GENERAL NOTES

1. THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS OR INDICATED ON THE CONTRACT DRAWINGS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.
2. THE WORK SHALL CONFORM TO THE MORE STRINGENT OF ALL APPLICABLE CODES & REGULATIONS, UL AND FM GUIDELINES, MANUFACTURER'S LITERATURE AND RECOMMENDATIONS, BUILDING OPERATOR'S REQUIREMENTS, AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION.
3. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE EXTENT, GENERAL CHARACTER, LOCATION AND ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. EXACT LOCATIONS OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR ADJUSTMENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES SHALL BE PROVIDED WITHOUT EXTRA COST. THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY.
4. INSTALLATION OF WORK SHALL PROVIDE REASONABLE ACCESSIBILITY FOR OPERATION, INSPECTION AND MAINTENANCE OF EQUIPMENT AND ACCESSORIES. PROVIDE CLEARANCES REQUIRED BY MANUFACTURERS AND APPLICABLE CODES. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO EQUIPMENT AND RELATED ACCESSORIES.
5. THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "MECHANICAL WORK", "ELECTRICAL WORK", "PLUMBING WORK", ETC. SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
6. THE CM/GC SHALL MAKE SETS OF THE BID DOCUMENTS CONSISTING OF COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS; AND ISSUE THEM TO EACH OF THE PRIME AND SUB-CONTRACTORS. EVERY PRIME AND SUB-CONTRACTOR ON EACH BIDDING TEAM SHALL RECEIVE COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS. THERE ARE NOTES AND CROSS REFERENCES FOR VARIOUS TRADE CONTRACTORS IN MULTIPLE TRADE OR DISCIPLINE DRAWINGS AND SPECIFICATIONS, THUS, EACH CONTRACTOR IS TO RECEIVE COMPLETE SETS OF THE BID DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM CM/GC. EACH CONTRACTOR IS RESPONSIBLE FOR THEIR WORK, AS NOTED ON THE OTHER DISCIPLINE DOCUMENTS. BIDDERS ARE RESPONSIBLE FOR ALL COSTS FOR EACH SET OF BID DOCUMENTS REQUESTED.
7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL COORDINATION EFFORT IN ORDER TO CREATE A FINALIZED COORDINATED LAYOUT OF ALL EQUIPMENT, SYSTEMS, DUCTWORK, PIPING AND ALL OTHER ITEMS WITHIN THEIR RESPECTIVE SCOPE. THE CONTRACTOR'S COORDINATION EFFORT SHALL INCLUDE COORDINATED INFORMATION FROM ALL OTHER TRADE CONTRACTORS INVOLVED IN THE PROJECT SCOPE IN ORDER TO PROVIDE COORDINATION BETWEEN TRADES AND ALL EXISTING CONDITIONS. ALL ERRORS MADE AS A RESULT OF A LACK OF COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CORRECTED AT NO ADDITIONAL COST TO THE PROJECT. MINOR RELOCATIONS AND SHIFTS OF EQUIPMENT, DUCTWORK, AND PIPING WHICH DO NOT CHANGE THE DESIGN INTENT INDICATED ON THE CONTRACT DOCUMENTS, REQUIRED TO ACCOMMODATE FIELD CONDITIONS ARE AT THE CONTRACTORS DISCRETION AND DO NOT REQUIRE ENGINEER APPROVAL.
8. CONTRACTOR SHALL ARRANGE AND OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL RELATED FEES.
9. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING CEILING TILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS. ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
10. FOR ANY DISCREPANCY BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BASE THEIR BID UPON THE MOST STRINGENT REQUIREMENT (QUALITY, QUANTITY, SIZE, ETC.). THE CONTRACTOR SHALL IDENTIFY DISCREPANCIES AS PART OF THEIR BID.
11. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL LOG ALL EXISTING EQUIPMENT AND TRACE ELECTRICAL, FIRE ALARM, AND CONTROL CIRCUITS THAT SERVE SUCH EQUIPMENT.
12. ALL SERVICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUT DOWNS AND TIMING WITH OWNER.
13. THE CONTRACTOR SHALL EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED.
14. EXISTING EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED, RELOCATED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED, TO SUIT THE NEW ARRANGEMENT.
15. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK AND/OR PIPING, CAREFULLY COORDINATE SIZES AND LOCATIONS OF THE ELEMENTS BEFORE FABRICATION. COORDINATE WITH FINAL LOCATION OF BEAM PENETRATIONS AND SHEAR WALL PENETRATIONS.
16. CONTRACTOR SHALL COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AND OTHER TRADES.
17. PROVIDE CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE REPAIR OF EXISTING WORK.
18. WHEN WORK INVOLVES CONTACT WITH MATERIALS CONTAINING ASBESTOS, PCB, OR OTHER TOXIC MATERIALS, NOTIFY OWNER, WHO WILL ESTABLISH PROCEDURES FOR REMEDIATION AND REMOVAL.
19. CONTRACTOR SHALL SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY THE OVERALL PROGRESS OF THE PROJECT.
20. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.
21. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECIFICATIONS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY ARCHITECT/ENGINEER.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF OTHER THAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED, THE COST OF ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR.
23. ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE DONE IN ACCORDANCE WITH GOOD TRADE PRACTICE AND IN CONFORMANCE WITH APPLICABLE MANUFACTURERS' RECOMMENDATIONS.
24. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY.
25. RESTORE ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.
26. PRIOR TO EQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING PROCEDURES.
27. IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER.
28. BALA CONSULTING ENGINEERS, INC. (BALA) WILL PROVIDE CONTRACTOR WITH ELECTRONIC CADD FILES OF THE ENGINEERING DESIGNS FOR THE SOLE USE IN EXPEDITING SHOP DRAWINGS. BALA'S FILES SHALL NOT BE DIRECTLY COPIED AND ISSUED AS SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS. SHOULD THE SHOP DRAWINGS SUBMITTED PROVE TO BE A DIRECT COPY OF OUR FILES WITHOUT THE NECESSARY FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS, THESE SHOP DRAWINGS WILL BE RETURNED AS REJECTED. BALA'S ELECTRONIC FILES ARE SAVED IN VERSION REVIT 2022 AND ARE COMPATIBLE WITH ALL VERSIONS AFTER THAT. BALA MAKES NO REPRESENTATION AS TO THE COMPATIBILITY OF THESE FILES WITH THE CONTRACTOR'S HARDWARE OR THEIR SOFTWARE.
DATA CONTAINED ON THESE ELECTRONIC FILES ARE PART OF BALA'S "INSTRUMENTS OF SERVICE" AND ARE COPYRIGHTED. CONTRACTOR'S USE OF FILES IS FOR THE SOLE PURPOSE AS A CONVENIENCE IN THE PREPARATION OF DRAWINGS FOR THE REFERENCED PROJECT. ANY OTHER USE OR REUSE BY CONTRACTOR IS UNLAWFUL.

ELECTRICAL GENERAL NOTES

1. ENTIRE INSTALLATION, INCLUDING MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL CONFORM WITH THE CURRENTLY ADOPTED NATIONAL ELECTRICAL CODE, WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS AND REGULATORY BODIES HAVING JURISDICTION OVER THIS WORK.
2. EC SHALL PROVIDE FIRE STOPPING: WHERE EQUIPMENT AND CONDUITS PENETRATE FIRE AND SMOKE BARRIERS INCLUDING WALLS, PARTITIONS, FLOORS, AND CEILINGS, INSTALL FIRE-STOPPING AT PENETRATIONS AFTER CABLES ARE INSTALLED.
3. WHERE CONDUITS ARE REMOVED FROM EXISTING WALLS, THE ELECTRICAL CONTRACTOR SHALL PATCH WALL AND /OR INSTALL PROPER UL FIRE STOPPING PER RATING OF THE EXISTING WALL. THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL UTILITIES. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING UTILITIES AND TO THE BUILDING. EXISTING EQUIPMENT, BUILDING AREA OR SURFACE DAMAGED SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR REPLACED.
4. UNLESS OTHERWISE NOTED ALL INDOOR ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH, AND HOUSED IN, A NEMA 1 ENCLOSURE.
5. UNLESS OTHERWISE NOTED ALL SINGLE PHASE BRANCH CIRCUIT WIRING SHALL BE A MINIMUM 2#12+1#12G, 3/4"C FOR 20 AMP CIRCUITS FOR RUNS UP TO 100 FEET AT 120V AND 200 FEET AT 277V. FOR CIRCUIT RUNS EXCEEDING 100 FEET AT 120V AND 200 FEET AT 277V, BRANCH WIRING SHALL BE MINIMUM 2#10+1#10G. 3/4"C. ALL THREE PHASE BRANCH CIRCUIT WIRING SHALL BE A MINIMUM 3#12+1#12G, 3/4"C. FOR 20 AMP CIRCUITS FOR RUNS UP TO 200 FEET AT 480V. AND 3#10+1#10G, 3/4"C. FOR RUNS OVER 200 FEET.
6. THE ELECTRICAL CONTRACTOR SHALL PROVIDE BACK BOXES AND CONDUITS WITH PULL STRINGS TO 6" ABOVE CEILING FOR TELECOMMUNICATION, DATA, AUDIO/VIDEO (A/V) AND SECURITY DEVICES. COORDINATE WITH RESPECTIVE TRADES FOR LOCATIONS AND CONDUIT REQUIREMENTS.
7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL MOUNTING HEIGHTS, LOCATIONS AND ARCHITECTURAL/SPATIAL REQUIREMENTS PER THE ARCHITECTURAL DRAWINGS AND RELATED SPECIFICATIONS.
8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL MOUNTING HEIGHTS, LOCATIONS AND ARCHITECTURAL/SPATIAL REQUIREMENTS PER THE ARCHITECTURAL DRAWINGS AND RELATED SPECIFICATIONS.
9. AFTER HOURS SHUTDOWN WORK SHALL BE AT SUCH TIME AND IN SUCH MANNER AS DIRECTED BY THE OWNER. PROVIDE A MINIMUM ONE (1) WEEK NOTICE. WHERE SHUTDOWN PERIODS CANNOT BE OF DURATION TO ACCOMMODATE THE NEW WORK, THE ELECTRICAL CONTRACTOR SHALL PERFORM THE WORK IN A SERIES OF PRE PLANNED STAGES OF MINIMAL ALLOWABLE SHUTDOWN PERIODS. PROVIDE TEMPORARY FACILITIES TO ALLOW RE-ENERGIZING OF SERVICE BETWEEN WORKING STAGES.
10. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY POWER, LIGHTING, AND FIRE DETECTION FOR ALL WORK AREAS AND TRADES UNDER THIS CONTRACT AS REQUIRED FOR CONSTRUCTION OR AS REQUIRED TO MAINTAIN NORMAL OPERATIONS OF THE SITE AND/OR BUILDING'S ACTIVITIES. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT, MAKING ALL ARRANGEMENTS WITH THE UTILITY CO. WHERE ADEQUATE, EXISTING SERVICES MAY BE USED.
11. EXISTING ELECTRICAL EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED, RELOCATED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED, TO SUIT THE NEW ARRANGEMENT.EXISTING ELECTRICAL EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED, RELOCATED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED, TO SUIT THE NEW ARRANGEMENT.
12. DIVISION 26, OR EC SHALL BE USED INTERCHANGEABLY AND SHALL INDICATE WORK INCLUDED UNDER THE ELECTRICAL CONTRACTORS SCOPE.

TELECOM SYSTEM NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE EMPTY RACEWAY AND BOX SYSTEM FOR THE TELECOM SYSTEM IN ACCORDANCE WITH TELECOMMUNICATIONS DRAWINGS AND SPECIFICATIONS.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER REQUIREMENTS FOR THE TELECOM SYSTEM AS INDICATED IN THE TELECOMMUNICATIONS, ELECTRICAL DRAWINGS AND SPECIFICATIONS.
3. THE TELECOM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TELECOMMUNICATIONS EQUIPMENT, DEVICES,WIRING AND CONNECTIONS AS SPECIFIED ON THE TELECOMMUNICATIONS DRAWINGS AND SPECIFICATIONS.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL GROUNDING REQUIREMENTS FOR THE ABOVE SYSTEM FOR THE ABOVE SYSTEM AS OUTLINED IN THE TELECOM SPECIFICATIONS SECTION AND AS REFLECTED ON THE TELECOM DRAWINGS.

