

E000

GENERIC ELECTRICAL ABBREVIATIONS			
A	AMPERE(S)	LP	LIGHTING PANEL
AC	ALTERNATING CURRENT	LP	LOW PRESSURE SODIUM
AF	AMP FRAME	MATV	MASTER ANTENNA TELEVISION
AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AFG	ABOVE FINISHED GRADE	MCC	MOTOR CONTROL CENTER
AL	ALUMINUM	MCM	MIDTONE CIRCULAR MIL(S)
AT	AMP TRIP	MAGST	MAGNETIC STARTER
ATS	AUTOMATIC TRANSFER SWITCH	MH	MANHOLE
AWG	AMERICAN WIRE GAUGE	MI	MICROPHONE
BOC	BOTTOM OF CONDUIT	MTD	MOUNTED
BFC	BELOW FINISHED CEILING	MTG	MOUNTING
C	CONDUIT	MTR	MOTOR
CATV	CABLE TELEVISION	MUH	MAKE-UP AIR UNIT
CB	CIRCUIT BREAKER	NC	NORMALLY CLOSED
CC	CLOCK CABLEINET	NF	NONFUSED
CCTV	CLOSED CIRCUIT TELEVISION	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NL	NIGHT LIGHT
CLG	CEILING	NO	NORMALLY OPEN
CO	CONDUIT ONLY	NTS	NOT TO SCALE
CP	CONTROL PANEL	OL	OVERLOAD ELEMENT
CT	CURRENT TRANSFORMER	PC	PLUMBING CONTRACTOR
CU	COPPER	PE	PHOTO ELECTRIC CELL
DC	DIRECT CURRENT	PF	POWER FACTOR
DE	DUAL ELEMENT	PL	PILOT LIGHT
DP	DOUBLE POLE	PP	POWER PANEL
DS	DISCONNECT SWITCH	PRI	PRIMARY
DT	DOUBLE THROW	PS	PULL SWITCH
EC	ELECTRICAL CONTRACTOR	PTZ	PANTILIT/Zoom CAMERA
ECB	ENCLOSED CIRCUIT BREAKER	R	RELAY
EF	EXHAUST FAN	RC	REMOTE CONTROL
E.HTR	ELECTRIC HEATER	RCPL	REFLECTED CEILING PLAN
EM	EMERGENCY LIGHTING	RECP	RECEPTACLE
EMT	ELECTRIC METALLIC TUBING	SATV	SATELLITE ANTENNA TELEVISION
EOL	END OF LINE RESISTOR	SEC	SECONDARY
EUH	ELECTRIC UNIT HEATER	SP	SINGLE POLE
EWV	ELECTRIC WATER COOLER	SPKR	SPEAKER
F	FUSED	ST	SHUNT TRIP
FA	FIRE ALARM	SW	SWITCH
FACP	FIRE ALARM CONTROL PANEL	SWBD	SWITCHBOARD
FDR	FEEDER	T	TELEPHONE
FL	FLOOR	TC	TIME CLOCK
GC	GENERAL CONTRACTOR	TD	TIME DELAY
GFI	GROUND FAULT INTERRUPT	TDC	TIME DELAYED CLOSED
GND	GROUND	TDO	TIME DELAYED OPEN
HID	HIGH INTENSITY DISCHARGE	TR	TAMPER RESISTANT
HP	HORSEPOWER	TV	TELEVISION
HPS	HIGH PRESSURE SODIUM	TYP	TYPICAL
HT	ELECTRIC HEAT TRACE	UFD	UNDER FLOOR DUCT
HW	HEAVYWALL RIGID CONDUIT	UG	UNDER GROUND
HZ	HERTZ/FREQ. IN CYCLES PER SECOND)	UH	UNIT HEATER
I	INTERCOM	UON	UNLESS OTHERWISE NOTED
IG	ISOLATED GROUND	V	VOLTS
IMC	INTERMEDIATE METALLIC CONDUIT	VA	VOLT AMPERE(S)
INC	INCANDESCENT	VAR	VOLT AMPS REACTIVE
JB	JUNCTION BOX	VP	VAPOR PROOF
KCMIL	THOUSAND CIRCULAR MIL(S)	W	WATTS
KVA	KILOVOLT AMPERE(S)	WP	WEATHERPROOF
KVAR	KILOVAR(S)	XFMR	TRANSFORMER
KW	KILOWATT(S)	XP	EXPLOSION PROOF



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WILLOW GROVE ANNEX

102 NORTH YORK ROAD
WILLOW GROVE, PA 19090

MONTGOMERY COUNTY

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PROJECT NUMBER: **NPPH23-0136-00**
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SHEET TITLE:
**SINGLE LINE
DIAGRAM -
DEMOILITION
PLAN**

SHEET NUMBER:

E001



NOTES:
1. PROVIDE CIRCUIT CONDUCTOR AND CONDUIT SIZES INDICATED ABOVE UNLESS OTHERWISE NOTED.
2. CONDUCTOR SIZING BASED UPON 75C THWN INSULATED COPPER CONDUCTOR.
3. FOR TWO AND THREE POLE CIRCUITS PROVIDE NEUTRAL CONDUCTOR IF REQUIRED BY EQUIPMENT SERVED.

PROJECT TEAM

WILLOW GROVE ANNEX

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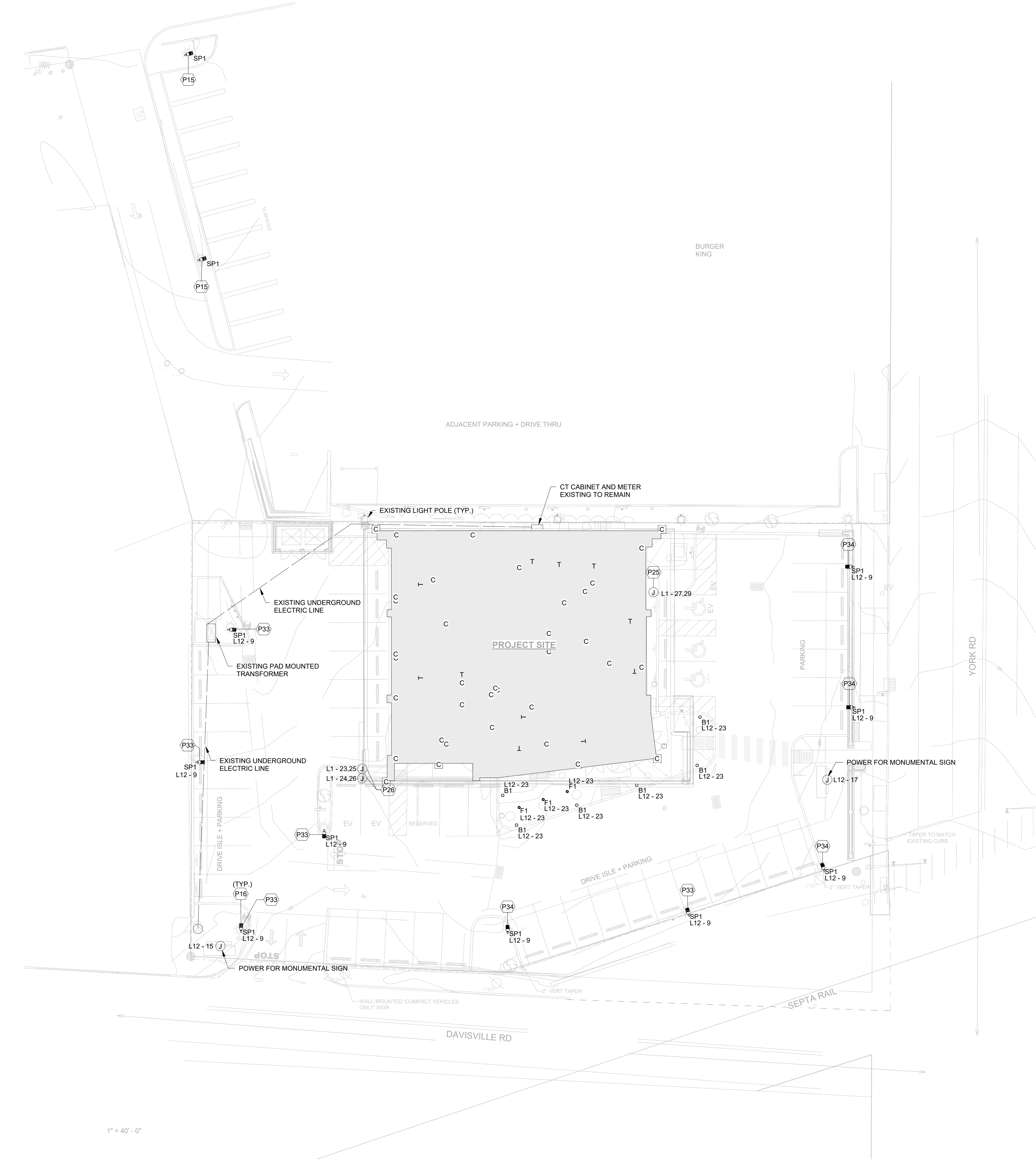
WILLOW GROVE
102 NORTH YORK ROAD
WILLOW GROVE, PA 19090
MONTGOMERY COUNTY



PROJECT NUMBER: NPPH23-0136-00
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SHEET NUMBER

E002



1 ELECTRICAL SITE PLAN
1/16" = 1'-0"

ELECTRICAL KEYNOTES	
P1	PROVIDE JUNCTION BOX FOR POWER AND LOW VOLTAGE FOR FURNITURE SYSTEM.
P2	PROVIDE HOSPITAL GRADE WIRING AND DEVICES IN CLINICAL ROOM. (TYP.)
P3	TRENCH CONCRETE SUITABLE FOR 3/4"C FOR POWER AND 1-1/4"C FOR DATA. PROVIDE LEGRAND WIREMOLD RFBA 4-GANG FLOOR BOX MODEL NO. RFBA4R25OG. COORDINATE FINAL LOCATION WITH OWNER FURNITURE.
P4	PROVIDE (1) 1"C WITH PULLSTRING FOR POWER AND (2) 1-1/4"C WITH PULLSTRING FOR LOW VOLTAGE DEVICES FOR FEED FROM FLOOR BOX TO TV CONNECTION.
P5	INDOOR UNIT ACC SHALL BE FED FROM OUTDOOR UNIT ACCU LOCATED ON THE ROOF.
P6	PROVIDE LEGRAND WIREMOLD FLUSH FURNITURE FEED POKE-THRU ASSEMBLY MODEL NO. 4FFATC15BK. COORDINATE FINAL LOCATION WITH OWNER FURNITURE.
P7	REFER TO SINGLE LINE DIAGRAM ON SHEET E002 FOR POWER TO ROOF TOP UNIT.
P8	POWER FOR SMOKE DAMPER.
P9	PROVIDE 200A DISCONNECT WITH SHUNT TRIP FOR POWER TO ELEVATOR #1. REFER TO SINGLE LINE DIAGRAM ON SHEET E002 FOR POWER AND CONDUIT SIZING TO ELEVATOR #1.
P10	PROVIDE 200A DISCONNECT WITH SHUNT TRIP FOR POWER TO ELEVATOR #2. POWER TO ELEVATOR #2 SHALL BE FED THROUGH EMERGENCY PANEL EP1.
P11	POWER FOR S3330VS X-RAY INSPECTION BAG SCANNER. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P12	PROVIDE (2) 20A DISCONNECTS FOR ELEVATOR CAB LIGHTS.
P13	DATA JACK FOR MICRO COMMUNICATION PANELS.
P14	POWER FOR AUTOMATIC DOOR OPERATOR.
P15	REMOVE EXISTING LIGHT FIXTURE AND POLE. POLE BASE EXISTING TO REMAIN. RECONNECT TO EXISTING CIRCUIT FOR NEW STREET POLE LIGHT FIXTURE.
P16	POWER FOR NEW STREET POLE LIGHT FIXTURE SHALL BE FED THROUGH PANEL L12.
P18	POWER FOR SMD600 PLUS ENHANCED WALK-THROUGH MULTI-ZONE METAL DETECTOR. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P19	PROVIDE 1-1/4"C STUBBED TO FLOOR BELOW.
P20	POWER TO LIGHTING CONTACTOR & TIME CLOCK. REFER TO SHEET DETAIL 1/E602 FOR MORE INFORMATION.
P21	POWER FOR DOOR HARDWARE. REFER TO SHEE DETAIL 2/E602 FOR GENERAL DOOR HARDWARE DETAIL. COORDINATE FINAL REQUIREMENTS WITH DOOR HARDWARE CONSULTANT.
P22	POWER FOR THINAIR HAND DRYER. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P23	SMOKE DETECTOR PROVIDED FOR SMOKE DAMPERS (TYP.).
P24	POWER FOR PUSH BUTTON. COORDINATE REQUIREMENTS WITH VENDOR.
P25	POWER FOR SINGLE HEAD BOLLARD EV CHARGING STATION, MODEL NO. GPHU1, CPMBX, CPCAP-B, CPCBX, CPCMK. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P26	POWER FOR DUAL HEAD BOLLARD EV CHARGING STATION, MODEL NO. GPHU2, CPMBX, CPCAP-B, CPCBX, CPCMK. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P27	JUNCTION BOX FOR ALERT BEACON DEVICE MOUNTED +48" AFF. COORDINATE FINAL REQUIREMENTS WITH LOW VOLTAGE CONSULTANT.
P28	INTERCONNECT DATA OUTLET AT 36" WITH TV. PROVIDE 1-1/4" EMPTY CONDUIT WITH PULL STRING.
P29	POWER FOR ILLUMINATED SIGN.
P30	PROVIDE LEGRAND WIREMOLD 4AT EVOLUTION SERIES POKE THRU DEVICES. COORDINATE FINAL LOCATION WITH OWNER FURNITURE.
P31	POWER FOR SWITCH POST. COORDINATE FINAL REQUIREMENTS WITH VENDOR.
P32	POWER FOR ELEVATOR SUMP PUMP. RELOCATE AS REQUIRED IN FIELD.
P33	REMOVE EXISTING LIGHT FIXTURE. POLE BASE EXISTING TO REMAIN. NEW SITE LIGHT POLE AS SPECIFIED.
P34	REMOVE EXISTING LIGHT FIXTURE AND POLE BASE. NEW SITE LIGHT POLE AND BASE AS SPECIFIED. EXTEND CONDUIT AT NEW CONCRETE BASES.
P35	RELOCATED IT RACK. REFER TO SHEET DETAIL 1/E004 FOR IT RACK ELEVATIONS.
P36	CONNECT 50% OF RECEPTACLES IN SYSTEMS FURNITURE IN OFFICE SPACES TO BE CONTROLLED VIA OCCUPANCY SESNSOR.

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WILLOW GROVE ANNEX

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WILLOW GROVE, PA 19080

MONTGOMERY COUNTY

PROJECT
NORTH

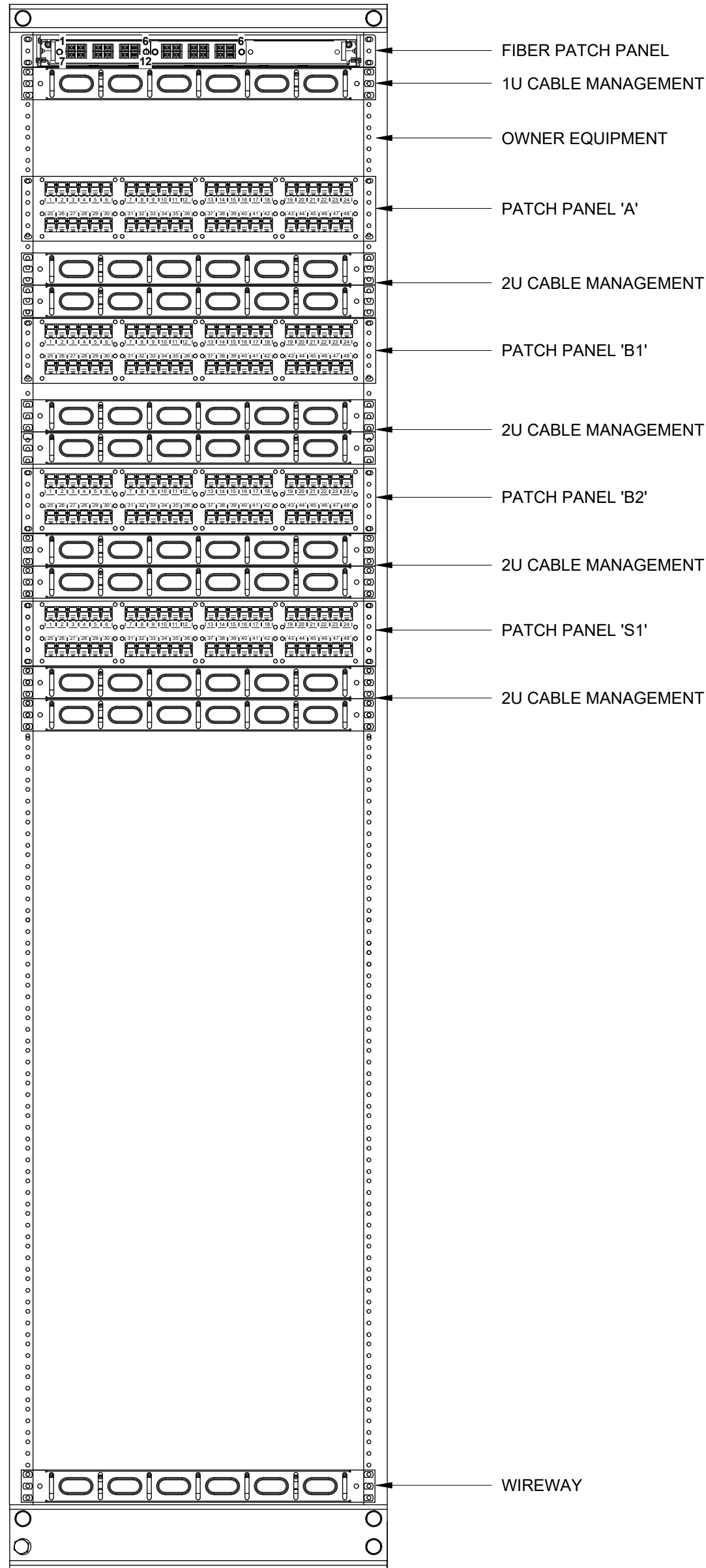
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SHEET TITLE
ELECTRICAL
SITE PLAN

