

SYMBOLS AND ABBREVIATIONS						GENERAL NOTES		
SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
	-	CONDUIT AND WIRING		FACP	FIRE ALARM CONTROL PANEL		PNL	PANEL
	-	CONDUIT & WIRING TO BE REMOVED UON		BPS	BOOSTER POWER SUPPLY		SCH	SCHEDULE
	-	BURIED CONDUIT		-	FIRE ALARM RELAY		SPD	SURGE PROTECTION DEVICE
	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P		EOL	END OF LINE RESISTOR		SW	SWITCH(ES)
	-	MULTI-POLE HOMERUN		-	CALL FOR AID PULL STATION		TELCO	TELEPHONE COMPANY
	-	ELECTRICAL EQUIPMENT AS INDICATED		-	CALL FOR AID A/V DEVICE		TYP	TYPICAL
	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON		-	ELECTRIC HAND DRYER		UG	UNDERGROUND
	-	ELECTRIC METER		EPO	EMERGENCY POWER OFF SWITCH		UON	UNLESS OTHERWISE NOTED
	-	JUNCTION BOX		RASP	RESCUE ASSIST. SYSTEM MASTER STATION		V	VOLT(S)
	-	FUSED DISCONNECT SWITCH		-	REMOTE RESCUE STATION		WP	WEATHERPROOF
	-	UNFUSED DISCONNECT SWITCH		CB	CIRCUIT BREAKER	NOTES: 1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT. 2.) SEE LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.		
	-	COMBINATION MOTOR STARTER/FUSED DISC.		-	ENCLOSED CIRCUIT BREAKER			
	-	MOTOR STARTER		-	FUSED SWITCH	TYPICAL BRANCH CIRCUIT WIRING LEGEND		
	-	MOTOR		GND	GROUND AS PER LOCAL CODE			
	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW		-	GROUND BAR			
	-	SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		-	GROUND ROD			
	-	THREE WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		XFMR	TRANSFORMER			
	-	FOUR WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		CT	CURRENT TRANSFORMER			
	-	DIMMER SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		-	UTILITY POLE	NOTES: 1.) EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED. 2.) CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE. FOR CIRCUITS THAT ARE BETWEEN 100' AND 150' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #10 AWG. FOR CIRCUITS THAT ARE BETWEEN 150' AND 225' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #8 AWG. FOR LENGTHS GREATER THAN 225' IN LENGTH, VERIFY CONDUCTOR SIZES WITH ENGINEER.		
	-	MOTOR RATED TOGGLE SWITCH		WM	WATER MAIN			
	-	KEY OPERATED SINGLE POLE SWITCH		-	BOILER BREAK GLASS STATION	TRENCHING NOTES		
	-	WALL MOUNTED OCCUPANCY SENSOR (V - INDICATES VACANCY SENSOR)		NC	NORMALLY CLOSED CONTACTS			
	-	CEILING MOUNTED OCCUPANCY SENSOR (V - INDICATES VACANCY SENSOR)		NO	NORMALLY OPEN CONTACTS	1.) CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES THAT ARE NOT PART OF N.Y. STATE "CODE 753" PRIOR TO DIGGING. 2.) ALL EXCAVATING IN THE AREA OF THE EXISTING UNDERGROUND EQUIPMENT, PIPES AND CONDUITS SHALL BE PERFORMED BY HAND. 3.) ANY AREA/PLANTS OR LANDSCAPING OR PAVEMENTS DISTURBED DURING THE EXCAVATION SHALL BE RESTORED OR REPLACED TO MATCH EXISTING CONDITIONS BY THE CONTRACTOR AT NO COST TO THE OWNER. 4.) ANY EXISTING BURIED CONDUITS, DRAINAGE, SPRINKLER PIPING, ETC. THAT IS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. 5.) THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-962-7962 (NY STATE).		
	-	DUPLEX RECEPTACLE		MD	MOTORIZED DAMPER			
	-	DOUBLE DUPLEX RECEPTACLE		SD OR CFSD	SMOKE DAMPER	1.) FIRE RADIO DRAWINGS SHALL BE PRICED AS AN ADD/ALTERNATE.		
	-	SPECIAL RECEPTACLE		A	AMPERE(S)			
	-	TELEPHONE OUTLET		AFF	ABOVE FINISHED FLOOR	GENERAL NOTES		
	-	DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON)		AF	AMPERAGE OF FUSE			
	-	COMBINATION TELEPHONE/DATA OUTLET		AGL	ABOVE GRADE LEVEL	1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. 3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. 4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY. 5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".		
	-	WIRELESS ACCESS POINT		AHU	AIR HANDLING UNIT			
	-	CAMERA		AL	ALUMINIUM	FIRE RADIO DRAWINGS		
	-	CARD READER		ARC	ARC FAULT INTERRUPTER			
	-	FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE		AS	AMPERAGE OF SWITCH	1.) FIRE RADIO DRAWINGS SHALL BE PRICED AS AN ADD/ALTERNATE.		
	-	FLOOR MOUNTED DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON)		ATS	AUTOMATIC TRANSFER SWITCH			
	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE) V - DENOTES VOICE COMMUNICATION DEVICE		AWG	AMERICAN WIRE GAUGE	GENERAL NOTES		
	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE) V - DENOTES VOICE COMMUNICATION DEVICE		C	CONDUIT			
	-	FIRE ALARM STROBE 15/75 CD		CD	CANDELA	1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. 3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. 4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY. 5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".		
	-	FIRE ALARM STROBE 110 CD		CKT	CIRCUIT			
	-	SMOKE DETECTOR. EL - ELEVATOR LOBBY; SH - SMOKE HATCH; SC - PLENUM RATED ABOVE CEILING		CLG	CEILING	1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. 3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. 4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY. 5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".		
	-	DUCT MOUNTED SMOKE DETECTOR		CT	COUNTER-TOP			
	-	HEAT DETECTOR		CU	COPPER	1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. 3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. 4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY. 5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".		
	-	FIRE ALARM TAMPER SWITCH		DEM.	DEMOLISH AND REMOVE			
	-	FIRE ALARM WATER FLOW SWITCH		DISC	DISCONNECT	1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. 3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. 4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY. 5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".		
	-	FIRE ALARM ANNUNCIATOR PANEL		EX.	EXISTING TO REMAIN			
	CM	FIRE ALARM CONTROL MODULE		F	FLOOR	1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. 3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. 4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY. 5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".		
	MM	FIRE ALARM MONITORING MODULE		GFI	GROUND FAULT INTERRUPTER			
				HP	HORSEPOWER	1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. 3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. 4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY. 5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".		
				KVA	KILO-VOLT-AMPERE			
				KW	KILO-WATT	1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. 3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. 4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY. 5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".		
				MAX	MAXIMUM			
				MCB	MAIN CIRCUIT BREAKER	1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. 3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. 4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY. 5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".		
				MIN	MINIMUM			
				MLO	MAIN LUG ONLY	1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. 3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. 4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY. 5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".		
				NIC	NOT IN CONTRACT			
				NTS	NOT TO SCALE	1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. 3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. 4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY. 5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".		
				P	POLE			
				PBO	PROVIDED BY OTHERS	1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. 3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. 4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY. 5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".		

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KEY PLAN

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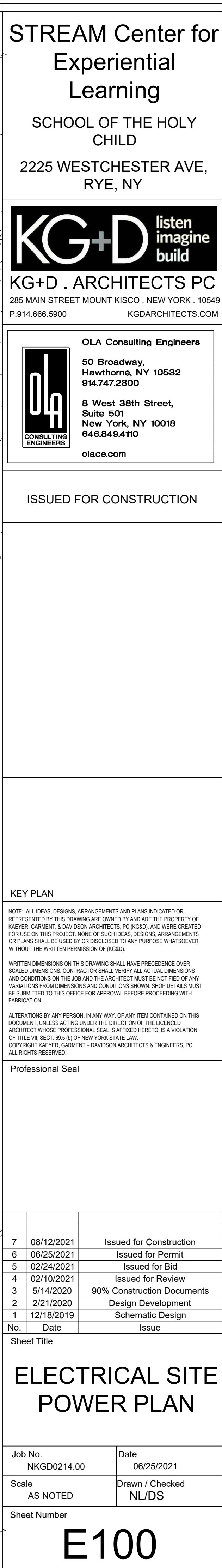
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3	5/14/2020	90% Construction Documents
2	2/21/2020	Design Development
1	12/18/2019	Schematic Design
No.	Date	Issue
Sheet Title		

ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES

Job No.	NKGD0214.00	Date	06/25/2021
Scale	AS NOTED	Drawn / Checked	NL / KS

Sheet Number

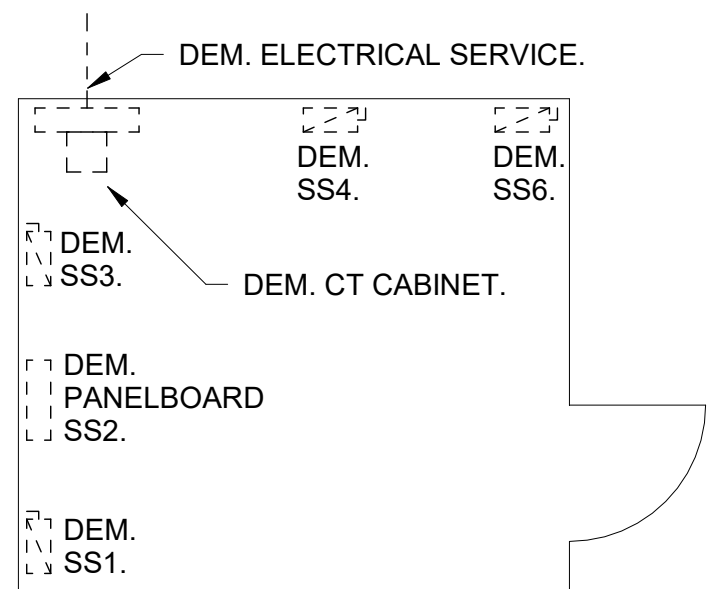
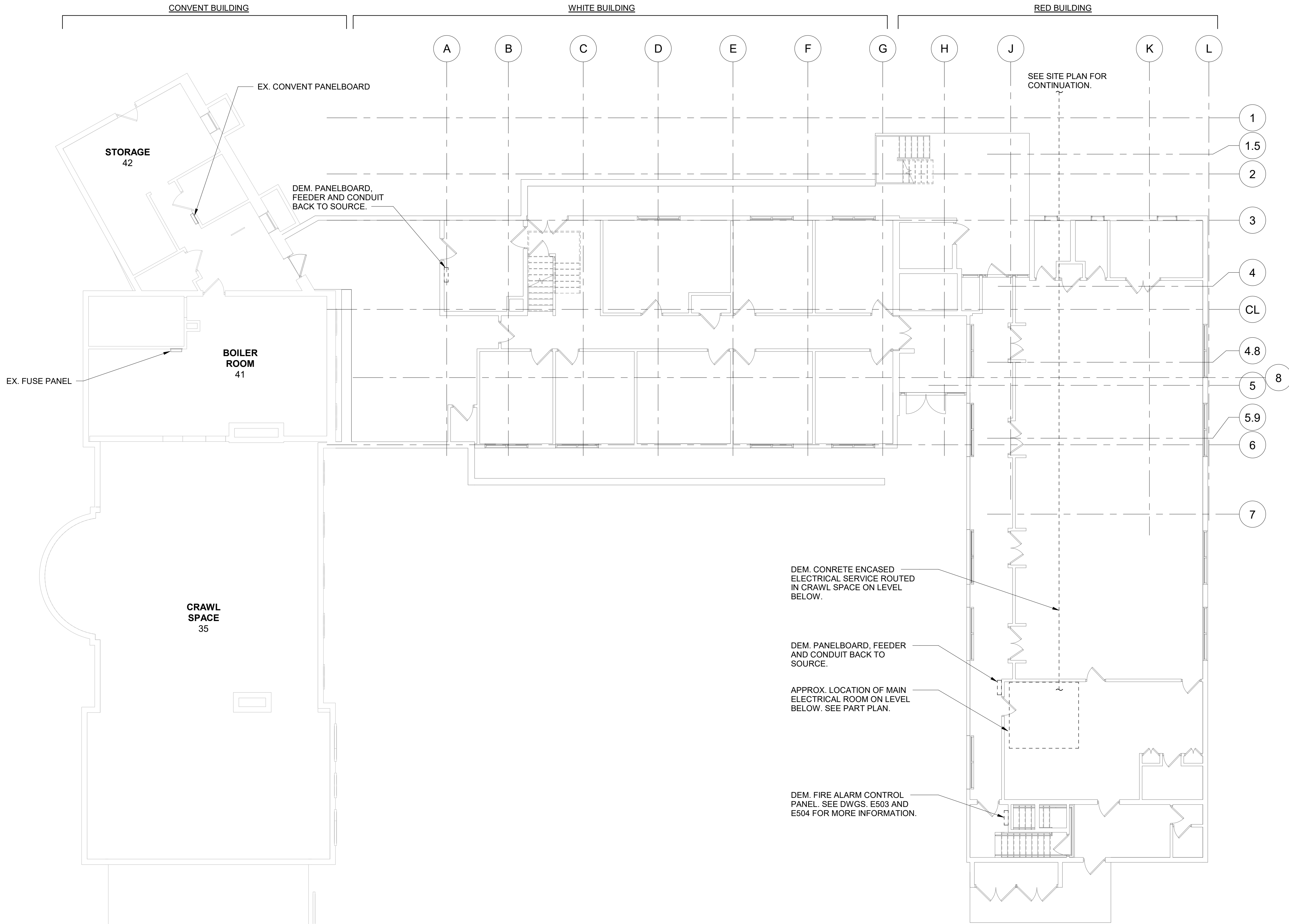
E001



Sheet Number

E100

- 1.) INTERCEPT, SPLICE AND RE-DIRECT EXISTING PRIMARY FEEDERS AS NECESSARY TO ACCOMMODATE NEW SITE WORK . PROVIDE DB-6 MANHOLES AS REQUIRED.
- 2.) DISCONNECT AND REMOVE SERVICE CONDUCTORS. EXISTING CONDUIT SHALL REMAIN.



ELECTRICAL 1ST FLOOR DEMOLITION PLAN

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



2

ELECTRICAL ROOM DEMOLITION PLAN

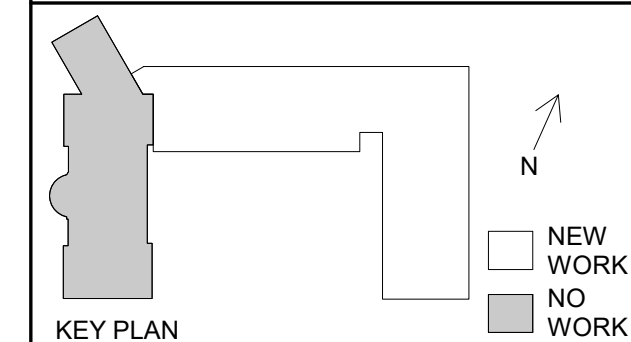
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1	12/18/2019	Schematic Design

Sheet Title
**ELECTRICAL 1ST
FLOOR
DEMOLITION
PLAN**

Job No. NKG0214.00	Date 02/10/2020
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Sheet Number

E101

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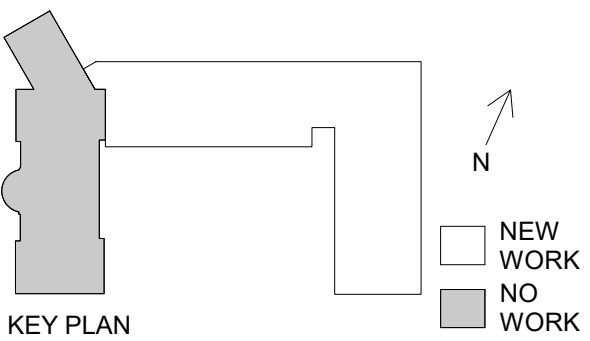
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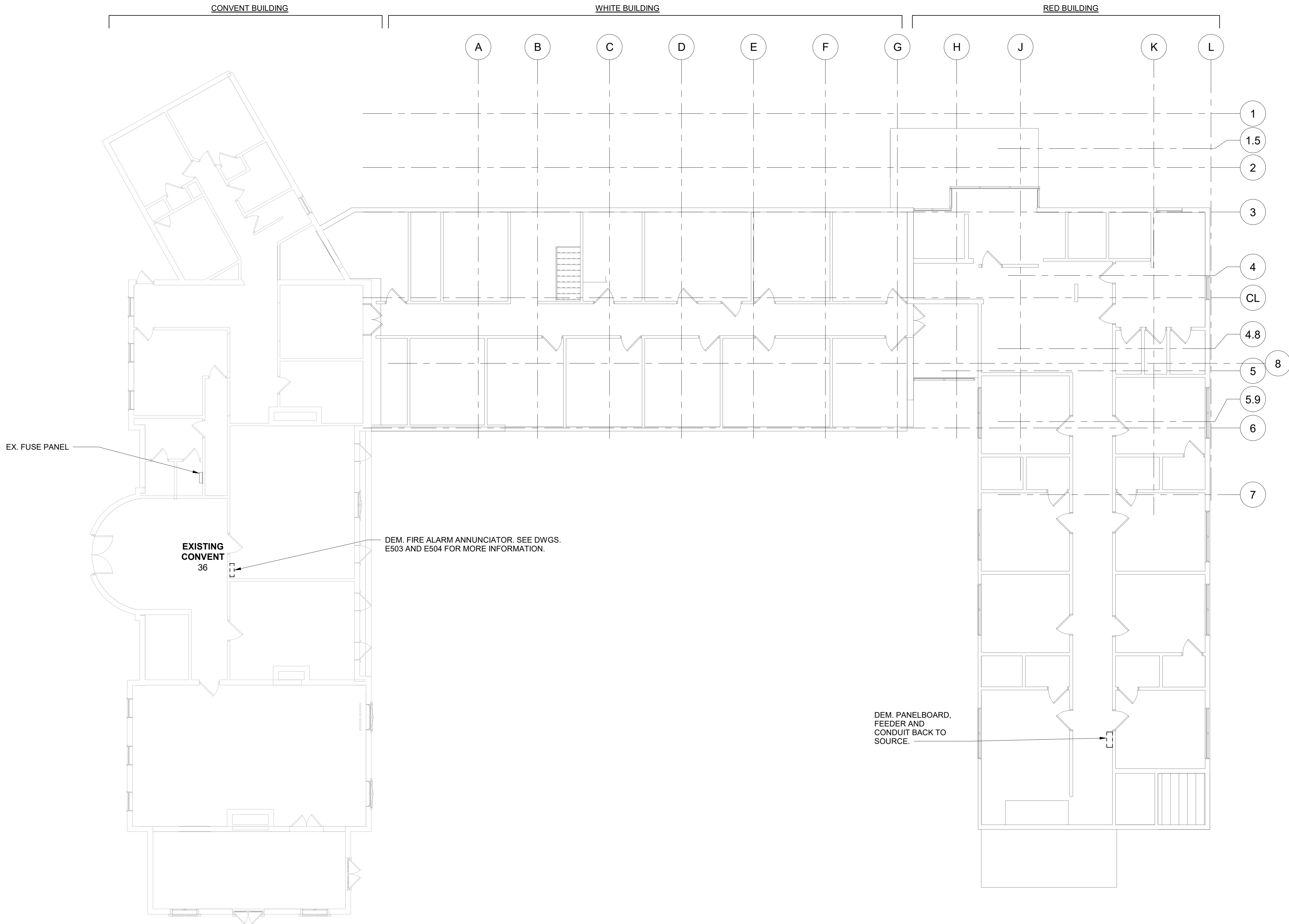
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1	12/18/2019	Schematic Design