SECURITY SYSTEM NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE EMPTY RACEWAY AND BOX SYSTEM FOR THE SECURITY SYSTEM IN ACCORDANCE WITH SECURITY DRAWINGS AND SPECIFICATIONS.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER REQUIREMENTS FOR THE SECURITY SYSTEM AS INDICATED IN THE SECURITY DRAWINGS AND SPECIFICATIONS.
3. THE SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SECURITY EQUIPMENT, DEVICES, WIRING AND CONNECTIONS AS SPECIFIED ON THE SECURITY DRAWINGS AND SPECIFICATIONS.

REVISION LEGEND: ❍ NEW ISSUE | ● REVISED ISSUE | ♦ REVISED, NOT ISSUED | ☒ REMOVED FROM DRAWING SET | ☐ ISSUED, NOT REVISED

DRAWING LIST - ELECTRICAL

DRAWING NUMBER	DRAWING TITLE	11-01-2022 - SCHEMATIC BUDGET PRICING SET	12-20-2022 - PERMIT SET								
E0.01	ELECTRICAL TITLE SHEET (NOTES & DWG LIST)	❍	●								
E0.02	ELECTRICAL LEGENDS AND ABBREVIATIONS	❍	●								
E0.11	ELECTRICAL SINGLE LINE DIAGRAM	❍	●								
E0.12	ELECTRICAL SINGLE LINE DIAGRAM	❍	●								
E0.21	ELECTRICAL SCHEDULES	❍	●								
E0.22	ELECTRICAL SCHEDULES	❍	●								
E0.23	ELECTRICAL SCHEDULES	❍	●								
E0.24	ELECTRICAL SCHEDULES	❍	●								
E0.25	ELECTRICAL SCHEDULES	❍	●								
E0.26	ELECTRICAL SCHEDULES	❍	●								
E0.27	ELECTRICAL SCHEDULES	❍	●								
E0.28	ELECTRICAL SCHEDULES	❍	●								
E0.31	ELECTRICAL DETAILS	❍	●								
E0.32	ELECTRICAL DETAILS	❍	●								
E2.01	ELECTRICAL - RETAIL LEVEL POWER PLAN		❍								
E2.01A	ELECTRICAL - RETAIL LEVEL POWER PLAN A	❍	●								
E2.02B	ELECTRICAL - CLUB LEVEL 1 POWER PLANS B	❍	●								
E2.03B	ELECTRICAL - CLUB LEVEL 2 POWER PLANS B	❍	●								
E2.04	ELECTRICAL - FIRST FLOOR POWER PLAN	❍	●								
E2.04A	ELECTRICAL - FIRST FLOOR ENLARGED POWER PLAN A	❍	●								
E2.04B	ELECTRICAL - FIRST FLOOR ENLARGED POWER PLANS B	❍	●								
E2.04C	ELECTRICAL - FIRST FLOOR ENLARGED POWER PLAN C	❍	●								
E2.04D	ELECTRICAL - FIRST FLOOR ENLARGED POWER PLAN D	❍	●								
E2.05	ELECTRICAL - SECOND FLOOR POWER PLAN	❍	●								
E2.05A	ELECTRICAL - SECOND FLOOR ENLARGED POWER PLAN A	❍	●								
E2.05B	ELECTRICAL - SECOND FLOOR ENLARGED POWER PLANS B	❍	●								
E2.05C	ELECTRICAL - SECOND FLOOR ENLARGED POWER PLAN C	❍	●								
E2.05D	ELECTRICAL - SECOND FLOOR ENLARGED POWER PLAN D	❍	●								
E2.06	ELECTRICAL - THIRD FLOOR OVERALL POWER PLAN	❍	●								
E2.06A	ELECTRICAL - THIRD FLOOR ENLARGED POWER PLAN A	❍	●								
E2.06B	ELECTRICAL - THIRD FLOOR ENLARGED POWER PLANS B	❍	●								
E2.06C	ELECTRICAL - THIRD FLOOR ENLARGED POWER PLAN C	❍	●								
E2.06D	ELECTRICAL - THIRD FLOOR ENLARGED POWER PLAN D	❍	●								
E2.07	ELECTRICAL - FOURTH FLOOR OVERALL POWER PLAN	❍	●								
E2.07A	ELECTRICAL - FOURTH FLOOR ENLARGED POWER PLAN A	❍	●								
E2.07B	ELECTRICAL -FOURTH FLOOR ENLARGED POWER PLANS B	❍	●								
E2.07C	ELECTRICAL - FOURTH FLOOR ENLARGED POWER PLAN C	❍	●								
E2.07D	ELECTRICAL - FOURTH FLOOR ENLARGED POWER PLAN D	❍	●								
E2.08A	ELECTRICAL - ROOF POWER PLAN A	❍	●								
E2.08B	ELECTRICAL - ROOF POWER PLAN B	❍	●								
E2.08C	ELECTRICAL - ROOF POWER PLAN C	❍	●								
E2.08D	ELECTRICAL - ROOF POWER PLAN D	❍	●								
E3.01A	ELECTRICAL - RETAIL LEVEL LIGHTING PLAN A	❍	●								
E3.02B	ELECTRICAL - CLUB LEVEL 1 LIGHTING PLANS B	❍	●								
E3.03B	ELECTRICAL - CLUB LEVEL 2 LIGHTING PLANS B	❍	●								
E3.04	ELECTRICAL - FIRST FLOOR LIGHTING PLAN	❍	●								
E3.04A	ELECTRICAL - FIRST FLOOR ENLARGED LIGHTING PLAN A	❍	●								
E3.04B	ELECTRICAL - FIRST FLOOR ENLARGED LIGHTING PLANS B	❍	●								
E3.04C	ELECTRICAL - FIRST FLOOR ENLARGED LIGHTING PLAN C	❍	●								
E3.04D	ELECTRICAL - FIRST FLOOR ENLARGED LIGHTING PLAN D	❍	●								
E3.05	ELECTRICAL - SECOND FLOOR LIGHTING PLAN	❍	●								
E3.05A	ELECTRICAL - SECOND FLOOR ENLARGED LIGHTING PLAN A	❍	●								
E3.05B	ELECTRICAL - SECOND FLOOR ENLARGED LIGHTING PLANS B	❍	●								
E3.05C	ELECTRICAL - SECOND FLOOR ENLARGED LIGHTING PLAN C	❍	●								
E3.05D	ELECTRICAL - SECOND FLOOR ENLARGED LIGHTING PLAN D	❍	●								
E3.06	ELECTRICAL - THIRD FLOOR OVERALL LIGHTING PLAN	❍	●								
E3.06A	ELECTRICAL - THIRD FLOOR ENLARGED LIGHTING PLAN A	❍	●								
E3.06B	ELECTRICAL - THIRD FLOOR ENLARGED LIGHTING PLANS B	❍	●								
E3.06C	ELECTRICAL - THIRD FLOOR ENLARGEDLIGHTING PLAN C	❍	●								
E3.06D	ELECTRICAL - THIRD FLOOR ENLARGED LIGHTING PLAN D	❍	●								
E3.07	ELECTRICAL - FOURTH FLOOR OVERALL LIGHING PLAN	❍	●								
E3.07A	ELECTRICAL - FOURTH FLOOR ENLARGED LIGHTING PLAN A	❍	●								
E3.07B	ELECTRICAL - FOURTH FLOOR ENLARGED LIGHTING PLANS B	❍	●								
E3.07C	ELECTRICAL - FOURTH FLOOR ENLARGED LIGHTING PLAN C	❍	●								
E3.07D	ELECTRICAL - FOURTH FLOOR ENLARGED LIGHTING PLAN D	❍	●								
E4.01	ENLARGED ELECTRICAL ROOMS	❍	●								
E6.01	ELECTRICAL - UNIT PLANS	❍	●								
E6.02	ELECTRICAL - UNIT PLANS	❍	●								
E6.03	ELECTRICAL - UNIT PLANS	❍	●								
E6.04	ELECTRICAL - UNIT PLANS	❍	●								
E6.05	ELECTRICAL - UNIT PLANS	❍	●								
E6.06	ELECTRICAL - UNIT PLANS	❍	●								

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DRAWN BY: Author
PROJECT NO: 1022747

NO.	REVISION	DATE
	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status

ELECTRICAL TITLE SHEET (NOTES & DWG LIST)

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 11/01/22

E0.01

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ABBREVIATIONS

(B)	EXISTING TO BE BLANKED
(E)	EXISTING DEVICE OR EQUIPMENT
(ED)	EXISTING TO BE REMOVED
(ER)	EXISTING TO BE RELOCATED
(F)	FUTURE DEVICE OR EQUIPMENT
(N)	NEW DEVICE OR EQUIPMENT
(PL)	OUTLET BLANKED WITH PLATE ONLY
(RL)	EXISTING SHOWN RELOCATED
A	AMP, AMPERE
AC	AIR CONDITIONING
AF / AT	AMP FRAME / AMP TRIP
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPS INTERUPTTING CURRENT
AL	ALUMINUM
ARF	ABOVE RAISED FLOOR
AS / AFU	AMP SWITCH / AMP FUSE
ATS	AUTOMATIC TRANSFER SWITCH
AV, A/V	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CL	CENTER LINE
CLF	CURRENT LIMITING FUSE
CLG	CEILING
CONTR	CONTRACTOR
CONV	CONVENIENCE
CT	CURRENT TRANSFORMER
CU	COPPER
D.O.	DRAWOUT
DC	DOOR CONTACT
DISC	DISCONNECT
DIST	DISTRIBUTION
DW	DISHWASHER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM, EMERG	EMERGENCY
EM/NL	EMERGENCY NIGHT LIGHT
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FA	FIRE ALARM
FDR	FEEDER
FIXT	FIXTURE
FL	FLOOR
FP	FIRE PROTECTION
G, GND	GROUND
GEN	GENERATOR
GF	GROUND FAULT
GFI	GROUND FAULT INTERRUPTOR
HOA	HAND OFF AUTOMATIC SWITCH
HP	HORSE POWER
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HWH	HOT WATER HEATER
HZ	HERTZ
IG	ISOLATED GROUND
kAIC	KILO AMPERE INTERRUPTING CURRENT
kCMILS	THOUSAND CIRCULAR MILS
kVA	KILOVOLT AMPS
KW	KILOWATTS
LC	LIGHTING CONTROLLER
LCP	LIGHTING CONTROL OR RELAY PANEL
LSIG	LONG, SHORT, INSTANTANEOUS AND GROUND FAULT TRIP FUNCTION
LTG	LIGHTING
MAX	MAXIMUM
MB	MOTORIZED BACKBOARD
MC	METAL CLAD
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFG	MANUFACTURER
MH	MOUNTING HEIGHT
MI	MINERAL INSULATED
MLO	MAIN LUGS ONLY
MOD	MOTORIZED OVERHEAD DOOR
MP	MOTORIZED PARTITION
MPS	MOTORIZED PROJECTION SCREEN
MS	MOTORIZED SHADES
MTD	MOUNTED
MW	MICROWAVE
N	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
No	NUMBER
NTS	NOT TO SCALE
OFE	OWNER FURNISHED EQUIPMENT
P	POLES
PB	PULL BOX
PC	PLUMBING CONTRACTOR
PH	PHASE
PNL	PANEL
PPE	PRE-PURCHASED EQUIPMENT
PRI	PRIMARY
PRT	PRINTER
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
QUAD	QUADRUPLEX RECEPTACLE
REC	RECESSED
RECEPT	RECEPTACLE
REF	REFRIGERATOR
RF	RETURN FAN
RGS	RIGID GALVANIZED STEEL
RM	ROOM
SB	SCORE BOARD
SEC	SECONDARY
SF	SUPPLY FAN
SKRU	SOLENOID KEY RELEASE UNIT
SPD	SURGE PROTECTION DEVICE
SSCAF	SHORT CIRCUIT COORDINATION ARC FLASH
ST	SHUNT TRIP
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	(TEL/COM) TELECOMMUNICATIONS
TDR	TIME DELAY RELAY
TEL	TELEPHONE
TF	TRANSFER FAN
TP	TAMPER PROOF
TPS	TWISTED PAIR SHIELDED
TYP	TYPICAL
UC	UNDERCOUNTER
UCR	UNDER COUNTER REFRIGERATOR
UF	UNDER FLOOR
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT AMPS
W	WATTS
WP	WEATHER PROOF
XFMR	TRANSFORMER