SHEET NUMBER
E003

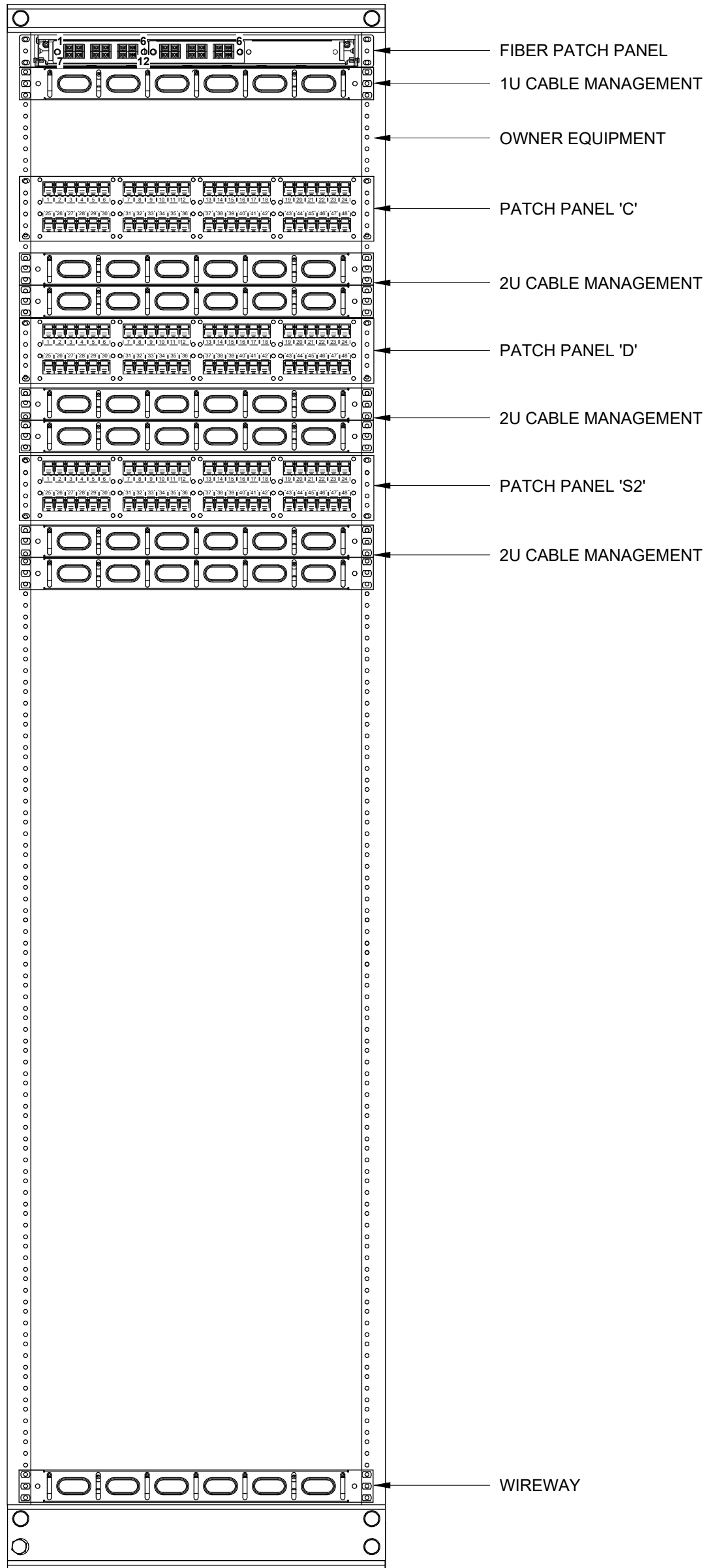
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DATA RACK AB LOCATED ON SECOND FLOOR



1 IT RACK ELEVATIONS
3/8" = 1'-0"

DATA RACK CD LOCATED ON FOURTH FLOOR



	Building Systems	Electrical Prime Contractor	Owner's Vendor	Utility	Notes
1	Communication Systems - Site				
2	Site Communications - Outside Plant (OSP) Conduit/Ductbank	X			
3	Site Communications - OSP Cabling			X	
4	Site Communications - OSP Terminations			X	
5					
6	Communication Systems				Determine demarcation at LOD with design vendor (PECO) - underground manhole to house a switch for building
7	Communications Pathways - Exterior	X			
8	Communications Pathways - Interior	X			
9	Communications - IT Room Cable Tray and Pathways	X			
10	Communications - Racks	X			
11	Communications - Fiber Patch Panels	X			
12	Communications - Copper Patch Panels	X			
13	Communications - Copper Patch Panels	X			
14	Communications - Horizontal Cabling and Outlets	X			
15	Communications - Fiber Optic and Copper Risers	X			
16	Communications - Fiber Optic and Copper Terminations		X		
17	Communications - Patch Cords		X		
18	Communications - Cross Connects		X		
19	Communications - Active Electronics - Switches, Computers	X			
20	Communications - Network Switches INSTALLATION	X			
21	Communications - Computers, Networking Equipment	X			
22	Communications - PBX/VoIP - FURNISH	X			
23	Communications - Phones - Furnish & Install	X			
24	Communications - UPS Power - Local at racks		X		
25					
26	WLAN System				
27	WLAN System - Raceways	X			
28	WLAN System - Cabling and Outlets	X			
29	WLAN System - WLAN point Installation		X		Contractor to install owner provided equipment
30	WLAN System - Furnish WLAN point & configure		X		"Aruba" is the WLAN device, provided by County, confirm with County IT, coordinate # of devices
31					
32	Overhead Paging Systems/ Mass Notification System				
33	Paging System - Pathways	X			
34	Paging System - Equipment & Installation		X		
35	Paging System - Cabling	X			
36					
37	Audio/Visual Systems				
38	Audio/Visual Systems - Pathways	X			
39	Audio/Visual Systems - Equipment & Installation		X		
40	Audio/Visual Systems - Cabling	X			
41					
42	Antenna Systems				
43	ERRC System 800MHz - 1st Responders	X			
44	Cellular DAS - Complete	-	-	-	NIC
45					
46	Area of Refuge Systems	X			
47					
48	CCTV System				
49	CCTV System - Headed Equipment and Devices		X		
50	CCTV System - Pathways	X			
51	CCTV System - Cabling & Installation	X			
52	CCTV System - Computers		X		
53					
54	Access Control System				
55	Access Control - Pathways	X			
56	Access Control - Headed System		X		
57	Access Control - Cabling	X			
58	Access Control - Equipment & Installation - Devices		X		
59	Access Control - Badging		X		
60	Site Security		X		
61	Duress System	-	-	-	NIC
62					
63	Synchronized Clock Systems	-	-	-	NIC
64					
65	Book Security System				
66	Book Security System - Equipment & Installation		X		
67	Book Security System - Raceways	X			
68	Book Security System - Cabling & Installation	X			

PATCH PANEL 'A'		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24
PORT		RM 103	RM 103	RM 103	RM 103	RM 103	RM 103	RM 103	RM 103	RM 116	RM 116	RM 116	RM 116	RM 116	RM 116	-	-	-	-	-	-	-	-	-	-
DEVICE		P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48
DEVICE		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PATCH PANEL 'B1'		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24
PORT		RM 210	RM 210	RM 211	RM 211	RM 211	RM 211	RM 211	RM 211	RM 211	RM 211	RM 211	RM 211	RM 211	RM 211	RM 211	RM 211	RM 211	RM 211	RM 212	RM 213	RM 214	RM 215	RM 216	RM 216
PORT		P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48
DEVICE		RM 216	RM 216	RM 216	RM 216	RM 216	RM 216	RM 216	RM 216	RM 216	RM 216	RM 216	RM 216	RM 216	RM 218	RM 218	RM 220	-	-	-	-	-	-	-	-

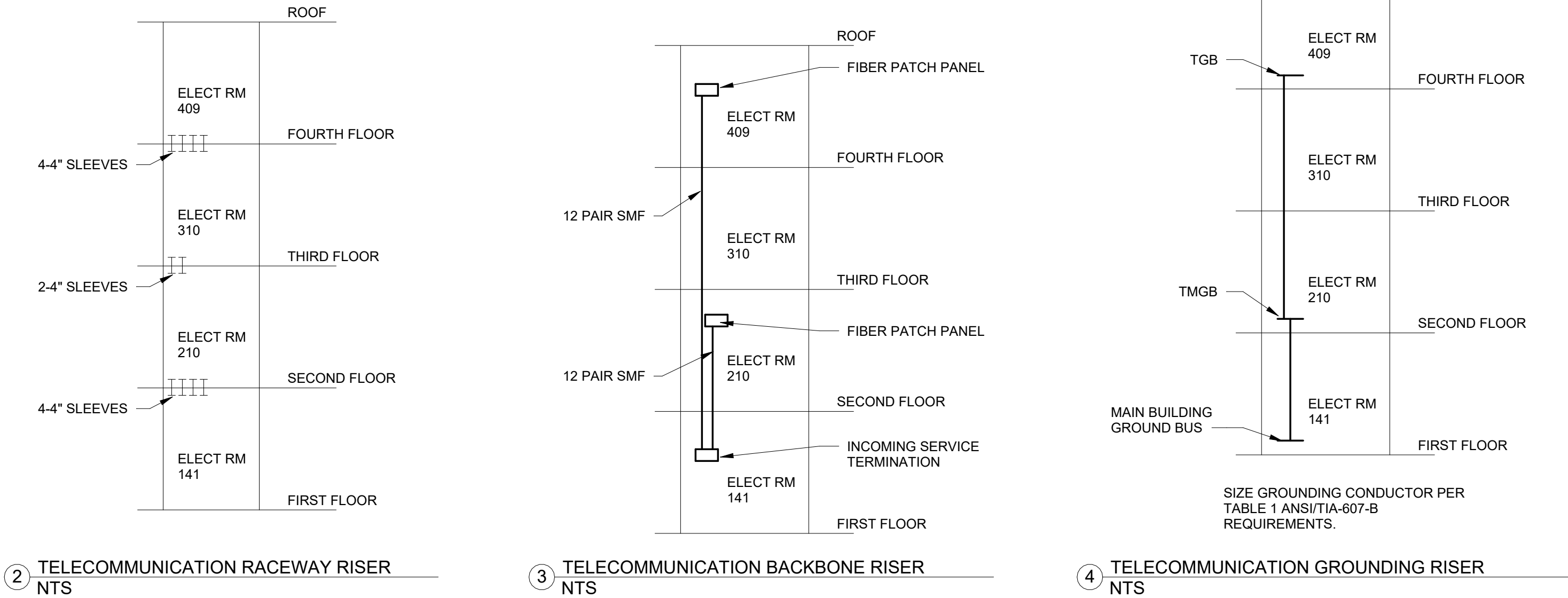
PATCH PANEL 'B2'		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24
PORT		RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 219	RM 222	RM 223	-	-	-
PORT		P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48
DEVICE		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PATCH PANEL 'C'		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24
PORT		RM 308	RM 308	RM 310	RM 310	RM 311	RM 311	RM 311	RM 311	RM 311	RM 311	RM 311	RM 311	RM 311	RM 311	RM 312	RM 313	RM 313	RM 314	RM 314	RM 315	RM 316	RM 317	RM 317	RM 318
PORT		P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48
DEVICE		RM 322	RM 323	RM 325	RM 326	RM 326	RM 326	RM 327	RM 328	RM 330	RM 330	RM 330	RM 330	RM 330	RM 330	RM 330	RM 330	RM 330	RM 330	RM 330	RM 332	-	-	-	-

PATCH PANEL 'D'		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24
PORT		RM 409	RM 409	RM 411	RM 414	RM 414	RM 414	RM 414	RM 414	RM 414	RM 414	RM 414	RM 414	RM 416	RM 417	RM 418	RM 421	RM 421	RM 421	RM 421	RM 421	RM 421	RM 421	RM 421	RM 421
PORT		P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48
DEVICE		RM 424	RM 426	RM 427	RM 428	RM 429	RM 430	RM 430	RM 430	RM 430	RM 430	RM 430	RM 430	RM 432	-	-	-	-	-	-	-	-	-	-	-

PATCH PANEL 'S1'		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24
PORT		CAM-1	CAM-2	CAM-3	CAM-4	CAM-5	CAM-6	CAM-7	CAM-8	CAM-9	CAM-10	CAM-11	CAM-12	CAM-13	CAM-14	CAM-15	CAM-16	CAM-17	CAM-18	CAM-19	CAM-20	CAM-21	CAM-22	CAM-23	CAM-24
PORT		P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48
DEVICE		CAM-25	CAM-26	CAM-27	CAM-28	CAM-29	CAM-30	CAM-31	CAM-32	CAM-33	CAM-34	CAM-35	CAM-36	-	-	-	-	-	-	-	-	-	-	-	-

PATCH PANEL 'S2'		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24
PORT		CAM-37	CAM-38	CAM-39	CAM-40	CAM-41	CAM-42	CAM-43	CAM-44	CAM-45	CAM-46	CAM-47	CAM-48	CAM-49	-	-	-	-	-	-	-	-	-	-	-
PORT		P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48
DEVICE		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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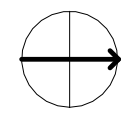
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WILLOW GROVE ANNEX

102 NORTH YORK ROAD
WILLOW GROVE, PA 19090

MONTGOMERY COUNTY



PROJECT NORTH

REV	DATE	DESCRIPTION	ISSUE FOR BIDD
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SHEET TITLE
LOW VOLTAGE & TELECOM DETAILS

SHEET NUMBER

E004

6/16/2026 2:55:05 PM



① FIRST FLOOR DEMOLITION PLAN
1/4" = 1'-0"

GENERAL DEMOLITION NOTES

A. COORDINATE ALL WORK CONCERNING EXISTING EQUIPMENT AND SERVICES TO REMAIN DE-ENERGIZE CIRCUITS AND MAKE THEM SAFE AS REQUIRED. RECONNECT CIRCUITS THAT ARE TO REMAIN AND ARE DISRUPTED DURING DEMOLITION.

B. REMOVE EXPOSED OR ACCESSIBLE WIRING, TO EQUIPMENT OR OUTLETS TO BE REMOVED, UNLESS OTHERWISE INDICATED. LABEL AND TERMINATE WIRING TO REMAIN.

C. WHERE EXISTING OUTLETS ARE TO REMAIN AND ARE CUT OFF BY THE REMODELING THEY SHALL RE-CONNECTED TO CIRCUITS AS REQUIRED BY JOB CONDITIONS.

D. LEGALLY DISPOSE OF EQUIPMENT WHERE EXISTING EQUIPMENT IS INDICATED TO BE REMOVED. OFFER EQUIPMENT TO OWNER AND DISPOSE OF EQUIPMENT THE OWNER DOES NOT WISH TO RETAIN. PROVIDE DOCUMENTATION INDICATING LEGAL DISPOSAL OR RECYCLING OF MATERIALS REMOVED. RECYCLE FLUORESCENT AND HID LAMPS, PROVIDE DOCUMENTATION.

E. WIRING INDICATED TO BE REMOVED OR SERVING EQUIPMENT TO BE REMOVED SHALL BE REMOVED BACK TO THE SOURCE OR TO THE NEXT JUNCTION POINT IF THE WIRING SERVES OTHER OUTLETS THAT WILL REMAIN. CONDUIT OVER UNDISTURBED CEILINGS SHALL REMAIN AND BE LABELED ABANDONED ON EACH END WITH END POINTS INDICATED.

F. RECONNECT EXISTING CIRCUITRY WHICH ORIGINATES OR PASSES THROUGH THE RENOVATED AREAS BUT SERVES OTHER AREAS NOT BEING RENOVATED. EXTEND THESE CIRCUITS AS MAY BE NECESSARY TO THE EXISTING PANELBOARDS.

G. COORDINATE WORK CONCERNING EXISTING EQUIPMENT AND SERVICES IN THE BUILDING. COORDINATE REQUIRED POWER INTERRUPTIONS AND PERFORM AT TIME CONVENIENT TO OWNER. INCLUDE COSTS FOR REQUIRED PREMIUM TIME.

H. VERIFY THE INTEGRITY AND CONDITION OF THE EXISTING BRANCH CIRCUIT WIRING THAT IS TO BE RE-USED. REPLACE WIRING FOUND TO BE NON-FUNCTIONAL.

ELECTRICAL DEMOLITION KEYNOTES

D1	EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT TO REMAIN.
D2	REMOVE ALL EXISTING WIRING FOR TELECOMMUNICATION AND PROVIDE WITH NEW.
D3	EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT TO BE REMOVED BACK TO SOURCE.

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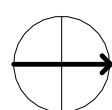
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WILLOW GROVE ANNEX

102 NORTH YORK ROAD
WILLOW GROVE, PA 19090

MONTGOMERY COUNTY



PROJECT
NORTH

[illegible]

PROJECT NUMBER: **NPPH23-0136-00**
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SHEET TITLE:

**FIRST FLOOR
DEMOLITION
PLAN**

SHEET NUMBER:

ED110



1 SECOND FLOOR DEMOLITION PLAN
1/4" = 1'-0"

D1	EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT TO REMAIN.
D2	REMOVE ALL EXISTING WIRING FOR TELECOMMUNICATION AND PROVIDE WITH NEW.
D3	EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT TO BE REMOVED BACK TO SOURCE.

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SHEET TITLE:
**SECOND FLOOR
DEMOLITION
PLAN**

SHEET NUMBER:

ED120

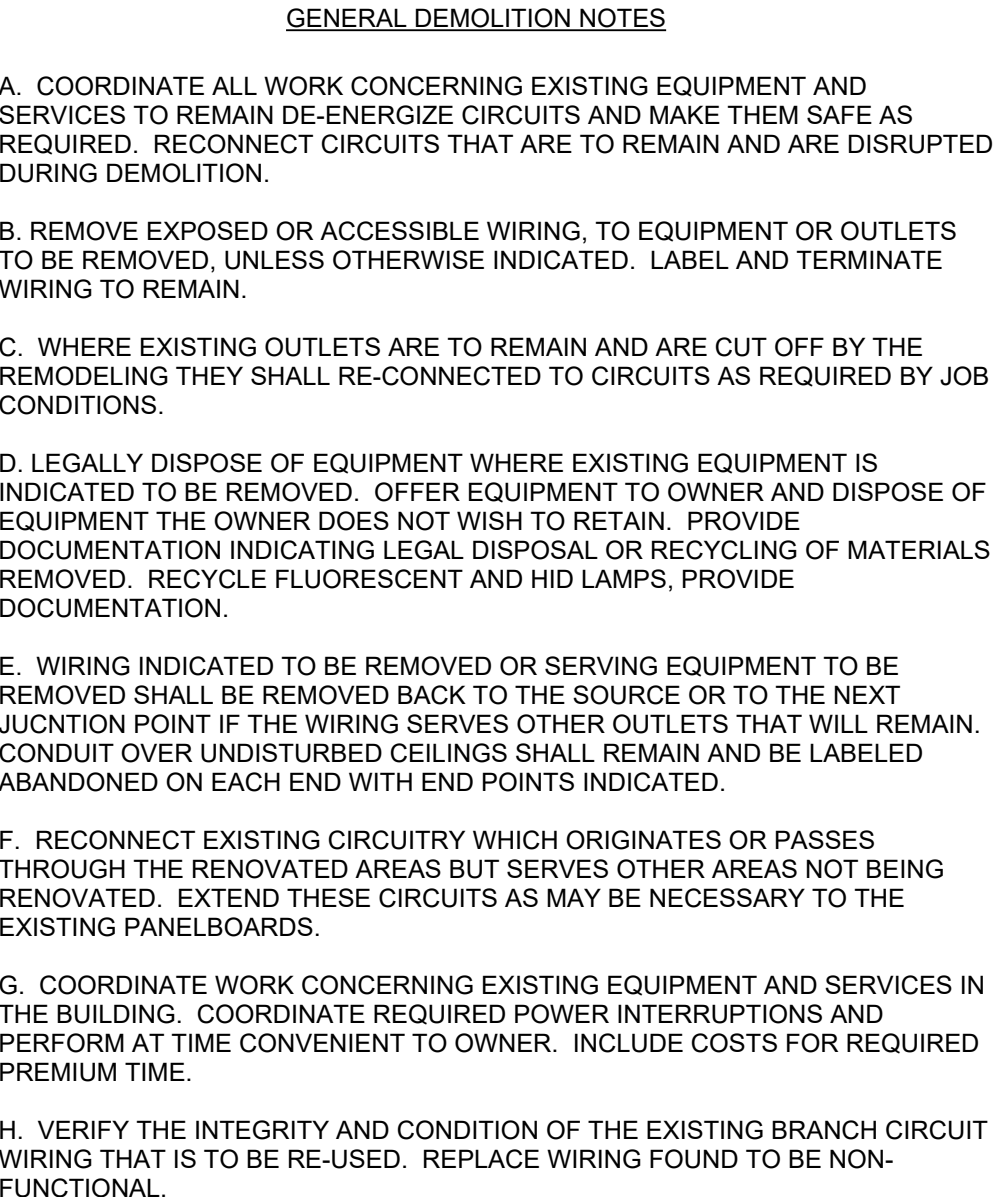


① THIRD FLOOR DEMOLITION PLAN
1/4" = 1'-0"

D1	EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT TO REMAIN.
D2	REMOVE ALL EXISTING WIRING FOR TELECOMMUNICATION AND PROVIDE WITH NEW.
D3	EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT TO BE REMOVED BACK TO SOURCE



ED140



ELECTRICAL DEMOLITION KEYNOTES	
D1	EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT TO REMAIN.
D2	REMOVE ALL EXISTING WIRING FOR TELECOMMUNICATION AND PROVIDE WITH NEW.
D3	EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT TO BE REMOVED BACK TO SOURCE.