Sheet Title
**ELECTRICAL 2ND
FLOOR
DEMOLITION
PLAN**

Job No. NKG00214.00	Date 02/10/2020
Scale AS NOTED	Drawn / Checked NL / KS

Sheet Number

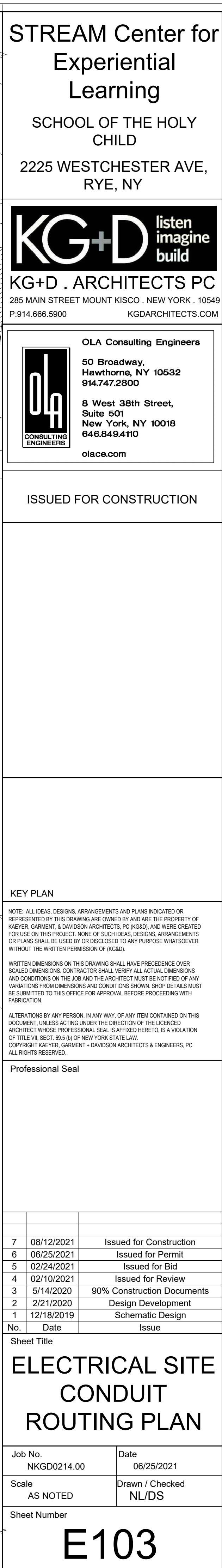
E102



1

ELECTRICAL 2ND FLOOR DEMOLITION PLAN

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



Sheet Number

E103

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KEY PLAN

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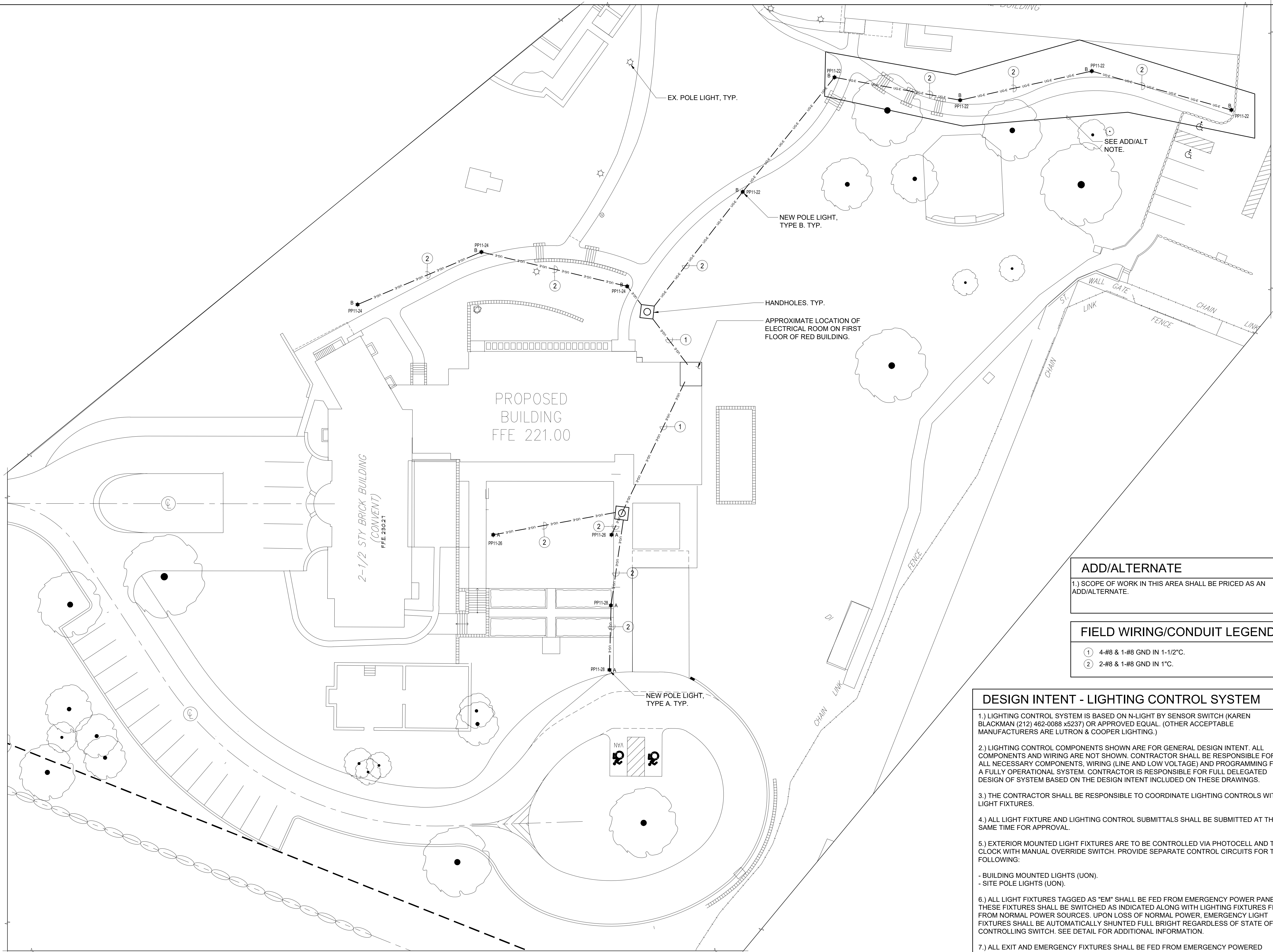
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ELECTRICAL SITE
LIGHTING PLAN

Job No.	Date
NKGD0214.00	06/25/2021
Scale	Drawn / Checked
AS NOTED	NL/DS

Sheet Number

E200



ADD/ALTERNATE

1.) SCOPE OF WORK IN THIS AREA SHALL BE PRICED AS AN ADD/ALTERNATE.

FIELD WIRING/CONDUIT LEGEND

- 1 4-#8 & 1-#8 GND IN 1-1/2" C.
- 2 2-#8 & 1-#8 GND IN 1" C.

DESIGN INTENT - LIGHTING CONTROL SYSTEM

- 1.) LIGHTING CONTROL SYSTEM IS BASED ON N-LIGHT BY SENSOR SWITCH (KAREN BLACKMAN (212) 462-0088 x5237) OR APPROVED EQUAL. (OTHER ACCEPTABLE MANUFACTURERS ARE LUTRON & COOPER LIGHTING.)
- 2.) LIGHTING CONTROL COMPONENTS SHOWN ARE FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. CONTRACTOR IS RESPONSIBLE FOR FULL DELEGATED DESIGN OF SYSTEM BASED ON THE DESIGN INTENT INCLUDED ON THESE DRAWINGS.
- 3.) THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES.
- 4.) ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALL BE SUBMITTED AT THE SAME TIME FOR APPROVAL.
- 5.) EXTERIOR MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH. PROVIDE SEPARATE CONTROL CIRCUITS FOR THE FOLLOWING:
 - BUILDING MOUNTED LIGHTS (UON).
 - SITE POLE LIGHTS (UON).
- 6.) ALL LIGHT FIXTURES TAGGED AS "EM" SHALL BE FED FROM EMERGENCY POWER PANELS. THESE FIXTURES SHALL BE SWITCHED AS INDICATED ALONG WITH LIGHTING FIXTURES FED FROM NORMAL POWER SOURCES. UPON LOSS OF NORMAL POWER, EMERGENCY LIGHT FIXTURES SHALL BE AUTOMATICALLY SHUNTED FULL BRIGHT REGARDLESS OF STATE OF CONTROLLING SWITCH. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 7.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM EMERGENCY POWERED PANELS.



1

ELECTRICAL SITE LIGHTING PLAN

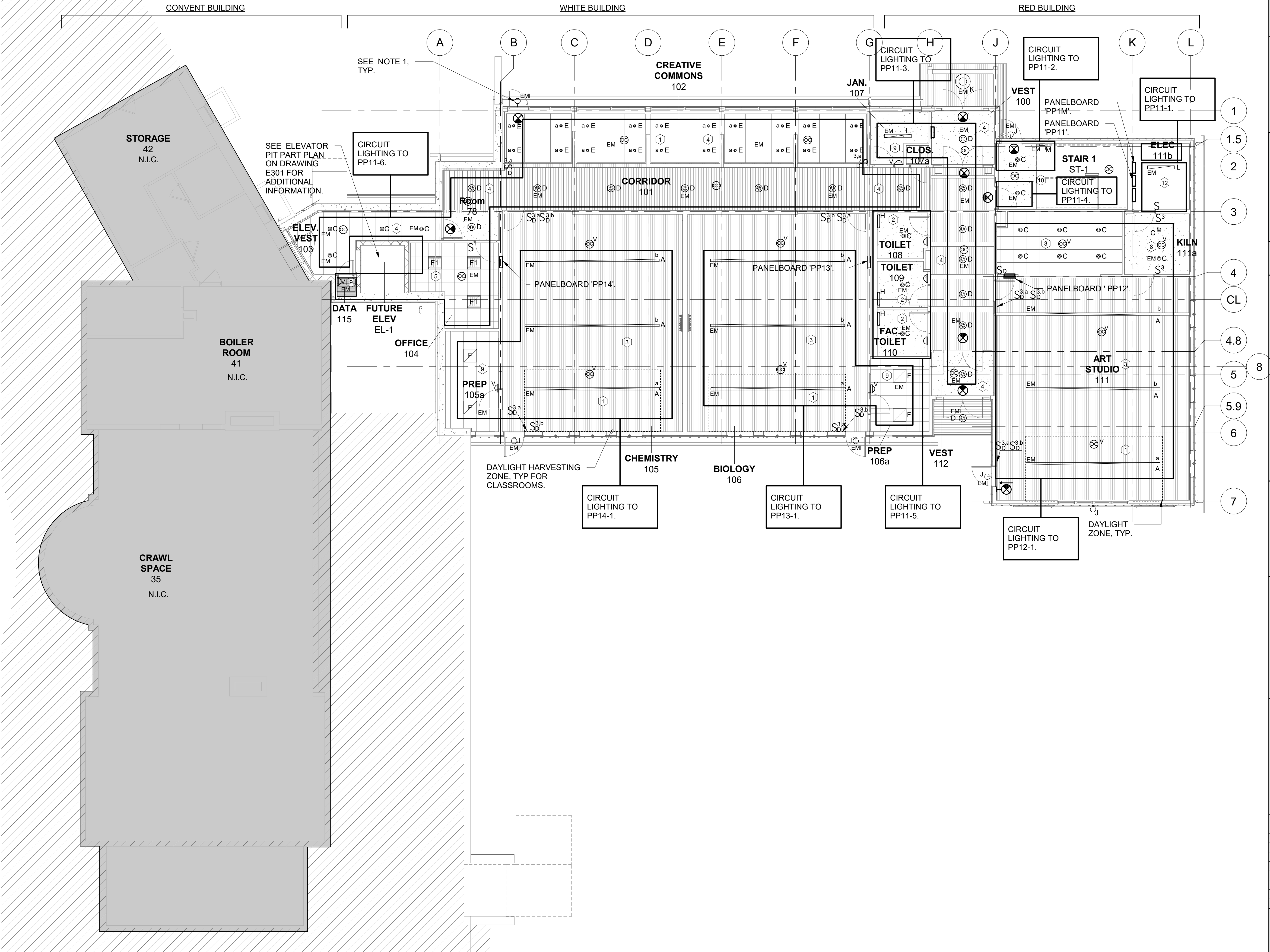
SCALE: 1" = 20'-0"

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1. LIGHTING CONTROL SYSTEM IS BASED ON N-LIGHT BY SENSOR SWITCH (KAREN BLACKMAN (212) 462-0088 x5237) OR APPROVED EQUAL. (OTHER ACCEPTABLE MANUFACTURERS ARE LUTRON & COOPER LIGHTING).
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4. ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALL BE SUBMITTED AT THE SAME TIME FOR APPROVAL.
5. EXTERIOR MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.
- BUILDING MOUNTED LIGHTS (UON)
- SITE POLE LIGHTS
6. LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN EMERGENCY BATTERY BACKUP BALLASTS. WHERE POSSIBLE, THE BALLAST SHALL BE INTEGRAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY BALLAST IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BALLAST. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE BATTERY PACK AND FLOURESCENT LAMPS SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 12000 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
7. ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.

LIGHTING CONTROLS LEGEND

- ① DAYLIGHT HARVESTING ZONE WITH PHOTOCELL SENSOR
- ② LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY OCCUPANCY SENSOR
- ③ LOW VOLTAGE MANUAL ON WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR. ONE SWITCH CONTROLLING ALL THE LIGHTS IN ROW NEAREST TO TEACHING WALL AND THE OTHER SWITCH CONTROLLING ALL REMAINING LIGHTS IN THE SPACE.
- ④ TIME CLOCK WITH OCCUPANCY SENSOR OVERRIDE AFTER HOURS.
- ⑤ LOW VOLTAGE WALL MOUNTED SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- ⑥ LOW VOLTAGE MANUAL DIMMER SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- ⑦ EXTERIOR LIGHTING CONTROLS. SEE DESIGN INTENT, NOTE #5.
- ⑧ LOW VOLTAGE MANUAL ON WALL SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
- ⑨ LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY VACANCY SENSOR.
- ⑩ TIME CLOCK WITH OCCUPANCY SENSOR OVERRIDE AFTER HOURS WITH 50% DIMMING. DURING NORMAL BUSINESS HOURS, LIGHT FIXTURES SHALL BE ON FULL BRIGHT. DURING NON-BUSINESS HOURS, LIGHT FIXTURES SHALL BE CONTROLLED BY OCCUPANCY SENSORS AND SHALL DIM TO 50% WHEN IN OCCUPANCY SENSOR MODE.
- ⑪ LOW VOLTAGE MANUAL ON WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
- ⑫ LINE VOLTAGE WALL SWITCH.



1

ELECTRICAL 1ST FLOOR LIGHTING PLAN

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

NOTES:

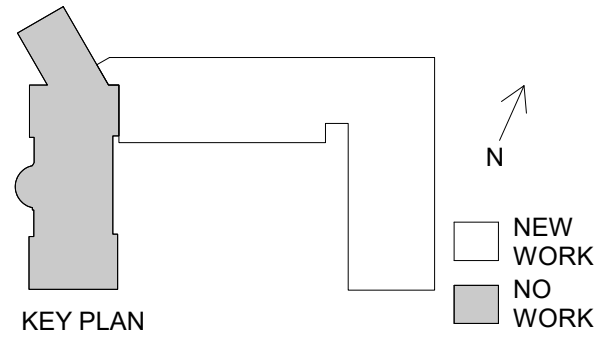
- 1.) CIRCUIT EXTERIOR LIGHTING TO PP11-7 AND PP11-43.
- 2.) ALL TIMECLOCKS CONTROLLING LIGHT FIXTURES IN CORRIDORS AND STAIRS SHALL BE LOCATED IN THE MAIN ELECTRICAL ROOM ON THE FIRST FLOOR.
- 3.) PROVIDE FIVE (5) MINI-INVERTERS SIMILAR TO IOTA IIS-125-I FOR LIGHT FIXTURES D, J AND K BY EXTERIOR DOORS ON THE FIRST FLOOR. LOCATE MINI-INVERTERS ABOVE DROP CEILINGS.

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4	02/10/2021	Issued For Review
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1	12/18/2019	Schematic Design

No. Date Issue

Sheet Title

ELECTRICAL 1ST
FLOOR LIGHTING
PLAN

Job No. NKGD0214.00

Date 02/10/2020

Scale AS NOTED

Drawn / Checked NL / KS

Sheet Number

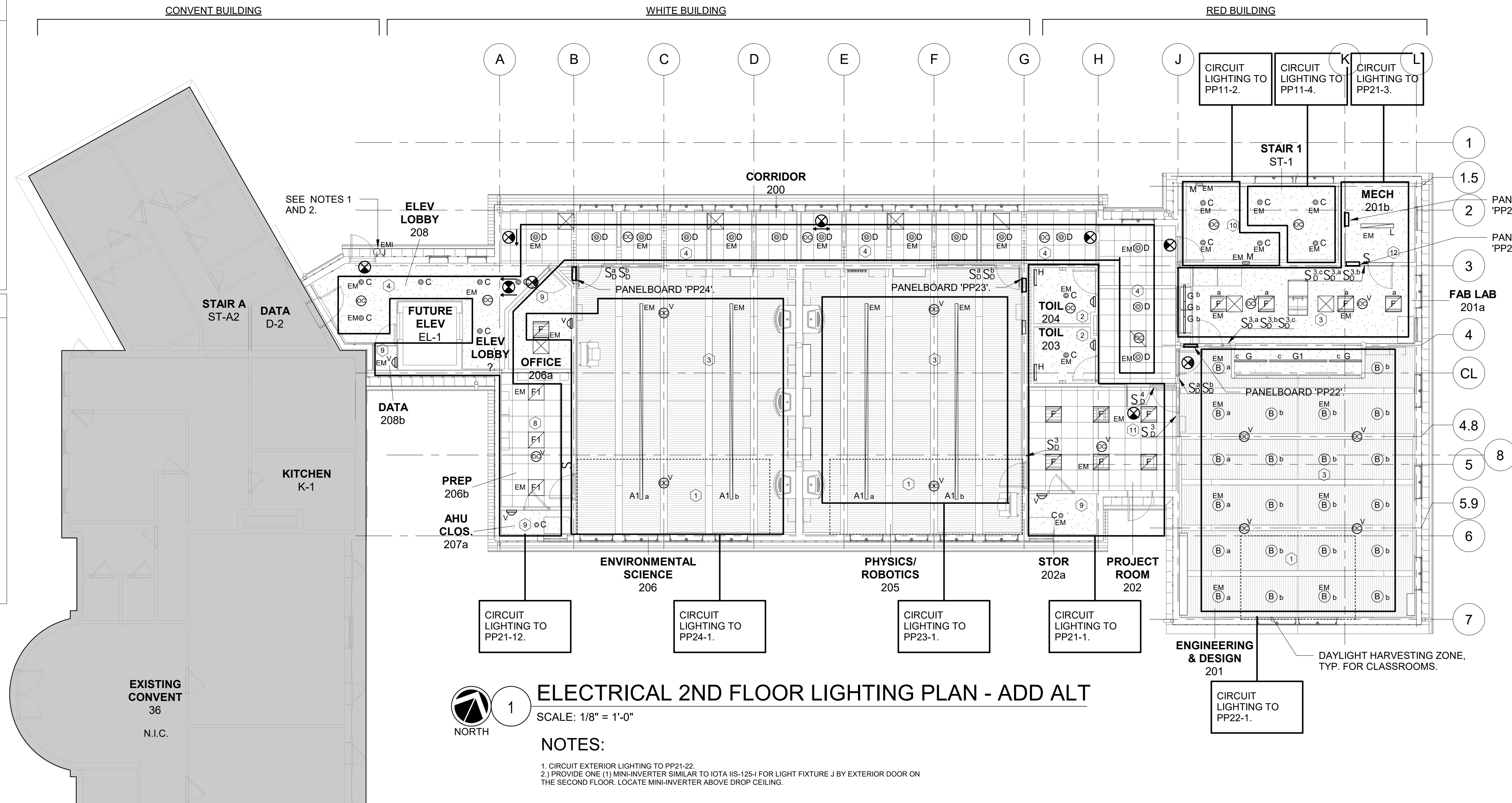
E201

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 - BUILDING MOUNTED LIGHTS (UON)
 - SITE POLE LIGHTS
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7. ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.

LIGHTING CONTROLS LEGEND

- (1) DAYLIGHT HARVESTING ZONE WITH PHOTOCELL SENSOR
- (2) LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY OCCUPANCY SENSOR
- (3) LOW VOLTAGE MANUAL ON WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR, ONE SWITCH CONTROLLING ALL THE LIGHTS IN ROW NEAREST TO TEACHING WALL AND THE OTHER SWITCH CONTROLLING ALL REMAINING LIGHTS IN THE SPACE.
- (4) TIME CLOCK WITH OCCUPANCY SENSOR OVERRIDE AFTER HOURS.
- (5) LOW VOLTAGE WALL MOUNTED SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- (6) LOW VOLTAGE MANUAL DIMMER SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- (7) EXTERIOR LIGHTING CONTROLS. SEE DESIGN INTENT, NOTE #5.
- (8) LOW VOLTAGE MANUAL ON WALL SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
- (9) LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY VACANCY SENSOR.
- (10) TIME CLOCK WITH OCCUPANCY SENSOR OVERRIDE AFTER HOURS WITH 50% DIMMING. DURING NORMAL BUSINESS HOURS, LIGHT FIXTURES SHALL BE ON FULL BRIGHT. DURING NON-BUSINESS HOURS, LIGHT FIXTURES SHALL BE CONTROLLED BY OCCUPANCY SENSORS AND SHALL DIM TO 50% WHEN IN OCCUPANCY SENSOR MODE.
- (11) LOW VOLTAGE MANUAL ON WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
- (12) LINE VOLTAGE WALL SWITCH.