POWER DISTRIBUTION

- M — MOTOR
- MS — MANUAL MOTOR SWITCH WITH THERMAL OVERLOAD
- 30A — NON FUSED DISCONNECT SWITCH (AMPERE RATING SHOWN)
- 30A — FUSED DISCONNECT SWITCH (AMPERE RATING SHOWN)
- 30A — ENCLOSED CIRCUIT BREAKER (AMPERE RATING SHOWN)
- MS — MAGNETIC MOTOR STARTER .
- CMS — COMBINATION MAGNETIC MOTOR STARTER DISCONNECT
- VFD — VARIABLE FREQUENCY DRIVE (COORDINATE FURNISHED EQUIPMENT WITH MECHANICAL SCHEDULES) (REFER TO SPECIFICATIONS FOR VFD AND STARTER REQUIREMENTS)
- J — JUNCTION BOX OR DIRECT CONNECTION POINT.
- EPO — EMERGENCY POWER OFF STATION
- INDICATES CONDUIT UP
- INDICATES CONDUIT DOWN
- CONCEALED CONDUIT / WIRING IN OR UNDER FLOOR SLAB OR RAISED FLOOR
- FLEXIBLE METAL CONDUIT OR CABLE
- LH1;1,3 — HOMERUN TO PANEL "LH1", CIRCUITS 1 AND 3.
- SURFACE MOUNTED 208 / 120V PANEL BOARD
- SURFACE MOUNTED 480 / 277V PANEL BOARD
- FLUSH MOUNTED 208 / 120V PANEL BOARD
- FLUSH MOUNTED 480 / 277V PANEL BOARD
- AHU 1 — POWERED MECHANICAL EQUIPMENT TAG FOR ELECTRICAL CONNECTION, SEE POWERED MECHANICAL EQUIPMENT SCHEDULE AND DISTRIBUTION SCHEDULES.
- T — TRANSFORMER

ELECTRICAL OUTLETS

CENTERLINE 18" AFF EXCEPT AS NOTED, REFER TO SPECIFICATIONS FOR MANUFACTURER AND CATALOG NUMBER. NUMERAL INDICATES BRANCH CIRCUIT DESIGNATION.

OUTLET DESIGNATION
- \+ RECEPTACLE MOUNTED HIGHER THAN STANDARD 18" AFF
- GF RECEPTACLE PROTECTED WITH GROUND FAULT CIRCUIT BREAKER
- IG RECEPTACLE, ISOLATED GROUND
- SP RECEPTACLE WITH SURGE PROTECTION
- TR RECEPTACLE, TAMPER RESISTANT
- EP RECEPTACLE, EXPLOSION PROOF
- P RECEPTACLE, PEDESTAL MOUNTED
- WP RECEPTACLE, WEATHER RESISTANT TYPE IN WEATHER PROOF IN-USE ENCLOSURE
- UF RECEPTACLE, UNDER FLOOR

- CEILING MOUNTED RECEPTACLE
- FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE
- STANDARD DUPLEX RECEPTACLE
- STANDARD QUADRAPLEX RECEPTACLE
- GFCI DUPLEX RECEPTACLE
- GFCI QUADRAPLEX RECEPTACLE
- DUPLEX RECEPTACLE WITH INTEGRAL USB
- DUPLEX RECEPTACLE - ONE OUTLET SWITCHED
- DUPLEX RECEPTACLE - ALL OUTLETS SWITCHED
- QUAD RECEPTACLE - ONE DUPLEX SWITCHED
- QUAD RECEPTACLE - ALL OUTLETS SWITCHED
- SIMPLEX SINGLE RECEPTACLE
- USB ONLY RECEPTACLE
- RECESSED CLOCK RECEPTACLE
- HEAVY DUTY NEMA STRAIGHT BLADE RECEPTACLE, SEE SCHEDULE FOR TYPES
- HEAVY DUTY NEMA TWIST LOCK RECEPTACLE, SEE SCHEDULE FOR TYPES
- AV — AV FLAT PANEL DISPLAY WALL BOX WITH POWER, TELECOM AND/OR AV CONNECTIVITY
- FF — FLUSH WALL MOUNTED JUNCTION BOX WITH CONDUIT OPENINGS FOR FURNITURE FEED WHIPS (POWER AND TELECOM)
- D — SINGLE POINT OUTLET; 'D'-DATA OUTLET, 'T'-TELEPHONE OUTLET, 'F'-FIRE FIGHTERS CALL STATION, 'CATV'-CABLE TV OUTLET, 'AV'-AV OUTLET
  - T — CONDUIT/BACKBOX REQUIREMENTS (UNLESS OTHERWISE NOTED)
  - CATV 'D' — 1" CONDUIT, 1-GANG BACKBOX
  - AV 'F' — 1" CONDUIT, 1-GANG BACKBOX
  - 'T' — 1" CONDUIT, 1-GANG BACKBOX
  - 'CATV' — 1-1/4" CONDUIT, 2-GANG BACKBOX WITH 1-GANG REDUCER
  - 'AV' — COORDINATE WITH AV CONTRACTOR REQUIREMENTS
- COMBINATION TELEPHONE/DATA OUTLET CONDUIT/BACKBOX REQUIREMENTS (UNLESS OTHERWISE NOTED) 1-1/4" CONDUIT, 2-GANG BACKBOX WITH 1-GANG REDUCER
- OVERHEAD POWER CONNECTION RECEPTACLE AND EXTENSION ARM. HUBBELL HBL45123R20 EXTENSION CORD REEL 45 FEET 12 GAUGE NEMA 5-20 RECEPTACLE OR APPROVED EQUAL.
- K3AV — CEILING MOUNTED OR ABOVE CEILING MOUNTED MONITOR DISPLAY OR PROJECTOR BOX WITH POWER, TELECOM AND/OR AV CONNECTIVITY
- ① — FLUSH FLOOR BOX ASSEMBLY WITH CONDUIT OPENINGS FOR FURNITURE FEEDS (POWER TEL/COM AND AV) COORDINATE COLOR WITH ARCHITECT.
- ② — FLUSH FLOOR BOX WITH QUAD RECEPTACLE. PROVISIONS FOR TEL/COM OUTLETS COORDINATE COLOR WITH ARCHITECT.
- ③ — FLUSH FLOOR BOX WITH QUAD RECEPTACLE. PROVISIONS FOR VOICE / DATA AND A/V OUTLETS COORDINATE COLOR WITH ARCHITECT.
- CONDUIT STUB-UPS INTO TABLE LEG FOR POWER, VOICE/DATA AND AV. DATA AND AV CONDUIT SHALL RUN IN CEILING SPACE OF FLOOR BELOW TO BEHIND WALL MOUNTED DISPLAY. POWER SHALL RUN TO NEAREST WALL AND EXTEND TO JUNCTION BOX OR PANELBOARD NOTED. PROVIDE 3/4" CONDUIT FOR POWER, 1-1/2" CONDUIT FOR VOICE/DATA AND 1-1/2" CONDUIT FOR A/V. SIZE OF HOLE SHALL BE BASED ON FIREPROOF MANUFACTURERS INSTRUCTIONS AND UL GUIDELINES. PROVIDE PROTECTIVE BUSHING AT EACH END OF CONDUIT AND INTERIOR FIREPROOFING MATERIAL AT THE TOP OF CONDUITS ABOVE PENETRATION
- ① — 4" FLUSH POKE THRU ASSEMBLY WITH CONDUIT OPENINGS FOR FURNITURE FEEDS (POWER TEL/COM AND AV) (COORDINATE COLOR WITH ARCHITECT)
- ② — 4" FLUSH POKE THRU ASSEMBLY WITH SURFACE MOUNTED QUAD RECEPTACLE. AND PROVISIONS FOR TEL/COM CONNECTIVITY (COORDINATE COLOR WITH ARCHITECT)
- ③ — 4" FLUSH POKE THRU ASSEMBLY WITH RECESSED RECEPTACLE. AND PROVISIONS FOR TEL/COM CONNECTIVITY (COORDINATE COLOR WITH ARCHITECT)
- ④ — 6" LARGE CAPACITY FLUSH POKE THRU ASSEMBLY WITH CONDUIT OPENINGS FOR FURNITURE FEEDS (POWER TEL/COM AND AV) (COORDINATE COLOR WITH ARCHITECT)
- ⑤ — 6" LARGE CAPACITY FLUSH POKE THRU ASSEMBLY WITH QUAD RECEPTACLE AND PROVISIONS FOR TEL/COM CONNECTIVITY (COORDINATE COLOR WITH ARCHITECT)
- ⑥ — 8" LARGE CAPACITY FLUSH POKE THRU ASSEMBLY WITH QUAD RECEPTACLE AND PROVISIONS FOR VOICE / DATA AND A/V CONNECTIVITY. (COORDINATE COLOR WITH ARCHITECT)

MULTI-OUTLET ASSEMBLIES

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND MANUFACTUER EQUALS. VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.

- MULTI-OUTLET ASSEMBLY AS SPECIFIED ON ELECTRICAL PLAN DRAWINGS
- P — MULTI-OUTLET ASSEMBLY WITH 20A-125V SINGLE OUTLETS MOUNTED 6" ON CENTER ALTERNATELY WIRED. (EQUIVALENT TO WIREMOLD 2000 SERIES).
- W3 — MULTI-OUTLET ASSEMBLY WITH DUPLEX RECEPTACLES MOUNTED 3'-0" ON CENTER (MINIMUM). (EQUIVALENT TO WIREMOLD 3000 SERIES).
- W4 — MULTI-OUTLET ASSEMBLY, BARRIERED WITH DUPLEX RECEPTACLES MOUNTED 3'-0" ON CENTER (MINIMUM). (EQUIVALENT TO WIREMOLD 4000 SERIES).
- W6 — MULTI-OUTLET ASSEMBLY, BARRIERED WITH DUPLEX RECEPTACLES MOUNTED 3'-0" ON CENTER (MINIMUM). (EQUIVALENT TO WIREMOLD 6000 SERIES).

LUMINAIRES

- 1X4 RECESSED TROFFER
- 2X4 RECESSED TROFFER
- 2X2 RECESSED TROFFER
- 1X4 INDUSTRIAL STRIP LIGHT LUMINAIR
- A a — RECESSED OR PENDANT DOWN LIGHT
- A a — RECESSED WALL WASH LUMINAIR
- A a — WALL MOUNTED LUMINAIR
- A a — PENDANT LUMINAIR
- TRACK LIGHTING
- RBB — ELU REMOTE BATTERY BACK UP
- BATTERY BACK UP ELU
- REMOTE BATTERY BACK UP ELU
- WALL MOUNTED EXIT SIGN ARROW DESIGNATES DIRECTION
- CEILING MOUNTED EXIT SIGN ARROW DESIGNATES DIRECTION

SINGLE LINE DIAGRAM

- GENERATOR
- TRANSFORMER
- 2000AF 400AT — AF - INDICATES AMPERE FRAME AT - INDICATES AMP TRIP DRAW-OUT CIRCUIT BREAKER
- 20A 3 P — CIRCUIT BREAKER: 1P SINGLE POLE 2P TWO POLE 3P THREE POLE
- S — CIRCUIT BREAKER WITH SHUNT TRIP
- ENCLOSED CIRCUIT BREAKER
- E N L — TRANSFER SWITCH
- DISCONNECT DEVICE FOR DRAWOUT EQUIPMENT
- NON-FUSED SWITCH
- FUSE
- FUSED SWITCH OR FUSED DISCONNECT
- LIGHTNING ARRESTOR
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- POTENTIAL TRANSFORMER WITH FUSE
- DELTA CONNECTION
- GROUNDED WYE CONNECTION
- OVERLOAD RELAY
- C — CONTACTOR
- R — RELAY
- EO — ELECTRICALLY OPERATED
- SKRU — SOLENOID KEY OPERATED RELEASE UNIT
- POWER FACTOR CORRECTION CAPACITOR
- SPD — SURGE PROTECTION DEVICE
- INDICATING LAMP
- 1234 — CONDUIT FEEDER IDENTIFICATION
- DIGITAL MULTI-PURPOSE METER
- A — AMMETER
- AS — AMMETER SWITCH
- V — VOLTMETER
- VS — VOLTMETER SWITCH
- KK — KIRK KEY INTERLOCK
- WH — WATTHOUR METER
- STOP BUTTON MOMENTARY CONTACT
- START BUTTON MOMENTARY CONTACT
- GROUND CONNECTION
- BATTERY
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT

LIGHTING CONTROLS

REFER TO SPECIFICATIONS FOR MANUFACTURER AND CATALOG NUMBERS.