DISCONNECT AND SAFE OFF THE ELECTRICAL SERVICE TO THE BUILDING. CONFIRM WITH UTILITY COMPANY THE POWER IS TERMINATED AT THE POLE ON DAVISVILLE ROAD. THER SERVICE TRANSFORMERS WITHIN THE BUILDING WILL BE REMOVED BY THE GENERAL TRADES PRIME CONTRACTOR. ELECTRICAL PRIME WILL REMOVE, OR COORDINATE REMOVAL OF SERVICE CABLES FROM THE BUILDING TO THE POLE TRANSFORMER. PROVIDE IN WRITING CONFIRMATION THE ELECTRIC SERVICE WAS TERMINATED AT THE POLE PRIOR TO INTERIOR DEMOLITION. THE REMAINDER OF ELECTRICAL DEMOLITION WILL BE PERFORMED BY THE GENERAL TRADES PRIME CONTRACTOR.

UNLESS OTHERWISE NOTED, REMOVE ALL RECEPTACLES, LIGHTING FIXTURES, LIGHTING CONTROLS, JUNCTION BOXES, TELECOMMUNICATION DEVICES, SPEAKERS, AND SECURITY DEVICES BACK TO SOURCE. REMOVE POWER FOR MECHANICAL EQUIPMENT AND WATER HEATERS BACK TO SOURCE.

1 ROOF DEMOLITION PLAN
1/4" = 1'-0"

D

CLIENT

MONTGOMERY COUNTY

PROJECT TEAM

KIMLEY-HORN

620 W GERMANTOWN PIKE, SUITE 320
PLYMOUTH MEETING, PA 19462

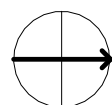
C

B

WILLOW GROVE ANNEX

102 NORTH YORK ROAD
WILLOW GROVE, PA 19090

MONTGOMERY COUNTY



PROJECT NORTH

[illegible]

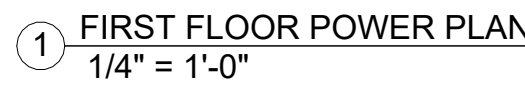
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SHEET TITLE:

ROOF DEMOLITION PLAN

SHEET NUMBER:

ED150



1 FIRST FLOOR POWER PLAN
1/4" = 1'-0"

A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWING E001.

B. CONTRACTOR SHALL PROVIDE COMPLETE AND ACCURATE CIRCUIT DIRECTORIES FOR ALL NEW AND EXISTING PANELS AFTER NEW WORK IS COMPLETED.

C. CONTRACTOR SHALL COORDINATE ALL TELEDATA REQUIREMENTS WITH OWNER'S TELEDATA VENDOR.

D. PROVIDE A JUNCTION BOX AND PULL STRING FROM EACH CARD READER/ELECTRIC DOOR STROKE TO SECURITY EQUIPMENT RACK IN IDF. PROVIDE A JUNCTION RACK CONTACT AT SECURITY EQUIPMENT RACK FOR CARD READERS/ELECTRIC DOOR TO RELEASE UPON GENERAL ALARM OF FIRE ALARM SYSTEM.

E. FIRE ALARM SHALL BE OPERATIONAL AND MAINTAINED DURING ALL ASPECTS OF DEMOLITION AND NEW CONSTRUCTION.

F. MAINTAIN THE CONTINUITY OF ALL EXISTING TO REMAIN OUTSIDE THE SCOPE OF WORK AREA.

G. ALL ELECTRICAL OUTLETS AND JUNCTION BOXES SHALL BE STAGGERED WITHIN THE WALL TO AVOID SOUND TRANSMISSION.

H. ALL NEW FIRE ALARM DEVICES TO BE CONNECTED TO EXISTING FIRE ALARM SYSTEM. PROVIDE NEW WIRING AND CONDUIT TO ALL NEW FIRE ALARM DEVICES. NEW DEVICE SHALL MATCH EXISTING SYSTEM DEVICES. PROVIDE NEW BATTERIES, STROBE SPLY MODULES, HARDWARE, SOFTWARE AND ALL THE OTHERS TO CONTROL PANEL NECESSARY TO SUPPORT NEW FIRE ALARM DEVICES.

I. UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES ON THE FIRST FLOOR SHALL BE CIRCUTED TO PANEL L1.

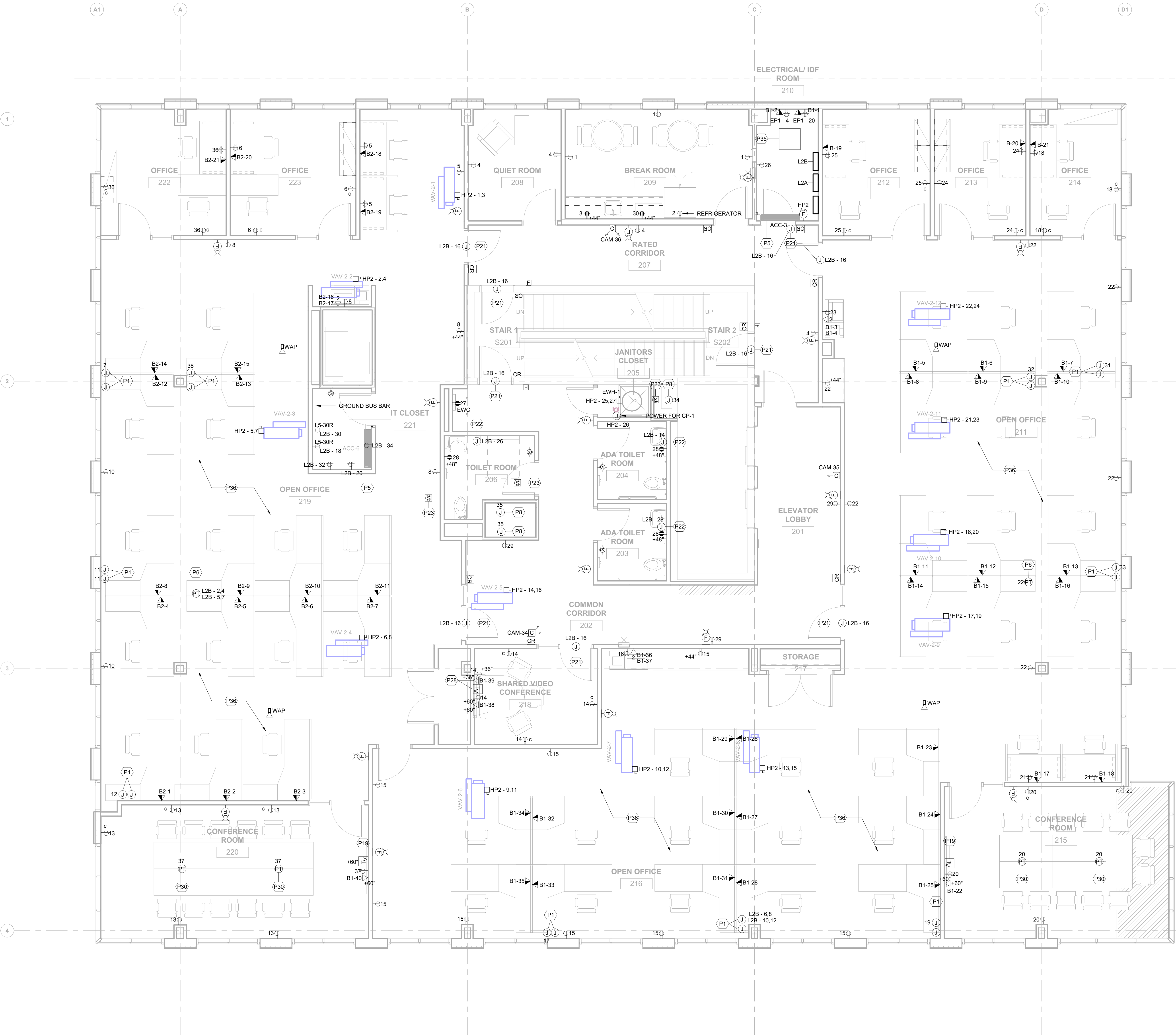
J. UNLESS OTHERWISE NOTED, PROVIDE SINGLE DROP DATA CONNECTIONS AT THE AREA INDICATED.

ELECTRICAL KEYNOTES

- P1 PROVIDE JUNCTION BOX FOR POWER AND LOW VOLTAGE FOR FLOOR SYSTEM
- P2 PROVIDE HOSPITAL GRADE WIRING AND DEVICES IN CLINICAL ROOM. (TYP.)
- P3 TRENCH CONDUIT SUITABLE FOR 3/4" FOR POWER AND 1-1/4" FOR LOW VOLTAGE. PROVIDE 1/2" RIGID REBAR 4-ANGUS FLOOR BC. MODEL NO. RFBAR2002. COORDINATE FINAL LOCATION WITH OWNER FURNITURE.
- P4 PROVIDE 1" (1") WITH PULLSTUNG FOR POWER AND (2") 1-1/4" WITH PULLSTUNG FOR LOW VOLTAGE DEVICES FOR FLOOR FROM FLOOR BOX TO TV CONNECTION
- P5 FLOOR UNIT SHALL BE FED FROM OUTDOOR UNIT ACCU LOCATED ON THE ROOF.
- P6 PROVIDE LEGRAND WIREMOLD FLUSH FURNITURE SIZED POKE-THRU ASSEMBLY MODEL NO. 4FFACT15BK. COORDINATE FINAL LOCATION WITH OWNER FURNITURE.
- P7 REFER TO SINGLE LINE DIAGRAM ON SHEET E002 FOR POWER TO ROOF TOP UNIT.
- P8 PROVIDE FOR SMOKE DAMPER.
- P9 PROVIDE 200A DISCONNECT WITH SHUNT TRIP FOR POWER TO ELEVATOR #1. REFER TO SINGLE LINE DIAGRAM ON SHEET E002 FOR POWER AND CONDUIT SIZES TO ELEVATOR #1.
- P10 PROVIDE 200A DISCONNECT WITH SHUNT TRIP FOR POWER TO ELEVATOR #2. POWER TO ELEVATOR #2 SHALL BE FED THROUGH EMERGENCY PANEL EPI.
- P11 PROVIDE FOR SEISMOGRAPH ARRAY INSPECTION BAG SCANNER. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
- P12 PROVIDE (2) 20A DISCONNECTS FOR ELEVATOR CAB LIGHTS.
- P13 DATA JACK FOR MICRO COMMUNICATION PANELS.
- P14 PROVIDE FOR DOMESTIC WATER SHUT TRIP TO ELEVATOR.
- P15 REMOVE EXISTING LIGHT FIXTURE AND POLE. POLE BASE EXISTING TO REMAIN. RECONNECT TO EXISTING CIRCUIT FOR NEW STREET LIGHT FIXTURE.
- P16 POWER FOR NEW STREET POLE LIGHT FIXTURE SHALL BE FED THROUGH PANEL L12.
- P17 POWER FOR SMD650 WALL ENHANCED WALK-THROUGH MULTIZONAL DETECTOR. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
- P18 POWER 1-1/4" STUBBED TO FLOOR BELOW.
- P19 POWER TO LIGHTING CONTRACTOR A TIME CLOCK. REFER TO SHEET E002 FOR 1/2" 110B200 OR MORE AS REQUIRED.
- P20 POWER FOR DOOR HARDWARE. REFER TO SHEET DETAIL 2/BEE02 FOR GENERAL DOOR HARDWARE DETAIL. COORDINATE FINAL REQUIREMENTS WITH DOOR HARDWARE CONSULTANT.
- P21 POWER FOR THINAIR HAND DRYER. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
- P22 PROVIDE DETECTED RAMP FOR SMOKE DAMPERS (TYP.).
- P23 POWER FOR PUSH BUTTON. COORDINATE REQUIREMENTS WITH VENDOR.
- P24 POWER FOR SINGLE HEAD BOLLARD EY CHARGING STATION. MODEL NO. 070PHIL. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
- P25 POWER FOR DUAL HEAD BOLLARD EY CHARGING STATION. MODEL NO. 070PHIL. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
- P26 PROVIDE JUNCTION BOX FOR ALERT BEACON DEVICE MOUNTED +48" AFF. COORDINATE FINAL REQUIREMENTS WITH LOW VOLTAGE CONSULTANT.
- P27 INTERCONNECT DATA OUTLET AT 36" WITH TV. PROVIDE 1-1/4" EMPTY CONDUIT WITH PULL STRING.
- P28 POWER FOR ILLUMINATION.
- P29 PROVIDE LEGRAND WIREMOLD 44T EVOLUTION SERIES POKE THRU DEVICES. COORDINATE FINAL LOCATION WITH OWNER FURNITURE.
- P30 PROVIDE SWITCH POST. COORDINATE FINAL REQUIREMENTS WITH VENDOR.
- P32 POWER FOR ELEVATOR SUMMUP PUMP. RELOCATE AS REQUIRED IN FIELD.
- P33 REMOVE EXISTING LIGHT FIXTURE. POLE BASE EXISTING TO REMAIN. NEW SITE LIGHT POLE AS SPECIFIED.
- P34 REMOVE EXISTING LIGHT FIXTURE AND POLE BASE. NEW SITE LIGHT POLE AND BASE AS SPECIFIED. EXTEND CONDUIT AT NEW RELOCATED BASES.
- P35 RELOCATED IT RACK. REFER TO SHEET DETAIL 1/E004 FOR IT RACK DETAILS.
- P36 COORDINATE 50% OF RECEPTACLES IN SYSTEMS FURNITURE IN OFFICE SPACES TO BE CONTROLLED VIA OCCUPANCY SENSOR.

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- GENERAL POWER NOTES**
- A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWING E001.
- B. CONTRACTOR SHALL PROVIDE COMPLETE AND ACCURATE CIRCUIT DIRECTORIES FOR ALL NEW AND EXISTING PANELS AFTER NEW WORK IS COMPLETED.
- C. CONTRACTOR SHALL COORDINATE ALL TELE/DATA REQUIREMENTS WITH OWNERS TELE/DATA VENDOR.
- D. PROVIDE A JUNCTION BOX AND PULL STRING FROM EACH CARD READER/ELECTRIC DOOR STRIKE TO SECURITY EQUIPMENT RACK IN IDF ROOM. PROVIDE FIRE ALARM CONTACT AT SECURITY EQUIPMENT RACK FOR CARD READERS/ELECTRIC DOOR TO RELEASE UPON GENERAL ALARM OF FIRE ALARM SYSTEM.
- E. FIRE ALARM SHALL BE OPERATIONAL AND MAINTAINED DURING ALL ASPECTS OF DEMOLITION AND NEW CONSTRUCTION.
- F. MAINTAIN THE CONTINUITY OF ALL EXISTING TO REMAIN OUTSIDE THE SCOPE OF WORK AREA.
- G. ALL ELECTRICAL OUTLETS AND JUNCTION BOXES SHALL BE STAGGERED WITHIN THE WALL TO AVOID SOUND TRANSMISSION.
- H. ALL NEW FIRE ALARM DEVICES TO BE CONNECTED TO EXISTING FIRE ALARM SYSTEM. PROVIDE NEW WIRING AND CONDUIT TO ALL NEW FIRE ALARM DEVICES. NEW DEVICES SHALL MATCH EXISTING SYSTEM DEVICES. PROVIDE NEW BATTERIES, STROBE SYNC MODULES, HARDWARE, SOFTWARE, ETC AT THE FIRE ALARM CONTROL PANEL NECESSARY TO SUPPORT NEW FIRE ALARM DEVICES.
- I. UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES ON THE SECOND FLOOR SHALL BE CIRCUITED TO PANEL L2A.

