGRAM	GROU	JND BUS			THRU	-FEED LUGS		MAIN LUC	SS ONLY	
FEEDER SIZE:	SEE SINGLE LINE DIAGRAM	ISOL.G	ND. BUS			* SHUNT TR	RIP BRKR.	FEED:	TOP	ВТМ	
CKT TRIP NO AMPS	DESCRIPTION OF LOAD	LOAD (VA)	PEF A	R PHASE (V B	A) C	LOAD (VA)	D	ESCRIPTIO	N OF LOAD		TRIP AMPS
1 20/1		0	0			0				*	20/1
3 20/1		0		0		0				*	20/1
5 20/1		0			0	0				*	20/1
7 20/1		0	0			0				*	20/1
9 20/1		0		0		0				*	20/1
11 20/1		0			0	0					20/1
13 20/1		0	0			0				1:	20/1
15 20/1		0		0		0				1	20/1
17 20/1		0			0	0				1:	20/1
19 20/1		0	0			0				1:	20/1
21 20/1		0		0		0				1	20/1
23 20/1		0			0	0				1	20/1
25 20/1		0	0			0				:	20/1
27 20/1		0		0		0				13	20/1
29 20/1		0			0	0		SPA	RE	):	20/1
31 20/1		0	0			0		SPA	RE	3	20/1
33 20/1		0		0		0		SPA	RE	:	20/1
35 20/1		0			0	0		SPA	RE	1:	20/1
37 20/1	SPARE	0	0			0		SPA	RE	:	20/1
39 20/1	SPARE	0		0		0		SPA	RE	1:	20/1
41 20/1	SPARE	0			0	0		SPA	RE	1:	20/1
	MULT FACTOR								SPARE	FACTOR	
TOTAL LTG.	0 1.00 0	TOTAL BY	0	0	0		TOTAL	DEMAND _	0	X	1.2
TOTAL MISC.	0 1.00 0	PHASE					TOT	AL LOAD	VA	_	0
TOTAL REC.	0 Per NEC 0										
TOTAL HTC	0 1.00 <u>0</u> 0 1.00 0	* - INDICATI	ES HACE	BBEVKED							
TOTAL HTG	0 1.00 0	- INDICATI	LOTACI	DIVEAREIX							

### PLATO MARINAKOS, JR. ARCHITECT, LLC

## www.plato-studio.com

107 S 2nd Street 4th Floor Philadephia, PA 19106 267-866-0930 OFFICE 267-866-0931 DIRECT plato@plato-studio.com



ARCHITECT SEAL MUST BE IN RED INK

# ISSUED BY: PLATO A. MARINAKOS JR ARCHITECT, LLC FOR " APPROVAL" BY OUR CLIENT AND CUSTOMER CLIENT IS REQUIRED TO CHECK (X) ONE BOX APPROVED AS NOTED

CLIENT SIGNATURE DATE

NAME (PLEASE PRINT)

KINDLY RETURN ALL DRAWINGS FOR THE COMPLETE BUILDING, SIGNED AND DATED TO OUR OFFICE LOCATION.