- $a — SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
- $2a — TWO POLE SWITCH, LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
- $3a — THREE WAY SWITCH, LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
- $4a — FOUR WAY SWITCH, LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
- $Da — WALL MTD. DIMMER SWITCH/ CONTROLLER, LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
- $KS — KEY OPERATED SWITCH
- $OR — WALL MTD. LIGHTING CONTROL SWITCH FOR LIGHTING CONTROL ZONE OVERRIDE.
- $OS — WALL MTD. OCCUPANCY SENSOR WITH PASSIVE INFRARED MOTION SENSOR, 1-POLE, 277/120V
- $OS2 — WALL MTD. OCCUPANCY SENSOR WITH PASSIVE INFRARED MOTION SENSOR, 2-POLE, 277/120V
- $OSD — WALL MTD. OCCUPANCY SENSOR WITH PASSIVE INFRARED MOTION SENSOR, 1-POLE, 277/120V, 0-10 DIMMING
- $PE — PHOTO CONTROL SWITCH, WEATHER PROOF, 277/120V.
- $PL — WALL SWITCH WITH PILOT LIGHT.
- $SS — WALL MTD., LOW VOLTAGE LIGHTING CONTROL SWITCH FOR SCENE SELECTION, PROVIDE WITH FIVE (5) SCENE SELECTIONS AND RAISE / LOWER.
- $TS — TIME SWITCH (WITH DIGITAL COUNTDOWN AND VISUAL WARNING) 277/120V.
- $VS — WALL MTD. VACANCY SENSOR WITH PASSIVE INFRARED MOTION SENSOR, 1-POLE, 277/120V
- $VS2 — WALL MTD. VACANCY SENSOR WITH PASSIVE INFRARED MOTION SENSOR, 2-POLE, 277/120V
- $VSD — WALL MTD. VACANCY SENSOR WITH PASSIVE INFRARED MOTION SENSOR, 1-POLE, 277/120V, 0-10 DIMMING

- X — LIGHTING CONTROL SEQUENCE OF OPERATION TYPE
- LC — MULTI-ZONE PRESET SCENE CONTROLLER / DIMMER WITH USER PROGRAMMABLE ZONE AND SCENE NAMES, TEMPORARY LOCAL OVERRIDES. INDIVIDUAL RAISE / LOWER BUTTONS TO ALLOW ZONES TO BE ADJUSTED WITHOUT ALTERING SCENE VALUES STORED IN MEMORY
- LCP — LIGHTING CONTROL PANEL WITH PROGRAMMABLE SWITCHING AND DIMMING FOR LIGHTING CIRCUITS, INTEGRAL TIME CLOCK, SYSTEM INPUTS FOR REMOTE ACTUATION AND SCHEDULE OVERRIDES, CAPABLE OF CONTROLLING RECEPTACLE LOADS, OPTIONAL BAS INTEGRATION, CAN BE PART OF A DISTRIBUTED CONTROL STRATEGY
- DS — CEILING MTD. DAYLIGHT SENSOR
- OS1 VS1 — CEILING MTD. OCCUPANCY SENSOR (OS) VACANCY SENSOR (VS) (MANUAL ON) WITH PASSIVE INFRARED (PIR) MOTION SENSOR TO COVER RANGE OF 450-500 SQ.FT., 277 / 120V POWER PACK
- OS2 VS2 — CEILING MTD. OCCUPANCY SENSOR (OS) VACANCY SENSOR (VS) (MANUAL ON) WITH PASSIVE INFRARED (PIR) MOTION SENSOR TO COVER RANGE OF 1500 SQ.FT., 277 / 120V POWER PACK
- OS3 VS3 — CEILING MTD. OCCUPANCY SENSOR (OS) VACANCY SENSOR (VS) (MANUAL ON) WITH DUAL TECHNOLOGY INFRARED (PIR AND ULTRASONIC) MOTION SENSOR TO COVER 180 DEGREE RANGE (SHADED OUTER CIRCLE NOTES COVERAGE DIRECTION), UP TO 500 SQ.FT.WITH INTEGRAL CONTRACT CLOSURE FOR INTEGRATION WITH HVAC OR SECURITY SYSTEM, 277 / 120V POWER PACK
- OS4 VS4 — CEILING MTD. OCCUPANCY SENSOR (OS) VACANCY SENSOR (VS) (MANUAL ON) WITH DUAL TECHNOLOGY INFRARED (PIR AND ULTRASONIC) MOTION SENSOR TO COVER 180 DEGREE RANGE (SHADED OUTER CIRCLE NOTES COVERAGE DIRECTION), UP TO 500 SQ.FT.WITH INTEGRAL CONTRACT CLOSURE FOR INTEGRATION WITH HVAC OR SECURITY SYSTEM, 277 / 120V POWER PACK
- OS5 VS5 — CEILING MTD. OCCUPANCY SENSOR (OS) VACANCY SENSOR (VS) (MANUAL ON) WITH DUAL TECHNOLOGY INFRARED (PIR AND ULTRASONIC) MOTION SENSOR TO COVER 360 DEGREE RANGE (SHADED OUTER CIRCLE NOTES COVERAGE DIRECTION), UP TO 2000 SQ.FT WITH INTEGRAL CONTRACT CLOSURE FOR INTEGRATION WITH HVAC OR SECURITY SYSTEM, 277 / 120V POWER PACK
- OS1 — WALL MTD. OCCUPANCY SENSOR (OS) VACANCY SENSOR (VS) (MANUAL ON) WITH PASSIVE INFRARED TECHNOLOGY INFRARED (PIR) MOTION SENSOR TO COVER RANGE UP TO 1600 SQ.FT.WITH INTEGRAL CONTRACT CLOSURE FOR INTEGRATION WITH HVAC OR SECURITY SYSTEM, 277 / 120V POWER PACK

SECURITY/PAGING

- CR — CARD READER, SHALL BE FAIL SAFE OPEN IN EMERGENCY
- DB — DURESS BUTTON
- DC — DOOR CONTACT
- DM — DOUBLE MAGNETIC LOCK
- DR — DOOR RELEASE BUTTON (REMOTE)
- EB — EXIT BUTTON
- EH — ELECTRIC HANDSET
- EL — ELECTRIC LOCKSET
- DOI — OVERHEAD DOOR CONTACT
- PIR — MOTION DETECTOR
- REX — REQUEST TO EXIT
- SD — SOUNDER (DOOR ALARM)
- SM — SINGLE MAGNETIC LOCK
- SECURITY CAMERA
- SP — SPEAKER
- SVC — SPEAKER VOLUME CONTROL

NEMA RECEPTACLE SCHEDULE - STRAIGHT BLADE

TYPE	NEMA ID	NEMA CONFIGURATION	VOLTAGE	CB
8	14-30R	30A, 125/250V, 3-POLE, 4-WIRE GROUNDING	125/250V	30A, 2-POLE
9	14-50R	50A, 125/250V, 3-POLE, 4-WIRE GROUNDING	125/250V	50A, 2-POLE

NEMA RECEPTACLE SCHEDULE - TWIST-LOCK

TYPE	NEMA ID	NEMA CONFIGURATION	VOLTAGE	CB

POWER AND LIGHTING CIRCUIT DESIGNATIONS

- TRPA5;2 — TYPICAL CIRCUIT DESIGNATION ADJACENT TO DEVICE NOTING PANELBOARD ID AND CIRCUIT NO.
- TRPA5;2 — TYPICAL CIRCUIT DESIGNATION NOTING PANELBOARD ID AND CIRCUIT NUMBER FOR ALL DEVICES IN A ROOM OR SPACE
- TRPA5 — TYPICAL CIRCUIT DESIGNATION NOTING PANELBOARD ID AND CIRCUIT NUMBER FOR ALL DEVICES IN A ROOM OR SPACE. CIRCUIT NUMBER IS SHOWN ONLY WITH DEVICE

LIGHTING ID AND CIRCUIT DESIGNATIONS

- LR3 — LUMINAIRE TYPE
- Z101 — SWITCH CONTROL OR LIGHTING CONTROL ZONE
- LH1;8 — BRANCH CIRCUIT DESIGNATION
- EM — EMERGENCY FIXTURE DESIGNATION

- LR3 — LUMINAIRE TYPE
- LH1;8 — BRANCH CIRCUIT DESIGNATION
- a — SWITCH CONTROL OR LIGHTING CONTROL ZONE

MOUNTING HEIGHTS - ELECTRICAL EQUIPMENT

9" BELOW FINISH CEILING	• WALL MOUNTED BELLS AND FIRE ALARM SOUNDING DEVICE OR AS SHOWN ON ARCHITECTURAL DETAILS) • TV MONITOR OUTLET AND SERVICE RECEPTACLE FOR SHELF MOUNTED TV
CENTERED ABOVE DOOR OR WINDOW OPENING	• WARNING AND SIGNALING FIXTURES / SIGNS
6'-8"	• FIRE ALARM STROBES OR COMBINATION DEVICES WITH STROBES SHALL BE MOUNTED SO THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR. IF CEILING DOES NOT PERMIT A MOUNTING HEIGHT OF AT LEAST 80" ABOVE FINISHED FLOOR, THE LENS OF THE DEVICE SHALL BE 6" OFF THE FINISHED CEILING.
6'-6"	• TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL LIGHTING OR POWER PANEL BOARDS AND TELEPHONE CABINETS.
6'-6"	• TOP OF BACK MOUNTED WALL EXIT FIXTURES (NOT MOUNTED ABOVE DOORS)
6'-0"	• TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES ,MAGNETIC STARTERS, COMBINATION STARTERS, VFD'S AND CONTACTORS
4'-6"	• TOP OF WALL MOUNTED TELEPHONE AND PAY STATIONS, WALL MOUNTED INTERCOM, NURSE CALL STATIONS AND CLOCK CONTROL PANELS (3'-6" AT ADA LOCATIONS)
4'-0" TO TOP OF BOX	• WALL MOUNTED ELECTRICAL DEVICES SUCH AS: LIGHTING SWITCHES, MANUAL MOTOR STARTERS, THERMOSTATS, AND FIRE ALARM PULL STATIONS, • GFI OUTLETS IN TOILET ROOMS, • LOAD CENTERS IN DWELLING UNITS, • INCLUDE ALL FLOOR EQUIPMENT IN LABS AND EQUIPMENT ROOMS.
1'-6"	• ELECTRICAL RECEPTACLES INCLUDING THOSE USED WITHIN MECHANICAL SPACES AND ELEVATOR ROOMS • TELEPHONE, DATA AND COMMUNICATION OUTLETS • CATV AND A/V JUNCTION BOXES.

MOUNTING HEIGHT NOTES

1. MOUNTING HEIGHTS SHALL BE 18" TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IF ELECTRICAL OUTLET HEIGHT OR ANGLE VARIES, COORDINATE WITH GC FOR INSTALLATION. IF IN MASONRY CONSTRUCTION, THE ABOVE HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.
2. MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE ARCHITECTURE DRAWING OR SPECIFICATIONS.
3. A "•" BESIDE A DEVICE INDICATES THAT DEVICE IS MOUNTED ABOVE COUNTER OR CASEWORK, COORDINATE THE MOUNTING HEIGHT WITH ARCHITECTURAL DETAILS AND CASEWORK CONTRACTOR.
4. ALL DEVICES SHOWN ON DRAWINGS ARE DIAGRAMMATIC IN LOCATION AND SHOWN FOR GENERAL WIRING PURPOSES ONLY. ALL DEVICES INDICATED TO BE INSTALLED IN THE SAME LOCATIONS WITH DIFFERENT ELEVATIONS SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS OF SWITCHES, OUTLETS, FIRE ALARM NOTIFICATION DEVICES, FIRE ALARM PULL STATIONS, CLOCKS, CARD READERS AND OTHER SECURITY DEVICES, THERMOSTATS, SENSORS, ETC.
5. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH AHU, ADA REQUIREMENTS AND OTHER TRADES.