ELECTRICAL KEYNOTES	
P1	PROVIDE JUNCTION BOX FOR POWER AND LOW VOLTAGE FOR FURNITURE SYSTEM.
P2	PROVIDE HOSPITAL GRADE WIRING AND DEVICES IN CLINICAL ROOM. (TYP.)
P3	TRENCH CONCRETE SUITABLE FOR 3/4" C FOR POWER AND 1-1/4" C FOR DATA. PROVIDE LEGRAND WIREMOLD RFBA 4-GANG FLOOR BOX MODEL NO. RFBA4R250G. COORDINATE FINAL LOCATION WITH OWNER FURNITURE.
P4	PROVIDE (1) 1" C WITH PULLSTRING FOR POWER AND (2) 1-1/4" C WITH PULLSTRING FOR LOW VOLTAGE DEVICES FOR FEED FROM FLOOR BOX TO TV CONNECTION.
P5	INDOOR UNIT ACC SHALL BE FED FROM OUTDOOR UNIT ACCU LOCATED ON THE ROOF.
P6	PROVIDE LEGRAND WIREMOLD FLUSH FURNITURE FEED POKE-THRU ASSEMBLY MODEL NO. 4FFATC15BK. COORDINATE FINAL LOCATION WITH OWNER FURNITURE.
P7	REFER TO SINGLE LINE DIAGRAM ON SHEET E002 FOR POWER TO ROOF TOP UNIT.
P8	POWER FOR SMOKE DAMPER.
P9	PROVIDE 200A DISCONNECT WITH SHUNT TRIP FOR POWER TO ELEVATOR #1. REFER TO SINGLE LINE DIAGRAM ON SHEET E002 FOR POWER AND CONDUIT SIZING TO ELEVATOR #1.
P10	PROVIDE 200A DISCONNECT WITH SHUNT TRIP FOR POWER TO ELEVATOR #2. POWER TO ELEVATOR #2 SHALL BE FED THROUGH EMERGENCY PANEL EP1.
P11	POWER FOR 533DV5 X RAY INSPECTION BAG SCANNER. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P12	PROVIDE (2) 20A DISCONNECTS FOR ELEVATOR CAB LIGHTS.
P13	DATA JACK FOR MICRO COMMUNICATION PANELS.
P14	POWER FOR AUTOMATIC DOOR OPERATOR.
P15	REMOVE EXISTING LIGHT FIXTURE AND POLE. POLE BASE EXISTING TO REMAIN. RECONNECT TO EXISTING CIRCUIT FOR NEW STREET POLE LIGHT FIXTURE.
P16	POWER FOR NEW STREET POLE LIGHT FIXTURE SHALL BE FED THROUGH PANEL L12.
P18	POWER FOR SMD600 PLUS ENHANCED WALK-THROUGH MULTI-ZONE METAL DETECTOR. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P19	PROVIDE 1-1/4" C STUBBED TO FLOOR BELOW.
P20	POWER TO LIGHTING CONTACTOR & TIME CLOCK. REFER TO SHEET DETAIL 1/E602 FOR MORE INFORMATION.
P21	POWER FOR DOOR HARDWARE. REFER TO SHEET DETAIL 2/E602 FOR GENERAL DOOR HARDWARE DETAIL. COORDINATE FINAL REQUIREMENTS WITH DOOR HARDWARE CONSULTANT.
P22	POWER FOR THERM HAND DRYER. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P23	SMOKE DETECTOR PROVIDED FOR SMOKE DAMPERS (TYP.).
P24	POWER FOR PUSH BUTTON. COORDINATE REQUIREMENTS WITH VENDOR.
P25	POWER FOR SINGLE HEAD BOLLARD EV CHARGING STATION, MODEL NO. CPHU1, CPMBX, CPCAP-B, CPCBX, CPCMK. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P26	POWER FOR DUAL HEAD BOLLARD EV CHARGING STATION, MODEL NO. CPHU2, CPMBX, CPCAP-B, CPCBX, CPCMK. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P27	JUNCTION BOX FOR ALERT BEACON DEVICE MOUNTED +48" AFF. COORDINATE FINAL REQUIREMENTS WITH LOW VOLTAGE CONSULTANT.
P28	INTERCONNECT DATA OUTLET AT 36" WITH TV. PROVIDE 1-1/4" EMPTY CONDUIT WITH PULL STRING.
P29	POWER FOR ILLUMINATED SIGN.
P30	PROVIDE LEGRAND WIREMOLD 4AT EVOLUTION SERIES POKE THRU DEVICES. COORDINATE FINAL LOCATION WITH OWNER FURNITURE.
P31	POWER FOR SWITCH POST. COORDINATE FINAL REQUIREMENTS WITH VENDOR.
P32	POWER FOR ELEVATOR SUMP PUMP. RELOCATE AS REQUIRED IN FIELD.
P33	REMOVE EXISTING LIGHT FIXTURE. POLE BASE EXISTING TO REMAIN. NEW SITE LIGHT POLE AS SPECIFIED.
P34	REMOVE EXISTING LIGHT FIXTURE AND POLE BASE. NEW SITE LIGHT POLE AND BASE AS SPECIFIED. EXTEND CONDUIT AT NEW CONCRETE BASES.
P35	RELOCATED IT RACK. REFER TO SHEET DETAIL 1/E004 FOR IT RACK ELEVATIONS.
P36	CONNECT 50% OF RECEPTACLES IN SYSTEM'S FURNITURE IN OFFICE SPACES TO BE CONTROLLED VIA OCCUPANCY SENSOR.

1 SECOND FLOOR POWER PLAN
1/4" = 1'-0"

CLIENT:
MONTGOMERY COUNTY

PROJECT TEAM
KIMLEY-HORN
620 W GERMANTOWN PIKE, SUITE 320
PLYMOUTH MEETINGS, PA 19462

WILLOW GROVE ANNEX

102 NORTH YORK ROAD
WILLOW GROVE, PA 19090

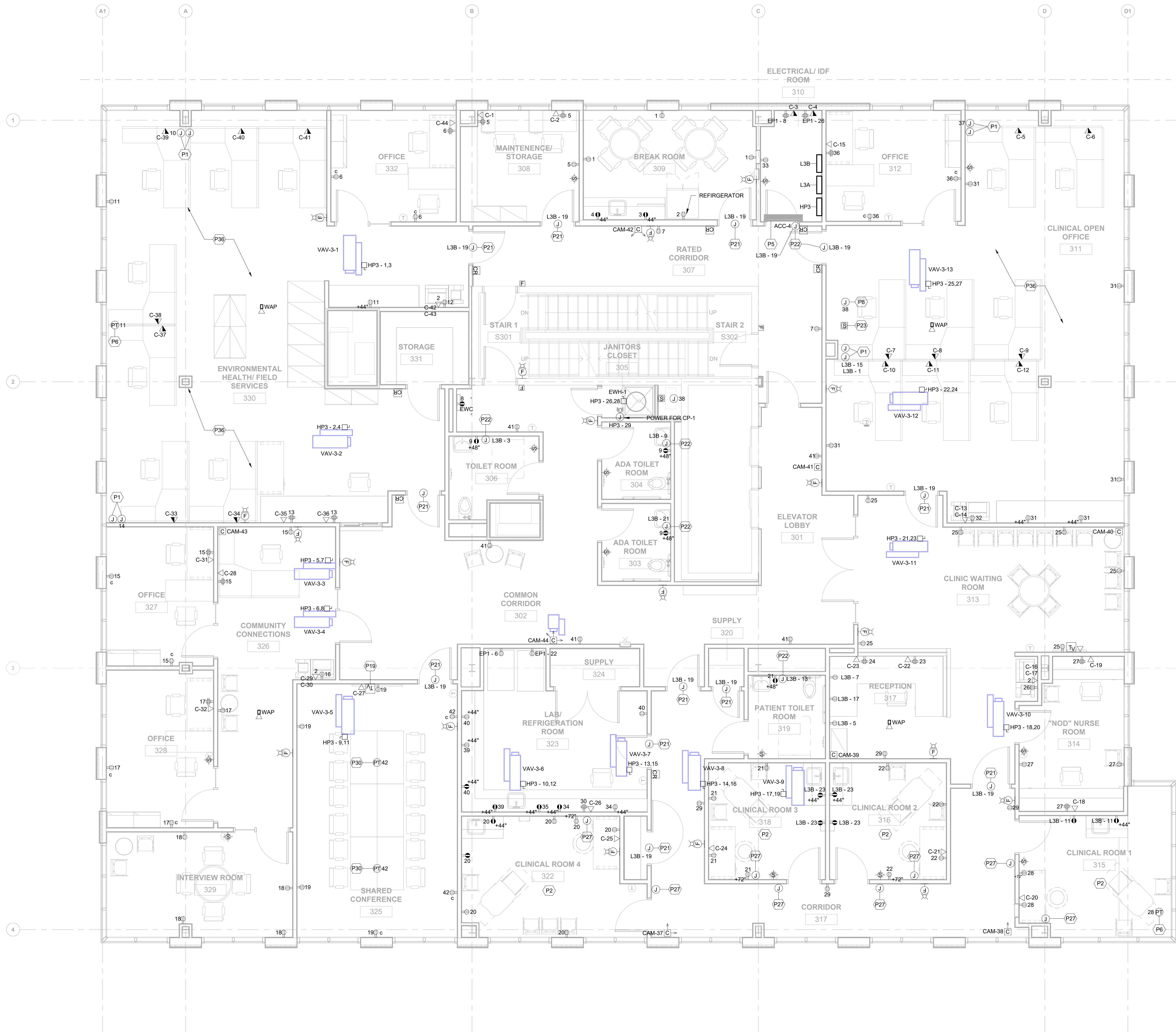
MONTGOMERY COUNTY

PROJECT
NORTH

REV	DATE	DESCRIPTION	ISSUE FOR BUD. JT
A	4/28/26 (6)		

PROJECT NUMBER: NPPH23-0136-00
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SHEET TITLE:
**SECOND FLOOR
POWER PLAN**

SHEET NUMBER:
E120



① THIRD FLOOR POWER PLAN
1/4" = 1'-0"

GENERAL POWER NOTES

- A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWING E001.
 - B. CONTRACTOR SHALL PROVIDE COMPLETE AND ACCURATE CIRCUIT DIRECTORIES FOR ALL NEW AND EXISTING PANELS AFTER NEW WORK IS COMPLETED.
 - C. CONTRACTOR SHALL COORDINATE ALL TELE/DATA REQUIREMENTS WITH OWNER'S TELE/DATA VENDOR.
 - D. PROVIDE A JUNCTION BOX AND PULL STRING FROM EACH CARD READER/ELECTRIC DOOR STRIKE TO SECURITY EQUIPMENT RACK IN 10' FROM FIRE ALARM CONTROL PANEL. PROVIDE A JUNCTION BOX AND PULL STRING FROM EACH CARD READER/ELECTRIC DOOR TO RELEASE UPON GENERAL ALARM OF FIRE ALARM SYSTEM.
 - E. FIRE ALARM SHALL BE OPERATIONAL AND MAINTAINED DURING ALL ASPECTS OF DEMOLITION AND NEW CONSTRUCTION.
 - F. MAINTAIN THE CONTINUITY OF ALL EXISTING TO REMAIN OUTSIDE THE SCOPE OF WORK AREA.
 - G. ALL ELECTRICAL OUTLETS AND JUNCTION BOXES SHALL BE STAGGERED WITHIN THE WALL TO AVOID SOUND TRANSMISSION.
 - H. ALL NEW FIRE ALARM DEVICES TO BE CONNECTED TO EXISTING FIRE ALARM SYSTEM. PROVIDE NEW WIRING AND CONDUIT TO ALL NEW FIRE ALARM DEVICES. NEW DEVICES SHALL MATCH EXISTING SYSTEM DEVICES. PROVIDE NEW BATTERIES, STROBE SYNC MODULES, HARDWARE, SOFTWARE ETC AT THE FIRE ALARM CONTROL PANEL. NECESSARY TO SUPPORT NEW FIRE ALARM SYSTEM.
- I. UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES ON THE THIRD SHALL BE CIRCUITED TO PANEL L3A.

ELECTRICAL KEYNOTES

- | | |
|-----|---|
| P1 | PROVIDE JUNCTION BOX FOR POWER AND LOW VOLTAGE FOR FURNITURE SYSTEM. |
| P2 | PROVIDE HOSPITAL GRADE WIRING AND DEVICES IN CLINICAL ROOM. (TYP.) |
| P3 | TRENCH CONCRETE SUITABLE FOR 3/4" FOR POWER AND 1-1/4" FOR DATA. PROVIDE LEGRAND WIREMOLD RFLB4-4 GANG FLOOR BOARDS. REBAR @ 24" ON CENTER. COORDINATE FINAL LOCATION WITH OWNER FURNITURE. |
| P4 | PROVIDE (1) 1" VC WITH PULLSTING FOR POWER AND (2) 1-1/4" VC WITH PULLSTING FOR LOW VOLTAGE DEVICES FOR FEED FROM FLOOR BOX TO TV CONNECTION. |
| P5 | INDOOR UNIT ACC SHALL BE FED FROM OUTDOOR UNIT ACCU LOCATED ON THE ROOF. |
| P6 | PROVIDE LEGRAND WIREMOLD FLUSH FURNITURE FEED POKE-THRU ASSEMBLY MODEL NO. 4FATC15BK. COORDINATE FINAL LOCATION WITH OWNER FURNITURE. |
| P7 | REFER TO SINGLE LINE DIAGRAM ON SHEET E002 FOR POWER TO ROOF TOP UNIT. |
| P8 | POWER FOR SMOKE DAMPER. |
| P9 | PROVIDE 200A DISCONNECT WITH SHUNT TRIP FOR POWER TO ELEVATOR #1. REFER TO SINGLE LINE DIAGRAM ON SHEET E002 FOR POWER AND CONDUIT SIZING TO ELEVATOR #1. |
| P10 | PROVIDE 200A DISCONNECT WITH SHUNT TRIP FOR POWER TO ELEVATOR #2. POWER TO ELEVATOR #2 SHALL BE FED THROUGH EMERGENCY PANEL E1P1. |
| P11 | POWER FOR 5530VS X-RAY INSPECTION BAG SCANNER |
| P12 | PROVIDE (2) 20A DISCONNECTS WITH EQUIPMENT VENDOR. |
| P13 | DATA JACK FOR MICRO COMMUNICATION PANTS. |
| P14 | POWER FOR AUTOMATIC DOOR OPERATOR. |
| P15 | PROVIDE EXISTING LIGHT FIXTURE AND POLE. POLE BASE EXISTING TO REMAIN. RECONNECT TO EXISTING CIRCUIT FOR NEW STREET POLE LIGHT FIXTURE. |
| P16 | FOR NEW STREET POLE LIGHT FIXTURE SHALL BE FED THROUGH PANEL L12. |
| P17 | POWER FOR SMD600 PLUS ENHANCED WALK-THROUGH MULTI-ZONE METAL DETECTOR. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR. |
| P18 | POWER 1-1/4" STUBBED TO FLOOR BELOW. |
| P19 | POWER TO LIGHTING CONTACTOR & TIME CLOCK. REFER TO SHEET DETAIL 1E002 FOR MORE DETAIL. |
| P20 | POWER FOR DOOR HARDWARE. REFER TO SHEET DETAIL 2E002 FOR GENERAL DOOR HARDWARE DETAIL. COORDINATE FINAL REQUIREMENTS WITH DOOR HARDWARE CONSULTANT. |
| P21 | POWER FOR THINNAIR HAND DRYER. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR. |
| P22 | SMOKE DETECTOR PROVIDED FOR SMOKE DAMPERS (TYP.). |
| P23 | POWER FOR PUSH BUTTON. COORDINATE REQUIREMENTS WITH VENDOR. |
| P24 | POWER FOR SINGLE HEAD BOLLARD EV CHARGING STATION, MODEL NO. CPB1H. CPB1H, CPB1C, CPB1D, CPB1K. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR. |
| P25 | POWER FOR DUAL HEAD BOLLARD EV CHARGING STATION, MODEL NO. CPB1Z. CPB1H, CPB1C, CPB1D, CPB1K, CPB1K. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR. |
| P26 | JUNCTION BOX FOR ALERT BEACON DEVICE MOUNTED +48" AFF. COORDINATE FINAL REQUIREMENTS WITH LOW VOLTAGE CONSULTANT. |
| P27 | INTERCONNECT DATA OUTLET AT 36" WITH TV. PROVIDE 1-1/4" EPMU CONDUIT WITH PULL STRING. |
| P28 | POWER FOR ILLUMINATED SIGN. |
| P29 | PROVIDE LEGRAND WIREMOLD 40' EVOLUTION SERIES POKE THRU DEVICES. COORDINATE FINAL LOCATION WITH OWNER FURNITURE. |
| P30 | POWER FOR SWITCH POST. COORDINATE FINAL REQUIREMENTS WITH VENDOR. |
| P31 | POWER FOR ELEVATOR PUMP PUMP. RELOCATE AS REQUIRED IN FIELD. |
| P32 | REMOVE EXISTING LIGHT FIXTURE. POLE BASE EXISTING TO REMAIN. NEW SITE LIGHT POLE AS SPECIFIED. |
| P33 | REMOVE EXISTING LIGHT FIXTURE AND POLE BASE. NEW SITE LIGHT POLE AND BASE AS SPECIFIED. EXTEND CONDUIT AT NEW CONDUIT BASES. |
| P34 | RELOCATED IT RACK. REFER TO SHEET DETAIL 1E004 FOR IT RACK ELEVATIONS. |
| P35 | CONVERT 50% OF RECEPTACLES IN SYSTEMS FURNITURE IN OFFICE SPACES TO BE CONTROLLED VIA OCCUPANCY SENSOR. |



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D

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MONTGOMERY COUNTY

PROJECT TEAM

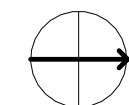
KIMLEY-HORN
620 W GERMANTOWN PIKE, SUITE 320
PLYMOUTH MEETING, PA 19462

C

WILLOW GROVE ANNEX

102 NORTH YORK ROAD
WILLOW GROVE PA 19090

MONTGOMERY COUNTY



PROJECT
NORTH

[illegible]

PROJECT NUMBER: **NPPH23-0136-00**
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SHEET TITLE:

**THIRD FLOOR
POWER PLAN**

SHEET NUMBER

E130



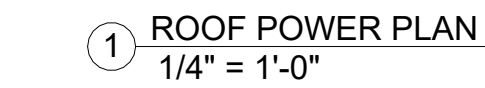
- A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWING E001.
- B. CONTRACTOR SHALL PROVIDE COMPLETE AND ACCURATE CIRCUIT DIRECTORIES FOR ALL NEW AND EXISTING PANELS AFTER NEW WORK IS COMPLETED.
- C. CONTRACTOR SHALL COORDINATE ALL TELE/ DATA REQUIREMENTS WITH OWNER'S TELE/ DATA VENDOR.
- D. PROVIDE A JUNCTION BOX AND PULL STRING FROM EACH CARD READER/ELECTRIC DOOR STRIKE TO SECURITY EQUIPMENT RACK IN IDF ROOM. PROVIDE FIRE ALARM CONTACT AT SECURITY EQUIPMENT RACK OF CARD READERS/ELECTRIC DOOR TO RELEASE UPON GENERAL ALARM OF FIRE ALARM SYSTEM.
- E. FIRE ALARM SHALL BE OPERATIONAL AND MAINTAINED DURING ALL ASPECTS OF DEMOLITION AND NEW CONSTRUCTION.
- F. MAINTAIN THE CONTINUITY OF THE ALARM EXISTING OUTSIDE THE SCOPE OF WORK AREA.
- G. ALL ELECTRICAL OUTLETS AND JUNCTION BOXES SHALL BE STAGGERED WITHIN THE WALL TO AVOID SOUND TRANSMISSION.
- H. ALL NEW FIRE ALARM DEVICES TO BE CONNECTED TO EXISTING FIRE ALARM SYSTEM. PROVIDE NEW WIRING AND CONDUIT TO ALL NEW FIRE ALARM DEVICES. PROVIDE NEW DEVICES SHALL MATCH EXISTING SYSTEM DEVICES. PROVIDE NEW BATTERIES, STROKE SYNC MODULES, HARDWARE, SOFTWARE AND CABLES TO CONTROL PANEL NECESSARY TO SUPPORT NEW FIRE ALARM DEVICES.
- I. UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES ON THE FOURTH FLOOR AND ROOF SHALL BE CIRCUITED TO PANEL 14A.