716 EMERSON AVE -

SCHOOL

PANEL SCHEDULE

 Project number
 N/A

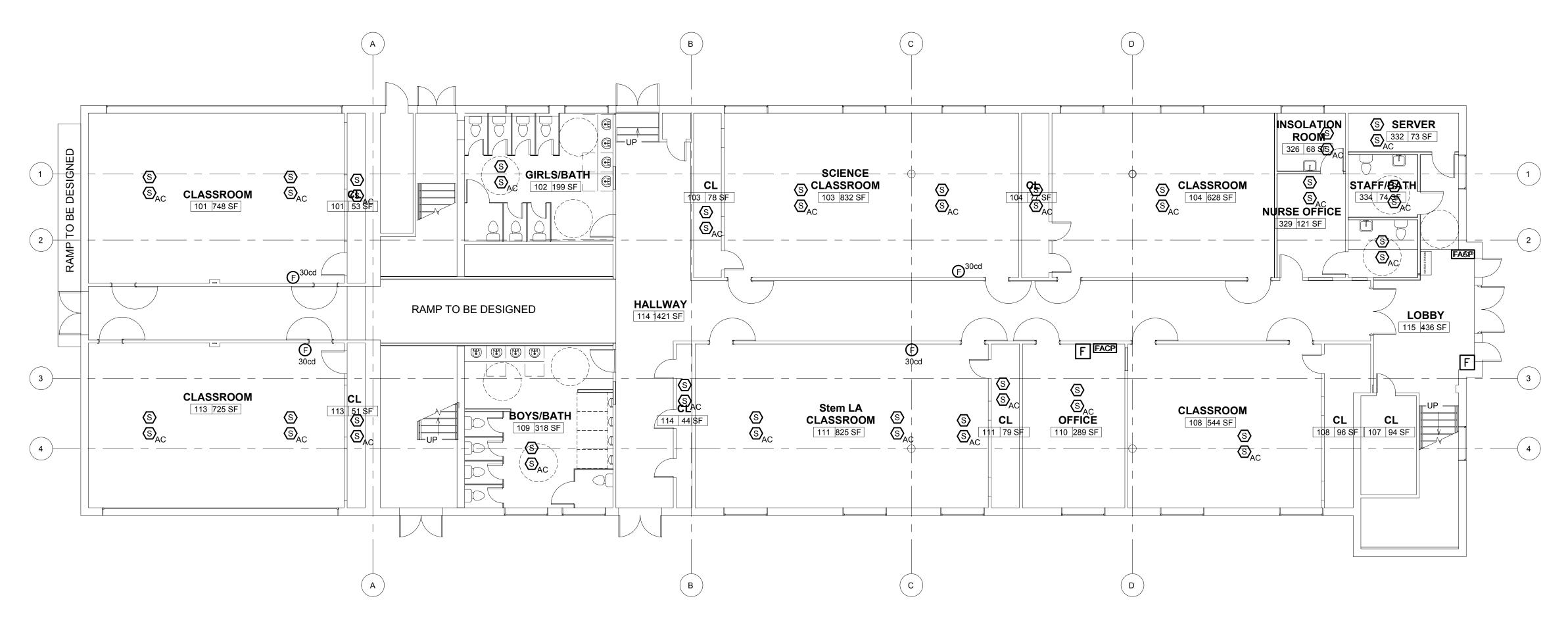
 Date
 05/01/2021

 Drawn by
 Author

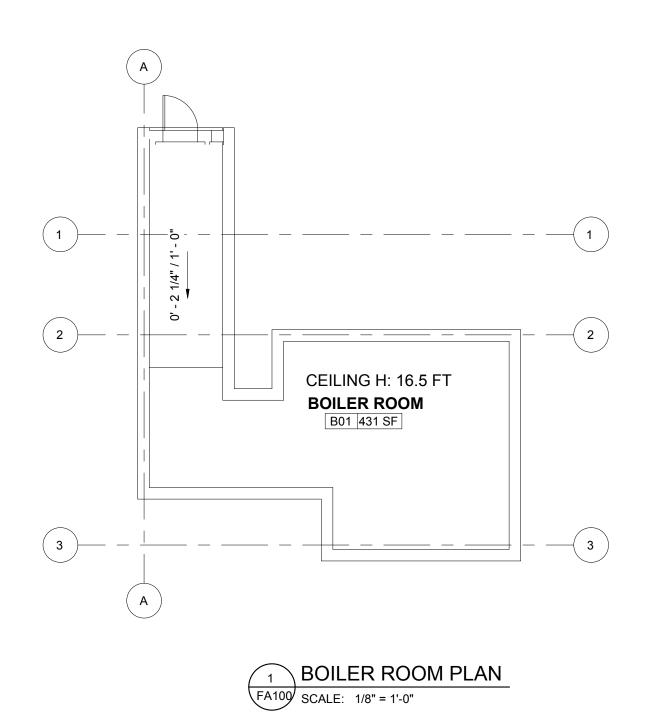
 Checked by
 Checker

 E400

1/8" = 1'-0"



FA100 SCALE: 1/8" = 1'-0"

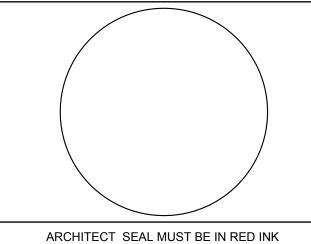


DRAFT

PLATO MARINAKOS, JR. ARCHITECT, LLC

www.plato-studio.com

107 S 2nd Street 4th Floor Philadephia, PA 19106 267-866-0930 OFFICE 267-866-0931 DIRECT plato@plato-studio.com



OWNER

ISSUED BY:

PLATO A. MARINAKOS JR ARCHITECT, LLC

FOR "APPROVAL" BY OUR CLIENT AND CUSTOMER

CLIENT IS REQUIRED TO
CHECK (X) ONE BOX
ONLY

APPROVED AS NOTED

DATE

CLIENT SIGNATURE

NAME (PLEASE PRINT)

KINDLY RETURN ALL DRAWINGS FOR THE COMPLETE BUILDING, SIGNED AND DATED TO OUR OFFICE LOCATION.

716 EMERSON AVE -SCHOOL

> FIRE ALARM FLOOR PLANS

Project number N/A

Date 05/01/2021

Drawn by Author

Checked by Checker

FA100

1/8" = 1'-0"