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NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/30/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL LEGENDS AND ABBREVIATIONS

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E0.02

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GENERAL NOTES:

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. PROVIDE GROUND FAULT PROTECTION FOR EQUIPMENT PER NEC 215.10 AND 240.13.
3. PROVIDE ENERGY REDUCING MAINTENANCE SWITCHING WITH LOCAL STATUS INDICATION FOR ARC ENERGY REDUCTION.
4. PROVIDE GENERATOR 'GEN-1' WITH LSI CIRCUIT BREAKER(S) LOCATED ON THE GENERATOR FRAME. GENERATOR CIRCUIT BREAKER(S) TO INCLUDE LSI FUNCTIONS TO ACCOMODATE THE NEC SELECTIVE COORDINATION REQUIREMENT (NEC 2017). FUNCTIONALITY SHALL COMPLY WITH NEC ARTICLE 700 'EMERGENCY SYSTEMS' AND NFPA 110-2016, SECTION 5.6 FOR A LEVEL 1 EMERGENCY POWER SUPPLY (EPS). FOR OUTDOOR GENERATOR SETS, THE GENERATOR CIRCUIT BREAKER(S) SHALL BE READILY ACCESSIBLE AS DESCRIBED IN NEC 700.12(B)(6).
5. PROVIDE AND INSTALL WIRING AND RACEWAYS FOR NEW GENERATOR HEATERS AND BATTERY CHARGER. COORDINATE CIRCUIT BREAKER AND CONDUCTOR/CONDUIT SIZES WITH FINAL APPROVED EQUIPMENT.
6. PROVIDE A GENERATOR REMOTE MANUAL STOP STATION AS REQUIRED BY NFPA 110, 5.6.5.6 LOCATE NEAR THE MAINTENANCE MANAGER'S DESK OR AS DIRECTED BY THE MAINTENANCE MANAGER AND THE AHJ.
7. PROVIDE GENERATOR LOCAL AND REMOTE ANNUNCIATION AS REQUIRED BY NFPA 110, 5.6.6 . LOCATE REMOTE ANNUNCIATOR PANEL NEAR THE MAINTENANCE MANAGERS DESK OR AS DIRECTED BY THE MAINTENANCE MANAGER AND THE AHJ.
8. GENERATOR EMISSIONS SHALL COMPY WITH FEDERAL, STATE AND LOCAL CODES.
9. FOR OUTDOOR GENERATOR SETS ONLY, THE EMERGENCY GENERATOR SHALL BE INSTALLED IN A SUITABLE WEATHERPROOF ENCLOSURE CAPABLE OF RESISTING THE ENTRANCE OF SNOW OR RAIN AT MAXIMUM WIND VELOCITY AS REQUIRED BY LOCAL CODES AND NFPA 110-2016, SECITION 7.2.2.1. THE GENERATOR ENCLOSURE SHALL HAVE LEVEL 2 SOUND ATTENUATION. A CRITICAL MUFFLER AND ASSOCIATED RAIN CAP SHALL BE PROVIDED.
10. CONTRACTOR TO NETWORK SUBMETERS TOGETHER AND TIE INTO A CENTRAL LANDLORD BILLING SYSTEM. CONTRACTOR TO PROVIDE ALL WIRING, SUBMETERS, SERVER AND SOFTWARE FOR A COMPLETE, FULLY FUNCTIONAL SYSTEM.
11. EMERGENCY SYSTEM INSTALLATION SHALL COMPLY WITH NEC 2017, ARTICLE 700.
12. LEGALLY REQUIRED SYSTEM INSTALLATION SHALL COMPLY WITH NEC 2017, ARTICLE 701.
13. SEE DETAILS SHEETS FOR GROUNDING INFORMATION.
14. PROVIDE STUDEBAKER ELECTRIC SUB-METER WITH STORAGE CAPABILITIES TO MEASURE KWH, MAXIMUM DEMAND KW, POWER FACTOR, REAL-TIME LOAD KW, AMPS PER PHASE AND VOLTAGE PER PHASE. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NETWORKED BILLING SYSTEM INCLUDING ALL HARDWARE, WIRING, SOFTWARE AND SERVERS. SEE SPECIFICATION 262713 FOR FURTHER INFORMATION.
15. FIELD MARK SERVICE EQUIPMENT WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER 2017, 110.24(A).
16. PROVIDE ARC FLASH LABELING OF ELECTRICAL EQUIPMENT AS REQUIRED BY SPECIFICATION 260573.19 AND NEC 2017, 110.16.
17. CONTRACTOR SHALL PROVIDE ELECTRICAL GENERATOR LOAD CALCULATIONS AS PART OF THE GENERATOR SHOP DRAWINGS SUBMITTAL. FEEDER TAPS SHALL COMPLY WITH NEC 240.21(B)(1).
18. TRANSFORMER SHALL BE DOE 2016 COMPLIANT, SHALL HAVE ALUMINUM WINDINGS AND SHALL BE DESIGNED SO THAT PRIMARY OVERCURRENT PROTECTION (FUSES AND MOLDED CASE CIRCUIT BREAKER) SIZED AT 125% OF THE PRIMARY CURRENT WILL CARRY THE TRANSFORMER IN RUSH CURRENT WITHOUT TRIPPING. CONTRACTOR SHALL PROVIDE MANUFACTURER DATA SHOWING COMPLIANCE.
19. INSTALL PULL BOX/SUPPORTS FOR RISER CONDUCTORS AT INTERVALS PER NEC 300.19; SIZE PULL BOXES AS REQUIRED.
20. ELEVATOR INSTALLATION SHALL COMPLY WITH NEC ARTICLE 620.
21. COORDINATE FINAL ELEVATOR CIRCUIT BREAKER, FUSED DISCONNECT SWITCH, RACEWAY AND WIRE SIZES WITH THE ELEVATOR MANUFACTURER AND THE ELEVATOR SHO DRAWINGS.
22. SHORT CIRCUIT RATINGS OF THE ELEVATOR CONTROLLERS TO BE COORDINATED WITH AVAILABLE FAULT CURRENT IN THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AS DETERMINED BY THE SHORT CIRCUIT STUDY (SPEC NO. 260573.13 SHORT-CIRCUIT STUDIES). THE ELEVATOR MANUFACTURER SHALL PROVIDE ISOLATION TRANSFORMERS OR OTHER MEANS AS REQUIRED TO MEET THE AVAILABLE BUILDING SHORT CIRCUIT CURRENTS. THE ELEVATOR CONTRACTOR SHALL CARRY AN ALLOWANCE TO PROVIDE ISOLATION TRANSFOMERS FOR THE ELEVATORS IN THE EVENT THAT THE ELEVATOR MANUFACTURER IS UNABLE TO MEET THE SHORT CIRCUIT REQUIREMENTS.

DRAWING NOTES: (#)

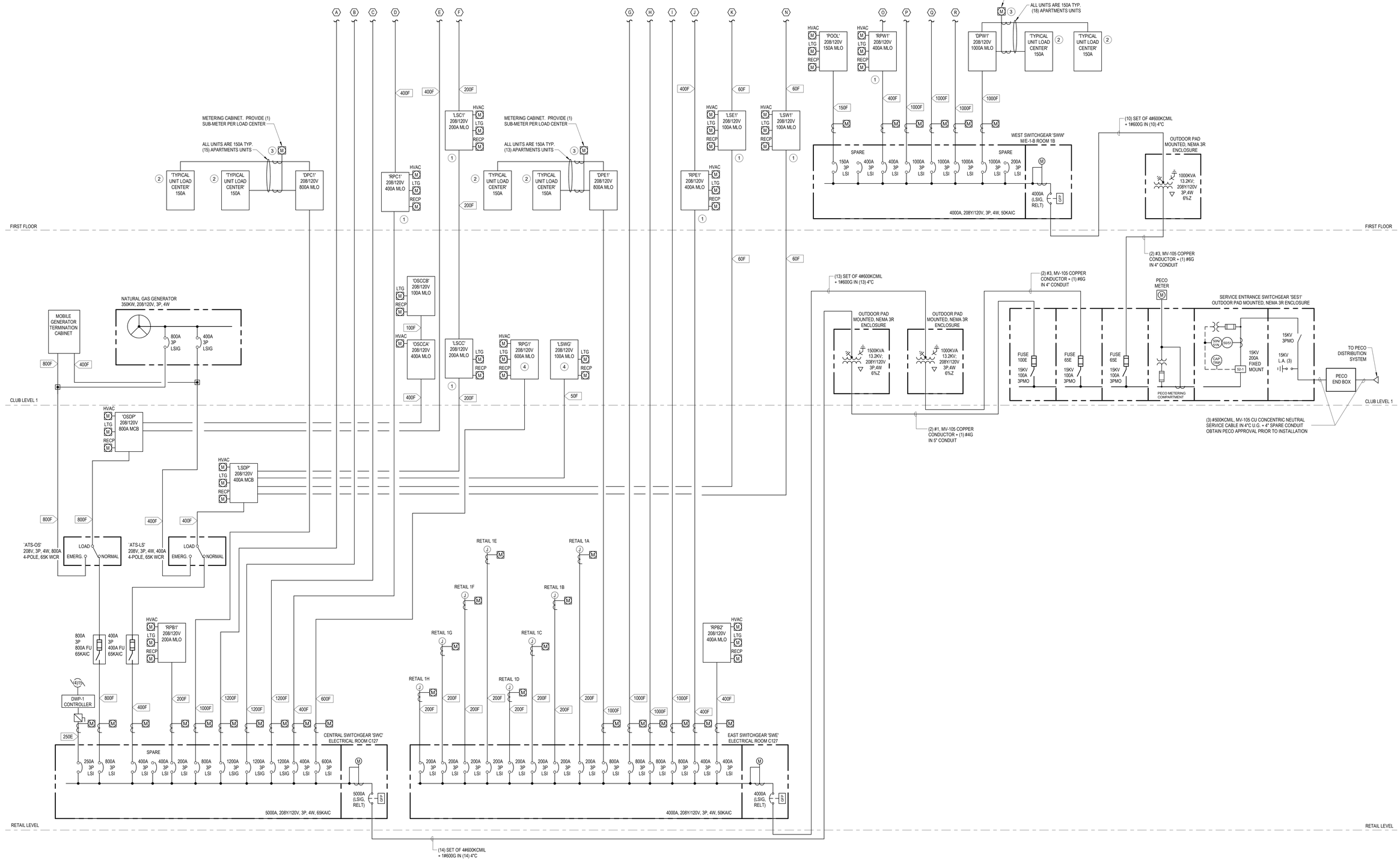
1. PROVIDE PANEL WITH FEED THROUGH LUGS.
2. PROVIDE SERIES RATING SYSTE. PROVIDE MANUFACTURER DOCUMENTATION AND LABELING DEMOSTRATING THE SYSTEM IS SUCCESSFULLY PROTECTED. REFER TO PANEL SCHEDULE FOR FEEDER WIRE SIZE.
3. MULTI METER UNIT CABINET. PROVIDE (1) SUB-METER PER LOAD CENTER.
4. PANELBOARD PART OF A SEPRATE SUBMISSION, REFER TO GRAGRE PERMIT SET FOR INFORMATION.

ELECTRICAL METERING NOTES:

METERING REQUIRED BY ASHRAE 90.1-2016

(1) SECTION 8.4.3.1 MONITORING.
MEASUREMENT DEVICES SHALL BE INSTALLED IN NEW BUILDINGS TO MONITOR THE ELECTRICAL ENERGY USE FOR EACH OF THE FOLLOWING SEPARATELY:
1. TOTAL ELECTRICAL ENERGY
2. HVAC SYSTEMS
3. INTERIOR LIGHTING
4. EXTERIOR LIGHTING
5. RECEPTACLE CIRCUITS

(2) SECTION 8.4.3.2 RECORDING AND REPORTING.
THE ELECTRICAL ENERGY USE FOR ALL LOADS SPECIFIED IN SECTION 8.4.3.1 SHALL BE RECORDED A MINIMUM OF EVERY 15 MINUTES AND REPORTED AT LEAST HOURLY, DAILY, MONTHLY, AND ANNUALLY. THE DATA FOR EACH TENANT SPACE SHALL BE MADE AVAILABLE TO THAT TENANT. IN BUILDINGS WITH A DIGITAL CONTROL SYSTEM INSTALLED TO COMPLY WITH SECTION 8.4.3.10. THE ENERGY USE DATA SHALL BE TRANSMITTED TO THE DIGITAL CONTROL SYSTEM AND GRAPHICALLY DISPLAYED. THE SYSTEM SHALL BE CAPABLE OF MAINTAINING ALL DATA COLLECTED FOR A MINIMUM OF 36 MONTHS.