ELECTRICAL KEYNOTES	
P1	PROVIDE JUNCTION BOX FOR POWER AND LOW VOLTAGE FOR FURNITURE SYSTEM
P2	PROVIDE HOSPITAL GRADE WIRING AND DEVICES IN CLINICAL ROOM. (TYP.)
P3	TRENCH CONCRETE SUITABLE FOR 3/4" FOR POWER AND 1-1/4" FOR LOW VOLTAGE. PROVIDE 1/2" RAMP AND 1/2" REBAR 4-AGANG FLOOR BOX. MODEL NO. RFBAR200S. COORDINATE FINAL LOCATION WITH OWNER FURNITURE.
P4	PROVIDE (1) 1/4" WITH PULLSTRING FOR POWER AND (2) 1-1/4" WITH PULLSTRING FOR LOW VOLTAGE DEVICES FOR FEED FROM FLOOR BOX TO TV CONNECTION.
P5	INDOOR UNIT ACC SHALL BE FEED FROM OUTDOOR UNIT ACC LOCATED ON THE ROOF.
P6	PROVIDE LEGRAND WIREDMOLD PLUS FLUSH FURNITURE FEED POKE-THRU ASSEMBLY MODEL NO. 4FFACT15BK. COORDINATE FINAL LOCATION WITH OWNER FURNITURE.
P7	PROVIDE SINGLE LINE DIAGRAM ON SHEET E002 FOR POWER TO ROOF TOP UNIT.
P8	POWER FOR SMOKE DAMPER.
P9	PROVIDE #200A DISCONNECT WITH SHUNT TRIP FOR POWER TO ELEVATOR #1. REFER TO SINGLE LINE DIAGRAM ON SHEET E002 FOR POWER AND CONDUIT SIZING TO ELEVATOR #1.
P10	PROVIDE #200A DISCONNECT WITH SHUNT TRIP FOR POWER TO ELEVATOR #2. POWER TO ELEVATOR #2 SHALL BE FEED THROUGH EMERGENCY PANEL E01.
P11	POWER FOR 1530VDC X-RAY INSPECTION BAG SCANNER. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P12	PROVIDE (2) 20A DISCONNECTS FOR ELEVATOR CAB LIGHTS.
P13	DATA JACK FOR MICRO COMMUNICATION PANELS.
P14	POWER FOR MICRO COMMUNICATION PANELS.
P15	REMOVE EXISTING LIGHT FIXTURE AND POLE. POLE BASE EXISTING TO REMAIN. RECONNECT TO EXISTING CIRCUIT FOR NEW STREET POLE LIGHT FIXTURE.
P16	POWER FROM NEW STREET POLE LIGHT FIXTURE SHALL BE FEED THROUGH PANEL L12.
P18	POWER FOR SMD600 PLUS ENHANCED WALK-THROUGH MULTI-ZONE SMOKE DETECTOR. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P19	PROVIDE 1-1/4" STUBBED TO FLOOR BELOW.
P20	POWER TO LIGHTING CONTACTOR & TIME CLOCK. REFER TO SHEET E001, LEGEND MORE DETAIL.
P21	POWER FOR DOOR HARDWARE. REFER TO SHEET DETAIL 2/B602 FOR GENERAL DOOR HARDWARE DETAIL. COORDINATE FINAL REQUIREMENTS WITH DOOR HARDWARE CONSULTANT.
P22	POWER FOR THINAIR HAND DRYER. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P23	SMOKE DETECTOR PROVIDED FOR SMOKE DAMPERS (TYP.).
P24	POWER FOR PUSH BUTTON. COORDINATE REQUIREMENTS WITH VENDOR.
P25	POWER FOR SINGLE HEAD BOLLARD EV CHARGING STATION. MODEL NO. CPBHL, CPBXL, CPBAX, CPBAXL, CPBCK, CPBCKL. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P26	POWER FOR DUAL HEAD BOLLARD EV CHARGING STATION. MODEL NO. CPBHL, CPBXL, CPBAX, CPBAXL, CPBCK, CPBCKL. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P27	JUNCTION BOX FOR ALERT BEACON DEVICE MOUNTED +48" AFF. COORDINATE FINAL REQUIREMENTS WITH LOW VOLTAGE CONSULTANT.
P28	INTERCONNECT DATA OUTLET AT 36" WITH TV. PROVIDE 1-1/4" EMPTY CONDUIT WITH PULL STRING.
P29	POWER FOR ILLUMINATING SIGN.
P30	PROVIDE LEGRAND WIREDMOLD 447 EVOLUTION SERIES POKE THRU DEVICES. COORDINATE FINAL LOCATION WITH OWNER FURNITURE.
P31	POWER FOR SWITCH PANEL. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR.
P32	POWER FOR ELEVATOR SUMP PUMP. RELOCATE AS REQUIRED IN FIELD.
P33	REMOVE EXISTING LIGHT FIXTURE. POLE BASE EXISTING TO REMAIN. NEW SITE LIGHT POLE AS SPECIFIED.
P34	REMOVE EXISTING LIGHT FIXTURE AND POLE BASE. NEW SITE LIGHT POLE AND BASE AS SPECIFIED. EXTEND CONDUIT AT NEW CEMENT BASES.
P35	RELOCATED IR RACK. REFER TO SHEET DETAIL 1/E0004 FOR IR RACK ELEVATIONS.
P36	CONNECT 50% OF RECEPTACLES IN SYSTEM'S FURNITURE IN OFFICE COMPARTMENTS TO BE CONTROLLED W/ OCCUPANCY SENSOR.

[illegible]

**FOURTH FLOOR
POWER PLAN**

E140



ELECTRICAL KEYNOTES

- | | |
|-----|--|
| P1 | PROVIDE JUNCTION BOX FOR POWER AND LOW VOLTAGE FOR FURNITURE SYSTEM. |
| P2 | PROVIDE HOSPITAL GRADE WIRING AND DEVICES IN CLINICAL ROOM (TYP.) |
| P3 | TRENCH CONCRETE SUITABLE FOR 3/4" FOR POWER AND 1-1/4" FOR DATA. PROVIDE LEGRAND WIREMOLD RFB4 4-GANG FLOOR BOX MODEL NO. RFB4R425G. COORDINATE FINAL LOCATION WITH OWNER FURNITURE. |
| P4 | PROVIDE (1) "C" WITH PULLSTRIKER FOR POWER AND (2) 1-1/4" WITH PULLSTRIKER FOR LOW VOLTAGE DEVICES FOR FEED FROM FLOOR BOX TO TV CONNECTION. |
| P5 | INDOOR UNIT ACC SHALL BE FEED FROM OUTDOOR UNIT ACCU FEED FROM REAR EXTERIOR WALL. |
| P6 | PROVIDE LEGRAND WIREMOLD FLUSH FURNITURE FEED POLE THRU ASSEMBLY MODEL NO. 4FFATC15BK. COORDINATE FINAL LOCATION WITH OWNER FURNITURE. |
| P7 | REFER TO SINGLE LINE DIAGRAM ON SHEET E002 FOR POWER TO ROOF TOP UNIT. |
| P8 | POWER FOR SMOKE DAMPER. |
| P9 | PROVIDE 200A DISCONNECT WITH SHUNT TRIP FOR POWER TO ELEVATOR #1. REFER TO SINGLE LINE DIAGRAM ON SHEET E002 FOR POWER AND CONDUIT SIZING TO ELEVATOR #1. |
| P10 | PROVIDE 200A DISCONNECT WITH SHUNT TRIP FOR POWER TO ELEVATOR #2. REFER TO ELEVATOR #2 SCHEDULED POWER FEED THROUGH EMERGENCY PANEL EP1. |
| P11 | POWER FOR 533DV30-XY INSPECTION BAG SCANNER. COORDINATE WITH RECTOR HARDWARE CONSULTANT. |
| P12 | PROVIDE (2) 20A DISCONNECTS FOR ELEVATOR CAB LIGHTS. |
| P13 | DATA JACK FOR MICRO COMMUNICATION PANELS. |
| P14 | POWER FOR AUTOMATIC DOOR OPERATOR. |
| P15 | REMOVE EXISTING LIGHT FIXTURE AND POLE. POLE BASE EXISTING TO REMAIN. RECONNECT TO EXISTING CIRCUIT FOR NEW STREET POLE LIGHT FIXTURE. |
| P16 | POWER FOR NEW STREET POLE LIGHT FIXTURE SHALL BE FEED THROUGH PANEL L12. |
| P17 | POWER FOR SMD600 PLUS ENHANCED WALK-THROUGH MULTI-ZONE DETECTOR. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR. |
| P18 | PROVIDE 1-1/4" STUBBED TO FLOOR BELOW. |
| P20 | POWER TO LIGHTING CONTACTOR & TIME CLOCK. REFER TO SHEET E001. 1/600A FOR LIGHTING EQUIPMENT. |
| P21 | POWER FOR RECTOR HARDWARE. REFERENCE SEE DETAIL 2/6002 FOR GENERAL DOR HARDWARE DETAIL. COORDINATE FINAL REQUIREMENTS WITH RECTOR HARDWARE CONSULTANT. |
| P22 | POWER FOR THINAIR HAND DRYER. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR. |
| P23 | SMOKE DETECTOR PROVIDED FOR SMOKE DAMPERS (TYP.). |
| P24 | POWER FOR PUSH BUTTON. COORDINATE REQUIREMENTS WITH VENDOR. |
| P25 | POWER FOR SINGLE HEAD BOLLARD EV CHARGING STATION. MODEL NO. CHPL1L. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR. |
| P26 | POWER FOR DUAL HEAD BOLLARD EV CHARGING STATION. MODEL NO. CHPL2L. CPMBX. CPACAP-B. CPDGB. CP0AK. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT VENDOR. |
| P27 | JUNCTION BOX FOR ALERT BEACON DEVICE MOUNTED +48" AFF. COORDINATE FINAL REQUIREMENTS WITH LOW VOLTAGE CONSULTANT. |
| P28 | INTERCONNECT DATA OUTLET AT 36" WITH TV. PROVIDE 1-1/4" EMPTY CONDUIT WITH PULL STRING. |
| P29 | POWER FOR ILLUMINATION. |
| P30 | PROVIDE LEGRAND WIREMOLD 404 EVOLUTION SERIES POLE THRU DEVICES. COORDINATE FINAL LOCATION WITH OWNER FURNITURE. |
| P31 | POWER FOR SWITCH POST. COORDINATE FINAL REQUIREMENTS WITH VENDOR. |
| P32 | POWER FOR ELEVATOR SUMP PUMP. RELOCATE AS REQUIRED IN FIELD. |
| P33 | REMOVE EXISTING LIGHT FIXTURE. POLE BASE EXISTING TO REMAIN. NEW SITE LIGHT POLE AS SPECIFIED. |
| P34 | REMOVE EXISTING LIGHT FIXTURE AND POLE BASE. NEW SITE LIGHT POLE AND BASE AS SPECIFIED. EXTEND CONDUIT AT NEW CONCRETE BASES. |
| P35 | RELOCATE IR RACK. REFER TO SHEET DETAIL 1/6004 FOR IR RACK ELEVATIONS. |
| P36 | COORDINATE 50% OF RECEPTACLES IN SYSTEMS FURNITURE IN OFFICE SPACES TO BE CONTROLLED VIA OCCUPANCY SENSOR. |

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C

WILLOW GROVE ANNEX

102 NORTH YORK ROAD
WILLOW GROVE, PA 19090

MONTGOMERY COUNTY

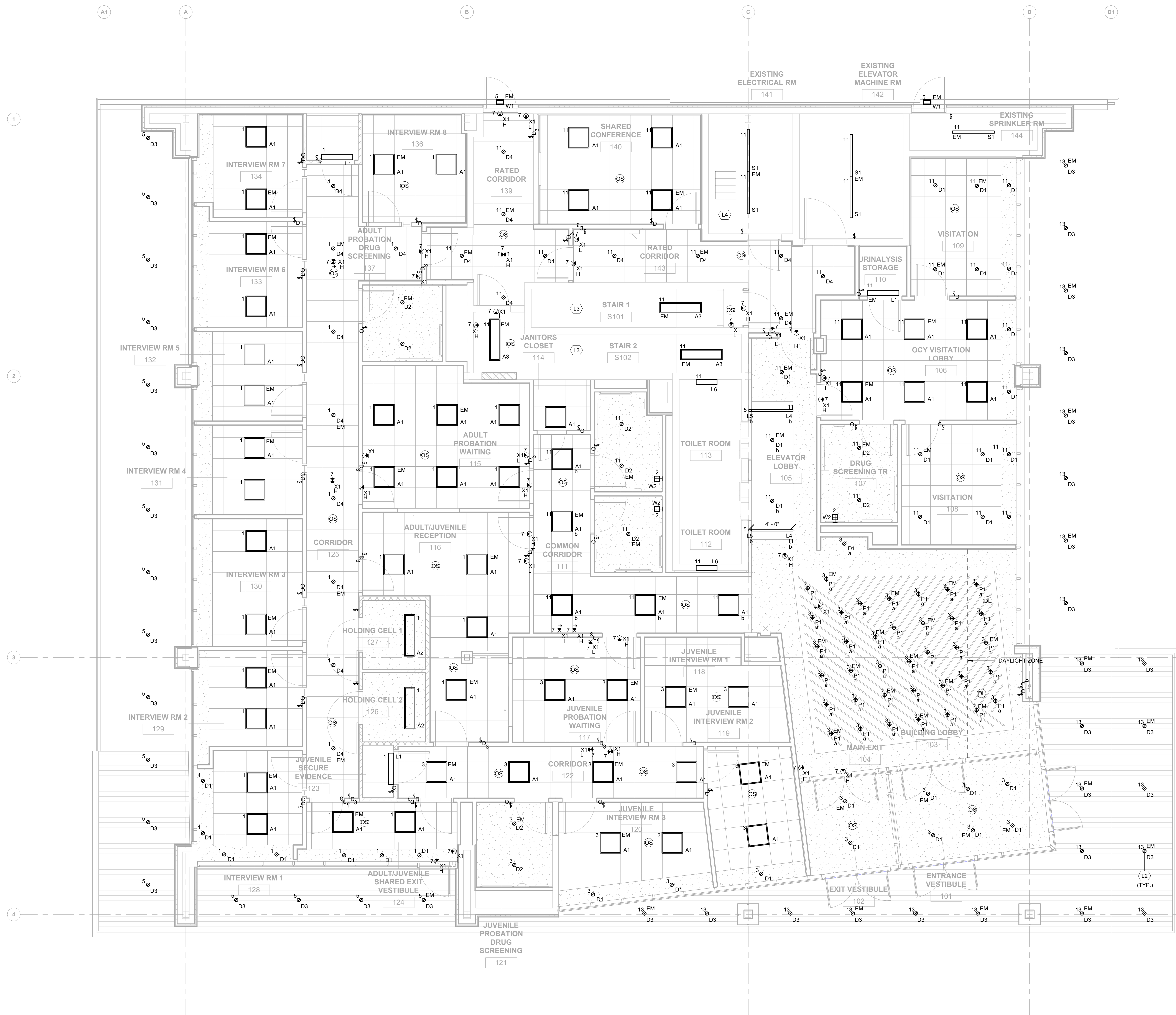
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PROJECT NUMBER: **NPPH23-0136-00**
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SHEET TITLE:
**ROOF POWER
PLAN**

SHEET NUMBER:

E150



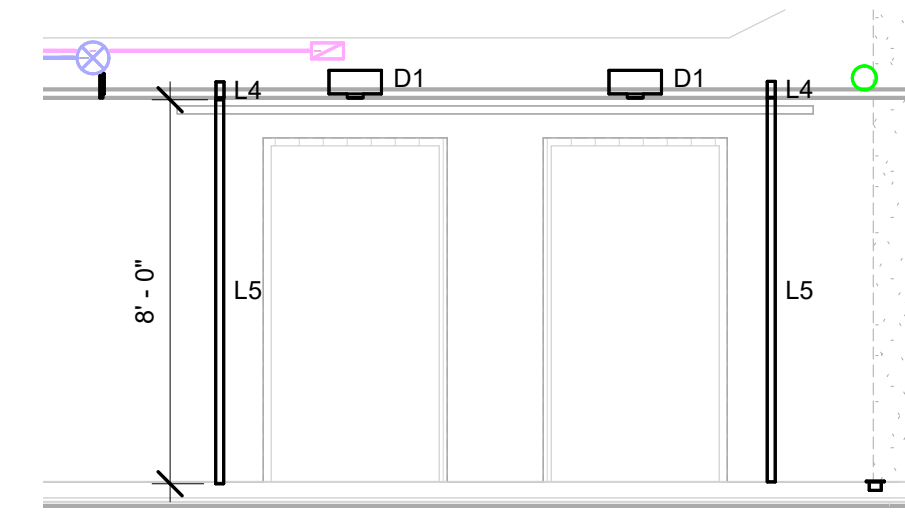
① FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

GENERAL LIGHTING NOTES

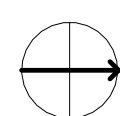
- A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWING E001.
- B. FOR LIGHTING FIXTURE DESCRIPTIONS, REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E001.
- C. FOR ACTUAL LOCATION OF CEILING MOUNTED LIGHTING FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING DRAWINGS). FOR ACTUAL LOCATION OF WALL MOUNTED LIGHTING FIXTURES AND TASK LIGHTING, REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS.
- D. UNLESS OTHERWISE INDICATED CONNECT ALL NORMAL POWER LIGHTING FIXTURES ON THIS DRAWING TO PANEL L12 ON THE FIRST FLOOR.
- E. CONNECT EXIT SIGNS, EMERGENCY BATTERY UNITS AND EMERGENCY LIGHTING BALLAST UNITS TO THE UNSWITCHED SIDE OF LOCAL, EMERGENCY LIGHTING CIRCUIT OR IF NOT INDICATED, TO MONITOR AC CIRCUIT AND FOR CONTINUOUS BATTERY CHARGING.
- F. ALL LIGHTING FIXTURES WITHIN A SPACE SHALL BE CONTROLLED BY INDICATED SWITCH AND/OR SENSOR WITHIN THAT SPACE.
- G. THE TOTAL CONNECTED LOAD SHALL NOT EXCEED 1600 WATTS FOR A 20A, 120V CIRCUIT OR 3600W FOR A 20A, 277V CIRCUIT.
- H. UNLESS OTHERWISE INDICATED, CONNECT LIGHT FIXTURES TO PANEL L12.

LIGHTING KEYNOTES

- | | |
|----|--|
| L1 | PROVIDE HOSPITAL GRADE WIRING AND DEVICES IN CLINICAL ROOM. (TV) |
| L2 | ALL EXTERIOR LIGHTING SHALL BE FED THROUGH LIGHTING CONTACTOR LOCATED IN LEVEL 1 ELECTRICAL ROOM. REFER TO SHEET DETAIL 1/6E02 FOR MORE INFORMATION. |
| L3 | FOR LIGHT FIXTURES LOCATED AT THE STAIRS, DIM LIGHTS TO 50% WHEN UNOCCUPIED. |
| L4 | PROVIDE FOUR (4) UNITS OF 125W INVERTER, MODEL NO. IIS 125 HE CG MOUNTED IN CEILING AS SHOWN. CONNECT TO LIGHT FIXTURES WITHOUT AN EMERGENCY DRIVER PER FLOOR. |



② LEVEL 1, 2, & 3 ELEVATOR LOBBY SECTION VIEW
1/4" = 1'-0"

[illegible]



A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWING E001

B. FOR LIGHTING FIXTURE DESCRIPTIONS, REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E601.

C. FOR ACTUAL LOCATION OF CEILING MOUNTED LIGHTING FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING DRAWING(S). FOR ACTUAL LOCATION OF WALL MOUNTED LIGHTING FIXTURES AND TASK LIGHTING, REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS.

D. UNLESS OTHERWISE INDICATED CONNECT ALL NORMAL POWER LIGHTING FIXTURES ON THIS DRAWING TO PANEL L2B ON THE SECOND FLOOR.

E. CONNECT EXIT SIGNS, EMERGENCY BATTERY UNITS AND EMERGENCY BATTERY BALLAST UNITS TO THE UNSWITCHED SIDE OF LOCAL EMERGENC LIGHTING CIRCUIT OR CIRCUIT INDICATED, TO MONITOR AC CIRCUIT AND FOR OUTSTANDING CHARGING.

F. ALL LIGHTING FIXTURES WITHIN A SPACE SHALL BE CONTROLLED BY INDICATED SWITCH AND/OR SENSOR WITHIN THAT SPACE.

G. THE TOTAL CONNECTED LOAD SHALL NOT EXCEED 1600 WATTS FOR A 20A, 120V CIRCUIT OR 3600W FOR A 20A, 277V CIRCUIT.

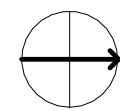
H. UNLESS OTHERWISE INDICATED, CONNECT LIGHT FIXTURES TO PANEL L2B.