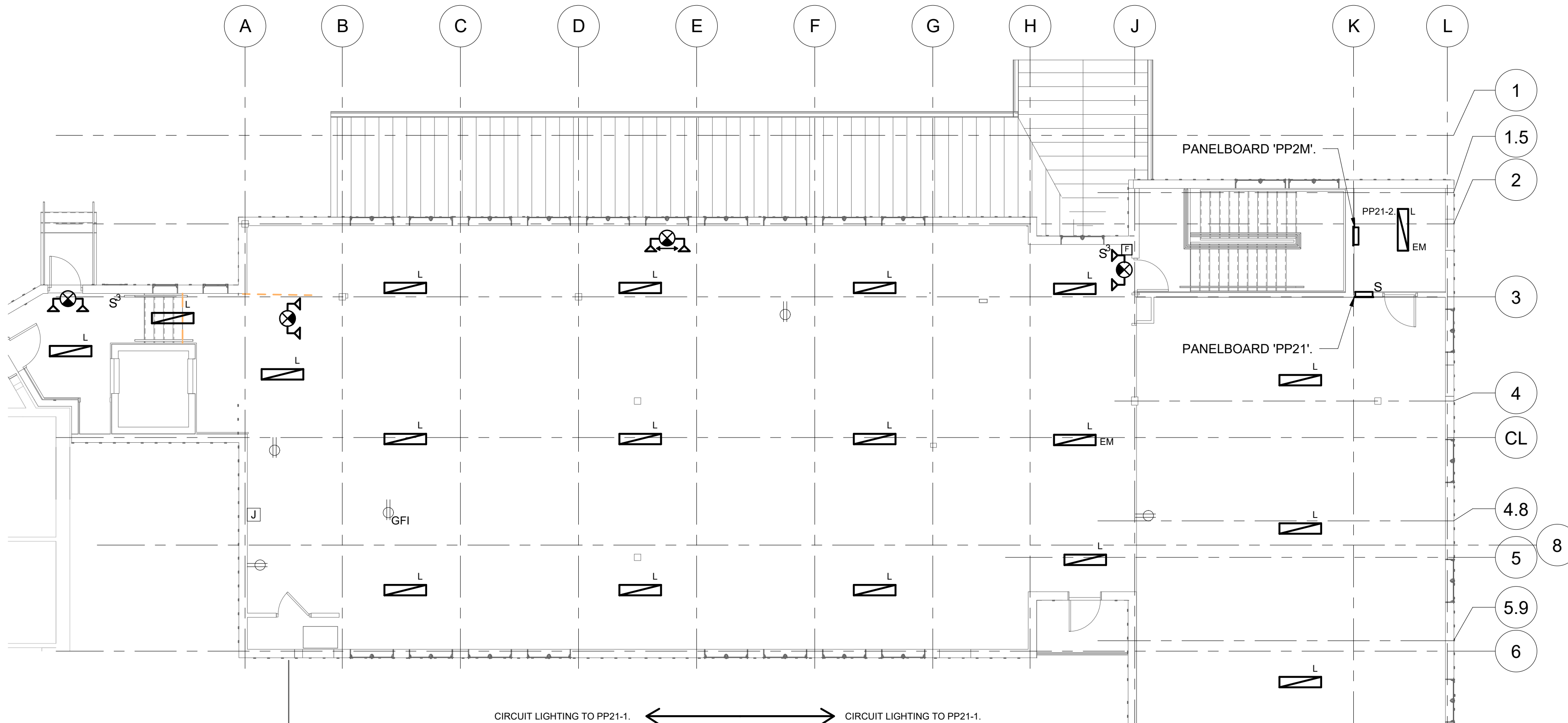


ELECTRICAL 2ND FLOOR LIGHTING PLAN - ADD ALT

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

NOTES:

1. CIRCUIT EXTERIOR LIGHTING TO PP21-22.
2. PROVIDE ONE (1) MINI-INVERTER SIMILAR TO IOTA IIS-125-I FOR LIGHT FIXTURE J BY EXTERIOR DOOR ON THE SECOND FLOOR. LOCATE MINI-INVERTER ABOVE DROP CEILING.



ELECTRICAL 2ND FLR NEW WORK LIGHTING PLAN - BASE BID

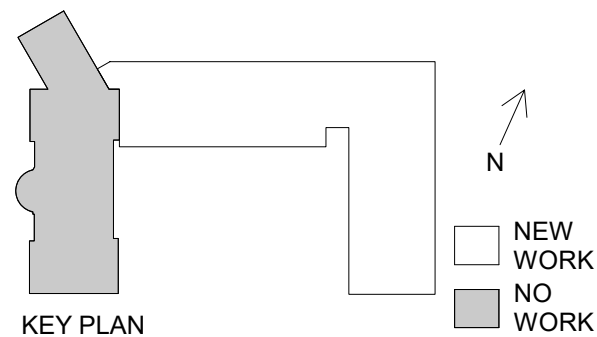
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1	12/18/2019	Schematic Design

No. Date Issue

Sheet Title

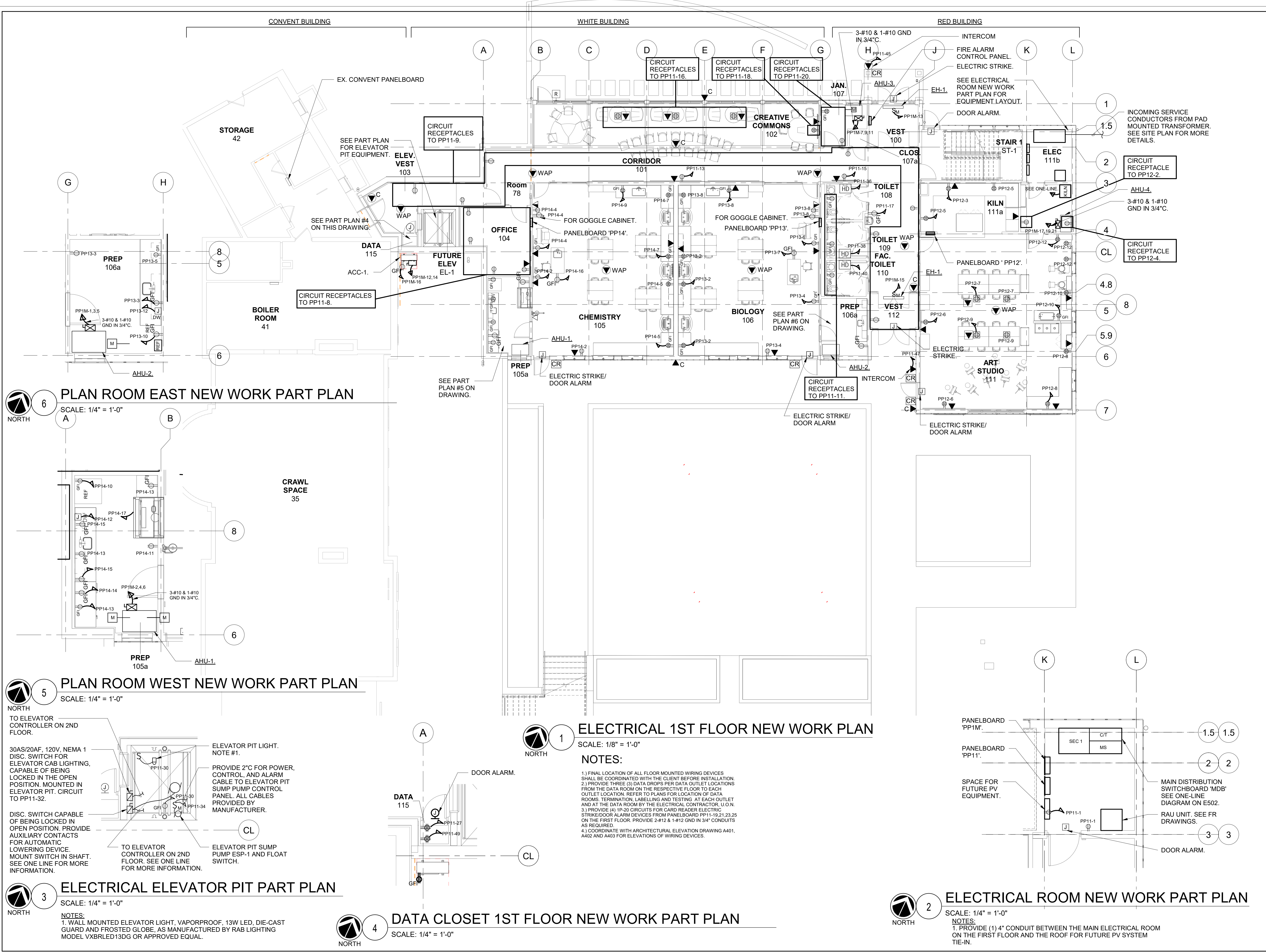
ELECTRICAL 2ND FLOOR LIGHTING PLAN

Job No. NKG0214.00 Date 02/10/2020

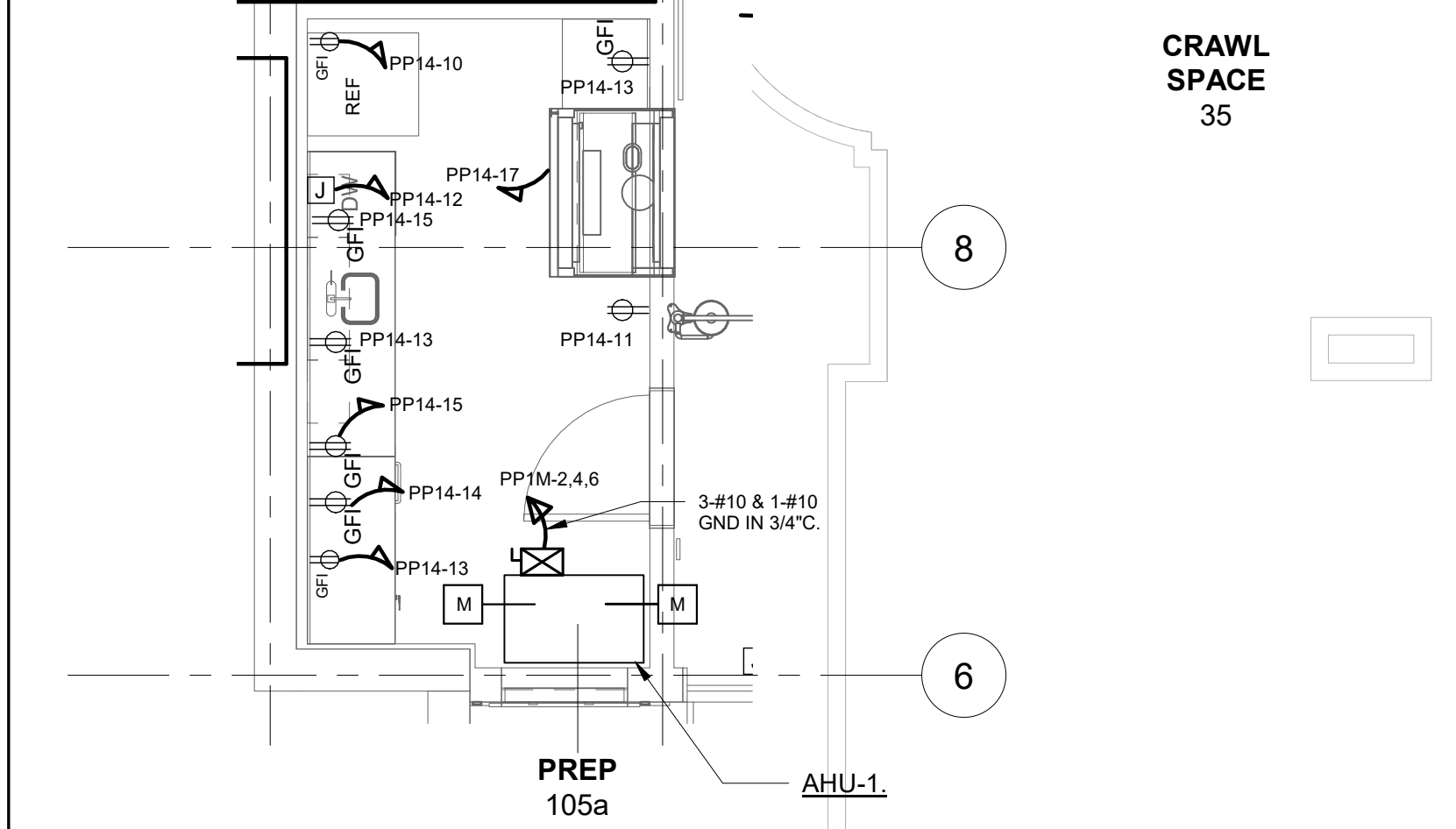
Scale AS NOTED Drawn / Checked NL / KS

Sheet Number

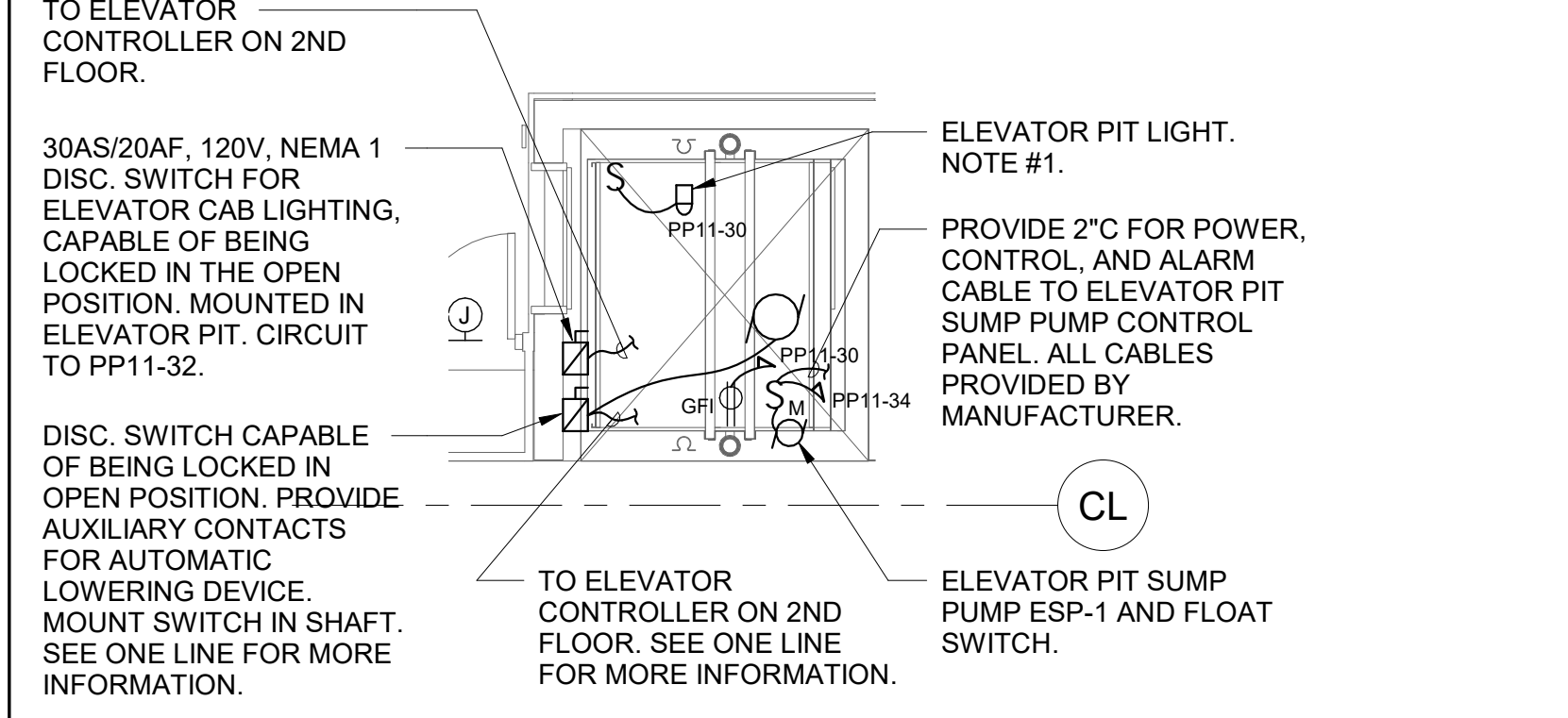
E202



6 PLAN ROOM EAST NEW WORK PART PLAN
SCALE: 1/4" = 1'-0"



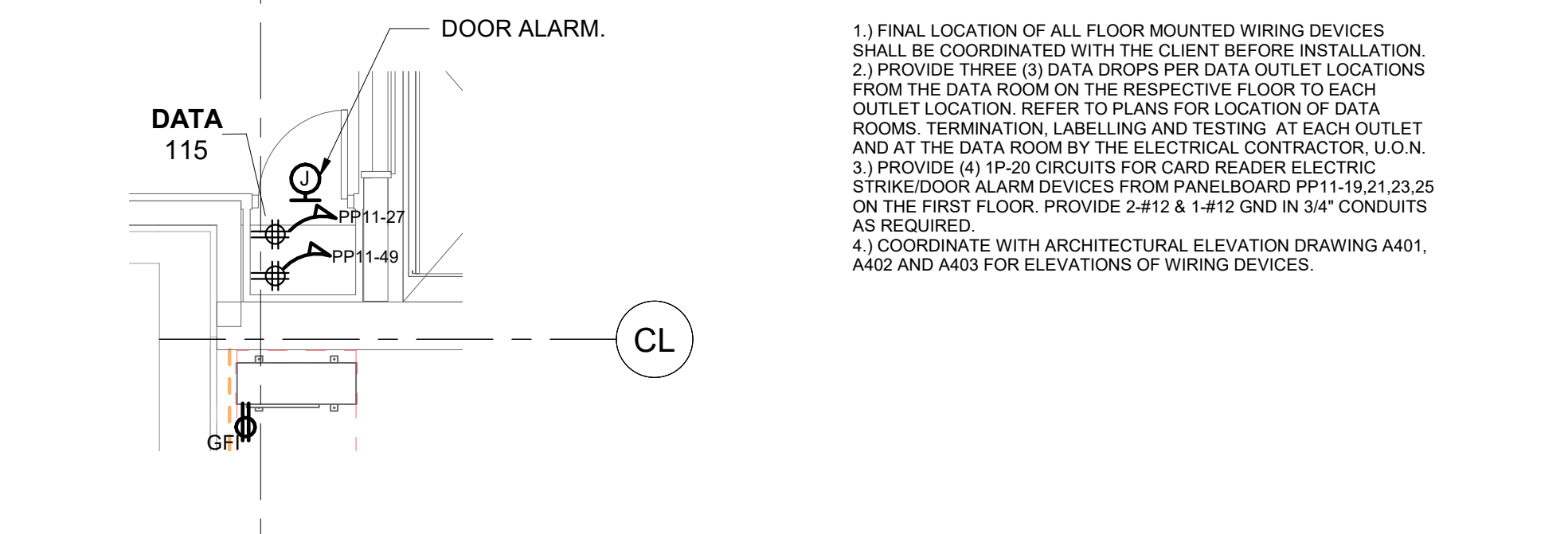
5 PLAN ROOM WEST NEW WORK PART PLAN
SCALE: 1/4" = 1'-0"



3 ELECTRICAL ELEVATOR PIT PART PLAN
SCALE: 1/4" = 1'-0"

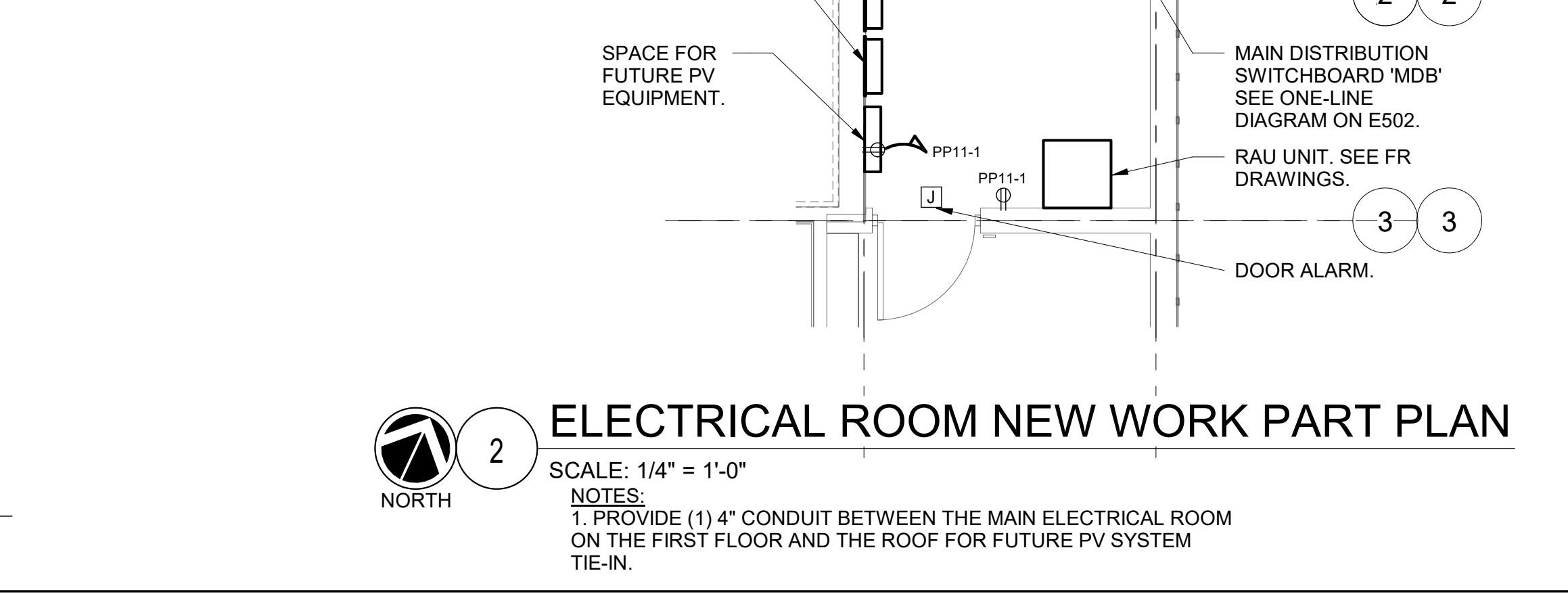
NOTES:
1. WALL MOUNTED ELEVATOR LIGHT, VAPORPROOF, 13W LED, DIE-CAST GUARD AND FROSTED GLOBE, AS MANUFACTURED BY RAB LIGHTING MODEL VXBRLD13DG OR APPROVED EQUAL.