1 E0.11 **ELECTRICAL SINGLE LINE DIAGRAM**
NONE

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SEPARATE BUDGET PRICING SET	11/01/2022 - 12/2/2022

Project Status

ELECTRICAL SINGLE LINE DIAGRAM

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E0.11

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GENERAL NOTES:

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. PROVIDE GROUND FAULT PROTECTION FOR EQUIPMENT PER NEC 215.10 AND 240.13.
3. PROVIDE ENERGY REDUCING MAINTENANCE SWITCHING WITH LOCAL STATUS INDICATION FOR ARC ENERGY REDUCTION.
4. PROVIDE GENERATOR 'GEN-1' WITH LSI CIRCUIT BREAKER(S) LOCATED ON THE GENERATOR FRAME. GENERATOR CIRCUIT BREAKER(S) TO INCLUDE LSI FUNCTIONS TO ACCOMODATE THE NEC SELECTIVE COORDINATION REQUIREMENT (NEC 2017). FUNCTIONALITY SHALL COMPLY WITH NEC ARTICLE 700 'EMERGENCY SYSTEMS' AND NFPA 110-2016, SECTION 5.6 FOR A LEVEL 1 EMERGENCY POWER SUPPLY (EPS). FOR OUTDOOR GENERATOR SETS, THE GENERATOR CIRCUIT BREAKER(S) SHALL BE READILY ACCESSIBLE AS DESCRIBED IN NEC 700.12(B)(6).
5. PROVIDE AND INSTALL WIRING AND RACEWAYS FOR NEW GENERATOR HEATERS AND BATTERY CHARGER. COORDINATE CIRCUIT BREAKER AND CONDUCTOR/CONDUIT SIZES WITH FINAL APPROVED EQUIPMENT.
6. PROVIDE A GENERATOR REMOTE MANUAL STOP STATION AS REQUIRED BY NFPA 110, 5.6.5.6 LOCATE NEAR THE MAINTENANCE MANAGERS DESK OR AS DIRECTED BY THE MAINTENANCE MANAGER AND THE AHJ.
7. PROVIDE GENERATOR LOCAL AND REMOTE ANNUNCIATION AS REQUIRED BY NFPA 110, 5.6.6 . LOCATE REMOTE ANNUNCIATOR PANEL NEAR THE MAINTENANCE MANAGERS DESK OR AS DIRECTED BY THE MAINTENANCE MANAGER AND THE AHJ.
8. GENERATOR EMISSIONS SHALL COMPY WITH FEDERAL, STATE AND LOCAL CODES.
9. FOR OUTDOOR GENERATOR SETS ONLY, THE EMERGENCY GENERATOR SHALL BE INSTALLED IN A SUITABLE WEATHERPROOF ENCLOSURE CAPABLE OF RESISTING THE ENTRANCE OF SNOW OR RAIN AT MAXIMUM WIND VELOCITY AS REQUIRED BY LOCAL CODES AND NFPA 110-2016, SECITION 7.2.2.1. THE GENERATOR ENCLOSURE SHALL HAVE LEVEL 2 SOUND ATTENUATION. A CRITICAL MUFFLER AND ASSOCIATED RAIN CAP SHALL BE PROVIDED.
10. CONTRACTOR TO NETWORK SUBMETERS TOGETHER AND TIE INTO A CENTRAL LANDLORD BILLING SYSTEM. CONTRACTOR TO PROVIDE ALL WIRING, SUBMETERS, SERVER AND SOFTWARE FOR A COMPLETE, FULLY FUNCTIONAL SYSTEM.
11. EMERGENCY SYSTEM INSTALLATION SHALL COMPLY WITH NEC 2017, ARTICLE 700.
12. LEGALLY REQUIRED SYSTEM INSTALLATION SHALL COMPLY WITH NEC 2017, ARTICLE 701.
13. SEE DETAILS SHEETS FOR GROUNDING INFORMATION.
14. PROVIDE STUDEBAKER ELECTRIC SUB-METER WITH STORAGE CAPABILITIES TO MEASURE KWH. MAXIMUM DEMAND KW, POWER FACTOR, REAL-TIME LOAD KW, AMPS PER PHASE AND VOLTAGE PER PHASE. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NETWORKED BILLING SYSTEM INCLUDING ALL HARDWARE, WIRING, SOFTWARE AND SERVERS. SEE SPECIFICATION 262713 FOR FURTHER INFORMATION.
15. FIELD MARK SERVICE EQUIPMENT WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER 2017, 110.24(A).
16. PROVIDE ARC FLASH LABELING OF ELECTRICAL EQUIPMENT AS REQUIRED BY SPECIFICATION 260573.19 AND NEC 2017, 110.16.
17. CONTRACTOR SHALL PROVIDE ELECTRICAL GENERATOR LOAD CALCULATIONS AS PART OF THE GENERATOR SHOP DRAWINGS SUBMITTAL. FEEDER TAPS SHALL COMPLY WITH NEC 240.21(B)(1).
18. TRANSFORMER SHALL BE DOE 2016 COMPLIANT, SHALL HAVE ALUMINUM WINDINGS AND SHALL BE DESIGNED SO THAT PRIMARY OVERCURRENT PROTECTION (FUSES AND MOLDED CASE CIRCUIT BREAKER) SIZED AT 125% OF THE PRIMARY CURRENT WILL CARRY THE TRANSFORMER IN RUSH CURRENT WITHOUT TRIPPING. CONTRACTOR SHALL PROVIDE MANUFACTURER DATA SHOWING COMPLIANCE.
19. INSTALL PULL BOX/SUPPORTS FOR RISER CONDUCTORS AT INTERVALS PER NEC 300.19; SIZE PULL BOXES AS REQUIRED.
20. ELEVATOR INSTALLATION SHALL COMPLY WITH NEC ARTICLE 620.
21. COORDINATE FINAL ELEVATOR CIRCUIT BREAKER, FUSED DISCONNECT SWITCH, RACEWAY AND WIRE SIZES WITH THE ELEVATOR MANUFACTURER AND THE ELEVATOR SHO DRAWINGS.
22. SHORT CIRCUIT RATINGS OF THE ELEVATOR CONTROLLERS TO BE COORDINATED WITH AVAILABLE FAULT CURRENT IN THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AS DETERMINED BY THE SHORT CIRCUIT STUDY (SPEC NO. 260573.13 SHORT-CIRCUIT STUDIES). THE ELEVATOR MANUFACTURER SHALL PROVIDE ISOLATION TRANSFORMERS OR OTHER MEANS AS REQUIRED TO MEET THE AVAILABLE BUILDING SHORT CIRCUIT CURRENTS. THE ELEVATOR CONTRACTOR SHALL CARRY AN ALLOWANCE TO PROVIDE ISOLATION TRANSFOMERS FOR THE ELEVATORS IN THE EVENT THAT THE ELEVATOR MANUFACTURER IS UNABLE TO MEET THE SHORT CIRCUIT REQUIREMENTS.

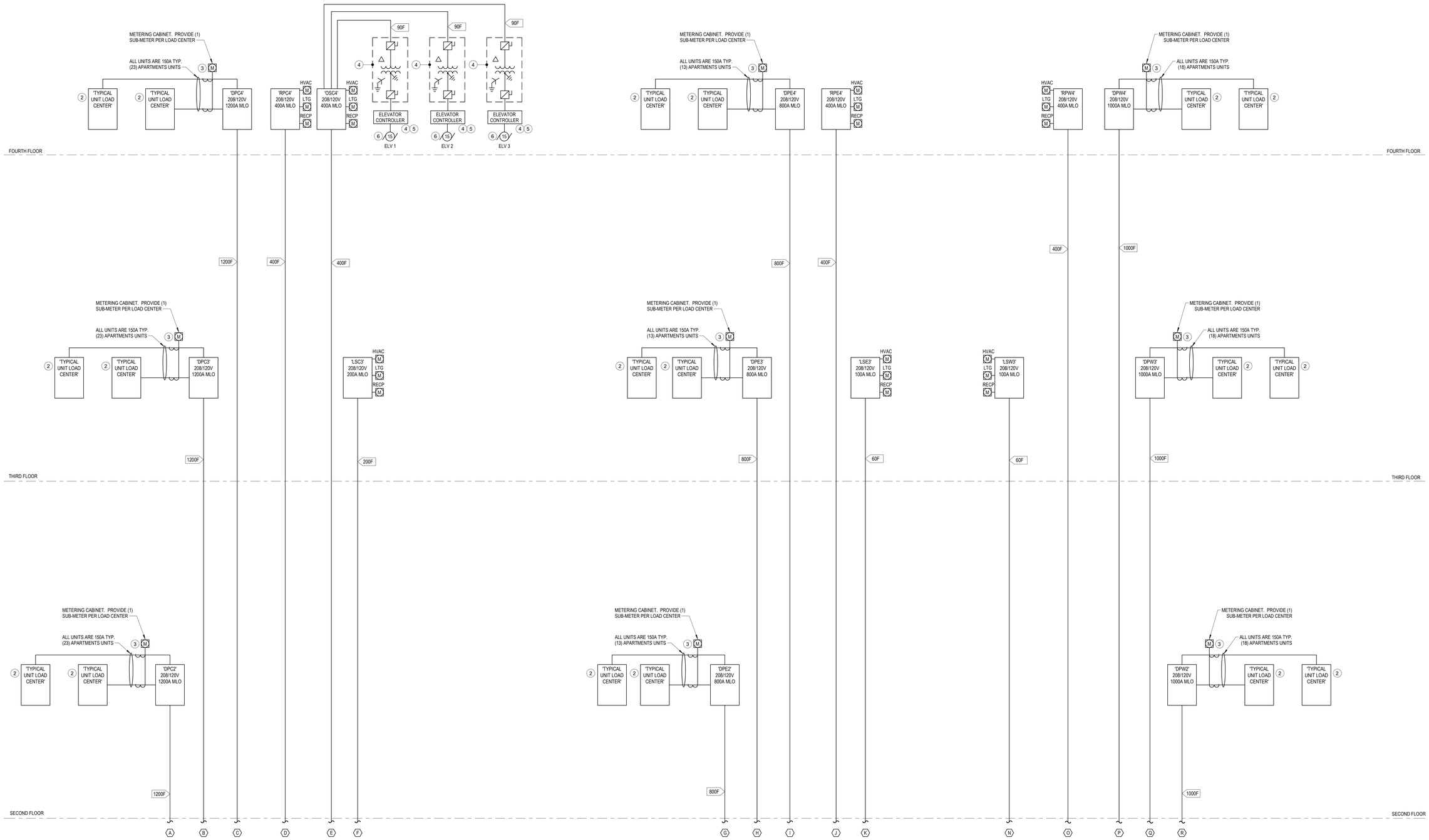
DRAWING NOTES: (#)

1. PROVIDE PANEL WITH FEED THROUGH LUGS.
2. PROVIDE SERIES RATING SYSTE. PROVIDE MANUFACTURER DOCUMENTATION AND LABELING DEMOSTRATING THE SYSTEM IS SUCCESSFULLY PROTECTED.
3. MULTI METER UNIT CABINET, E-MON MMU24 OR EQUAL. PROVIDE (1) SUB-METER PER LOAD CENTER.
4. SHORT CIRCUIT RATINGS OF THE ELEVATOR CONTROLLERS TO BE COORDINATED WITH THE AVAILABLE FAULT CURRENT IN THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AS DETERMINED BY THE SHORT CIRCUIT STUDY (SPEC NO. 260573.13 SHORT-CIRCUIT STUDIES). THE ELEVATOR MANUFACTURER SHALL PROVIDE ISOLATION TRANSFORMERS OR OTHER MEANS AS REQUIRED TO MEET THE AVAILABLE BUILDING SHORT CIRCUIT CURRENTS.
5. ELEVATOR INSTALLATION SHALL COMPLY WITH NEC ARTICLE 620.
6. SEE DETAIL 5/E0.31.