LIGHTING KEYNOTES	
L1	PROVIDE HOSPITAL GRADE WIRING AND DEVICES IN CLINICAL ROOM. (TYP.)
L2	ALL EXTERIOR LIGHTING SHALL BE FED THROUGH LIGHTING CONTROLLER LOCATED IN LEVEL 1 ELECTRICAL ROOM. REFER TO SHEET DETAIL 1/E602 FOR MORE INFORMATION.
L3	FOR LIGHT FIXTURES LOCATED AT THE STAIRS, DIM LIGHTS TO 50% WHEN UNOCCUPIED.
L4	PROVIDE FOUR (4) UNITS OF 125W INVERTER, MODEL NO. IIS 125 HE CG MOUNTED IN CEILING AS SHOWN. CONNECT TO LIGHT FIXTURES WITHOUT AN EMERGENCY DRIVER PER FLOOR.

WILLOW GROVE ANNEX

102 NORTH YORK ROAD
WILLOW GROVE, PA 19090

MONTGOMERY COUNTY



PROJECT
NORTH

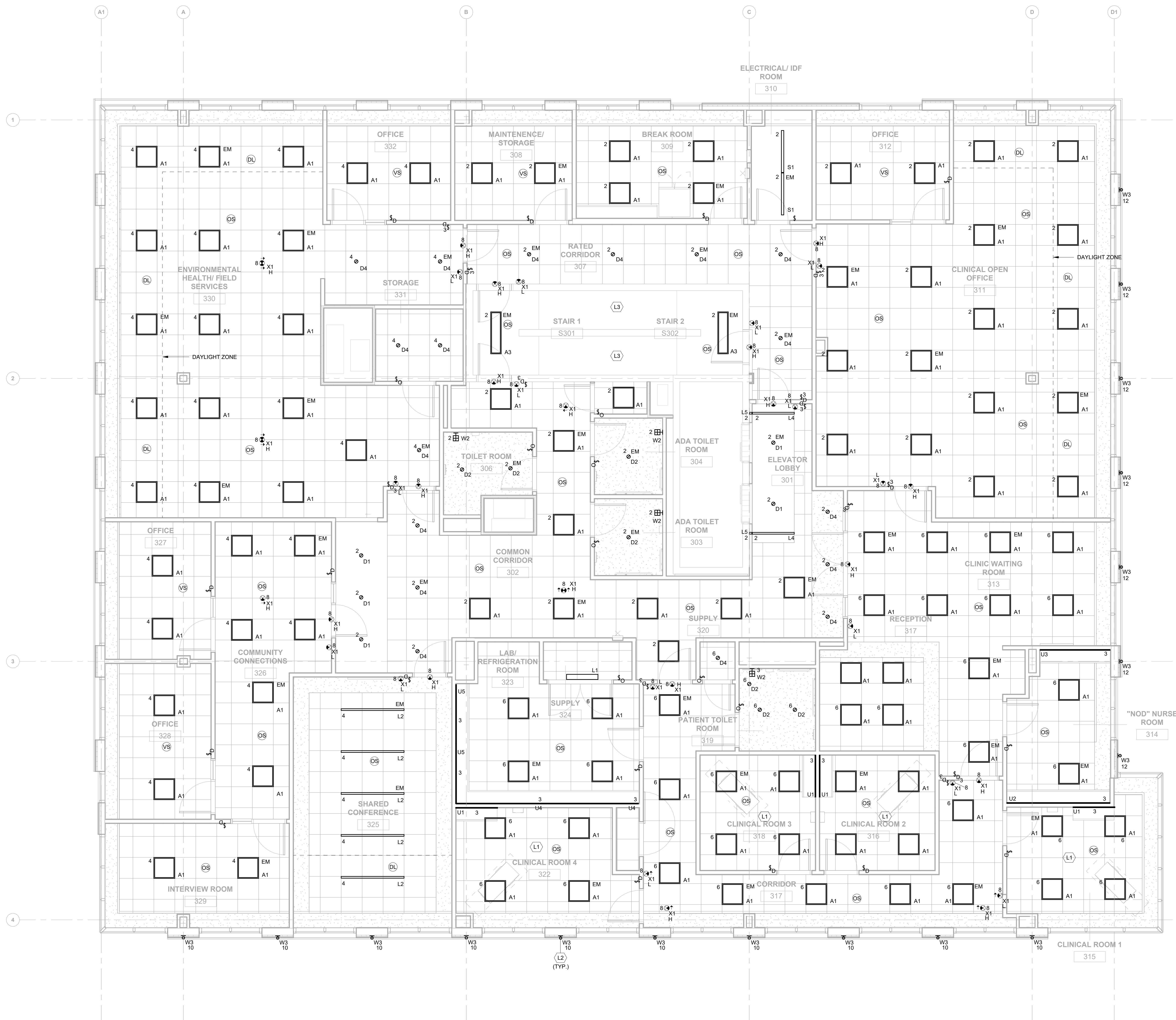
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PROJECT NUMBER: **NPPH23-0136-00**
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SHEET TITLE:
**SECOND FLOOR
LIGHTING PLAN**

SHEET NUMBER:

E220

[illegible]

1 THIRD FLOOR LIGHTING PLAN
1/4" = 1'-0"

GENERAL LIGHTING NOTES

A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWING E001.

B. FOR LIGHTING FIXTURE DESCRIPTIONS, REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E601.

C. FOR ACTUAL LOCATION OF CEILING MOUNTED LIGHTING FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING DRAWING(S). FOR ACTUAL LOCATION OF WALL MOUNTED LIGHTING FIXTURES AND TASK LIGHTING, REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS.

D. UNLESS OTHERWISE INDICATED CONNECT ALL NORMAL POWER LIGHTING FIXTURES ON THIS DRAWING TO PANEL L3B ON THE THIRD FLOOR.

E. CONNECT EXIT SIGNS, EMERGENCY BATTERY UNITS AND EMERGENCY BATTERY BALLAST UNITS TO THE UNSWITCHED SIDE OF LOCAL EMERGENCY LIGHTING CIRCUIT OR CIRCUIT INDICATED, TO MONITOR AC CIRCUIT AND FOR CONTINUOUS BATTERY CHARGING.

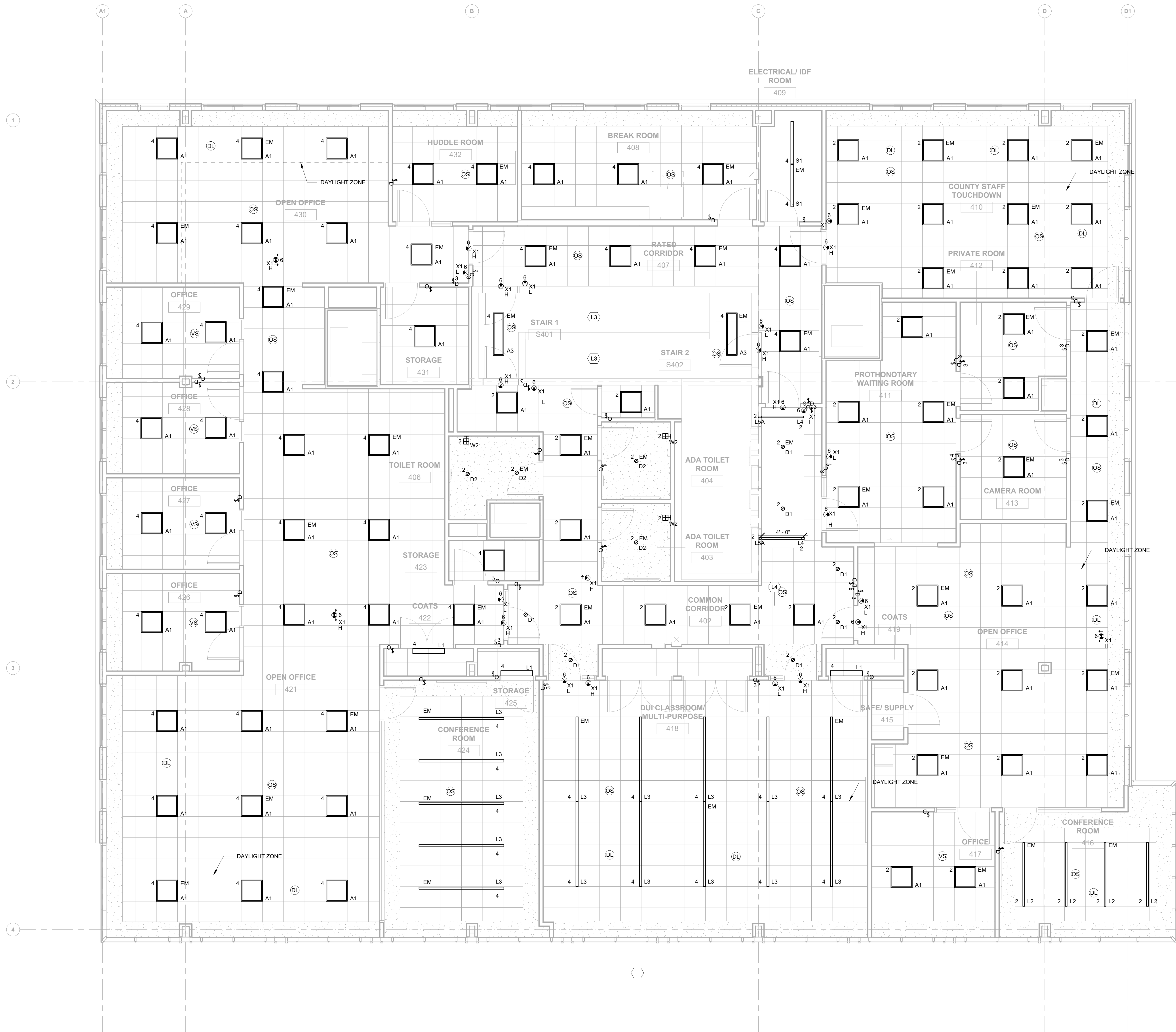
F. ALL LIGHTING FIXTURES WITHIN A SPACE SHALL BE CONTROLLED BY INDICATED SWITCH AND/OR SENSOR WITHIN THAT SPACE.

G. THE TOTAL CONNECTED LOAD SHALL NOT EXCEED 1600 WATTS FOR A 20A, 120V CIRCUIT OR 3600W FOR A 20A, 277V CIRCUIT.

H. UNLESS OTHERWISE INDICATED, CONNECT LIGHT FIXTURES TO PANEL L38.

LIGHTING KEYNOTES

L1	PROVIDE HOSPITAL GRADE WIRING AND DEVICES IN CLINICAL ROOM. (TYP.)
L2	ALL EXTERIOR LIGHTING SHALL BE FED THROUGH LIGHTING CONTACTOR LOCATED IN LEVEL 1 ELECTRICAL ROOM. REFER TO SHEET 111-11602 FOR MORE INFORMATION.
L3	FOR LIGHT FIXTURES LOCATED AT THE STAIRS, DIM LIGHTS TO 50% WHEN UNOCCUPIED.
L4	PROVIDE FOUR (4) UNITS OF 125W INVERTER, MODEL NO. IIS 125 HE CG MOUNTED IN CEILING AS SHOWN. CONNECT TO LIGHT FIXTURES WITHOUT AN EMERGENCY BATTERY REEFER FLOOR.



① FOURTH FLOOR LIGHTING PLAN
1/4" = 1'-0"

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D

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GENERAL LIGHTING NOTES

A. FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, REFER TO DRAWING E001.

B. FOR LIGHTING FIXTURE DESCRIPTIONS, REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E601.

C. FOR ACTUAL LOCATION OF CEILING MOUNTED LIGHTING FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING DRAWING(S). FOR ACTUAL LOCATION OF WALL MOUNTED LIGHTING FIXTURES AND TASK LIGHTING, REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS.

D. UNLESS OTHERWISE INDICATED CONNECT ALL NORMAL POWER LIGHTING FIXTURES ON THIS DRAWING TO PANEL L4B.

E. CONNECT EXIT SIGNS, EMERGENCY BATTERY UNITS AND EMERGENCY BATTERY BALLAST UNITS TO THE UNSWITCHED SIDE OF LOCAL EMERGENCY LIGHTING CIRCUIT OR CIRCUIT INDICATED, TO MONITOR AC CIRCUIT AND FOR CONTINUOUS BATTERY CHARGING.

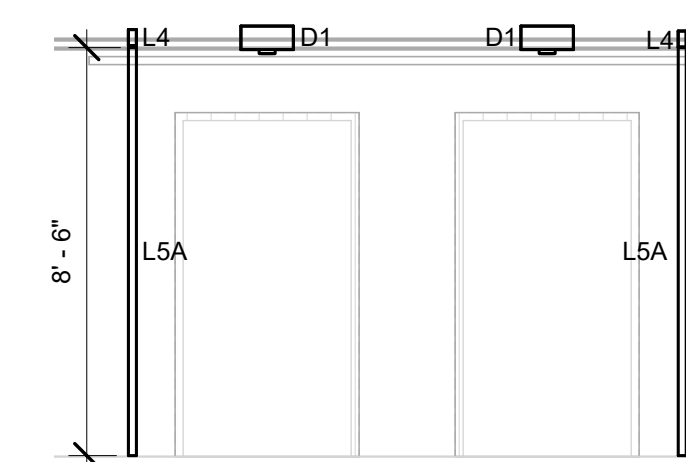
F. ALL LIGHTING FIXTURES WITHIN A SPACE SHALL BE CONTROLLED BY INDICATED SWITCH AND/OR SENSOR WITHIN THAT SPACE.

G. THE TOTAL CONNECTED LOAD SHALL NOT EXCEED 1600 WATTS FOR A 20A, 120V CIRCUIT OR 3600W FOR A 20A, 277V CIRCUIT.

H. UNLESS OTHERWISE INDICATED, CONNECT LIGHT FIXTURES TO PANEL L4B.

LIGHTING KEYNOTES

L1	PROVIDE HOSPITAL GRADE WIRING AND DEVICES IN CLINICAL ROOM. (TYP.)
L2	ALL EXTERIOR LIGHTING SHALL BE FED THROUGH LIGHTING CONTROL FACTOR LOCATED IN LEVEL 1 ELECTRICAL ROOM. REFER TO SHEET 101.1E602 FOR WIRE INFORMATION.
L3	FOR LIGHT FIXTURES LOCATED AT THE STAIRS, DIM LIGHTS TO 50% WHEN UNOCCUPIED.
L4	PROVIDE FOUR (4) UNITS OF 125W INVERTER, MODEL NO. IIS 125 HE CG MOUNTED IN CEILING AS SHOWN. CONNECT TO LIGHT FIXTURES WITHOUT AN EMERGENCY DRIVER PER FLOOR.

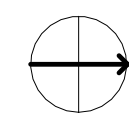


② LEVEL 4 ELEVATOR LOBBY SECTION VIEW
1/4" = 1'-0"

WILLOW GROVE ANNEX

102 NORTH YORK ROAD
WILLOW GROVE, PA 19090

MONTGOMERY COUNTY



PROJECT
NORTH

[illegible]

PROJECT NUMBER: **NPPH23-0136-00**
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SHEET TITLE:

FOURTH FLOOR LIGHTING PLAN

SHEET NUMBER:

E240

A

Branch Panel: L3A

Location: Electrical/IDF Rm. 310

Supply From:

Encounting: Surface

Enclosure: Type 1

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating:

Mains Type: MLO

MCB Rating: 100 A

Bus Rating: 125 A

Neutral Rating: Rm.

Feed Thru...

I.G. Bus:

CKT	Circuit Description	Rating	Pole	Wire Size	A	B	C	Wire Size	Pole	Rating	Circuit Description	CKT	
1	RECEPTS - 309	20 A	1	1#12, 1#12, 1#12	0.5 KVA	0.2 KVA		1#12, 1#12, 1#12	1	20 A	RECEPTS - 309 REFRIG.	2	
3	RECEPTS - 309	20 A	1	1#12, 1#12, 1#12		0.2 KVA	0.2 KVA	1#12, 1#12, 1#12	1	20 A	RECEPTS - 309	4	
5	RECEPTS - 308	20 A	1	1#12, 1#12, 1#12			0.9 KVA	0.7 KVA	1#12, 1#12, 1#12	1	20 A	RECEPTS - 332	6
7	RECEPTS - 307	20 A	1	1#12, 1#12, 1#12	0.4 KVA	0.2 KVA		1#12, 1#12, 1#12	1	20 A	EWG - 302	8	
9	RECEPTS - 303, 304, 305, 306	20 A	1	1#12, 1#12, 1#12		0.5 KVA	0.5 KVA	1#12, 1#12, 1#12	1	20 A	MODULAR FURNITURE - 330	10	
11	RECEPTS - 330	20 A	1	1#12, 1#12, 1#12			0.7 KVA	0.5 KVA	1#12, 1#12, 1#12	1	20 A	PRINTER - 330	12
13	RECEPTS - 330	20 A	1	1#12, 1#12, 1#12	0.7 KVA	0.4 KVA		1#12, 1#12, 1#12	1	20 A	MODULAR FURNITURE - 330	14	
15	RECEPTS - 326, 327	20 A	1	1#12, 1#12, 1#12		1.3 KVA	0.5 KVA	1#12, 1#12, 1#12	1	20 A	PRINTER - 326	16	
17	RECEPTS - 326, 328	20 A	1	1#12, 1#12, 1#12			0.9 KVA	0.7 KVA	1#12, 1#12, 1#12	1	20 A	RECEPTS - 329	18
19	RECEPTS - 325	20 A	1	1#12, 1#12, 1#12	0.7 KVA	1.3 KVA		1#12, 1#12, 1#12	1	20 A	RECEPTS - 322	20	
21	RECEPTS - 318, 319	20 A	1	1#12, 1#12, 1#12		0.9 KVA	0.7 KVA	1#12, 1#12, 1#12	1	20 A	RECEPTS - 316	22	
23	RECEPTS - 317	20 A	1	1#12, 1#12, 1#12			0.4 KVA	0.4 KVA	1#12, 1#12, 1#12	1	20 A	RECEPTS - 317	24
25	RECEPTS - 313	20 A	1	1#12, 1#12, 1#12	1.1 KVA	0.5 KVA		1#12, 1#12, 1#12	1	20 A	PRINTER - 313	26	
27	RECEPTS - 314	20 A	1	1#12, 1#12, 1#12		1.1 KVA	0.5 KVA	1#12, 1#12, 1#12	1	20 A	RECEPTS - 315	28	
29	RECEPTS - 317	20 A	1	1#12, 1#12, 1#12			0.9 KVA	0.4 KVA	1#12, 1#12, 1#12	1	20 A	RECEPTS - 323	30
31	RECEPTS - 311	20 A	1	1#12, 1#12, 1#12	1.1 KVA	0.2 KVA		1#12, 1#12, 1#12	1	20 A	PRINTER - 311	32	
33	RECEPTS - 310	20 A	1	1#12, 1#12, 1#12		0.2 KVA	0.4 KVA	1#12, 1#12, 1#12	1	20 A	RECEPTS - 323	34	
35	RECEPTS - 302	20 A	1	1#12, 1#12, 1#12			0.2 KVA	0.7 KVA	1#12, 1#12, 1#12	1	20 A	RECEPTS - 312	36
37	JBOXES - 311	20 A	1	1#12, 1#12, 1#12	0.4 KVA	0.1 KVA		1#12, 1#12, 1#12	1	20 A	SMOKE DAMPERS	38	
39	RECEPTS - 323	20 A	1	1#12, 1#12, 1#12		0.4 KVA	0.5 KVA	1#12, 1#12, 1#12	1	20 A	RECEPTS - 323	40	
41	RECEPTS - 302	20 A	1	1#12, 1#12, 1#12			0.9 KVA	0.4 KVA	1#12, 1#12, 1#12	1	20 A	RECEPTS - 325	42
Total Load:					7.62 KVA	7.9 KVA	9.5 KVA	8.6 KVA					
Panel Totals													
Total Conn. Load: 24.1 KVA													
Total Conn. Current: 67 A													

Notes:

- PROVIDE (1) SUB-METER TO MONITOR RECEPTACLE LOADS ON PANEL.