1 ELECTRICAL 1ST FLOOR NEW WORK PLAN
SCALE: 1/8" = 1'-0"



4 DATA CLOSET 1ST FLOOR NEW WORK PART PLAN
SCALE: 1/4" = 1'-0"

2 ELECTRICAL ROOM NEW WORK PART PLAN
SCALE: 1/4" = 1'-0"



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KEY PLAN

NEW WORK

NO WORK

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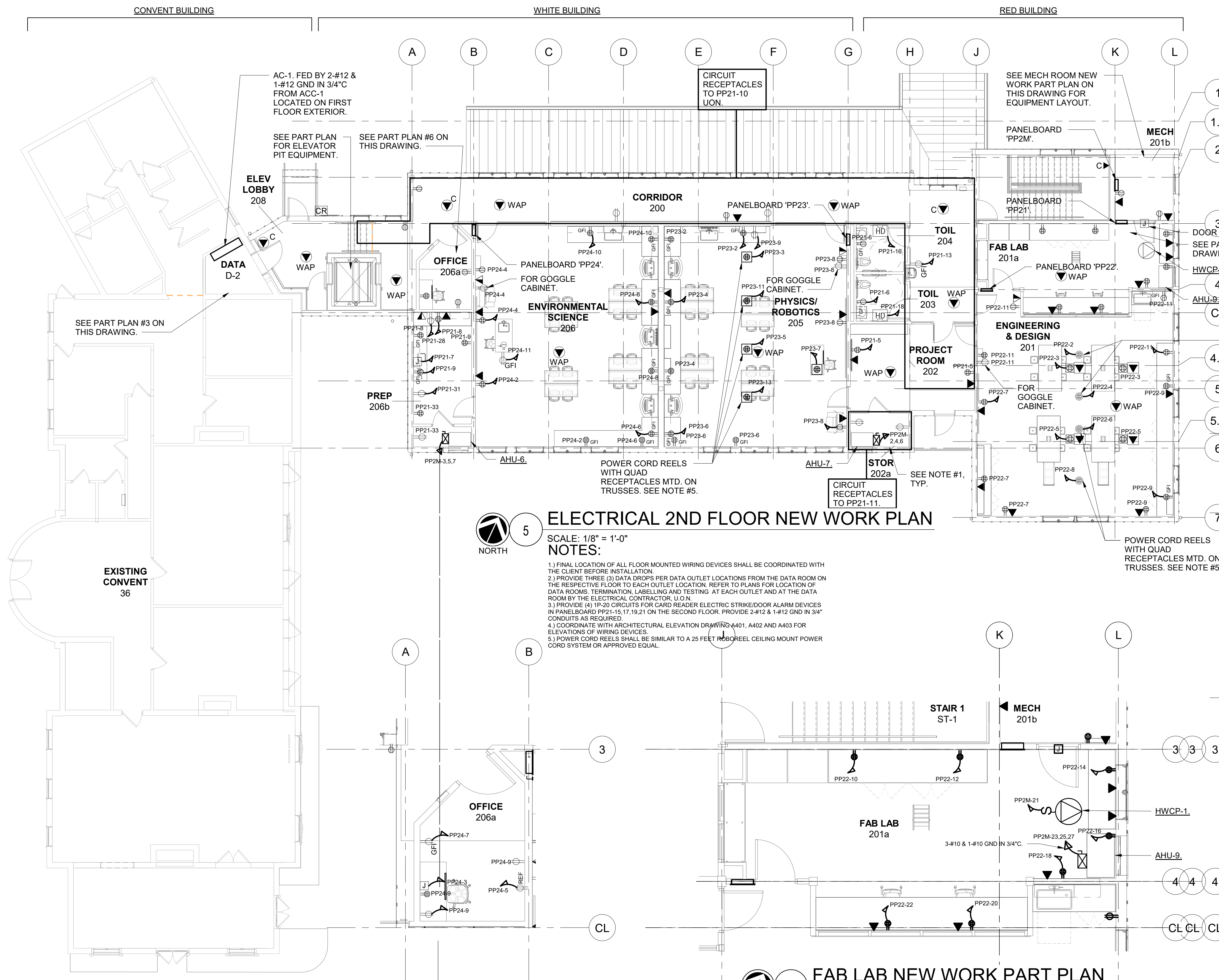
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1	12/18/2019	Schematic Design

Sheet Title

ELECTRICAL 1ST FLOOR NEW WORK PLAN

Job No.	NKGD0214.00	Date	02/10/2020
Scale	AS NOTED	Drawn / Checked	NL / KS
Sheet Number	E301		



BASE BID:

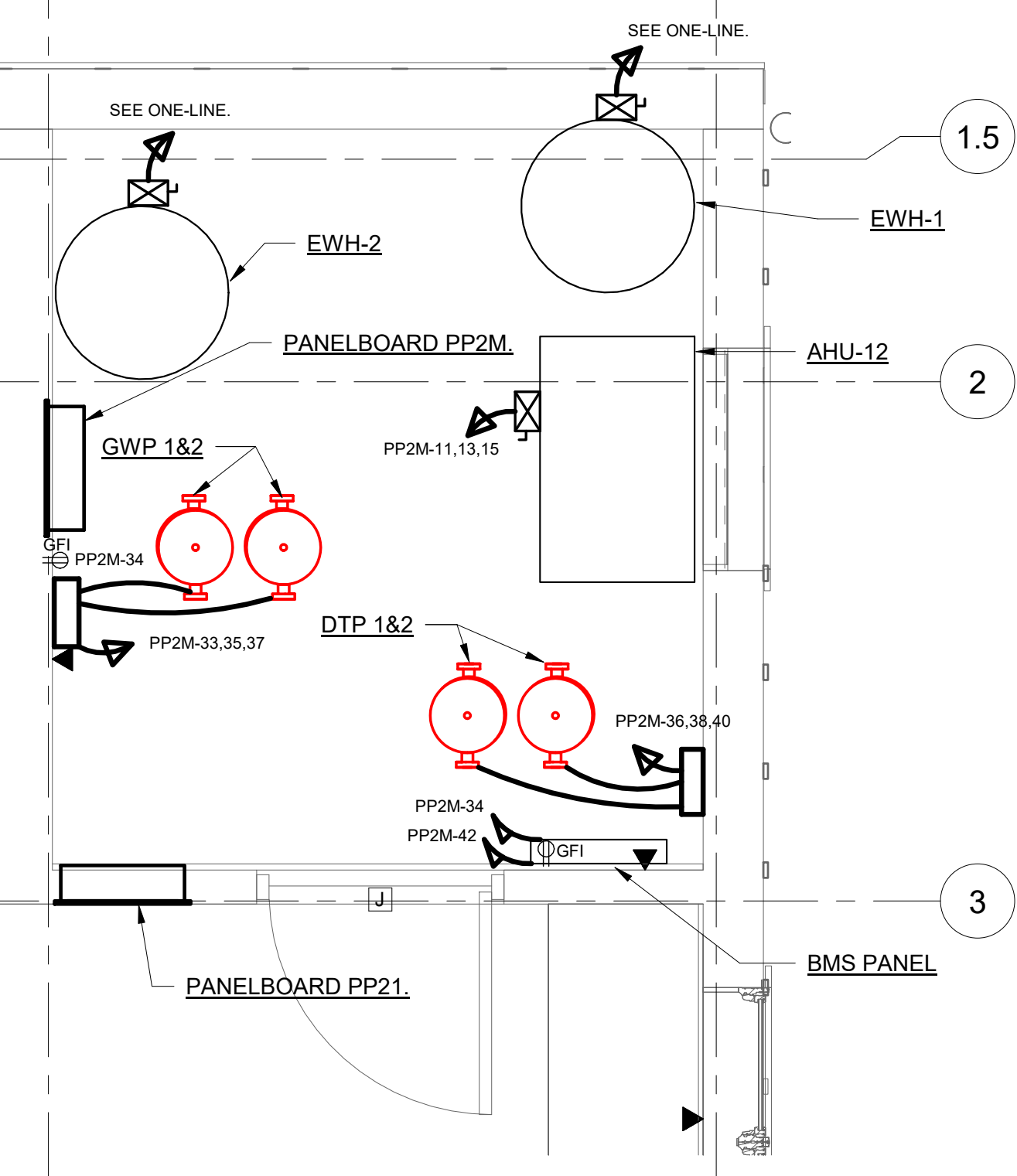
ELECTRICAL SCOPE OF WORK ON THE 2ND FLOOR ASSOCIATED WITH THE BASE BID INCLUDE THE FOLLOWING:

- REFER TO DRAWING E202 DETAIL #2 FOR EM LIGHTING, NORMAL LIGHTING AND EXIT SIGNS WORK ASSOCIATED WITH THE BASE BID.
- REFER TO DRAWING E402 DETAIL #4 FOR FIRE ALARM WORK ASSOCIATED WITH THE BASE BID. IN ADDITION, THE ENTIRE ELEVATOR SCOPE OF WORK IS PART OF THE BASE BID.
- NO SHEETROCK OR DROP CEILING ARE BEING INSTALLED ON THE 2ND FLOOR IN THE BASE BID. ALL STUD MOUNTED AND FLOOR MOUNTED DEVICES SHALL BE ROUGH-IN WITH CONDUIT AND CONDUCTORS. CONDUIT AND CONDUCTORS SHALL BE ROUTED AND COILED AT THE RESPECTIVE PANELBOARD LOCATION FROM WHICH IT IS FED. APART FROM PANELBOARDS PP2M AND PP21, NO OTHER SECOND FLOOR PANELBOARDS ARE TO BE INSTALLED.

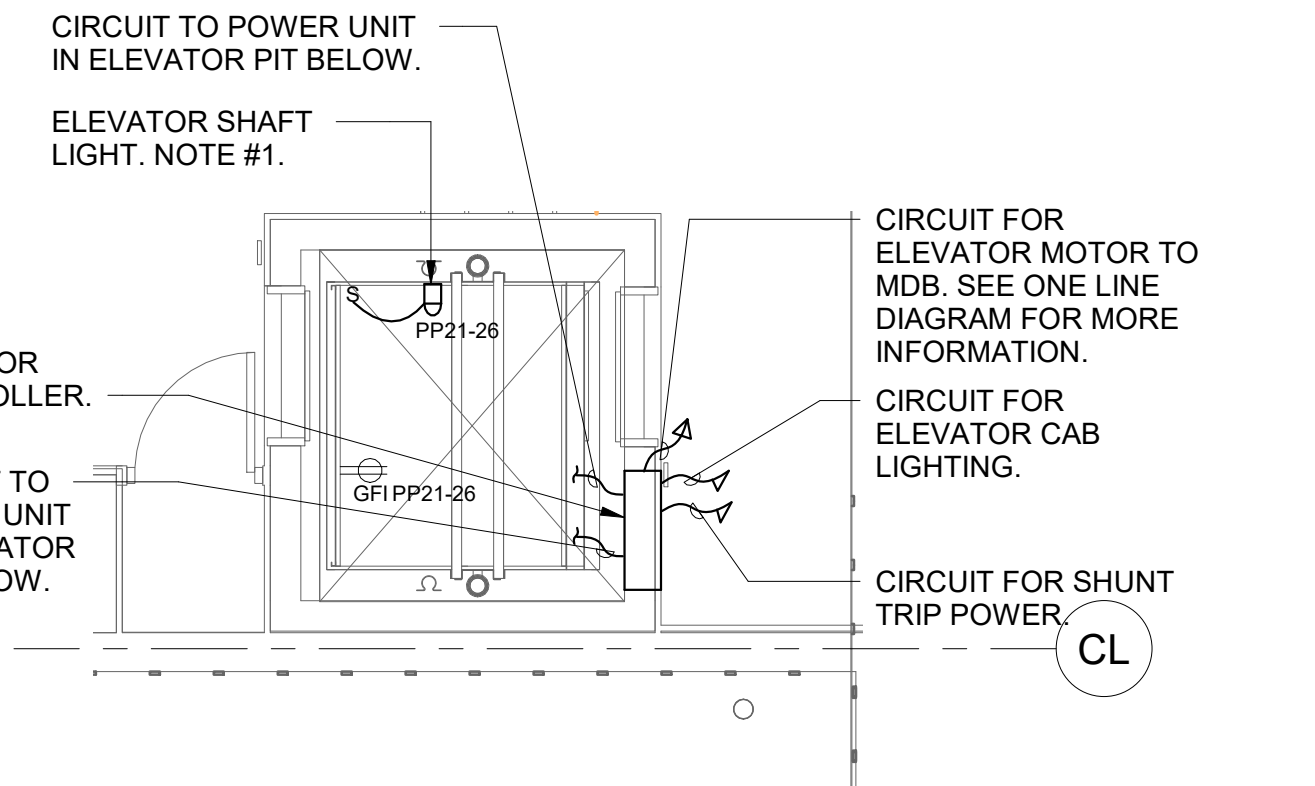
ADD ALTERNATE:

- THE ENTIRE SECOND FLOOR SHALL BE BUILT OUT AS SHOWN ON PLANS.

POWER CORD REELS WITH QUAD RECEPTACLES MTD. ON TRUSSES. SEE NOTE #5.



MECHANICAL NEW WORK PLAN
SCALE: 1/2" = 1'-0"



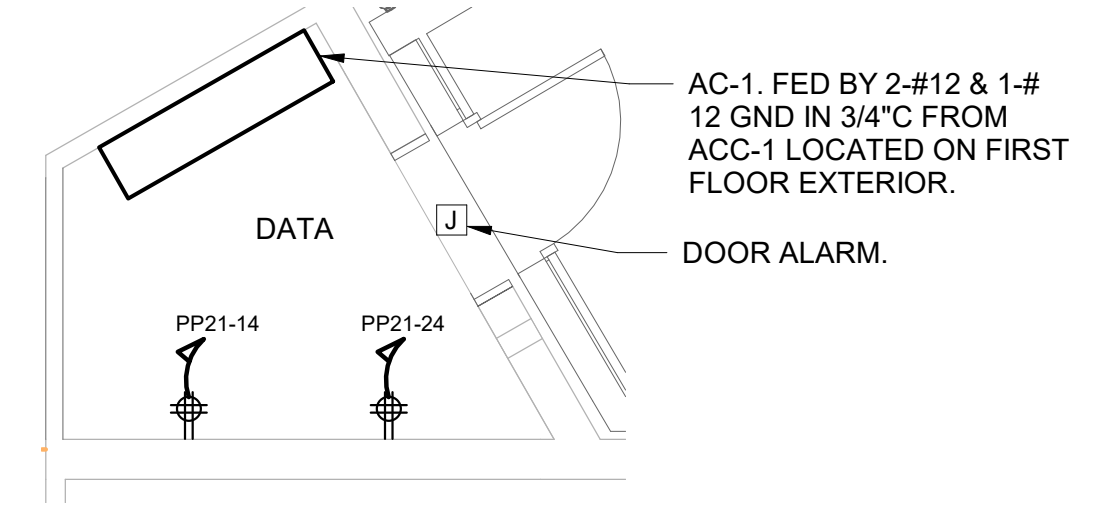
ELECTRICAL ELEVATOR SHAFT PART PLAN
SCALE: 1/4" = 1'-0"

NOTES:
1. WALL MOUNTED ELEVATOR LIGHT, VAPORPROOF, 13W LED, DIE-CAST GUARD AND FROSTED GLOBE, AS MANUFACTURED BY RAB LIGHTING MODEL VXBRLD13DG OR APPROVED EQUAL.

ELECTRICAL 2ND FLOOR NEW WORK PLAN
SCALE: 1/8" = 1'-0"

- NOTES:**
- 1) FINAL LOCATION OF ALL FLOOR MOUNTED WIRING DEVICES SHALL BE COORDINATED WITH THE CLIENT BEFORE INSTALLATION.
 - 2) PROVIDE THREE (3) DATA DROPS PER DATA OUTLET LOCATIONS FROM THE DATA ROOM ON THE RESPECTIVE FLOOR TO EACH OUTLET LOCATION. REFER TO PLANS FOR LOCATION OF DATA ROOMS. TERMINATION, LABELLING AND TESTING AT EACH OUTLET AND AT THE DATA ROOM BY THE ELECTRICAL CONTRACTOR, U.O.N.
 - 3) PROVIDE (4) 1P-20 CIRCUITS FOR CARD READER ELECTRIC STRIKE/DOOR ALARM DEVICES IN PANELBOARD PP21-15, 17, 19, 21 ON THE SECOND FLOOR. PROVIDE 2-#12 & 1-#12 GND IN 3/4" CONDUITS AS REQUIRED.
 - 4) COORDINATE WITH ARCHITECTURAL ELEVATION DRAWING A401, A402 AND A403 FOR ELEVATIONS OF WIRING DEVICES.
 - 5) POWER CORD REELS SHALL BE SIMILAR TO A 25 FEET REEL CEILING MOUNT POWER CORD SYSTEM OR APPROVED EQUAL.

FAB LAB NEW WORK PART PLAN
SCALE: 1/4" = 1'-0"



SECOND FLOOR DATA NEW WORK PART PLAN
SCALE: 1/4" = 1'-0"

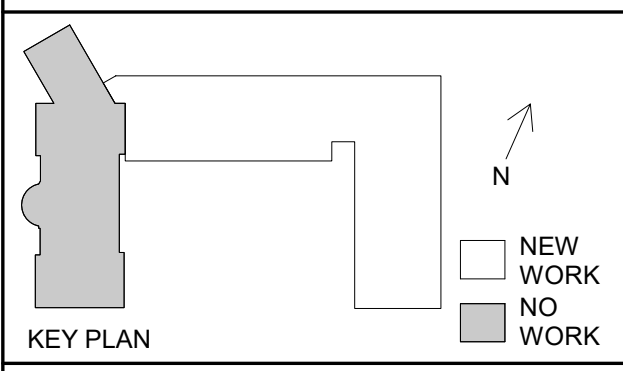
SECOND FLOOR PLAN ROOM WEST PART PLAN
SCALE: 1/4" = 1'-0"

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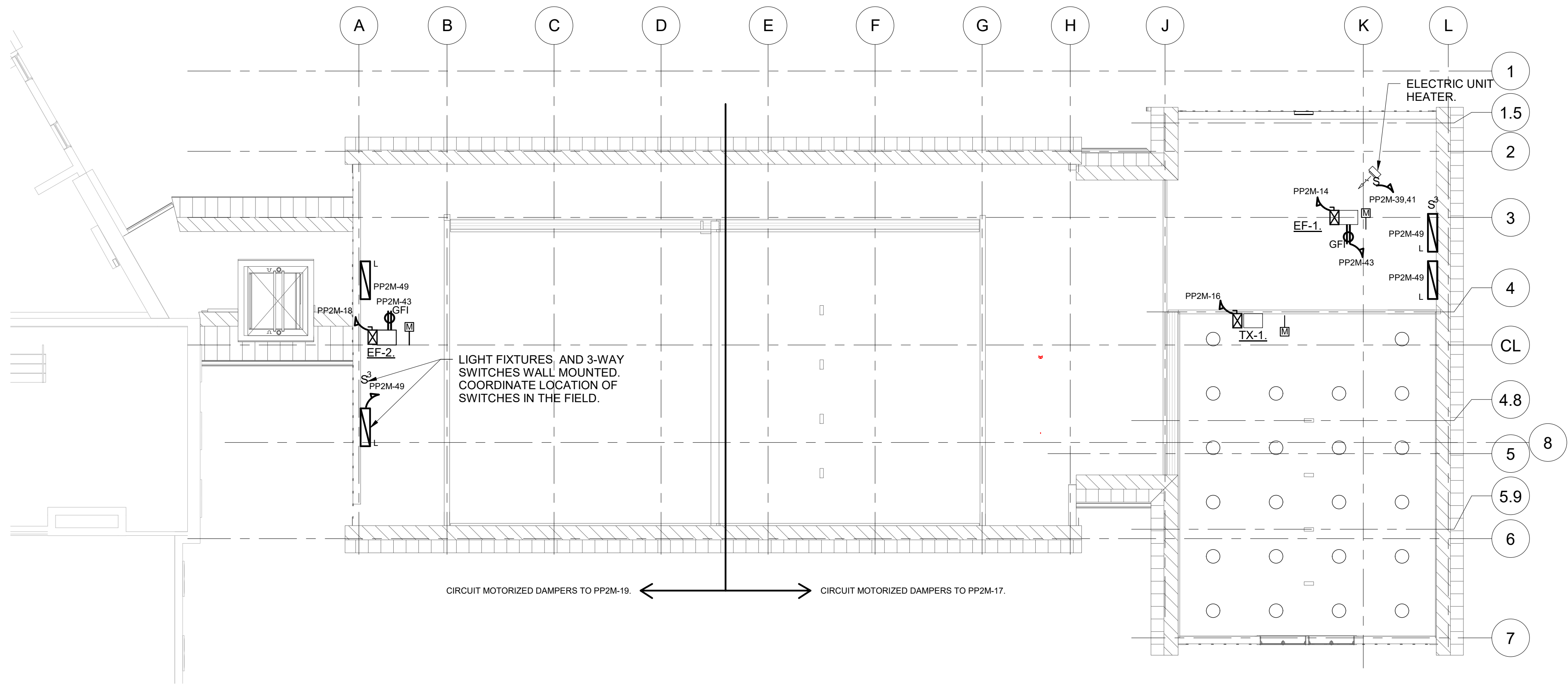
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1	12/18/2019	Schematic Design