ELECTRICAL METERING NOTES:

METERING REQUIRED BY ASHRAE 90.1-2016
(1) SECTION 8.4.3.1 MONITORING.
MEASUREMENT DEVICES SHALL BE INSTALLED IN NEW BUILDINGS TO MONITOR THE ELECTRICAL ENERGY USE FOR EACH OF THE FOLLOWING SEPARATELY:
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(2) SECTION 8.4.3.2 RECORDING AND REPORTING.
THE ELECTRICAL ENERGY USE FOR ALL LOADS SPECIFIED IN SECTION 8.4.3.1 SHALL BE RECORDED A MINIMUM OF EVERY 15 MINUTES AND REPORTED AT LEAST HOURLY, DAILY, MONTHLY, AND ANNUALLY. THE DATA FOR EACH TENANT SPACE SHALL BE MADE AVAILABLE TO THAT TENANT. IN BUILDINGS WITH A DIGITAL CONTROL SYSTEM INSTALLED TO COMPLY WITH SECTION 6.4.3.10. THE ENERGY USE DATA SHALL BE TRANSMITTED TO THE DIGITAL CONTROL SYSTEM AND GRAPHICALLY DISPLAYED. THE SYSTEM SHALL BE CAPABLE OF MAINTAINING ALL DATA COLLECTED FOR A MINIMUM OF 36 MONTHS.



1 / E0.12 **ELECTRICAL SINGLE LINE DIAGRAM_E12**
NONE

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/20/2022
	SCHEMATIC BUDGET PRICING SET	11/01/2022

Project Status

ELECTRICAL SINGLE LINE DIAGRAM

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E0.12

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COPPER BRANCH AND FEEDER SCHEDULE

AMPS	1P+N+G	2P+G	2P+N+G	3P+G	3P+N+G
	A	C	D	E	F
15	2#12+1#12G, 3/4"C	2#12+1#12G, 3/4"C	3#12+1#12G, 3/4"C	3#12+1#12G, 3/4"C	4#12+1#12G, 3/4"C
20	2#12+1#12G, 3/4"C	2#12+1#12G, 3/4"C	3#12+1#12G, 3/4"C	3#12+1#12G, 3/4"C	4#12+1#12G, 3/4"C
25	2#10+1#10G, 3/4"C	2#10+1#10G, 3/4"C	3#10+1#10G, 3/4"C	3#10+1#10G, 3/4"C	4#10+1#10G, 3/4"C
30	2#10+1#10G, 3/4"C	2#10+1#10G, 3/4"C	3#10+1#10G, 3/4"C	3#10+1#10G, 3/4"C	4#10+1#10G, 3/4"C
35	2#8+1#10G, 3/4"C	2#8+1#10G, 3/4"C	3#8+1#10G, 3/4"C	3#8+1#10G, 3/4"C	4#8+1#10G, 3/4"C
40	2#8+1#10G, 3/4"C	2#8+1#10G, 3/4"C	3#8+1#10G, 3/4"C	3#8+1#10G, 3/4"C	4#8+1#10G, 3/4"C
45	2#6+1#10G, 3/4"C	2#6+1#10G, 3/4"C	3#6+1#10G, 1"C	3#6+1#10G, 1"C	4#6+1#10G, 1"C
50	2#6+1#10G, 3/4"C	2#6+1#10G, 3/4"C	3#6+1#10G, 1"C	3#6+1#10G, 1"C	4#6+1#10G, 1"C
60	2#4+1#10G, 1"C	2#4+1#10G, 1"C	3#4+1#10G, 1"C	3#4+1#10G, 1"C	4#4+1#10G, 1-1/4"C
70	2#4+1#8G, 1"C	2#4+1#8G, 1"C	3#4+1#8G, 1-1/4"C	3#4+1#8G, 1-1/4"C	4#4+1#8G, 1-1/4"C
80	2#3+1#8G, 1"C	2#3+1#8G, 1"C	3#3+1#8G, 1-1/4"C	3#3+1#8G, 1-1/4"C	4#3+1#8G, 1-1/4"C
90	2#2+1#8G, 1"C	2#2+1#8G, 1"C	3#2+1#8G, 1-1/4"C	3#2+1#8G, 1-1/4"C	4#2+1#8G, 1-1/2"C
100	2#1+1#8G, 1-1/4"C	2#1+1#8G, 1-1/4"C	3#1+1#8G, 1-1/2"C	3#1+1#8G, 1-1/2"C	4#1+1#8G, 2"C
110		2#2+1#6G, 1-1/4"C	3#2+1#6G, 1-1/4"C	3#2+1#6G, 1-1/4"C	4#2+1#6G, 1-1/2"C
125		2#1+1#6G, 1-1/4"C	3#1+1#6G, 1-1/2"C	3#1+1#6G, 1-1/2"C	4#1+1#6G, 2"C
150		2#1/0+1#6G, 1-1/2"C	3#3/0+1#6G, 2"C	3#1/0+1#6G, 1-1/2"C	4#1/0+1#6G, 2"C
175		2#2/0+1#6G, 1-1/2"C	3#2/0+1#6G, 2"C	3#2/0+1#6G, 2"C	4#2/0+1#6G, 2"C
200		2#3/0+1#6G, 1-1/2"C	3#3/0+1#6G, 2"C	3#3/0+1#6G, 2"C	4#4/0+1#4G, 2-1/2"C
225		2#4/0+1#4G, 2"C	3#4/0+1#4G, 2"C	3#4/0+1#4G, 2"C	4#4/0+1#4G, 2-1/2"C
250		2#250+1#4G, 2"C	3#250+1#4G, 2-1/2"C	3#250+1#4G, 2-1/2"C	4#250+1#4G, 3"C
300		2#350+1#4G, 2"C	3#350+1#4G, 3"C	3#350+1#4G, 3"C	4#350+1#4G, 3"C
350		2#500+1#3G, 2-1/2"C	3#500+1#3G, 3"C	3#500+1#3G, 3"C	4#500+1#3G, 3-1/2"C
400		2#600+1#3G, 3"C	3#600+1#3G, 3-1/2"C	3#600+1#3G, 3-1/2"C	4#600+1#3G, 4"C
450				(2 Sets) 3#4/0+1#2G, (2) 2"C	(2 Sets) 4#4/0+1#2G, (2) 2-1/2"C
500				(2 Sets) 3#250+1#2G, (2) 2-1/2"C	(2 Sets) 4#250+1#2G, (2) 3"C
600				(2 Sets) 3#350+1#1G, (2) 3"C	(2 Sets) 4#350+1#1G, (2) 3"C
700				(2 Sets) 3#500+1#1/0G, (2) 3"C	(2 Sets) 4#500+1#1/0G, (2) 3-1/2"C
800				(2 Sets) 3#600+1#1/0G, (2) 3-1/2"C	(2 Sets) 4#600+1#1/0G, (2) 4"C
1000				(3 Sets) 3#400+1#2/0G, (3) 3"C	(3 Sets) 4#600+1#2/0G, (3) 4"C
1200				(3 Sets) 3#600+1#3/0G, (3) 3-1/2"C	(4 Sets) 4#600+1#4/0G, (4) 4"C
1600				(4 Sets) 3#600+1#4/0G, (4) 3-1/2"C	(4 Sets) 4#600+1#4/0G, (4) 4"C
2000				(5 Sets) 3#600+1#250G, (5) 3-1/2"C	(5 Sets) 4#600+1#250G, (5) 4"C
2500				(6 Sets) 3#600+1#350G, (6) 3-1/2"C	(6 Sets) 4#600+1#350G, (6) 4"C
3000				(8 Sets) 3#500+1#400G, (8) 3-1/2"C	(8 Sets) 4#500+1#400G, (8) 3-1/2"C
4000				(10 Sets) 3#600+1#500G, (10) 3-1/2"C	(10 Sets) 4#600+1#500G, (10) 4"C

NOTES:

1. DESIGN BASIS:
   a. CONDUCTOR SIZES BASED ON AMBIENT TEMPERATURE OF 78F TO 86F (26C TO 30C). FOR AMBIENT TEMPERATURES ABOVE 30C, THE AMPACITY SHALL BE REDUCED PER NEC TABLE 310.15(B)(2)(a). WIRE SIZES SHALL NOT BE REDUCED BELOW THE 30C RATING.
   b. OCPD SIZES FOR SMALL CONDUCTORS BASED ON NEC 240.4(D)(3), NEC 240.4(D)(5) AND NEC 240.4(D)(7).
   c. CONDUCTOR SIZES BASED ON 60C COLUMN OF NEC 2017 TABLE 310.15(B)(16) FOR 100A AND SMALLER OCPDs. WIRES ARE ALLOWED TO BE SIZED BASED ON THE 75C COLUMN AS PERMITTED BY THE NEC AND WHEN COORDINATED WITH EQUIPMENT TERMINATION TEMPERATURE RATINGS AT EACH WIRE TERMINATION POINT.
   d. CONDUCTOR SIZES BASED ON 75C COLUMN OF NEC 2017 TABLE 310.15(B)(16) FOR OCPDs LARGER THAN 100A.
   e. WHEN TYPE NM CABLE IS ALLOWED ON THE PROJECT, THE WIRE SIZES SHALL BE BASED ON THE 60C COLUMN OF NEC 2017 TABLE 310.15(B)(16).
2. CONDUIT SIZES ARE BASED ON THHW COPPER CONDUCTORS AND DO NOT APPLY TO CONDUCTORS WITH LARGER DIAMETERS THAN THHW. REFER TO THE PROJECT SPECIFICATIONS FOR SPECIFIC WIRE REQUIREMENTS.
3. RACEWAY SIZES SHOWN IN THE ABOVE TABLE APPLY TO TYPES EMT, FMC, IMC, LFMC, RMC AND PVC SCHEDULE 40. THE ABOVE RACEWAY SIZES DO NOT APPLY TO PVC SCHEDULE 80 CONDUIT. IF PVC SCHEDULE 80 CONDUIT IS REQUIRED, CONSULT THE ENGINEER OF RECORD FOR CONDUIT SIZING OR SEE THE SPECIFIC WIRE/CONDUIT CALLOUT ON THE SINGLE LINE DIAGRAM. REFER TO THE PROJECT SPECIFICATIONS FOR SPECIFIC RACEWAY REQUIREMENTS.
4. CONDUCTOR SIZES SHOWN IN THE ABOVE TABLE ARE IN AWG FOR WIRES SMALLER THAN 250KCMIL AND ARE IN KCMIL FOR 250KCMIL WIRES AND LARGER.
5. IF ALUMINUM CONDUCTORS ARE APPROVED DURING THE BIDDING PROCESS BY THE OWNER & THE ENGINEER, THE CONTRACTOR SHALL PROVIDE A SUBMITTAL INDICATING EQUIVALENT FEEDERS AND CONDUITS.
6. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL EQUIPMENT LUG SIZES AND RATINGS WITH THE CONDUCTORS.
7. PARALLEL SETS OF SMALLER CONDUCTORS IN LIEU OF 600KCMIL IS PERMITTED AS ALLOWED BY CODE AND UPON APPROVAL BY THE ENGINEER.
8. ALL WIRING SHALL BE RATED AT 90C MINIMUM BASED ON THE INSTALLATION CONDITIONS. UNDERGROUND CONDUITS SHALL BE CONSIDERED WET LOCATIONS.