Branch Panel: L3B																					
Location: Electrical/IDF Rm. 310						Volts: 120/208 Wye						A.I.C. Rating:									
Supply From:						Phases: 3						Mains Type: MLO									
Mounting: Surface						Wires: 4						MCB Rating: 150 A									
Enclosure: Type 1												Bus Rating: 200 A									
CKT	Circuit Description				Rating	Pole	Wire Size		A	B	C	Wire Size	Pole	Rating	Circuit Description				CKT		
1	MODULAR FURNITURE - 311				20 A	1	1#12, 1#12, 1#12		0.9 KVA	1.6 KVA		1#12, 1#12, 1#12	1	20 A	LTS - 303-312				2		
3	HAND DRYER - 306				20 A	1	1#12, 1#12, 1#12			0.9 KVA	1.1 KVA	1#12, 1#12, 1#12	1	20 A	LTS - 325-332				4		
5	RECEPT - 317				20 A	1	1#12, 1#12, 1#12					0.2 KVA	1.5 KVA	1	20 A	LTS - 313-324				6	
7	RECEPT 317				20 A	1	1#12, 1#12, 1#12		0.2 KVA	0.2 KVA		1#12, 1#12, 1#12	1	20 A	EXIT SIGNS - LEVEL 3				8		
9	HAND DRYER - 304				20 A	1	1#12, 1#12, 1#12			0.9 KVA	0 KVA	1#12, 1#12, 1#12	1	20 A	EXTERIOR LTS - LEVEL 3				10		
11	RECEPS - 315				20 A	1	1#12, 1#12, 1#12					1#12, 1#12, 1#12	1	20 A	EXTERIOR LTS - LEVEL 3				12		
13	HAND DRYER - 319				20 A	1	1#12, 1#12, 1#12		0.9 KVA	0 KVA		--	1	20 A	SPARE				14		
15	MODULAR FURNITURE - 311				20 A	1	1#12, 1#12, 1#12			0.9 KVA	0 KVA	--	1	20 A	SPARE				16		
17	RECEPT - 317				20 A	1	1#12, 1#12, 1#12					0.2 KVA	0 KVA	--	1	20 A	SPARE				18
19	LEVEL 3 DOOR HARDWARE				20 A	1	1#12, 1#12, 1#12		0.6 KVA	0 KVA		--	1	20 A	SPARE				20		
21	HAND DRYER - 303				20 A	1	1#12, 1#12, 1#12			0.9 KVA	0 KVA	--	1	20 A	SPARE				22		
23	RECEPTS - 316, 318				20 A	1	1#12, 1#12, 1#12					0.7 KVA	0 KVA	--	1	20 A	SPARE				24
25	SPARE				20 A	1	--	0 KVA	--			--	1	--	SPACE				26		
27	SPARE				20 A	1	--	--	--	0 kVA	--	--	1	--	SPACE				28		
29	SPARE				20 A	1	--	--	--			0 KVA	--	--	SPACE				30		
31	SPARE				20 A	1	--	0 KVA	--			--	1	--	SPACE				32		
33	SPACE				--	1	--	--	--	--	--	--	1	--	SPACE				34		
35	SPACE				--	1	--	--	--	--	--	--	1	--	SPACE				36		
37	SPACE				--	1	--	--	--	--	--	--	1	--	SPACE				38		
39	SPACE				--	1	--	--	--	--	--	--	1	--	SPACE				40		
41	SPACE				--	1	--	--	--	--	--	--	1	--	SPACE				42		
Total Load:																					
									4.42 KVA	4.8 KVA	3.0 KVA										
Panel Totals																					
Total Conn. Load: 12.25 KVA																					
Total Conn. Current: 34 A																					
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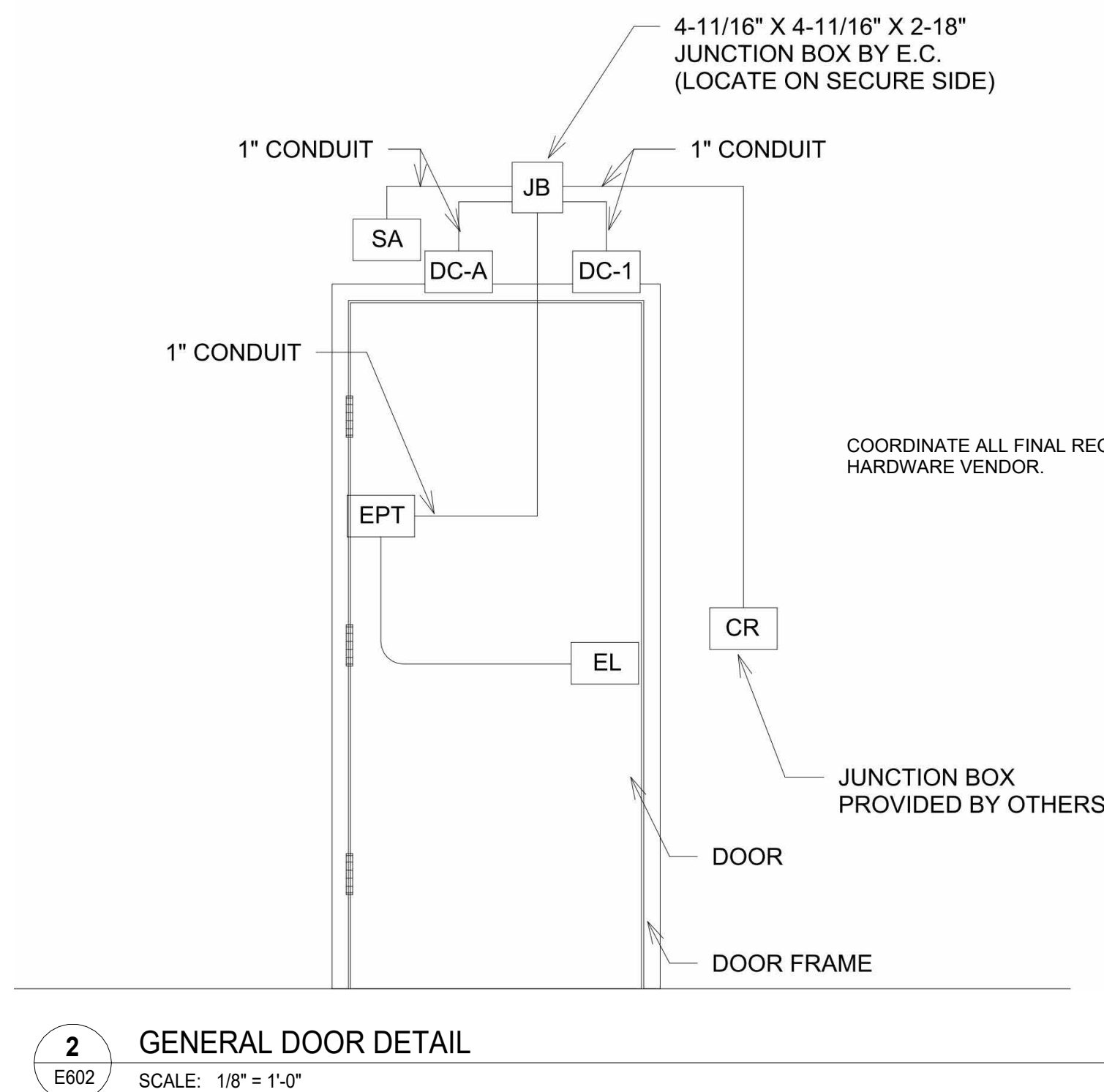
Branch Panel: L4A												
Location: Electrical/IDF Rm. 409				Volts: 120/208 Wye			A.I.C. Rating:			Neutral Rating:		
Supply From:				Phases: 3			Mains Type: MLO			Feed Thru...		
Mounting: Surface				Wires: 4			MCB Rating: 100 A			I.G. Bus:		
Enclosure: Type 1							Bus Rating: 125 A					
CKT	Circuit Description	Rating	Pole	Wire Size	A	B	C	Wire Size	Pole	Rating	Circuit Description	CKT
1	RECEPTS - 408	20 A	1	1-#12, 1-#12, 1-#12	0.7 kVA	0.2 kVA		1-#12, 1-#12, 1-#12	1	20 A	REFRIGERATOR - 408	2
3	RECEPT - 408	20 A	1	1-#12, 1-#12, 1-#12		0.2 kVA	0.2 kVA		1	20 A	RECEPT - 408	4
5	RECEPT - 408	20 A	1	1-#12, 1-#12, 1-#12			0.2 kVA	0.7 kVA	1	20 A	RECEPTS - 432	6
7	MODULAR FURNITURE - 430	20 A	1	1-#12, 1-#12, 1-#12	0.7 kVA	0.7 kVA		1-#12, 1-#12, 1-#12	1	20 A	RECEPTS - 428	8
9	RECEPTS - 426	20 A	1	1-#12, 1-#12, 1-#12		0.7 kVA	1.1 kVA	1-#12, 1-#12, 1-#12	1	20 A	RECEPTS - 407/430	10
11	PRINTER - 430	20 A	1	1-#12, 1-#12, 1-#12			0.5 kVA	0.4 kVA	1	20 A	MODULAR FURNITURE - 430	12
13	MODULAR FURNITURE - 430	20 A	1	1-#12, 1-#12, 1-#12	0.4 kVA	0.1 kVA		1-#12, 1-#12, 1-#12	1	20 A	SMOKE DAMPERS	14
15	RECEPTS - 421	20 A	1	1-#12, 1-#12, 1-#12		0.5 kVA	0.9 kVA	1-#12, 1-#12, 1-#12	1	20 A	RECEPTS - 424	16
17	RECEPTS/POKE-THRU - 418	20 A	1	1-#12, 1-#12, 1-#12			1.8 kVA	0.9 kVA	1	20 A	RECEPTS - 418	18
19	RECEPTS - 417	20 A	1	1-#12, 1-#12, 1-#12	0.7 kVA	0.2 kVA		1-#12, 1-#12, 1-#12	1	20 A	PRINTER - 414	20
21	RECEPTS - 416	20 A	1	1-#12, 1-#12, 1-#12		0.7 kVA	0.7 kVA	1-#12, 1-#12, 1-#12	1	20 A	MODULAR FURNITURE - 414	22
23	RECEPTS - 414	20 A	1	1-#12, 1-#12, 1-#12			0.7 kVA	0.2 kVA	1	20 A	PRINTER - 414	24
25	RECEPTS - 412	20 A	1	1-#12, 1-#12, 1-#12	0.7 kVA	1.3 kVA		1-#12, 1-#12, 1-#12	1	20 A	RECEPTS - 411	26
27	MODULAR FURNITURE - 410	20 A	1	1-#12, 1-#12, 1-#12		0.4 kVA	0.9 kVA	1-#12, 1-#12, 1-#12	1	20 A	RECEPTS - 410	28
29	MODULAR FURNITURE - 410	20 A	1	1-#12, 1-#12, 1-#12			0.4 kVA	0.2 kVA	1	20 A	EWG - 402	30
31	RECEPT - 409	20 A	1	1-#12, 1-#12, 1-#12	0.2 kVA	0.5 kVA		1-#12, 1-#12, 1-#12	1	20 A	RECEPTS - 401, 402	32
33	RECEPTS - 406	20 A	1	1-#12, 1-#12, 1-#12		0.5 kVA	0.7 kVA	1-#12, 1-#12, 1-#12	1	20 A	RECEPTS - 429	34
35	POKE THRU - 418	20 A	1	1-#12, 1-#12, 1-#12			3.1 kVA	0.5 kVA	1	20 A	RECEPT/POKE-THRU - 424	36
37	RECEPTS - 427	20 A	1	1-#12, 1-#12, 1-#12	0.7 kVA	0.7 kVA		1-#12, 1-#12, 1-#12	1	20 A	RECEPTS - ROOF	38
39	RECEPTS - ROOF	20 A	1	1-#12, 1-#12, 1-#12		0.4 kVA	0 kVA	--	1	20 A	SPARE	40
41	SPARE	20 A	1	--				--	1	20 A	SPARE	42
Total Load:					7.79 kVA	7.9 kVA	0 kVA	0 kVA	--	1	20 A	
							9.6 kVA					
Panel Totals												
Total Conn. Load: 25.29 kVA												
Total Conn. Current: 70 A												
Notes:												
- PROVIDE (1) SUB-METER TO MONITOR RECEPTACLE LOADS ON PANEL.												

Branch Panel: HP2														
Location: Electrical/IDF Rm. 210				Volts: 120/208 Wye		A.I.C. Rating:		Neutral Rating:						
Supply From:				Phases: 3		Mains Type: MLO		Feed Thru...						
Mounting: Surface				Wires: 4		MCB Rating: 225 A		I.G. Bus:						
Enclosure: Type 1						Bus Rating: 225 A								
CKT	Circuit Description	Rating	Pole	Wire Size	A	B	C	Wire Size	Pole	Rating	Circuit Description	CKT		
1	VAV-2-1	20 A	2	2-#12, 1-#12, 1-#12	1.5 kVA	1.5 kVA			2-#12, 1-#12, 1-#12	2	20 A	VAV-2-2	2	
3						1.5 kVA	1.5 kVA					4		
5	VAV-2-3	25 A	2	2-#10, 1-#10, 1-#10			2 kVA	2 kVA	2-#10, 1-#10, 1-#10	2	25 A	VAV-2-4	6	
7					2 kVA	2 kVA						8		
9	VAV-2-6	25 A	2	2-#10, 1-#10, 1-#10		2 kVA	2 kVA		2-#10, 1-#10, 1-#10	2	25 A	VAV-2-7	10	
11							2 kVA	2 kVA				12		
13	VAV-2-8	25 A	2	2-#10, 1-#10, 1-#10	2 kVA	1.5 kVA		2-#12, 1-#12, 1-#12	2	20 A	VAV-2-5	14		
15						2 kVA	1.5 kVA					16		
17	VAV-2-9	25 A	2	2-#10, 1-#10, 1-#10	2 kVA	2 kVA		2 kVA	2 kVA	2-#10, 1-#10, 1-#10	2	25 A	VAV-2-10	18
19							2 kVA	2 kVA				20		
21	VAV-2-11	25 A	2	2-#10, 1-#10, 1-#10		2 kVA	2 kVA		2-#10, 1-#10, 1-#10	2	25 A	VAV-2-12	22	
23												24		
25	EW-1 (LEVEL 2)	30 A	2	2-#10, 1-#10, 1-#10	2.3 kVA	0.7 kVA		1-#12, 1-#12, 1-#12	1	20 A	CP-1 (LEVEL 2)	26		
27							2.3 kVA	0 kVA		1	20 A	SPARE	28	
29	SPARE	20 A	1	--				0 kVA	0 kVA	--	1	20 A	SPARE	30
31	SPARE	20 A	1	--	0 kVA	0 kVA				--	1	20 A	SPARE	32
33	SPARE	20 A	1	--		0 kVA	--			1	--	SPACE	34	
35	SPACE	--	1	--				--	--	1	--	SPACE	36	
37	SPACE	--	1	--	--	--		--	--	1	--	SPACE	38	
39	SPACE	--	1	--		--	--			1	--	SPACE	40	
41	SPACE	--	1	--						1	--	SPACE	42	
Total Load:					17.45 kVA	16.8 kVA		16.0 kVA						
Panel Totals														
Total Conn. Load: 50.2 kVA														
Total Conn. Current: 139 A														
Notes:														
- PROVIDE (1) SUB-METER TO MONITOR MECHANICAL EQUIPMENT LOADS ON PANEL.														

Branch Panel: HP4															
Location: Electrical/IDF Rm. 409					Volts: 120/208 Wye			A.I.C. Rating:			Neutral Rating:				
Supply From:					Phases: 3			Mains Type: MLO			Feed Thru...				
Mounting: Surface					Wires: 4			MCB Rating: 225 A			I.G. Bus:				
Enclosure: Type 1								Bus Rating: 225 A							
CKT	Circuit Description	Rating	Pole	Wire Size	A		B		C		Wire Size	Pole	Rating	Circuit Description	CKT
1	VAV-4-1	25 A	2	2-#10, 1-#10, 1-#10	2 kVA	2 kVA					2-#10, 1-#10, 1-#10	2	25 A	VAV-4-2	2
3							2 kVA	2 kVA							4
5	VAV-4-3	25 A	2	2-#10, 1-#10, 1-#10	2 kVA	2 kVA			2 kVA	2 kVA	2-#10, 1-#10, 1-#10	2	25 A	VAV-4-4	6
7															8
9	VAV-4-5	50 A	2	2-#6, 1-#6, 1-#10			4 kVA	2 kVA			2-#12, 1-#12, 1-#12	2	20 A	VAV-4-6	10
11									4 kVA	2 kVA					12
13	VAV-4-7	20 A	2	2-#12, 1-#12, 1-#12	1.5 kVA	1 kVA					2-#12, 1-#12, 1-#12	2	20 A	VAV-4-8	14
15							1.5 kVA	1 kVA							16
17	VAV-4-9	25 A	2	2-#10, 1-#10, 1-#10					2 kVA		2-#10, 1-#10, 1-#10	2	25 A	VAV-4-10	18
19					2 kVA	2 kVA									20
21	VAV-4-11	25 A	2	2-#10, 1-#10, 1-#10			2 kVA	0.6 kVA			2-#12, 1-#12, 1-#12	2	20 A	EF-1 (ROOF)	22
23									2 kVA	0.6 kVA					24
25	ACCU-1 (ROOF) FEED ACC-1	25 A	2	2-#10, 1-#10, 1-#10	1.7 kVA	1.6 kVA					2-#12, 1-#12, 1-#12	2	20 A	ACCU-3 (ROOF) FEED ACC-3	26
27							1.7 kVA	1.6 kVA							28
29	ACCU-4 (ROOF) FEED ACC-4	20 A	2	2-#12, 1-#12, 1-#12					1.6 kVA	1.6 kVA	2-#12, 1-#12, 1-#12	2	20 A	ACCU-5 (ROOF) FEED ACC-5	30
31					1.6 kVA	1.6 kVA									32
33	ACCU-2 (ROOF) FEED ACC-2	20 A	2	2-#12, 1-#12, 1-#12			1.6 kVA	2.3 kVA			2-#10, 1-#10, 1-#10	2	30 A	EW-1 (LEVEL 4)	34
35					2-#12, 1-#12, 1-#12				1.6 kVA	2.3 kVA					36
37	CP-1 (LEVEL 4)	20 A	1	1-#12, 1-#12, 1-#12	0.7 kVA	--					--	1	--	SPACE	38
39	SPACE	--	1	--			--	--			--	1	--	SPACE	40
41	SPACE	--	1	--					--	--		1	--	SPACE	42
Total Load:					21.54 kVA		22.1 kVA		23.5 kVA						
Panel Totals															
Total Conn. Load: 67.13 kVA															
Total Conn. Current: 186 A															
Notes:															
- PROVIDE (1) SUB-METER TO MONITOR MECHANICAL EQUIPMENT LOADS ON PANEL.															