ELECTRICAL 2ND FLOOR NEW WORK PLAN

Job No.	Date
NKGD0214.00	02/10/2020
Scale	Drawn / Checked
AS NOTED	NL / KS

Sheet Number
E302

ISSUED FOR CONSTRUCTION



1 ELECTRICAL ATTIC NEW WORK PLAN
SCALE: 1/8" = 1'-0"
NOTES:
1. CIRCUIT ALL MOTORIZED DAMPERS TO PP2M-48 AND PP2M-50.

KEY PLAN

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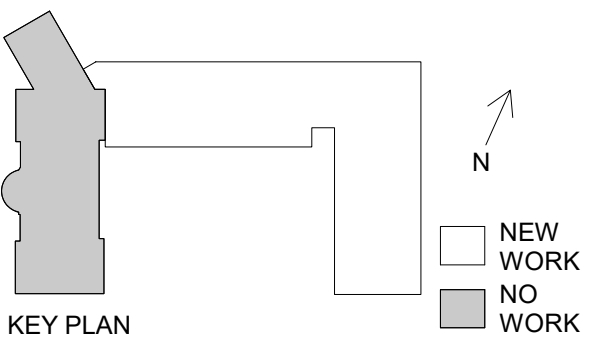
**ELECTRICAL
ATTIC NEW
WORK PLAN**

Job No. NKG00214.00	Date 02/10/2020
Scale AS NOTED	Drawn / Checked NL / KS

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E303

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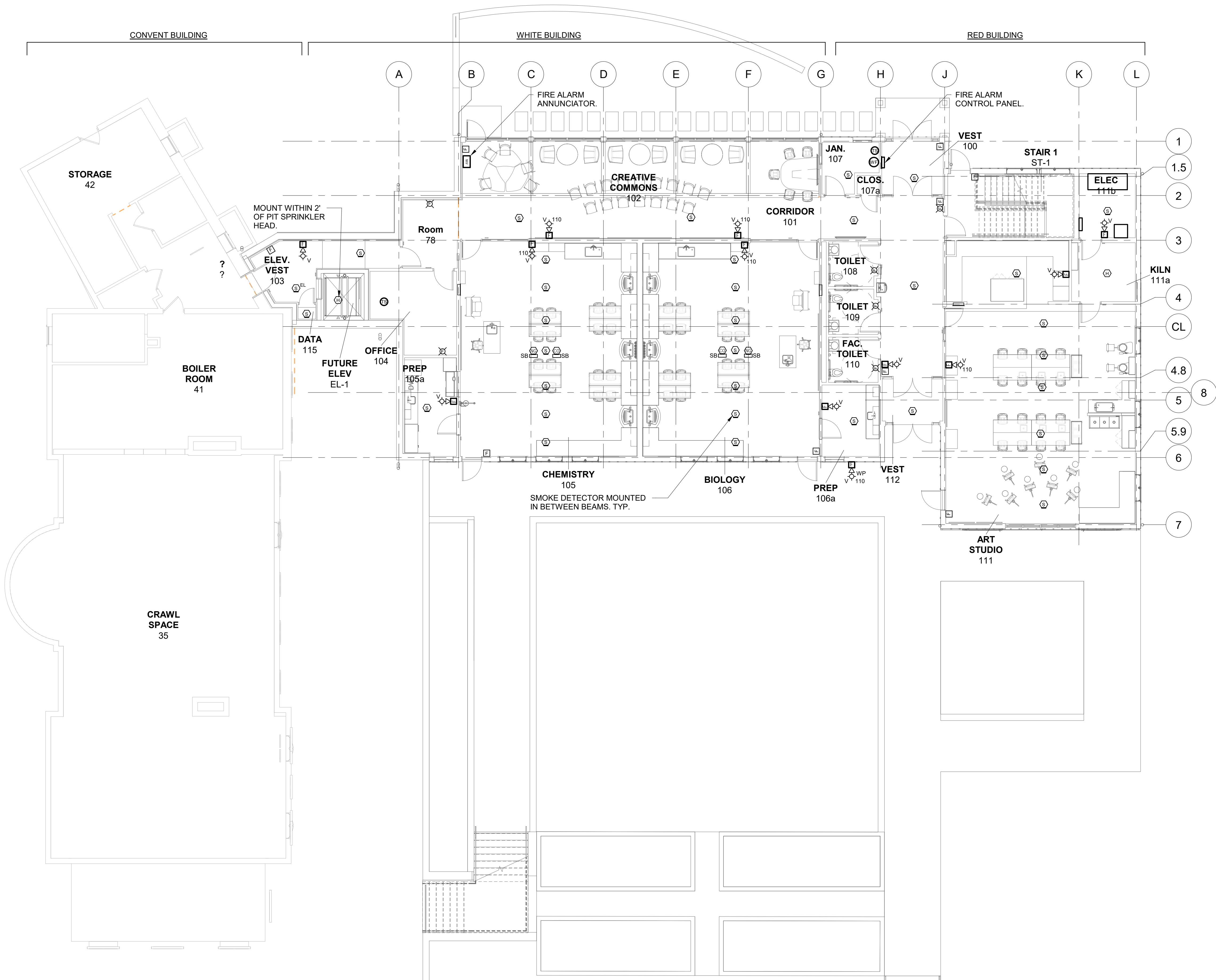
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**FIRE ALARM 1ST
FLOOR NEW
WORK PLAN**

Job No. NKG00214.00	Date 02/10/2020
Scale AS NOTED	Drawn / Checked NL / KS

Sheet Number

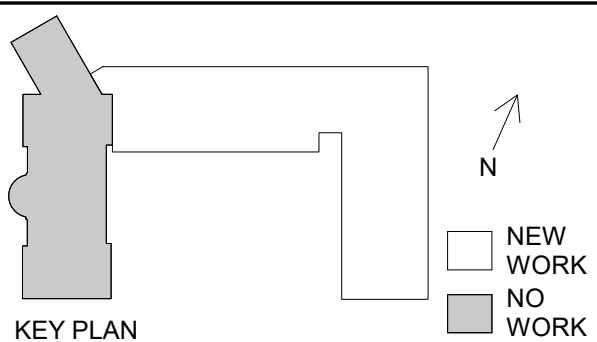
E401



1

FIRE ALARM 1ST FLOOR NEW WORK PLAN

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



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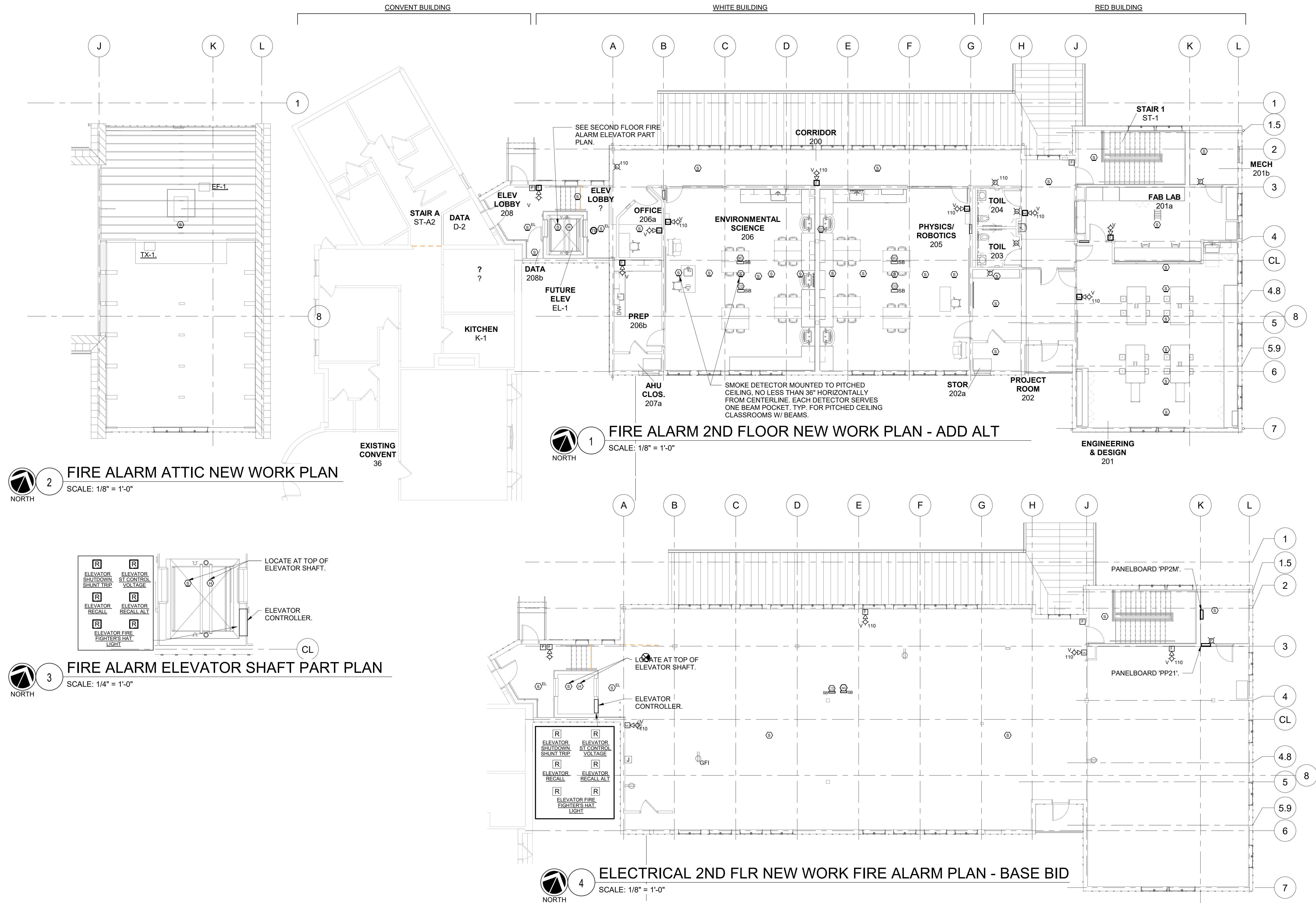
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**FIRE ALARM 2ND
FLOOR NEW
WORK PLAN**

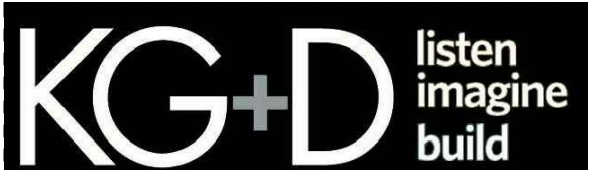
Job No.	NKGD0214.00	Date	02/10/2020
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Sheet Number	E402		



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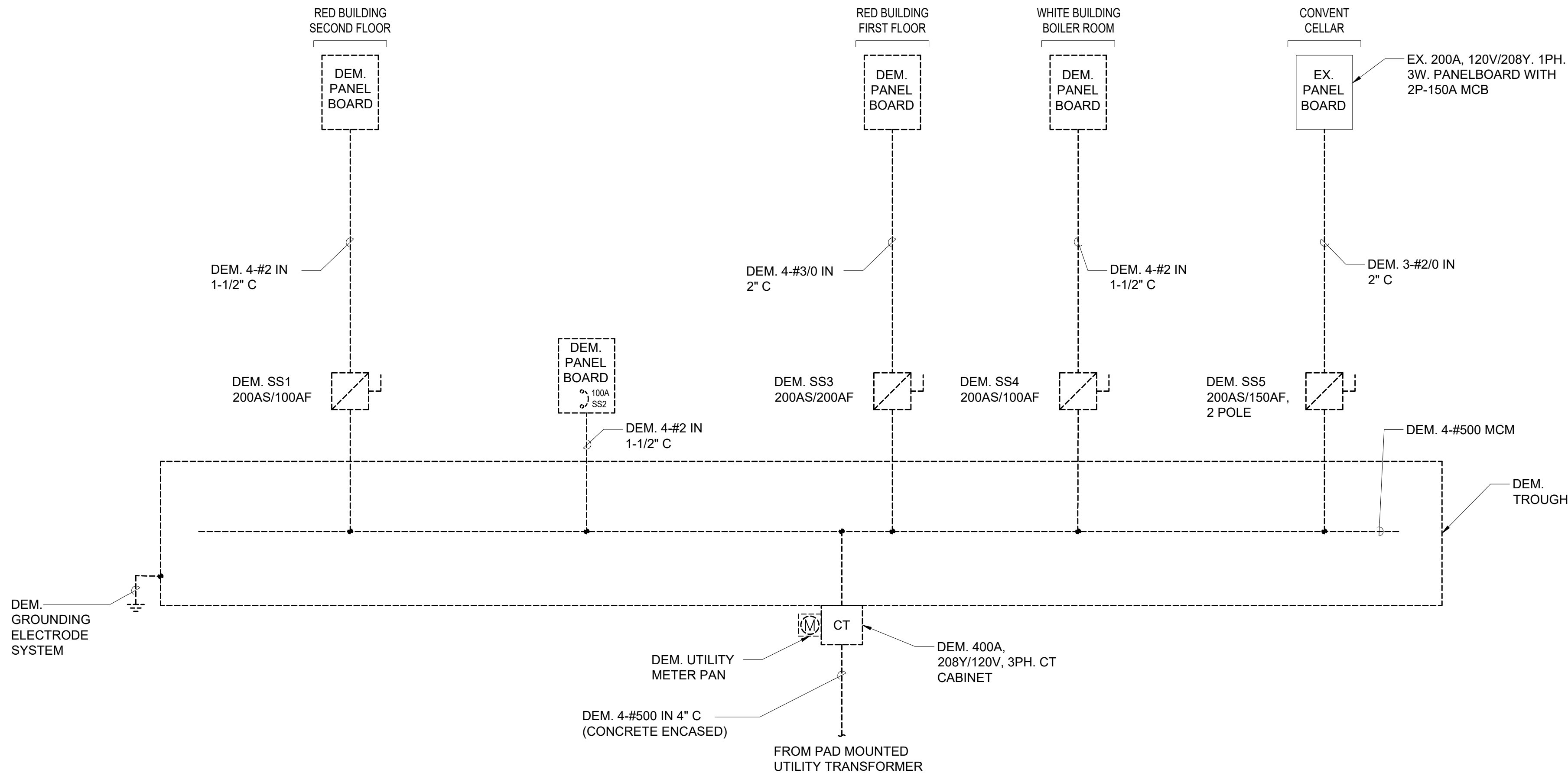
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1 ELECTRICAL ONE-LINE DIAGRAM - DEMO WORK
SCALE: NONE

NOTE:

- 1.) ALL SWITCHES AND CIRCUIT BREAKERS ARE 3 POLE, U.O.N.
2.) ALL EQUIPMENT IS LOCATED IN EXISTING BASEMENT ELECTRICAL ROOM
U.O.N.

KEY PLAN

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ELECTRICAL
ONE-LINE DIAGRAM
DEMO WORK

Job No. NKGD0214.00	Date 06/25/2021
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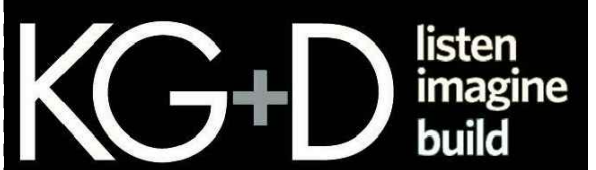
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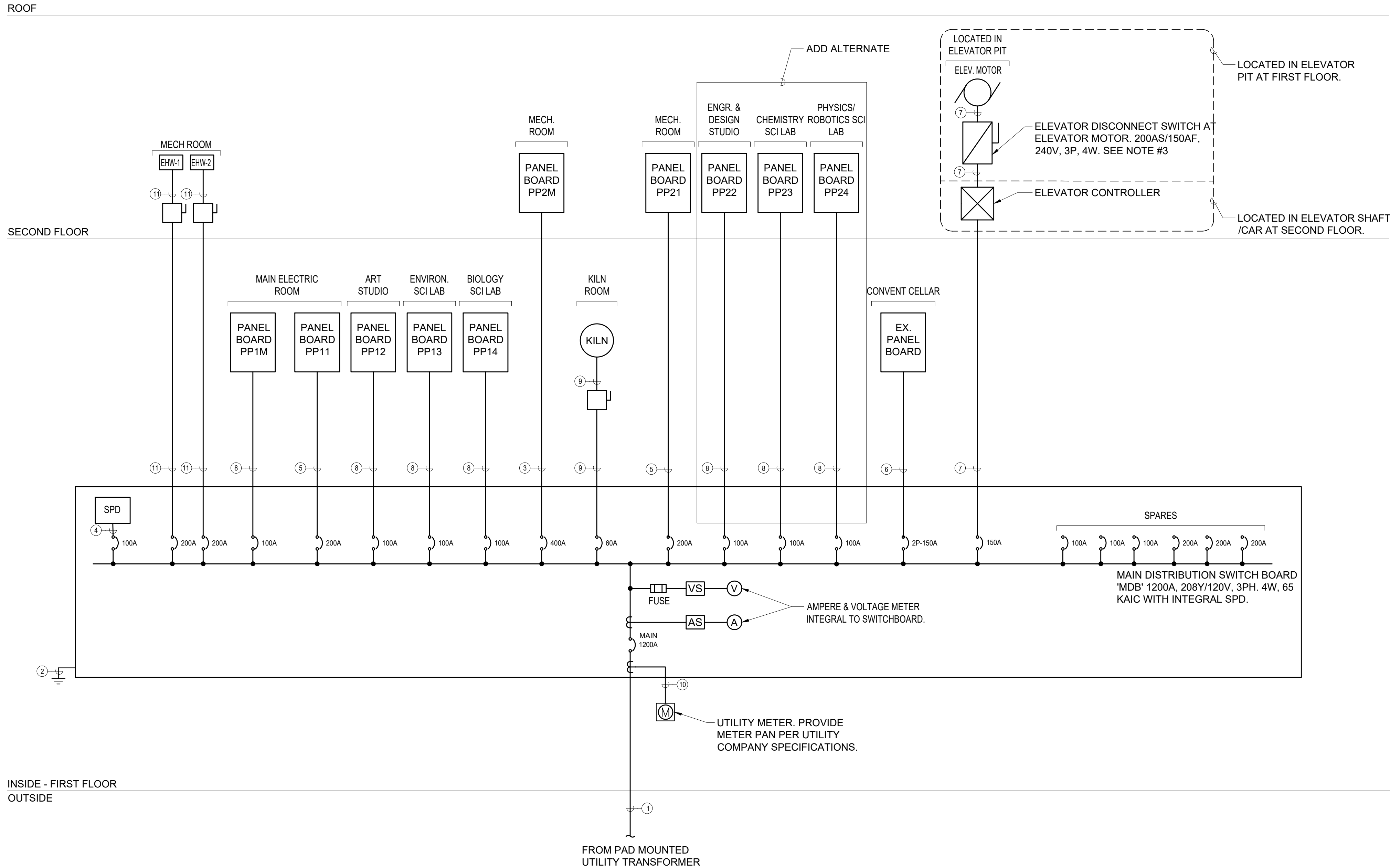
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ELECTRICAL
ONE-LINE DIAGRAM
NEW WORK

Job No. NKGD0214.00	Date 06/25/2021
Scale AS NOTED	Drawn / Checked NL/DS

Sheet Number

E502



1 ELECTRICAL ONE-LINE DIAGRAM - NEW WORK
SCALE: NONE

NOTES:

- 1.) ALL SWITCHES AND CIRCUIT BREAKERS ARE 3 POLE, U.O.N.
- 2.) ALL EQUIPMENT TO BE INSTALLED IN THE MAIN ELECTRICAL ROOM U.O.N.
- 3.) ELEVATOR DISCONNECT SWITCH TO HAVE THE CAPABILITY TO BE LOCKED IN THE OPEN POSITION. PROVIDE WITH AUXILIARY CONTACT FOR AUTOMATIC LOWERING DEVICE. MOUNT SWITCH ON STRIKE SIDE OF EMR DOOR, ADJACENT TO LIGHT SWITCH. PROVIDE WITH SHUNT TRIP CAPABILITY AND 2-NO & 2-NC AUXILIARY CONTACTS IN NEMA 1 ENCLOSURE FOR ELEVATOR MOTOR
- 4.) PANELBOARDS FED WITH 100A FEEDERS SHALL BE RATED 125A, 208Y/120V, 3Ø, 4W PANELBOARD.
- 5.) PANELBOARDS FED WITH 200A FEEDERS SHALL BE RATED 225A, 208Y/120V, 3Ø, 4W PANELBOARD.