Branch Panel: L4B															
Location: Electrical/IDF Rm. 409				Volts: 120/208 Wye				A.I.C. Rating:				Neutral Rating:			
Supply From:				Phases: 3				Mains Test: MLO				Feed Thru...			
Mounting: Surface				Wires: 4				MCB Rating: 150 A				I.G. Bus:			
Enclosure: Type 1								Bus Rating: 125 A							
CKT	Circuit Description	Rating	Pole	Wire Size	A	B	C	Wire Size	Pole	Rating	Circuit Description	CKT			
1	MODULAR FURNITURE - 421	20 A	2	2-#12, 1-#12, 1-#12	0.5 KVA, 1.7 KVA			1-#12, 1-#12, 1-#12	1	20 A	LTS - 402-406,410-417	2			
3					0.5 KVA	2 KVA			1-#12, 1-#12, 1-#12	1	20 A	LTS - 407-409,418-432,S401	4		
5							0.5 KVA, 0.1 KVA			1-#12, 1-#12, 1-#12	1	20 A	EXIT SIGNS - LEVEL 4	6	
7	MODULAR FURNITURE - 421	20 A	2	2-#12, 1-#12, 1-#12	0.5 KVA	0 KVA					SPARE	8			
9						2-#12, 1-#12, 1-#12			--	1	20 A	SPARE	10		
11						2-#12, 1-#12, 1-#12			--	1	20 A	SPARE	12		
13	GEN. HEATER	20 A	1	1-#12, 1-#12, 1-#12	0.9 KVA	0 KVA					1	20 A	SPARE	12	
15	HAND DRYER - 404	20 A	1	1-#12, 1-#12, 1-#12		0.9 KVA	0 KVA					1	20 A	SPARE	16
17	LEVEL 4 DOOR HARDWARE	20 A	1	1-#12, 1-#12, 1-#12			0.5 KVA	--		--		1	--	SPACE	18
19	HAND DRYER - 406	20 A	1	1-#12, 1-#12, 1-#12	0.9 KVA	--				--		1	--	SPACE	20
21	HAND DRYER - 403	20 A	1	1-#12, 1-#12, 1-#12		0.9 KVA	--			--		1	--	SPACE	22
23	SPARE	20 A	1	--				0 KVA	--			1	--	SPACE	24
25	SPARE	20 A	1	--	0 KVA	--				--		1	--	SPACE	26
27	SPARE	20 A	1	--		0 KVA	--			--		1	--	SPACE	28
29	SPARE	20 A	1	--			0 KVA	--		--		1	--	SPACE	30
31	SPACE	--	1	--	--	--				--		1	--	SPACE	32
33	SPACE	--	1	--		--	--			--		1	--	SPACE	34
35	SPACE	--	1	--			--	--		--		1	--	SPACE	36
37	SPACE	--	1	--	--	--				--		1	--	SPACE	38
39	SPACE	--	1	--		--	--			--		1	--	SPACE	40
41	SPACE	--	1	--			--	--		--		1	--	SPACE	42
Total Load:					4.65 KVA	5.9 KVA	2.7 KVA								
Panel Totals															
Total Conn. Load: 13.24 KVA															
Total Conn. Current: 37 A															
</															

LIGHT FIXTURE SCHEDULE					
FIXTURE TYPE	DESCRIPTION	MANUFACTURER	MODEL NO.	REMARKS	
A1	2X2 LED CONTEMPORARY ARCHITECTURAL TROFFER	COLUMBIA LIGHTING	LCAT22-35K-HL-G-ED-U-(ELL 14)	1. PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
A2	1X4 LIGATURE RESISTANT LED PANEL	KENALL LIGHTNG	RMCA-4-TG-2/2-67L35K-DCC-DV-1/1-1-LEL	PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
A3	1X4 LED SWITCHABLE LUMEN FLAT PANEL	LITHONIA LIGHTING	CPANL-1X4-AL07-SWW7-M4/ILBLP-CP10-HE-SD-A	PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
B1	LIGHT COLUMN BOLLARD	FORMS + SURFACES	M9710C-SS-LED-P2-30K-MVOLT-NFL-FLC-12B-BL	-	
D1	4" MRI ROUND DOWNLIGHT	GOTHAM LIGHTING	EV04M-35/25-AR-MWD-LSS	PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
D2	4" SEALED, RECESSED ROUND DOWNLIGHT	KENALL LIGHTING	BHDL4-FF-2FW-11L-35K8-FW-G-RIG4-120-DIM1	-	
D3	4" ROUND SHALLOW RECESSED DOWNLIGHT	GOTHAM LIGHTING	IV04S-D-25LM-35K-80CRI-MD-MIN10-MVOLT-ZT-(E7WR)-NCH-WVL-P-BR-LD-F	PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
D4	4" LED ULTRA-THIN WAFER SWITCHABLE DOWNLIGHT	JUNO LIGHTING	WF4-SWW5-90CRI-MW	PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
F1	IN-GRADE EXTERIOR LUMINAIRE FOR FLAG POLE LIGHTING	HYDREL LIGHTING	M9710C-SS-LED-P2-35K-MVOLT-NFL-FLC-12B-BL	-	
L1	HIGH PERFORMANCE 2" WALL MOUNTED LUMINAIRE	LITHONIA LIGHTING	HP-2-WM-D-3-B-835-TG-F-96LG-120-SC-FC-10%-MB-FE-SW	1. PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
L2	72" HIGH PERFORMANCE LED LINEAR LUMINAIRE WITH SQUARE MICRO PROFILE AND INTERNAL DRIVER DESIGN	FINELITE LIGHTING	HP-X-R-D-6'S-835-F-120-SC-FC-10%-C1-FE-SW-(LGD18W)	PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
L3	8' HIGH PERFORMANCE LED LINEAR LUMINAIRE WITH SQUARE MICRO PROFILE AND INTERNAL DRIVER DESIGN	FINELITE LIGHTING	HP-X-R-D-8'S-835-F-120-SC-FC-10%-C1-FE-SW-(LGD18W)	PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
L4	HIGH PERFORMANCE 2" APERTURE LED LUMINAIRE	FINELITE LIGHTING	HP-2-R-D-X-X-S-835-F-96LG-120-SC-FC-10%-FE-SW-(LGD18W)	1. PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES 2. CONTRACTOR TO SUPPLY FACTORY DRAWINGS WITH FULLY LUMINOUS CORNER FOR CONNECTION TO L5/L5A. 3. REFER TO LIGHTING PLANS FOR DIMENSIONS OF LIGHT FIXTURE.	
L5	HIGH PERFORMANCE 2" APERTURE LED LUMINAIRE	FINELITE LIGHTING	HP-2-R-D-X-X-S-835-F-96LG-120-SC-FC-10%-FE-SW-(LGD18W)	1. PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES 2. CONTRACTOR TO SUPPLY FACTORY DRAWINGS WITH FULLY LUMINOUS CORNER FOR CONNECTION TO L4. 3. REFER TO LIGHTING PLANS FOR DIMENSIONS OF LIGHT FIXTURE.	
L5A	HIGH PERFORMANCE 2" APERTURE LED LUMINAIRE	FINELITE LIGHTING	HP-2-R-D-X-X-S-835-F-96LG-120-SC-FC-10%-FE-SW	1. PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES 2. CONTRACTOR TO SUPPLY FACTORY DRAWINGS WITH FULLY LUMINOUS CORNER FOR CONNECTION TO L4. 3. REFER TO LIGHTING PLANS FOR DIMENSIONS OF LIGHT FIXTURE.	
L6	24" WET LOCATION RATED VAPOR TIGHT LUMINAIRE	LITHONIA LIGHTING	DMW2-L24-3000LM-ACL-WD-MVOLT-GZ10-35K-80CRI-E10WCP	PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
P1	3" CYLINDER STANDARD WHITE PENDANT	ALPHABET LIGHTING	BETA-3R-SW-20LM-35K-80-55D-WH-WH-P-UNV-DIM10-(EM12)	PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
S1	48" LOW-PROFILE LED STRIP LIGHT	LITHONIA LIGHTING	ZL1N-48-SMR-3000LM-FST-MVOLT-35K-80CRI-WH	1. PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
SP1	STREET POLE LIGHT	LITHONIA LIGHTING	DSX1-LED-P1-30K-70CRI-T3M	PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
U1	48" UNDERCABINET LED LIGHT	LUMINII	KM-48"-72SO-35K-F-FC-E-1	-	
U2	118" UNDERCABINET LED	LUMINII	KM-118"-72SO-35K-F-FC-E-1	-	
U3	80" UNDERCABINET LED LIGHT	LUMINII	KM-80"-72SO-35K-F-FC-E-1	-	
U4	104" UNDERCABINET LED LIGHT	LUMINII	KM-104"-72SO-35K-F-FC-E-1	-	
U5	68" UNDERCABINET LED LIGHT	LUMINII	KM-68"-72SO-35K-F-FC-E-1	-	
W1	WALL MOUNTED ARCHITECTURAL EXTERIOR WALL SCONCE	LITHONIA LIGHTING	WDGE1-LED-P2-40K-80CRI-VF-MVOLT-SRM-E4WH-DD8XD	-	
W2	24" LED BATH VANITY	STUDIO M LIGHTING	SM562002PC	-	
W3	EXTERIOR CYLINDER WALL SCONCE	LUCIFER LIGHTING	CW2-DF-2-BK-BK-17A-40K-15-00-SG2-3-9-EMB-S-25-120/277-LED X	PROVIDE TYPE 'EM' FIXTURES WITH UL924-LISTED DRIVERS AND EMERGENCY DRIVERS AND EMERGENCY BACKUP CAPABLE OF PRODUCING 1400 LUMENS FOR 90 MINUTES	
X1	SINGLE OR DOUBLE-FACED DIE-CAST ALUMINUM EXIT SIGNS	LITHONIA LIGHTING	LQC-W-1-R/LQC-W-2-R	COORDINATE NUMBER OF FACES AND ARROWS WITH LIGHTING PLANS	



2 GENERAL DOOR DETAIL
E602 SCALE: 1/8" = 1'-0"

Branch Panel: EP1

Location: Existing Electrical Rm. 141

Supply From:

Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating:

Mains Type: MLO

MCB Rating: 400 A
Bus Rating: 400 A

Neutral Rating:

Feed Thru..

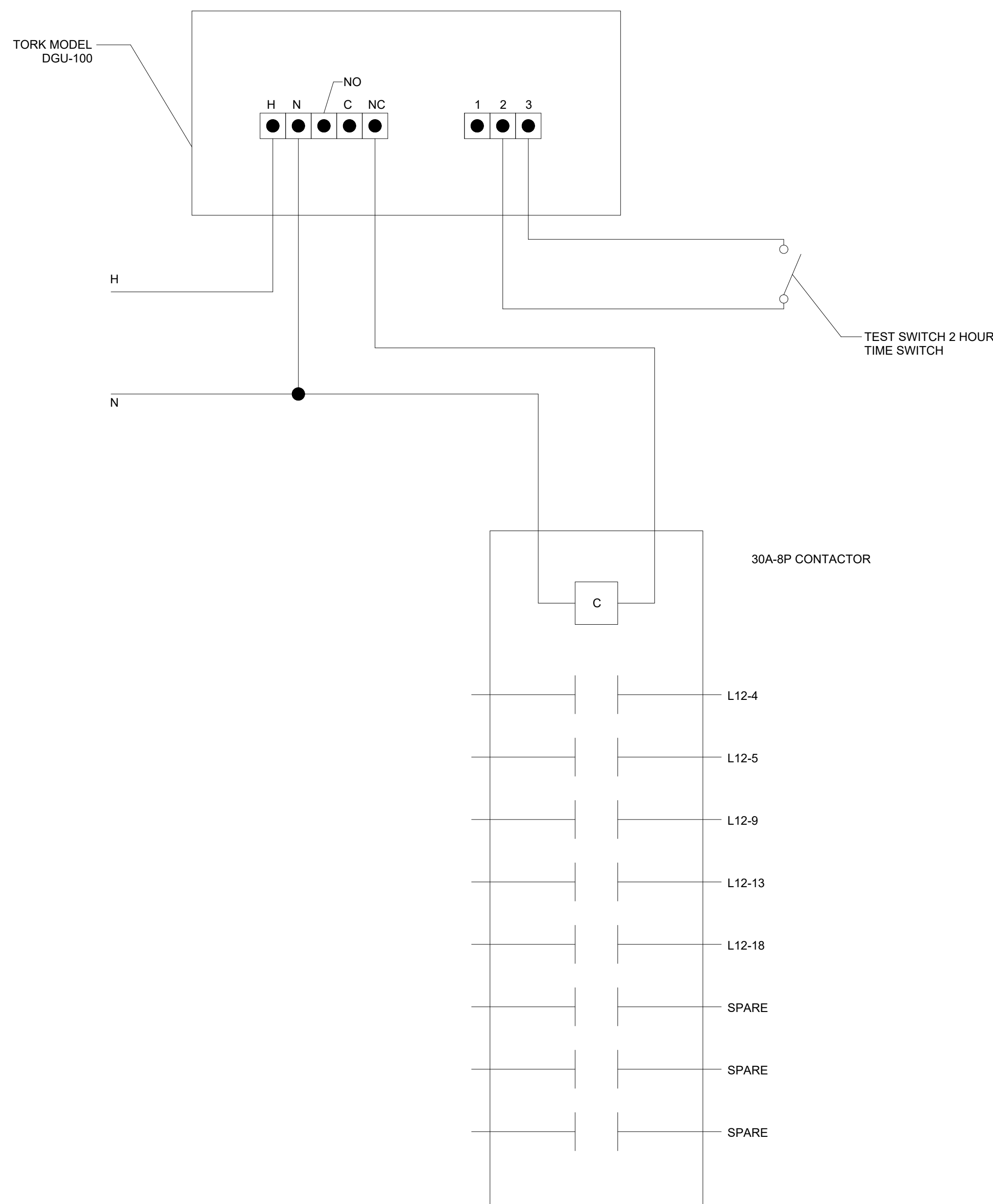
I.G. Bus:

				A		B		C							
CKT	Circuit Description	Rating	Pole	Wire Size				Wire Size	Pole	Rating	Circuit Description				CKT
1	ELEV. LTS - 142	20 A	1	1 #12, 1 #12, 1 #12	0.2 kVA	0.2 kVA		1 #12, 1 #12, 1 #12	1	20 A	RECEPTS - ELEV. PIT				2
3	ELEV. LTS - 142	20 A	1	1 #12, 1 #12, 1 #12			0.2 kVA	0.4 kVA		20 A	QUAD REC - IT 210				22
5	SPARE	20 A	1	--				0 kVA	0.4 kVA	1 #12, 1 #12, 1 #12	1	20 A	REFRIGERATOR - LAB 323		6
7	SPARE	20 A	1	--	0 kVA	0.4 kVA				1 #12, 1 #12, 1 #12	1	20 A	QUAD REC - IT 310		8
9	SPARE	20 A	1	--			0 kVA	0.4 kVA		1 #12, 1 #12, 1 #12	1	20 A	QUAD REC - IT 409		10
11	SPARE	20 A	1	--				0 kVA	0.8 kVA						12
13	SPARE	20 A	1	--	0 kVA	9.8 kVA				3 #10, 1 #10, 1 #6	3	125 A	ELEVATOR #2		14
15	SPARE	20 A	1	--			0 kVA	9.8 kVA							15
17	SPARE	20 A	1	--				0 kVA	1 kVA	1 #12, 1 #12, 1 #12	1	20 A	FACP		18
19	SPARE	20 A	1	--	0 kVA	0.4 kVA				1 #12, 1 #12, 1 #12	1	20 A	QUAD REC - IT 210		20
21	SPARE	20 A	1	--			0 kVA	0.4 kVA		1 #12, 1 #12, 1 #12	1	20 A	REFRIGERATOR - LAB 323		21
23	SPARE	20 A	1	--				0 kVA	0.2 kVA	1 #12, 1 #12, 1 #12	1	20 A	RECEPTS - ELEV. PIT		24
25	SPARE	20 A	1	--	0 kVA	0.4 kVA				1 #12, 1 #12, 1 #12	1	20 A	QUAD REC - IT 310		26
27	SPARE	20 A	1	--			0 kVA	0.4 kVA		1 #12, 1 #12, 1 #12	1	20 A	QUAD REC - IT 409		28
29	SPARE	20 A	1	--				0 kVA	1.9 kVA	1 #12, 1 #12, 1 #12	1	20 A	ELEV. SP-1 RECEPT.		30
31	SPARE	20 A	1	--	0 kVA	--				--	1	--	SPACE		32
33	SPARE	--	1	--			--	--		--	1	--	SPACE		34
35	SPACE	--	1	--			--	--		--	1	--	SPACE		36
37	SPACE	--	1	--	--	--	--	--		--	1	--	SPACE		38
39	SPACE	--	1	--	--	--	--	--		--	1	--	SPACE		40
41	SPACE	--	1	--	--	--	--	--		--	1	--	SPACE		42
Total Load:						11.31 kVA	11.5 kVA	13.3 kVA							

[illegible]

Notes

- PROVIDE (1) SUB-METER TO MONITOR LIGHTING LOADS ON PANEL
- PROVIDE (1) SUB-METER TO MONITOR REMAINING LOADS ON PANEL



1 TIMECLOCK LIGHTING CONTROL

SCALE: N.T.S

One Penn Center
1617 JFK Boulevard, Suite 1600
Philadelphia, PA 19103 U.S.A.
norr.com

D

CLIENT:

MONTGOMERY COUNTY

PROJECT TEAM

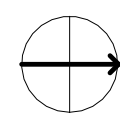
KIMLEY-HORN
620 W GERMANTOWN PIKE, SUITE 320
PLYMOUTH MEETING, PA 19462

C

WILLOW GROVE ANNEX

102 NORTH YORK ROAD
WILLOW GROVE, PA 19090

MONTGOMERY COUNTY



PROJECT
NORTH

[illegible]

PROJECT NUMBER: **NPPH23-0136-00**
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SHEET TITLE:
**ELECTRICAL
SCHEDULES &
DETAILS**

SHEET NUMBER

E602



Energy Code: 90.1 (2019) Standard
Project Title: Willow Grove Annex - 102 N YORK RD ASHRE
Project Type: New Construction

Allowed Interior Lighting Power

A

Area Catenum

Proposed Interior Lighting Power				
A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixture	Fixture Watt.	(C X D)

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixture	Fixture Watt.	(C X D)

Additional Comments/Assumptions:

Interior Lighting Compliance

Statement
Compliance Statement: The proposed

Additional Comments/Assumptions:

Energy Code: 90.1 (2019) Standard

Section			
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Additional Comments/Assumptions:

Project Title: Willow Grove Annex - 102 N YORK RD ASHRE Report date: 06/16/20

MONTGOMERY COUNTY

KIMLEY HORN

[illegible]

SHEET TITLE:

E800