WIRING/CONDUIT LEGEND:

- (4) SETS OF 4-#500 MCM IN (4) 4" C
- #3/0 SERVICE GROUND. REFER TO DETAIL #12 ON DWG. E701.
- 4-#500 MCM & 1-1/0 GND IN 3" C
- 5-#2 IN 1-1/2" C
- 4-#3/0 & 1-#6 GND IN 2" C
- 3-#1/0 & 1-#6 GND IN 1-1/2" C
- 3-#1 & 1-#1 GND IN 1-1/2" C
- 4-#2 & 1-#8 GND IN 1-1/4" C
- 3-#4 & 1-#10 GND IN 1-1/4" C
- WIRE AND CONDUIT AS REQUIRED.
- 3-#3/0 & 1-#6 GND IN 2" C

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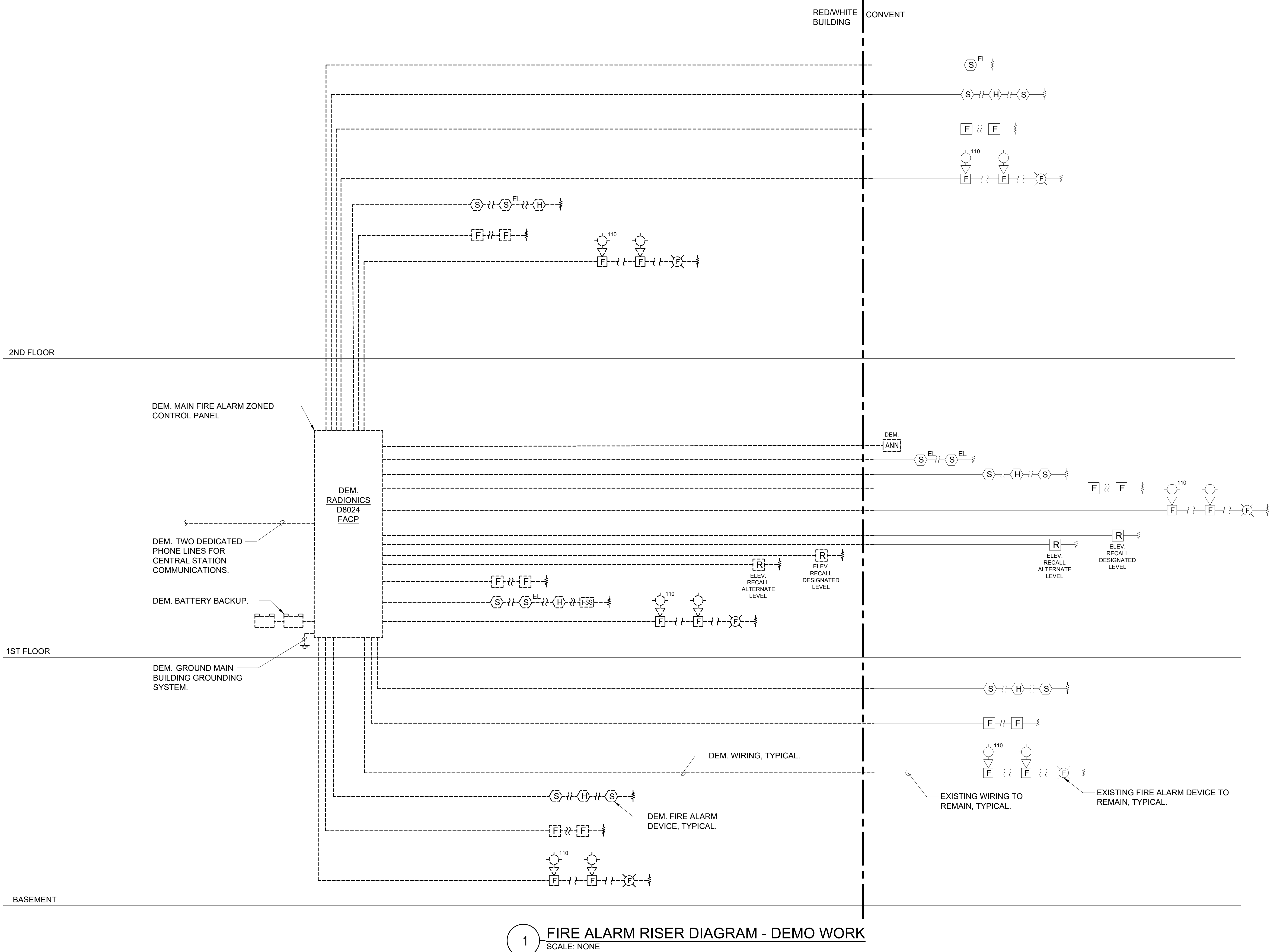
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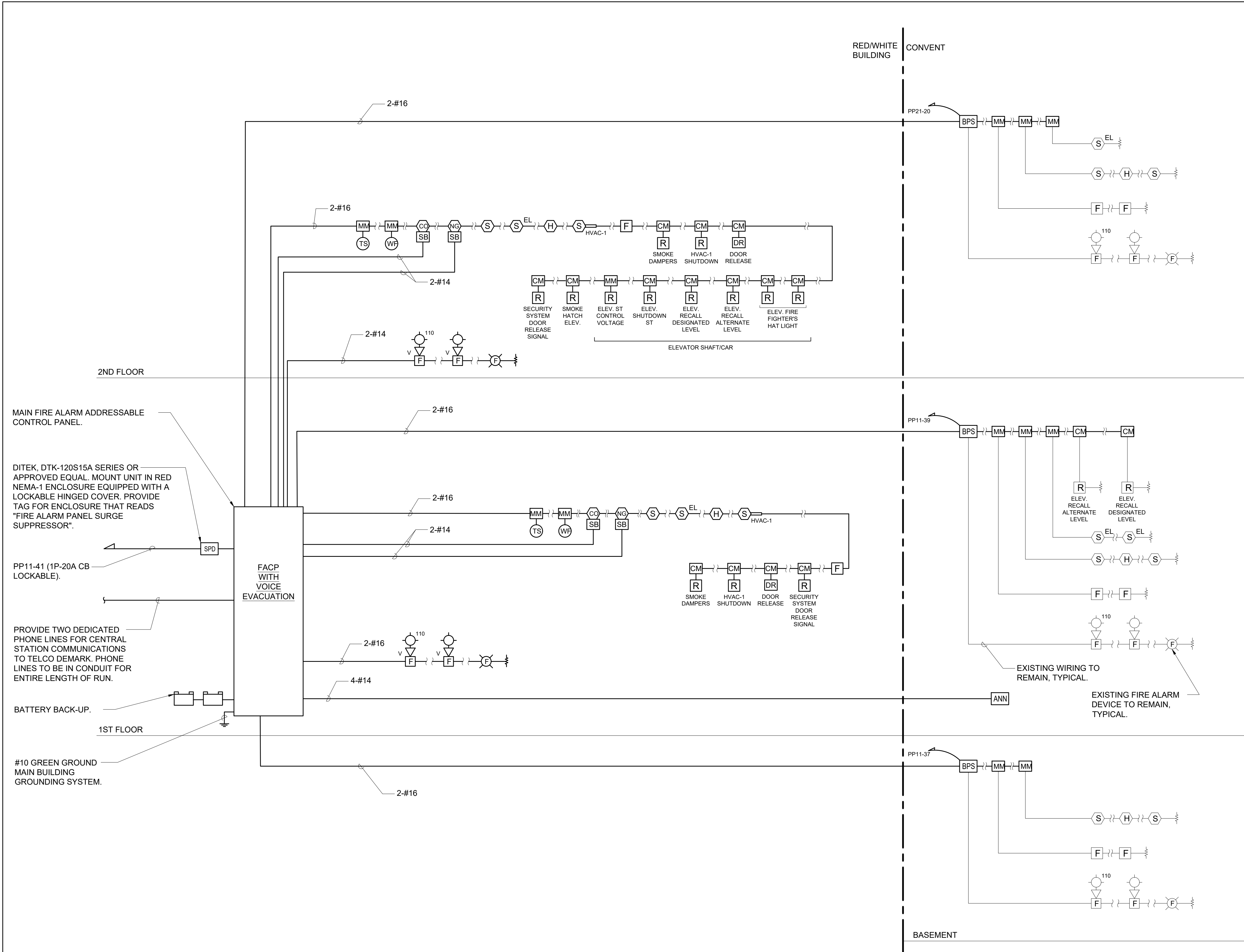
FIRE ALARM
RISER DIAGRAM
DEMO WORK

Job No. NKGD0214.00	Date 06/25/2021
Scale AS NOTED	Drawn / Checked NL/DS

Sheet Number

E503





1 FIRE ALARM RISER DIAGRAM - NEW WORK
SCALE: NONE

RISER NOTES:

- 1.) THIS IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANY WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM FIRE ALARM SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.
- 2.) ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.
- 3.) QUANTITY OF STROBE BOOSTER POWER SUPPLY PANELS AND ASSOCIATED 120V CIRCUITS SHALL BE COORDINATED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER AND/OR FIRE ALARM VENDOR.
- 4.) PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET, AND PROGRAMMING REQUIRED TO CONNECT EXISTING DEVICES TO NEW SYSTEM.
- 5.) PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING TO PROVIDE THE CLIENT WITH 20% SPARE CAPACITY ON ALL INITIATING AND INDICATING CIRCUITS.
- 6.) PROVIDE AS PART OF THE BASE CONTRACT ALL LABOR AND MATERIALS TO INSTALL FIFTEEN (15) ADDITIONAL FIRE ALARM DEVICES DURING CONSTRUCTION. THE FIFTEEN (15) FIRE ALARM DEVICES CAN BE BUT NOT LIMITED TO SMOKE DETECTOR, HEAT DETECTOR, DOOR HOLDER, DUCT DETECTOR, FAN SHUTDOWN, TAMPER SWITCHES, FLOW SWITCHES, ETC. INCLUDE ALL LABOR AND MATERIALS INCLUDING WIRE, BOXES, CONDUIT, TERMINATIONS, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING.
- 7.) HEAT DETECTORS IN ELEVATOR MACHINE ROOM AND/OR SHAFT SHALL HAVE A LOWER TEMPERATURE RATING THAN THE NEARBY SPRINKLER HEAD(S). HEAT DETECTORS SHALL BE INSTALLED 2'-0" MAXIMUM AWAY FROM EACH SPRINKLER HEAD IN THE ELEVATOR MACHINE ROOM AND EACH HEAD LOCATED GREATER THAN 2'-0" ABOVE THE FLOOR OF THE ELEVATOR SHAFT. UPON ACTIVATION OF A HEAT DETECTOR USED FOR ELEVATOR POWER SHUTDOWN, THERE SHALL BE A DELAY IN THE ACTIVATION OF THE POWER SHUNT TRIP. THIS DELAY SHALL BE THE TIME THAT IT TAKES THE ELEVATOR CAB TO TRAVEL FROM THE TOP OF THE HOISTWAY TO THE LOWEST RECALL LEVEL. COORDINATE WITH ELEVATOR CONTRACTOR.
- 8.) DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT WORK BY MECHANICAL CONTRACTOR.
- 9.) CARBON MONOXIDE DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM AND SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL BE MOUNTED ON SOUNDER BASES WHICH PROVIDE LOCAL ALARM ONLY IN A TEMPORAL 4 PATTERN OR CONSTANT TONE.
- 10.) NATURAL GAS DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM BUT SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL CONTAIN INTERNAL HORNS TO PROVIDE LOCAL ALARM ONLY.
- 11.) ALL VISUAL ALARM DEVICES SHALL BE ADA COMPLIANT.
- 12.) ELECTRICAL CONTRACTOR TO PROVIDE A RELAY FOR EACH SMOKE DAMPER/COMBINATION FIRE SMOKE DAMPER. RELAYS ARE NOT SHOWN ON PLANS FOR CLARITY.
- 13.) PROVIDE REMOTE LED INDICATORS FOR ALL CONCEALED FIRE ALARM DEVICES SUCH AS DUCT SMOKE DETECTORS, ABOVE CEILING SMOKE DETECTORS, ELEVATOR SHAFT DETECTORS, MONITORING AND CONTROL MODULES, ETC. LED INDICATORS FOR DEVICES MOUNTED ABOVE DROP CEILINGS SHALL BE MOUNTED BELOW ASSOCIATED DEVICES. LABEL INDICATORS TO INDICATE DEVICE SERVED.
- 14.) CONTRACTOR TO PROVIDE SMOKE DETECTOR(S) IN ALL LOCATIONS CONTAINING FIRE ALARM CONTROL PANELS, DATA GATHERING PANELS, BOOSTER POWER SUPPLIES, OR ANY OTHER FIRE ALARM SYSTEM PANEL, WHETHER SHOWN ON PLANS OR NOT.
- 15.) CONTROL MODULES USED TO INITIATE EMERGENCY CONTROL FUNCTIONS THAT DO NOT FAIL IN A SAFE POSITION SHALL BE LOCATED WITHIN 3 FEET OF THE COMPONENT CONTROLLING THE EMERGENCY CONTROL FUNCTION PER NFPA 72. THIS INCLUDES, BUT IS NOT LIMITED TO, CONTROL MODULES CONNECTED TO FAN MOTOR CONTROLLERS, ELEVATOR CONTROLLERS, ETC.
- 16.) BATTERY BACKUP FOR FACP SHALL PROVIDE A MINIMUM OF 24 HOURS OF STAND BY POWER FOLLOWED BY 45 MINUTES OF ALARM.
- 17.) ALL FIRE ALARM PANELS, JUNCTION BOX COVERS, ETC SHALL BE PAINTED "FIRE DEPARTMENT RED".

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KEY PLAN

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No. Date Issue

FIRE ALARM
RISER DIAGRAM
NEW WORK

Job No. NKGD0214.00	Date 06/25/2021
Scale AS NOTED	Drawn / Checked NL/DS

Sheet Number

E504

LIGHTING FIXTURE SCHEDULE						
FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	MOUNTING	REMARKS
INTERIOR						
A	LEDALITE	12-0-1-L-C-C-Q-E -16-N-D-E	45.6W/4FT LED 80 CRI/3000K 4900 LM/4FT	UNV	SUSPENDED	'JUMP'. LINEAR LED. TO BE SUSPENDED ALONG BOTTOM CHORD OF TRUSSES WITH AIRCRAFT CABLE. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM". COORDINATE FINISH, MOUNT TYPE AND SUSPENSION HEIGHT WITH ARCHITECT.
A1		12-0-1-L-C-C-Q-E -20-N-D-E				
B	DELRAY	IL7801-1050-W30-1 -D-W11-EM	13W/56W LED UP/DOWN 3000K 2275/5400 LM	120	SUSPENDED	'INDUSTRIAL'. LOW BAY LED WITH UP AND DOWN LIGHTING, HOUSED IN DIE-CAST ALUMINUM. STANDARD 6FT POWER CORD. OR SPECIFY FOR ADDITIONAL LENGTH. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
C	PHILIPS	C6-R-EM/C6-L-25-8-30-M- Z10/C6-R-DL-CC	21.3W LED 3500K 2454 LM	UNV	RECESSED	'LIGHTOILER'. 2'X2' RECESSED PLENUM LUMINAIRE. FRAME: 6R-N-EM; TRIM: C6-R-DL-CC. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
D	DELRAY	KLS33-3-W30-D- EM-120	33W LED 92 CRI 3000 LM	120	SURFACE	'KONE3 KLS33'. SEMI-RECESSED DOWNLIGHT. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
E	3G LIGHTING	3G-DL33RF70-15-S80- 30K-60D-UNV- DIM-WT-NCF-SF70	14W LED 80 CRI 1484LM	120	RECESSED	PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
F/F1	PHILIPS	2-ST-G-30L-830- 2-DS-UNV-DIM-EMLED	26.3W LED 80 CRI/3000K 3000 LM	UNV	RECESSED	'DAY-BRITE CFI'. 2'X2' RECESSED PLENUM LUMINAIRE. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
G	FOCAL POINT	FSM2L-FL-125LF- 30K-1C-UNV-LD1- CXF2-EM-WH	5W/4FT LED 80 CRI/3000K 125 LM/1FT	UNV	RECESSED	'SEEM 2'. RECESSED, WALL TO CEILING CORNER, LED LUMINAIRE. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
H	WAC	WS-77624-30-AL	20W LED 3000K 1440 LM	UNV	WALL	'BRINK'. BATHROOM SCONCE. HOUSED IN ALUMINUM WITH BRUSHED FINISH. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
J	HUBBARDTON FORGE	302711-1000	50W INCANDESCANT PAR20 BULB	120	WALL	'HENRY DARK SKY FRIENDLY OUTDOOR SCONCE'. OUTDOOR GOOSENECK SCONCE. UL OUTDOOR RATED. INCANDESCENT LAMPING MAX 50W. BULB NOT INCLUDED. PROVIDE WITH REMOTE MINI-INVERTER BATTERY WHERE DESIGNATED BY "EM".
K	HUBBARDTON FORGE	363010-1010	100W INCANDESCANT A19 BULB	120	PENDANT	'HENRY OUTDOOR PENDANT'. OUTDOOR PENDANT FIXTURE. UL OUTDOOR RATED. INCANDESCENT LAMPING 100W MAX. BULB NOT INCLUDED. PROVIDE WITH REMOTE MINI-INVERTER BATTERY WHERE DESIGNATED BY "EM".
L	PHILIPS	LBX-40L-835-UNV- FD-EMLED	31W LED 80 CRI/3000K 4000 LM/4FT	UNV	SURFACE	'LINEAR LBX'. LINEAR SURFACE MOUNT LED. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
M	OXYGEN	32-601-24-EM	21.2W LED 90 CRI/3000K 1110 LM	UNV	SURFACE	'PEEPERS'. SCONCE LED MOUNTED WITHIN STAIRWELL. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
	LITHONIA LIGHTING	EDGR-1-R-EL	3.8W LED	UNV	SURFACE	LED EXIT SIGN WITH 90 MINUTES OF BATTERY BACKUP TIME. 8" RED LETTERS ON CLEAR BACKGROUND.
EXTERIOR						
A	SPECTRUM LIGHTING INC.	WS1611GV -27L35K-EX	18W LED 3500K 2700 LM	UNV	SURFACE	'WAREHOUSE'. EXTERIOR RATED LED MOUNTED OUTSIDE BUILDING.
B	SPRING CITY	ALMYRK-M2-LE040/ EVX/X2-30-CR3 -YSDP-FBR-CU	40W LED 3000K	120-277	POLE	'YORKTOWN'. POLE MOUNTED LED LUMINAIRE ON SITE.

NOTES:

- 1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
2.) ALL BALLASTS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION OF FIXTURES.
3.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.
4.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BATTERY BACKUP BALLAST. WHERE POSSIBLE THE BALLAST SHALL BE INTERNAL TO THE FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY BALLAST IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BALLAST. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE BATTERY PACK AND FLORESCENT LAMPS SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE). MINIMUM.
5.) IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT-TO-POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS.

LIGHTING SYSTEM FUNCTIONAL TESTING/COMMISSIONING

I. FUNCTIONAL TESTING

PRIOR TO PASSING FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE EVIDENCE TO THE BUILDING OWNER AND THE ENGINEER THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S DOCUMENTS. FUNCTIONAL TESTING, FOR THE APPLICABLE CONTROL TYPE, SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

1. OCCUPANT SENSOR CONTROLS

WHERE OCCUPANT SENSOR CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

- A. CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
B. FOR PROJECTS WITH SEVEN OR FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.
C. FOR PROJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10 PERCENT, BUT IN NO CASE LESS THAN ONE, OF EACH COMBINATION SHALL BE TESTED UNLESS THE BUILDING OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.

FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:

- i. WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT OPERATION.
ii. THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
iii. FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
iv. FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
v. THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.

2. TIME-SWITCH CONTROLS

WHERE TIME-SWITCH CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

- A. CONFIRM THAT THE TIME-SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES.
B. PROVIDE DOCUMENTATION TO THE OWNER OF TIME-SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SET-UP AND PREFERENCE PROGRAM SETTINGS.
C. VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.
D. VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.
E. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
F. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
i. ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
ii. THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
G. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
i. NONEXEMPT LIGHTING TURNS OFF.
ii. MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUTOFF OCCURS.

3. DAYLIGHT RESPONSIVE CONTROLS

WHERE DAYLIGHT RESPONSIVE CONTROLS ARE PROVIDED, THE FOLLOWING SHALL BE VERIFIED:

- A. CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED AND SET FOR ACCURATE SET POINTS AND THRESHOLD LIGHT LEVELS.
B. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
C. THE CALIBRATION ADJUSTMENT EQUIPMENT IS LOCATED FOR READLY ACCESS ONLY BY AUTHORIZED PERSONNEL.

II. DOCUMENTATION REQUIREMENTS

THE DOCUMENTS DESCRIBED IN THIS SECTION SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 60 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

- A. DRAWINGS:
i. AS-BUILT CONSTRUCTION DOCUMENTS, SHOWING THE LOCATION AND CATALOG NUMBER OF EACH PIECE OF EQUIPMENT.
B. MANUALS: AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:
i. NAME AND ADDRESS OF NOT LESS THAN ONE SERVICE AGENCY FOR INSTALLED EQUIPMENT.
ii. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SET POINTS.
iii. SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS.
iv. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED RELAMPING SHALL BE CLEARLY IDENTIFIED.
v. A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.
C. REPORT: A REPORT OF TEST RESULTS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING.
i. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
ii. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.

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6	06/25/2021	Issued for Permit
5	02/24/2021	Issued for Bid
4	02/10/2021	Issued for Review
3	5/14/2020	90% Construction Documents
2	2/21/2020	Design Development
1	12/18/2019	Schematic Design
No.	Date	Issue

Sheet Title

ELECTRICAL SCHEDULES

Job No. NKGD0214.00	Date 06/25/2021
Scale AS NOTED	Drawn / Checked NL / KS

Sheet Number

E601

PP12 PANEL SCHEDULE							
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - ART RM/KILN	20	1	1	20	REC - KILN	2
3	REC - ART STOR	20	1	1	20	REC - KILN	4
5	REC - ART STOR	20	1	1	20	REC - ART STUDIO	6
7	REC - FLOOR	20	1	1	20	REC - ART STUDIO	8
9	REC - FLOOR	20	1	1	20	REC - ART STUDIO	10
11	SPARE	20	1	1	20	REC - ART STUDIO	12
13	SPARE	20	1	1	20	SPARE	14
15	SPARE	20	1	1	20	SPARE	16
17	SPARE	20	1	1	20	SPARE	18
19	SPARE	20	1	1	20	SPARE	20
21	SPARE	20	1	1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.							
NOTES:							

PP13 PANEL SCHEDULE							
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - BIO ROOM	20	1	1	20	REC - BIOLOGY	2
3	REC - PREP	20	1	1	20	REC - BIOLOGY	4
5	REC - PREP	20	1	1	20	REC - BIOLOGY	6
7	REC - DEMONSTRATION TABLE - BIOLOGY	20	1	1	20	REC - BIOLOGY	8
9	SPARE	20	1	1	20	REC - PREP REF	10
11	SPARE	20	1	1	20GF	REC - PREP DISHWASHER	12
13	SPARE	20	1	1	20	SPARE	14
15	SPARE	20	1	1	20	SPARE	16
17	SPARE	20	1	1	20	SPARE	18
19	SPARE	20	1	1	20	SPARE	20
21	SPARE	20	1	1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.							
NOTES:							

PP14 PANEL SCHEDULE							
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - CHEM RM	20	1	1	20	REC - CHEM RM	2
3	REC - CHEM RM	20	1	1	20	REC - CHEM RM	4
5	REC - CHEM RM	20	1	1	20	REC - CHEM RM	6
7	REC - CHEM RM	20	1	1	20	REC - CHEM RM	8
9	REC - CHEM RM	20	1	1	20	REC - PREP REF	10
11	REC - PREP	20	1	1	20GF	PREP DISHWASHER	12
13	REC - PREP	20	1	1	20	REC - CHEM RM - ICEMAKER	14
15	REC - PREP ICE	20	1	1	20	REC - DEMONSTRATION TABLE - CHEM	16
17	CHEM RM - FUME HOOD	20	1	1	20	SPARE	18
19	SPARE	20	1	1	20	SPARE	20
21	SPARE	20	1	1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.							
NOTES:							

PP11 PANEL SCHEDULE							
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 42KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	REC - ELEC RM	20	1	1	20	LTG - STAIR	2
3	LTG - CORR/VEST/JANELEC	20	1	1	20	LTG - STAIR	4
5	LTG - TOILETS	20	1	1	20	LTG - CORR/FACULTY	6
7	LTG - EXTERIOR	20	1	1	20	SPARE	8
9	REC - CORR	20	1	1	20	SPARE	10
11	REC - TOILET	20	1	1	20	SPARE	12
13	REC - CORR	20	1	1	20	SPARE	14
15	REC - CORR TV	20	1	1	20	REC - CREATIVE COMMONS	16
17	WATER FOUNTAIN - CORR	20	1	1	20	REC - CREATIVE COMMONS	18
19	CARD READER/ELEC STRIKE	20	1	1	20	REC - JAN	20
21	CARD READER/ELEC STRIKE	20	1	1	20	SITE LIGHTING	22
23	CARD READER/ELEC STRIKE	20	1	1	20	SITE LIGHTING	24
25	CARD READER/ELEC STRIKE	20	1	1	20	SITE LIGHTING	26
27	REC - DATA RM	20	1	1	20	SITE LIGHTING	28
29	CONTROL PANEL	20	1	1	20	ELEV - LTG AND REC	30
31	CONTROL PANEL	20	1	1	20	ELEV - CAB LTG	32
33	CONTROL PANEL	20	1	1	20	ELEV - SUMP PUMP	34
35	CONTROL PANEL	20	1	1	20	HAND DRYER	36
37	BPS	20	1	1	20	HAND DRYER	38
39	BPS	20	1	1	20	HAND DRYER	40
41	SPD	20	1	1	20	SPARE	42
43	LTG - EXTERIOR			1	20	SPARE	44
45	INTERCOM	20	1	1	20	SPARE	46
47	INTERCOM	20	1	1	20	SPARE	48
49	REC - DATA RM	20	1	1	20	SPARE	50
51	SPARE	20	1	1	20	SPARE	52
53	SPARE	20	1	1	20	SPARE	54
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.							
NOTES:							

PP1M PANEL SCHEDULE							
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 42KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1							2
3	AHU-2 - 1ST FLR PREP	30	3	3	30	AHU-1 - 1FT FLR PREP	4
5							6
7				1	20	OUTDOOR RECEPT.	8
9	AHU-3 - 1ST FLR JAN	30	3	1	20	SPARE	10
11				2	15	ACC-1/AC-1	12
13	EH-1	15	1				14
15	EH-1	15	1	1	20	GFI/WP REC.	16
17				1	20	SPARE	18
19	AHU-4 - 1ST FLR KILN	40	3	1	20	SPARE	20
21				1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.							
NOTES:							

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4	02/10/2021	Issued for Review
3	5/14/2020	90% Construction Documents
2	2/21/2020	Design Development
1	12/18/2019	Schematic Design
No.	Date	Issue

Sheet Title

ELECTRICAL SCHEDULES

Job No. NKGD0214.00	Date 06/25/2021
Scale AS NOTED	Drawn / Checked NL / KS
Sheet Number E602	

PP2M PANEL SCHEDULE									
MAIN RATING: 400A		MAIN C.B.: MLO		KAIC RATING: 22KAIC					
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	SPARE	20	1	3	25	AHU-7 - 2ND FLR STOR	2		
3	AHU-6 - 2ND FLR STOR	25	3				1	20	4
5									6
7									8
9	SPARE	20	1	1	20	SPARE			10
11	AHU-12 - 2ND FLR MECH	25	3	1	20	SPARE	12		
13				1	15	EF-1 - ATTIC	14		
15				1	15	TX-1 - ATTIC	16		
17	MOTORIZED DAMPERS	20	1	1	15	EF-2 - ATTIC	18		
19	MOTORIZED DAMPERS	20	1	1	20	SPARE	20		
21	HWCP-1	25	1	1	20	SPARE	22		
23	AHU-9 - 2ND FLR FAB LAB	30	3	1	20	SPARE	24		
25				1	20	SPARE	26		
27				1	20	SPARE	28		
29	SPARE	20	1	1	20	SPARE	30		
31	SPARE	20	1				32		
33	GWP-1&2	30	3	1	20	REC - MECH RM	34		
35				3	30	DPT-1 & 2	36		
37							38		
39	ELECTRIC HEATER - ATTIC	20	2	1	20	BMS	40		
41				42					
43	REC - ATTIC	20	1	1	20	SPARE	44		
45	ACC-1/AC-1	15	2	1	20	SPARE	46		
47				1	20	SPARE	48		
49	GFI/WP REC. ON ROOF.	20	1	1	20	SPARE	50		
51	SPARE	20	1	1	20	SPARE	52		
54	SPARE	20	1	1	20	SPARE	54		
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.									
NOTES:									

PP24 PANEL SCHEDULE - ADD ALT							
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - ENVI SCI	20	1	1	20	REC - ENVI SCIENCE	2
3	REC - PREP DISHWASHER	20GF	1	1	20	REC - ENVI SCIENCE	4
5	REC - PREP REF	20	1	1	20	REC - ENVI SCIENCE	6
7	REC - PREP RM	20	1	1	20	REC - ENVI SCIENCE	8
9	REC - PREP RM	20	1	1	20	REC - ENVI SCIENCE	10
11	REC - DEMONSTRATION TABLE - ENV SC	20	1	1	20	SPARE	12
13	SPARE	20	1	1	20	SPARE	14
15	SPARE	20	1	1	20	SPARE	16
17	SPARE	20	1	1	20	SPARE	18
19	SPARE	20	1	1	20	SPARE	20
21	SPARE	20	1	1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.							
NOTES:							

PP21 PANEL SCHEDULE - BASE BID							
MAIN RATING: <u>100A</u>		MAIN C.B.: <u>100A</u>		KAIC RATING: <u>22KAIC</u>			
VOLTAGE: <u>208Y/120V</u>		PHASE: <u>3</u>		WIRE: <u>4</u>		MOUNTING: <u>RECESSED</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LIGHTING - OPEN SPACE	20	1	1	20	LIGHTING - MECH RM.	2
3	RECEPTACLES	20	1				4
5	SPARE	20	1	1	20	SPARE	6
7	SPARE	20	1	1	20	SPARE	8
9	SPARE	20	1	1	20	SPARE	10
11	SPARE	20	1	1	20	SPARE	12
13	SPARE	20	1	1	20	SPARE	14
15	SPARE	20	1	1	20	SPARE	16
17	SPARE	20	1	1	20	SPARE	18
19	SPARE	20	1	1	20	SPARE	20
21	SPARE	20	1	1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.							
NOTES:							

PP23 PANEL SCHEDULE - ADD ALT									
MAIN RATING: 100A			MAIN C.B.: 100A			KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V			PHASE: 3		WIRE: 4		MOUNTING: RECESSED		
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	LTG - PHYSICS/ROBOTICS	20	1	1	20	REC - PHYSICS	2		
3	REC - CLG REEL	20	1	1	20	REC - PHYSICS	4		
5	REC - CLG REEL	20	1	1	20	REC - PHYSICS	6		
7	REC - DEMONSTRATION TABLE - CHEM	20	1	1	20	REC - PHYSICS	8		
9	REC - PHYSICS - UC FRIDGE	20	1	1	20	SPARE	10		
11	REC - CLG REEL	20	1	1	20	SPARE	12		
13	REC - CLG REEL	20	1	1	20	SPARE	14		
15	SPARE	20	1	1	20	SPARE	16		
17	SPARE	20	1	1	20	SPARE	18		
19	SPARE	20	1	1	20	SPARE	20		
21	SPARE	20	1	1	20	SPARE	22		
23	SPARE	20	1	1	20	SPARE	24		
25	SPARE	20	1	1	20	SPARE	26		
27	SPARE	20	1	1	20	SPARE	28		
29	SPARE	20	1	1	20	SPARE	30		
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.									
NOTES:									

PP21 PANEL SCHEDULE - ADD ALT							
MAIN RATING: <u>100A</u>		MAIN C.B.: <u>100A</u>		KAIC RATING: <u>22KAIC</u>			
VOLTAGE: <u>208Y/120V</u>		PHASE: <u>3</u>		WIRE: <u>4</u>		MOUNTING: <u>RECESSED</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - PROJ RM/STOR/TOILET	20	1	1	20	REC - KILN	2
3	LTG - CORR/MECH	20	1	1	20	REC - KILN	4
5	REC - PROJECT ROOM	20	1	1	20	REC - TOILETS	6
7	PREP - DISHWASHER	20GF	1	1	20	REC - PHOTO/VIDEO	8
9	REC - PREP	20	1	1	20	REC - CORR	10
11	REC - STOR	20	1	1	20	LTG - CORR	12
13	WATER FOUNTAIN - CORR	20	1	1	20	REC - DATA RM	14
15	CARD READER/ELEC STRIKE	20	1	1	20	HAND DRYER	16
17	CARD READER/ELEC STRIKE	20	1	1	20	HAND DRYER	18
19	CARD READER/ELEC STRIKE	20	1	1	20	BPS	20
21	CARD READER/ELEC STRIKE	20	1	1	20	EXTERIOR LTG	22
23	CONTROL PANEL	20	1	1	20	REC - DATA RM	24
25	CONTROL PANEL	20	1	1	20	ELEV. SHAFT LIGHT/GFI REC.	26
27	CONTROL PANEL	20	1	1	20	REC - PREP -ICE MAKER	28
29	CONTROL PANEL	20	1	1	20	SPARE	30
31	REC - PREP - REF	20	1	1	20	SPARE	32
33	REC - PREP	20	1	1	20	SPARE	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.							
NOTES:							

PP22 PANEL SCHEDULE - ADD ALT							
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - ENGR	20	1	1	20	REC - CLG REEL	2
3	REC - FLR QUAD	20	1	1	20	REC - CLG REEL	4
5	REC - FLR QUAD	20	1	1	20	REC - CLG REEL	6
7	REC - ENGR RM WALL	20	1	1	20	REC - CLG REEL	8
9	REC - ENGR RM WALL	20	1	1	20	REC - FAB LAB	10
11	REC - ENGR RM WALL	20	1	1	20	REC - FAB LAB	12
13	SPARE	20	1	1	20	REC - FAB LAB	14
15	SPARE	20	1	1	20	REC - FAB LAB	16
17	SPARE	20	1	1	20	REC - FAB LAB	18
19	SPARE	20	1	1	20	REC - FAB LAB	20
21	SPARE	20	1	1	20	REC - FAB LAB	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.							
NOTES:							

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3	5/14/2020	90% Construction Documents
2	2/21/2020	Design Development
1	12/18/2019	Schematic Design

No.	Date	Issue
Sheet Title		
ELECTRICAL SCHEDULES		

Job No.	Date
NKGD0214.00	06/25/2021
Scale	Drawn / Checked
AS NOTED	NL / KS
Sheet Number	
E603	

E701

15 KV CABLE TESTING:

1.

REFERENCES: ANSI/IEEE C2 - NATIONAL ELECTRICAL SAFETY CODE, ANSI/NFPA 70 - NATIONAL ELECTRICAL CODE, IEEE 48 - TEST PROCEDURES AND REQUIREMENTS FOR HIGH-VOLTAGE ALTERNATING-CURRENT CABLE TERMINATIONS.
2.

SUBMITTALS: PROVIDE FOR CABLE, TERMINATIONS, ACCESSORIES & TEST REPORTS. MANUFACTURER'S INSTRUCTIONS: INDICATE APPLICATION CONDITIONS AND LIMITATIONS OF USE STIPULATED BY PRODUCT TESTING AGENCY SPECIFIED UNDER REGULATORY REQUIREMENTS.
3.

PROJECT RECORD DOCUMENTS: ACCURATELY RECORD ACTUAL SIZES AND LOCATIONS OF CABLES.
4.

OPERATION AND MAINTENANCE DATA: INCLUDE INSTRUCTIONS FOR TESTING AND CLEANING CABLE AND ACCESSORIES.
5.

QUALIFICATIONS: MANUFACTURER, COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE. INSTALLER, COMPANY SPECIALIZING IN INSTALLING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.
6.

MANUFACTURERS: 1) OKONITE COMPANY, 2) KING WIRE INC. 3) KERITE.
7.

FIELD QUALITY CONTROL: INSPECT EXPOSED CABLE SECTIONS FOR PHYSICAL DAMAGE, PROPER CONNECTIONS AS SHOWN ON DRAWINGS AND AS REQUIRED, GROUNDING, CABLE SUPPORTS, AND TERMINATIONS FOR PROPER INSTALLATION. PERFORM DC HIGH POTENTIAL TEST OF EACH CONDUCTOR IN ACCORDANCE WITH NEMA WC 8 AND THE FOLLOWING REQUIRED TESTS.
8.

THE 15KV CABLE SHALL BE DC PROOF TESTED BY AN INDEPENDENT TESTING FIRM. THE ATTACHED DC PROOF TESTING FORM SHALL BE COMPLETED BY THE TESTING FIRM AND SUBMITTED FOR REVIEW.
9.

TEST LEVELS: A DIRECT-CURRENT VOLTAGE TEST SHALL BE MADE FOR SOLID DIELECTRIC CABLE IN ACCORDANCE WITH THE FOLLOWING TABLE:

RATED CIRCUIT VOLTAGE PHASE TO PHASE KV	DC TEST VOLTAGE KV
15	40

- A.

THE VOLTAGE SHALL BE APPLIED BETWEEN THE CONDUCTOR AND THE METALLIC SHEATH, SHIELD OR CONCENTRIC NEUTRAL WIRES.
- B.

THE MAXIMUM APPLIED DIRECT-CURRENT VOLTAGE SHALL NOT BE GREATER THAN THREE (3) TIMES THE ALTERNATING CURRENT VOLTAGE RATING OF THE CABLE OR CABLE ACCESSORY.
- C.

THE RATE OF INCREASE FROM THE INITIALLY APPLIED VOLTAGE TO THE SPECIFIED TEST VOLTAGE SHALL BE APPROXIMATELY UNIFORM AND SHALL NOT BE OVER 100 PERCENT IN 10 SECONDS OR LESS THAN 100 PERCENT IN 60 SECONDS.
- D.

THE DURATION OF THE TEST SHALL BE 15 MINUTES AT FULL VOLTAGE AND THE LEAKAGE CURRENT SHALL NOT BE RECORDED UNTIL AT FULL VOLTAGE. THE CABLE MUST MAINTAIN THE SPECIFIED TEST VOLTAGE FOR THE DURATION OF THE TEST TO BE CONSIDERED ACCEPTABLE.
10.

PREPARATION FOR TESTING: THE INDEPENDENT TESTING COMPANY PERSONNEL SHALL COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:

A.

SAFETY - (TO PRECLUDE ACCIDENTAL CONTACT WITH THE CABLE(S) BEING TESTED)

1.

THE TEST AREA AND THE CABLE (S) UNDER TEST SHALL BE ROPED OFF.

2.

"DANGER-HIGH VOLTAGE" SIGNS SHALL BE DISPLAYED AROUND ALL ROPED OFF AREAS.

3.

TEST PERSONNEL SHALL BE STATIONED AT ALL EXPOSED CABLE TERMINATIONS.

B.

CLEARANCES - THE CABLE UNDER TEST MUST BE COMPLETELY ISOLATED FROM ALL EQUIPMENT.

1.

TO REDUCE LEAKAGE CURRENT DURING TESTING, CLEAN THE TERMINATIONS AND COVER ANY EXPOSED METALLIC SURFACES WITH PLASTIC WRAP OR DUCT SEAL TO REDUCE CORONA EFFECTS.

2.

MAINTAIN A CLEARANCE OF AT LEAST TWO FEET BETWEEN TEST POINT OR EXPOSED CABLE ENDS UNDER TEST AND ANY UNENERGIZED SURFACE AND AT LEAST THREE FEET BETWEEN TEST POINT OR EXPOSED CABLE ENDS AND ANY ENERGIZED SURFACE (BUS IN SWITCHGEAR, OTHER CIRCUITS OR CABLES, ETC.)

11.

GROUNDING:

A.

THE METALLIC SHIELDS (CONCENTRIC NEUTRALS, COPPER OR ZINC TAPES, DRAIN WIRES) OR METALLIC SHEATHS OF SHIELDED CABLE MUST BE GROUNDED DURING THE TEST.

B.

CABLES NOT UNDER TEST MUST BE GROUNDED ON BOTH CONDUCTORS AND METALLIC SHEATHS.

C.

AFTER EACH CABLE TEST THE CABLE SHALL BE ALLOWED TO DISCHARGE TO 10KV OR BELOW BEFORE APPLYING A GROUND. AN APPROPRIATE GROUNDING STICK OR RUBBER GLOVE SHALL BE USED AND/OR WORN WHEN APPLYING THE GROUND. GROUND MUST REMAIN ON FOR AT LEAST 15 MINUTES TO DRAIN CHARGE FROM TESTING.

12.

CONNECTIONS

A.

ALL BOLTED TERMINATIONS SWITCHES SHALL BE UNBOLTED AND PULLED INTO CLEARANCES AS NOTED ABOVE.

B.

ALL LEADS EXTENDING FROM THE TOP OF ANY TERMINATION TO OVERHEAD LINES MUST BE REMOVED AND THE TERMINATION LOWERED TO OBTAIN ADEQUATE CLEARANCE.

13.

SAMPLE: REPORTING FORM - DC PROOF TESTING

REPORTING FORM - DC PROOF TESTING

TESTING COMPANY NAME _____

CUSTOMER _____

LOCATION _____

DATE OF TEST ____ TESTER'S NAME _____

HUMIDITY ____ % TEMPERATURE _____

WEATHER: CLOUDY __ RAIN __ SNOW __

FOG __ SUNNY __

PHASE IDENTIFICATION			
KV TEST VOLTAGE			
MICROAMPERES	μ	μ	μ
TEST SET LEAKAGE			
15 SECONDS			
30 SECONDS			
45 SECONDS			
1 MINUTE			
2 MINUTES			
3 MINUTES			
4 MINUTES			
5 MINUTES			
6 MINUTES			
7 MINUTES			
8 MINUTES			
9 MINUTES			
10 MINUTES			
11 MINUTES			
12 MINUTES			
13 MINUTES			
14 MINUTES			
15 MINUTES			

CABLE MANUFACTURER: _____

CABLE RELATED VOLTAGE: _____

OPERATING VOLTAGE: _____

CONDUCTOR SIZE: _____

TYPE OF INSULATION: _____

NUMBER OF CONDUCTORS: _____

LENGTH: _____

AGE: _____

TYPE OF JACKET: _____

SEPARATE NEUTRAL: _____

OR

CONCENTRIC NEUTRAL WIRES: _____

TYPE OF TERMINATIONS AT TEST END: _____

TYPE OF TERMINATIONS AT OPPOSITE END: _____

REMARKS: _____

14.

PROTECTION:

A.

PROTECT INSTALLED CABLES FROM ENTRANCE OF MOISTURE.

MINIMUM COVER REQUIREMENT TABLE	
LOCATION	NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASEMENT OR OTHER APPROVED RACEWAYS
ALL LOCATION NOT SPECIFIED BELOW.	18"
IN TRENCH BELOW 2-IN. THICK CONCRETE OR EQUIVALENT.	12"
UNDER MINIMUM OF 4-IN. THICK CONCRETE EXTERIOR SLAB WITH NO VEHICULAR TRAFFIC AND THE SLAB EXTENDING NOT LESS THAN 6 IN. BEYOND THE UNDERGROUND INSTALLATION.	4" SEE NOTE #2.
UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS.	24"

NOTES:
1.) DETAIL SHOWN FOR INFORMATION PURPOSES. SAME CONCEPT SHALL ALSO APPLY FOR SINGLE CONDUITS.
2.) SAND MAY BE OMITTED FOR INSTALLATIONS WHERE COVER REQUIREMENTS ARE 6" OR LESS.

TRANSFORMER CLEARANCE NOTES:

1.) AREA IN FRONT OF DOOR TO BE CLEAR OF ALL ROCKS, STUMPS AND OTHER OBSTRUCTIONS SO THAT THE OPERATOR HAS A SAFE WORKING AREA.

2.) UTILITY COMPANY SHALL HAVE THE RIGHT TO CUT BACK GROWING BUSHES TO WITHIN STATED CLEARANCES.

CLEARANCE FOR PLANTING AROUND TRANSFORMER PAD

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7	08/12/2021	Issued for Construction
6	06/25/2021	Issued for Permit
5	02/24/2021	Issued for Bid
4	02/10/2021	Issued for Review
3	5/14/2020	90% Construction Documents
2	2/21/2020	Design Development
1	12/18/2019	Schematic Design

Sheet Title

ELECTRICAL DETAILS

Job No. NKGD0214.00	Date 06/25/2021
Scale AS NOTED	Drawn / Checked NL / KS

Sheet Number

E702

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4	02/10/2021	Issued for Review
3	5/14/2020	90% Construction Documents
2	2/21/2020	Design Development
1	12/18/2019	Schematic Design
No.	Date	Issue

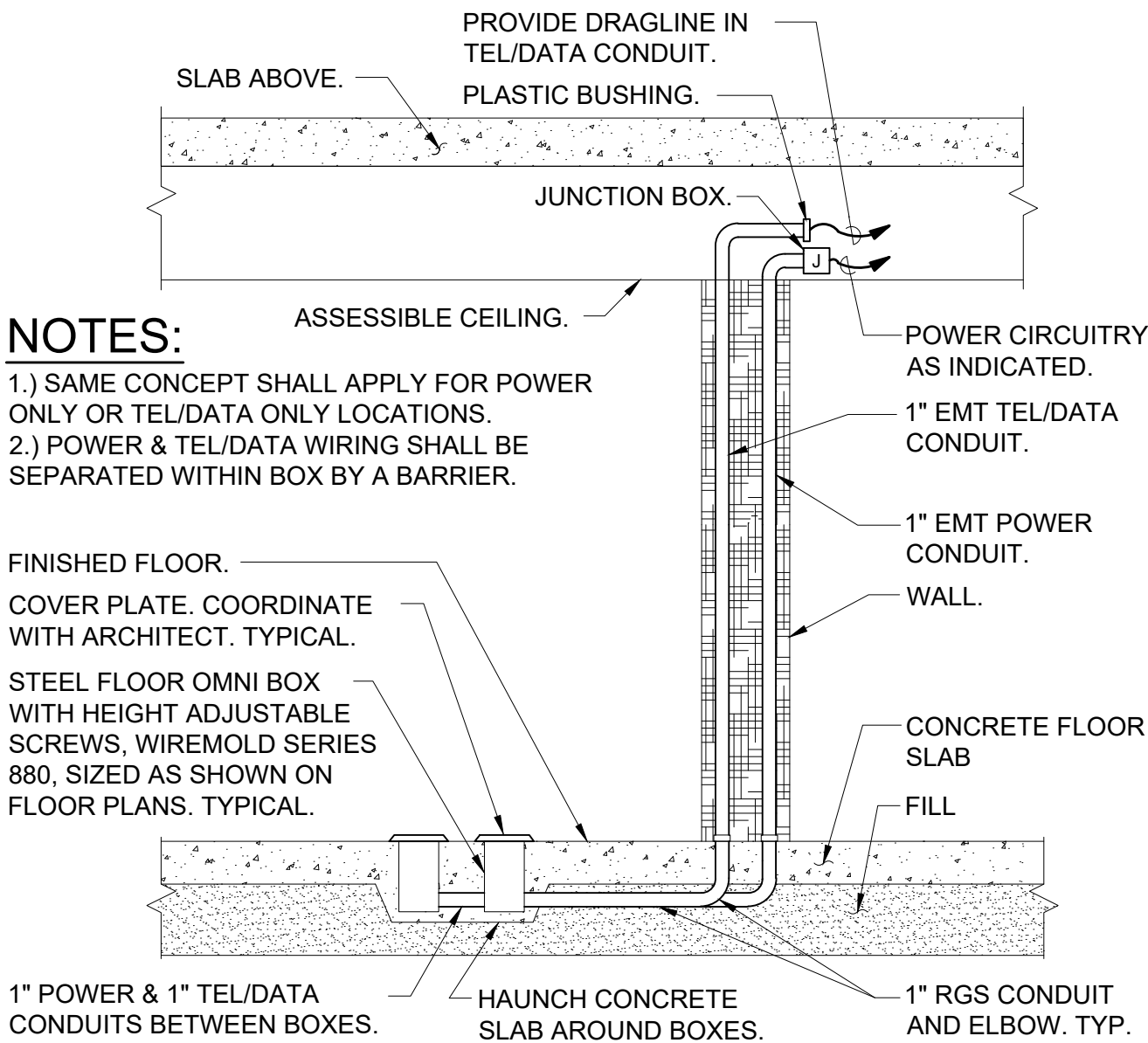
Sheet Title

ELECTRICAL
DETAILS

Job No.	Date
NKGD0214.00	06/25/2021
Scale	Drawn / Checked
AS NOTED	NL / KS

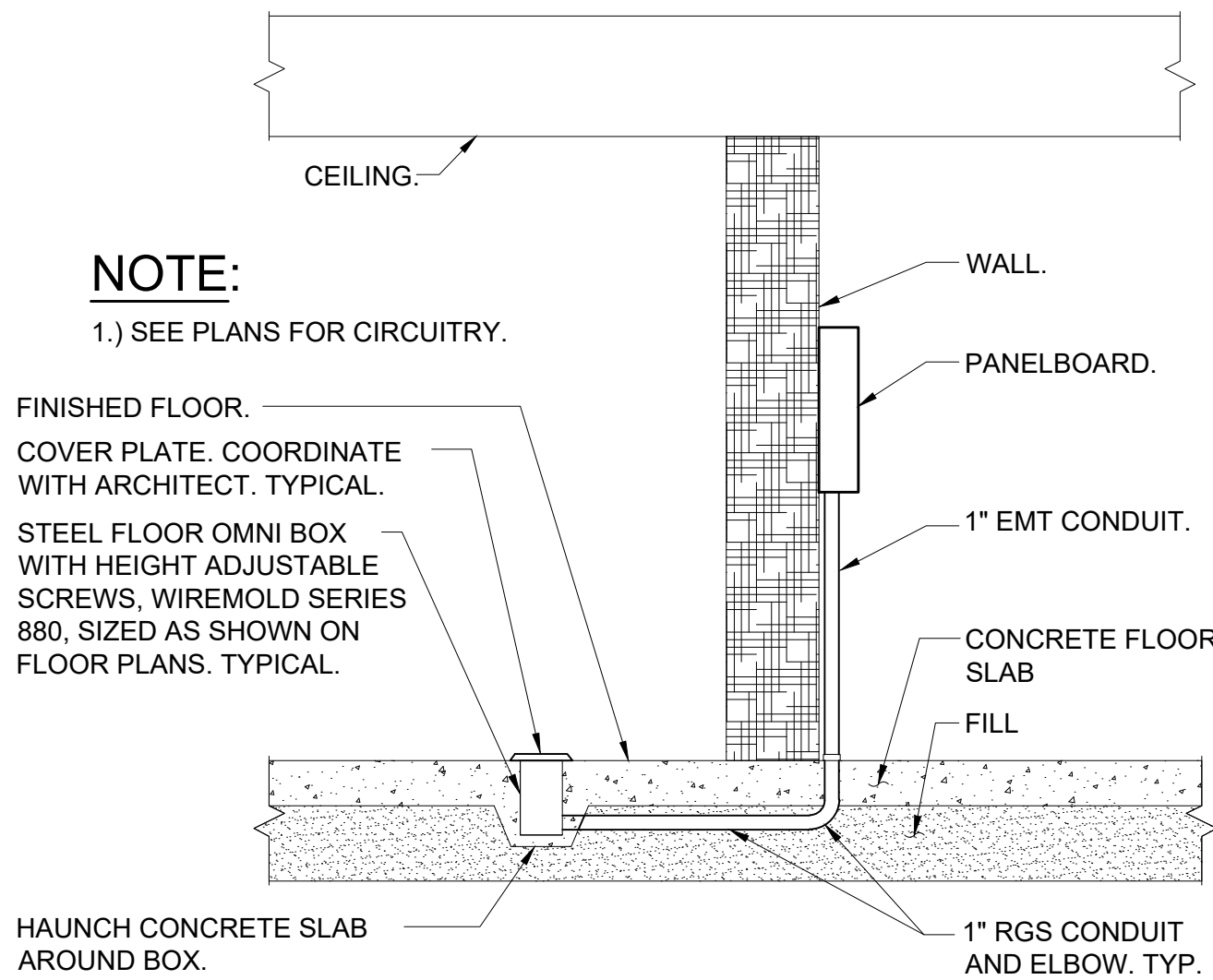
Sheet Number

E703



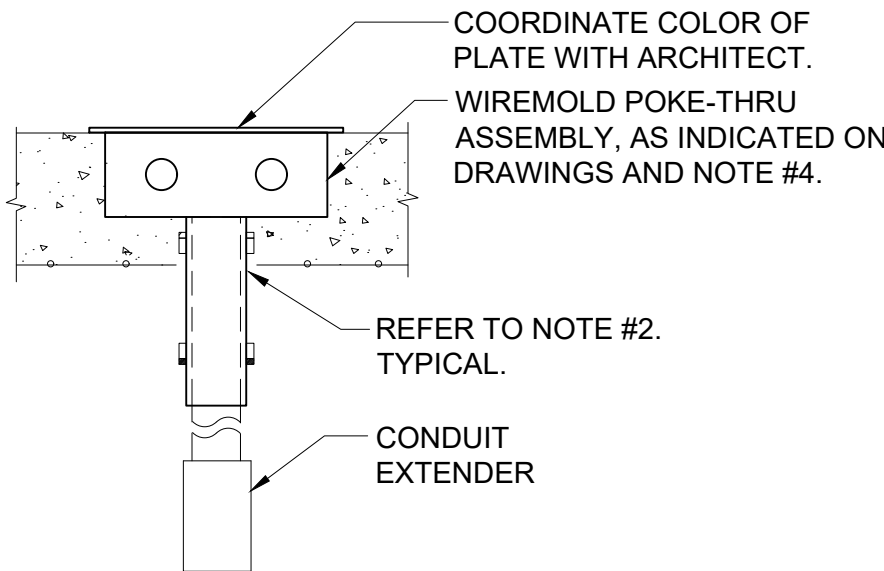
FLOOR MOUNTED POWER/TEL/DATA
RECEPTACLE INSTALLATION DETAIL

SCALE: NONE



FLOOR MOUNTED POWER RECEPTACLE
INSTALLATION DETAIL - GROUND FLOOR

SCALE: NONE



NOTES:

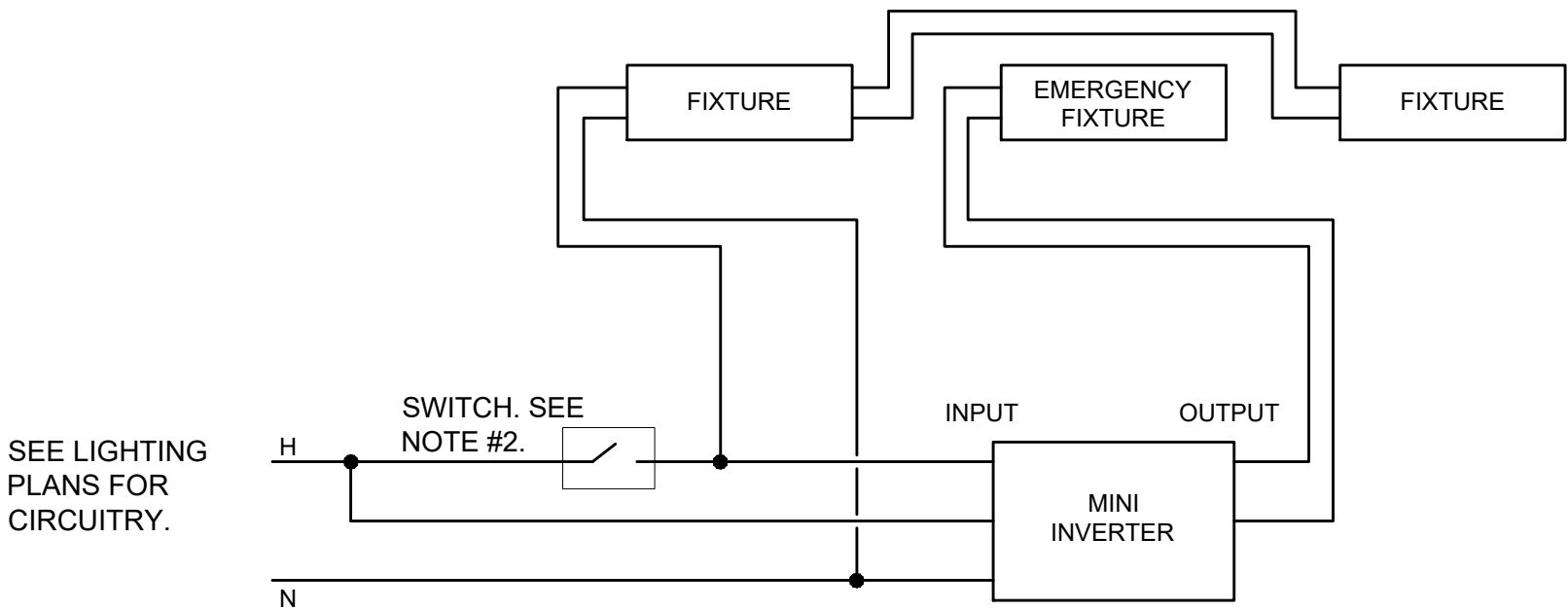
- 1.) FIRE STOP SLEEVE ON UPPER AND UNDERSIDE OF FLOOR SLAB WITH 3 HOUR RATED FIRE STOP AS MANUFACTURED BY SPECIFIED TECHNOLOGIES INC. (SPI) SPEC SEAL PENSIL 200 SILICONE FOAM.
- 2.) POKE-THRU SHALL BE MIN. 2'-0" APART FROM EACH OTHER TO MAINTAIN FIRE RATING OF FLOOR.
- 3.) INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 4.) POKE THRU MODEL NUMBERS:
A.) POKE THRU COMBINATION POWER/DATA/TELEPHONE WITH (2) DUPLEX 20A RECEPTACLES & (4) CATEGORY 6 INSERTS WIREMOLD MODEL #RC4ATC OR APPROVAL EQUAL.

POKE-THRU DEVICE INSTALLATION DETAIL

SCALE: NONE

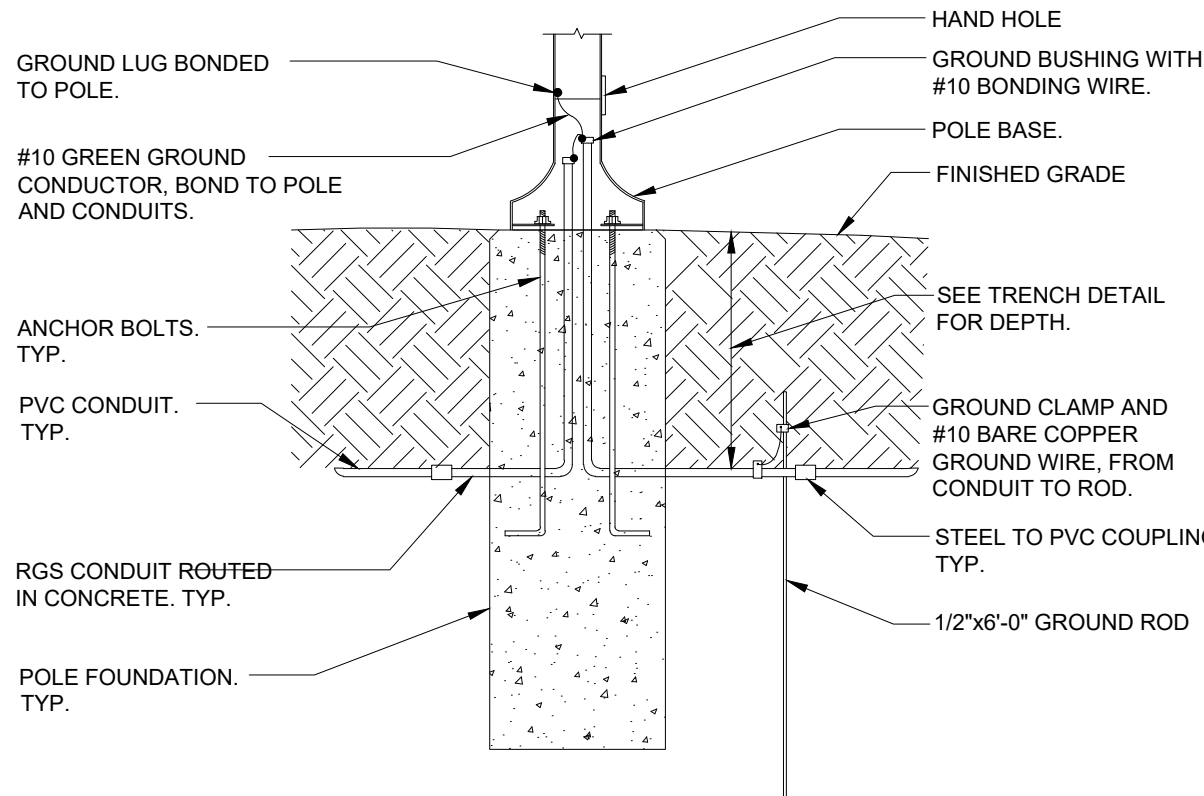
NOTES:

- 1.) MINI INVERTER SHALL HAVE 90 MINUTES OF BATTERY BACKUP TIME WITH 91% LUMEN OUTPUT FROM FIXTURES MINIMUM. UNIT INPUT/OUTPUT VOLTAGE SHALL BE 120/277V FIELD SELECTABLE. MINI INVERTER TO BE MANUFACTURED BY HIGHLIGHTS, PCF SERIES OR APPROVED EQUAL.
- 2.) "SWITCH" REPRESENTS A SINGLE POLE SWITCH, A SET OF CONTACTS, A COMBINATION OF 3 WAY AND 4 WAY SWITCHES, ETC. SEE DRAWINGS FOR ACTUAL SWITCH CONFIGURATION.
- 3.) SEE LIGHTING PLANS FOR ACTUAL NUMBER OF LIGHT FIXTURES ON CIRCUIT.



EMERGENCY FIXTURE MINI INVERTER
SYSTEM WIRING DIAGRAM

SCALE: NONE



NOTE:

- 1.) SEE STRUCTURAL DRAWINGS FOR FOUNDATION DETAIL.

LIGHT POST ELECTRICAL
INSTALLATION DETAIL

SCALE: NONE