TYPE	CONTROL DEVICES	SEQUENCE OF OPERATION - ASHRAE 90.1 2016
O1	WALL SWITCH OCCUPANCY SENSOR WITH INTEGRAL OVERRIDE SWITCH	WHEN OCCUPIED, ALL LIGHTING IN ROOM SHALL AUTOMATICALLY SWITCH TO FULL ON AND SHALL OVERRIDE SWITCH SHALL BE CAPABLE OF TURNING OFF ALL LIGHTING IN THE ROOM. RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.
O2	CEILING OR WALL MOUNTED OCCUPANCY SENSOR WITH POWER-PACK OR RELAY AND WALL MOUNTED OVERRIDE SWITCH	WHEN OCCUPIED, ALL LIGHTING IN ROOM SHALL AUTOMATICALLY SWITCH TO FULL ON AND SHALL RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.
O4	CEILING OR WALL MOUNTED OCCUPANCY SENSOR(S) WITH POWER-PACK OR RELAY AND WALL MOUNTED DIMMING / OVERRIDE SWITCH	WHEN OCCUPIED, ALL LIGHTING IN ROOM SHALL AUTOMATICALLY SWITCH ON TO 50% OF MAXIMUM OUTPUT. OVERRIDE SWITCH SHALL BE CAPABLE OF ADJUSTING LIGHT OUTPUT TO FULL ON, FULL OFF, AND DIMMING. ROOM LIGHTING SHALL RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.
O5	CEILING OR WALL MOUNTED OCCUPANCY SENSOR(S) WITH POWER-PACK OR RELAY AND WALL MOUNTED DIMMING / OVERRIDE SWITCH FOR EACH CONTROL ZONE	WHEN OCCUPIED, ALL LIGHTING IN ROOM SHALL AUTOMATICALLY SWITCH ON TO 50% OF MAXIMUM OUTPUT. OVERRIDE SWITCH FOR EACH CONTROL ZONE SHALL BE CAPABLE OF ADJUSTING LIGHT OUTPUT TO FULL ON, FULL OFF, AND DIMMING. ROOM LIGHTING SHALL RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.
V1	WALL SWITCH VACANCY SENSOR WITH INTEGRAL OVERRIDE SWITCH	OVERRIDE SWITCH SHALL BE CAPABLE OF SWITCHING ALL LIGHTING TO FULL ON OR FULL OFF. ROOM LIGHTING SHALL RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.
V3	WALL SWITCH VACANCY SENSOR WITH INTEGRAL DIMMING / OVERRIDE SWITCH	OVERRIDE SWITCH SHALL BE CAPABLE OF SWITCHING ALL LIGHTING TO FULL ON (OR PRESET), FULL OFF, AND DIMMING. ROOM LIGHTING SHALL RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.
V5	CEILING OR WALL MOUNTED VACANCY SENSOR(S) WITH WALL MOUNTED DIMMING / OVERRIDE SWITCHES FOR EACH CONTROL ZONE	OVERRIDE SWITCH FOR EACH CONTROL ZONE SHALL BE CAPABLE OF SWITCHING ALL LIGHTING TO FULL ON (OR PROGRAMMED PRESET), FULL OFF, AND DIMMING. ROOM LIGHTING SHALL RETURN TO FULL OFF WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES.
T1	TIME CLOCK CONTROL WITH SCHEDULED AUTOMATIC FULL ON AND AUTOMATIC FULL OFF	SCHEDULE TO ACCOUNT FOR NORMAL WORKING HOURS, WEEKENDS AND HOLIDAYS. PROVIDE OVERRIDE SWITCHES AS SHOWN ON PLAN TO OVERRIDE SCHEDULED OFF PERIODS FOR NOT MORE THAN TWO HOURS PER ACTIVATION. WHEN USED FOR OPEN OFFICE, FULL ON IS PERMITTED PROVIDED THE CONTROL ZONE IS NO LARGER THAN 600 SQUARE FT. WHEN OVERRIDE IS USED PROVIDE FLASH FUNCTION 10 MINUTES BEFORE TIMEOUT.
D1	SIDELIGHT DAYLIGHT HARVESTING, PRIMARY ZONE AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS AND CONTINUOUS DIMMING	PROVIDE DIMMABLE LIGHT FIXTURES AND CONTROLS TO CONTINUOUSLY ADJUST THE LIGHT OUTPUT BASED ON THE AMOUNT OF AVAILABLE DAYLIGHT. DAYLIGHT SENSORS SHOWN ON LIGHTING PLANS ARE PLACED AT SUGGESTED LOCATIONS AND SHALL BE INSTALLED ACCORDING TO MANUFACTURER INSTRUCTIONS. CONTROL DEVICES SHALL BE IN READILY ACCESSIBLE LOCATION AND MOUNTED NO HIGHER THAN 11 FEET ABOVE FINISHED FLOOR.
M1	MANUAL LIGHT SWITCH(S) USED TO CONTROL ROOM LIGHTING	MANUAL LIGHT SWITCH(S) USED TO CONTROL ROOM LIGHTING, ALL LIGHTING IN ROOM SHALL MANUALLY SWITCH TO FULL ON, AND MANUALLY SWITCH TO FULL OFF. MANUAL SWITCH USED WHERE AUTOMATIC SHUTOFF WOULD ENDANGER THE SAFETY OR SECURITY OF ROOM OR BUILDING OCCUPANTS.
S2	STAIRWELL, INTEGRAL FIXTURE CONTROLS	LIGHTING ALWAYS ON AT REDUCED LEVEL (30% - 50% OF FULL LEVEL) WHEN UNOCCUPIED. PROVIDE LIGHT FIXTURES WITH INTEGRAL OCCUPANCY SENSOR TO RAISE THE LIGHT OUTPUT TO 100% WHEN OCCUPIED. STAIRWELL LIGHTING SHALL RETURN TO REDUCED LEVEL WHEN UNOCCUPIED FOR NO MORE THAN 20 MINUTES. LIGHTING TO BE ON EMERGENCY POWER, WHEN GENERATOR IS USED FOR EMERGENCY POWER, PROVIDE INTEGRAL BATTERY IN EACH LIGHT FIXTURE.
G1	GARAGE, GENERAL LIGHTING - OCCUPANCY SENSOR CONTROLS	SCHEDULE SHUTOFF REQUIRED FOR ALL LIGHTING WITH MAXIMUM CONTROL ZONE LIMITED TO 3,600 SQUARE FEET. WHEN LIGHTING IS SCHEDULED TO BE ON AND UNOCCUPIED, LIGHTING IS SET TO 50% OF FULL LEVEL. OCCUPANCY SENSORS ARE REQUIRED TO TURN LIGHTING ON IN EACH CONTROL ZONE IN A UNIFORM MANNER.
G2	GARAGE, TRANSITION ZONES - TIME CLOCK OR PHOTOS SENSOR CONTROLS	SCHEDULE SHUTOFF REQUIRED FOR ALL LIGHTING WITH MAXIMUM CONTROL ZONE LIMITED TO 3,600 SQUARE FEET. TRANSITION ZONES AT VEHICLE ENTRANCE AND EXIT AREAS SHALL BE CONTROLLED SEPARATELY, LIGHTING DURING DAYLIGHT HOURS SHALL BE AT FULL LIGHT LEVEL AND USE AN ASTRONOMICAL TIME CLOCK OR PHOTO SENSOR TO REDUCE THE LIGHTING TO 50% OF FULL LEVEL FROM SUNSET TO SUNRISE.
R2	AUTOMATIC RECEPTACLE CONTROL USING LIGHTING CONTROLS	ALL CONTROLLED RECEPTACLES IN THE SPACE SHALL BE SWITCHED OFF WHEN THE SPACE IS UNOCCUPIED FOR NO MORE THAN 20 MINUTES. ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED PER NEC 406.4(E), TO VISUALLY DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES.

NOTES:

1. PER ASHRAE 90.1 2016, 9.4.3, ALL LIGHTING CONTROL DEVICES AND CONTROL SYSTEMS SHALL BE FUNCTIONALLY TESTED FOR PROPER OPERATION BY AN INDEPENDENT PARTY THAT IS NOT DIRECTLY INVOLVED WITH EITHER THE DESIGN OR THE CONSTRUCTION OF THE LIGHTING SYSTEM.
2. ALL CALIBRATION MECHANISMS SHALL BE IN ACCESSIBLE LOCATIONS.
3. ALL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND TIME SETTINGS DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
4. LIGHTING CONTROLS SHALL BE CONFIGURED SUCH THAT DAYLIGHT RESPONSIVE CONTROL ARE ONLY ACTIVE WHEN OCCUPANCY FOR THE SAME ROOMS OR SPACES IS DETECTED.
5. FIXTURES NOTED WITH `EM' (SWITCHED OR DIMMED EMERGENCY) OR `EM/NL' (NIGHT LIGHT) ARE FOR EMERGENCY EGRESS LIGHTING. NIGHT LIGHTS SHALL BE DIMMED TO MATCH PRESETS FOR LIKE TYPES OF ADJACENT LIGHTING. PROVIDE EMERGENCY POWER FOR THESE FIXTURES AND EXIT SIGNS FROM AVAILABLE CIRCUITS OF EMERGENCY PANELS LOCATED. PROVIDE STEP DOWN TRANSFORMER FOR 120V FIXTURES DESIGNATED FOR EMERGENCY.

LIGHTING FIXTURE SCHEDULE

UNIT LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	WATTAGE	VOLTS	MANUFACTURER	CATALOG #
U1	FLUSH/SEMI-FLUSH MOUNT	FLUSH MOUNT	24W	UNV	LITHONIA	FMSATL-16-20840-BN
U2	LINEAR FLUSH MOUNT	FLUSH MOUNT	35W	UNV	LITHONIA	FMFL-30840-SATL-BN
U3	LED FABRIC DRUM	CEILING/WALL	24W	UNV	LITHONIA	DFMADRL-14-F01; FMPANL-14-20840-M6
U4	BLANK UP KIT	CEILING/WALL	N/A	UNV	SATCO	90-069
U5	THREE-LIGHT BATH	WALL	28.5W	UNV	PROGRESS	P300187-009-30
U6	LED MUSHROOM	FLUSH MOUNT	20W	UNV	LITHONIA	FMMUSL-9-14840-WH
U7	LED MINI-PENDANT FITTERS	CEILING	9.5W	UNV	LITHONIA	MDPC-BNP-M6;DGDT 1003
U8	SURFACE MOUNT LED DOWNLIGHT	SURFACE	15.9W	UNV	HALO	SMD6R-12-930-WH
U9	7" LED FLUSH MOUNT	FLUSH MOUNT	10.5W	UNV	NUVO	62-1161
U10	LED WALL PACK	WALL	22.8W	UNV	LITHONIA	OLWPLED-P1-40K-120-PE-BZ
U11	UNIT ENTRY SCONCE	WALL	10W MAX	120	TBD	TBD BY INTERIOR DESIGNER

BOH LIGHTING FIXTURE SCHEDULE

B1	4FT LED LINEAR	SURFACE	35W	UNV	LITHONIA	CSS L48 ALO3 MVOLT SWW3 80CRI
B2	4FT LED STAIRWELL	SURFACE	40W	UNV	LITHONIA	BLWP4 48L ADPT EZ1 E10WLCP LP840 NLTAIR2 RES7PDT
B3	ELEVATOR SHAFT LIGHT	SURFACE	42W	UNV	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI
B4	4FT LED CHAIN HUNG	SUSPENDED	35W	UNV	LITHONIA	CSS L48 ALO3 MVOLT SWW3 80CRI + ZACVH M100
B5	LED WALL PACK	WALL	35W	UNV	LITHONIA	TWX1 LED P1 40K MVOLT PE
C1	UNIT ENTRY SCONCE	WALL	10W MAX	120	TBD	TBD BY INTERIOR DESIGNER
C2	16" DIA COMMON CORR. LIGHTING	SURFACE	24W	UNV	LITHONIA	FMSATL-16-20840-BN
C3	4' INDUSTRIAL STRIP	SURFACE	40W	120	LITHONIA	ZL1N-L48-5000LM-FST-MVOLT-40K-80CRI-WH
C4	2x4 VOLUMETRIC LIGHTING	RECESSED	55W	120	LITHONIA	2RTL4-40L-EZB-LP840-N80
X1/X2	EDGE LIT EXIT SIGN	CEILING/WALL	5W	UNV	LITHONIA	QXEDGP S RM WB WH
X3	WEATHERPROOF EXIT SIGNS	CEILING/WALL	2.5W	UNV	LITHONIA	WLTE W 1 R EL

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NO.	REVISION	DATE
1	PERMIT SET	11/30/2022
	SCHEMATIC BUDGET PRICING SET	12/20/2022

Project Status

ELECTRICAL SCHEDULES

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E0.21

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Panelboard: RPB1

Location: | **Supply From:** SWC | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 42kAIC | **Mains Type:** MLO | **Mains Rating:** 200 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	A	B	C	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	DOG WASH & EXTERIOR RECEPT	20 A	1	900 / 2500						2		
	30C	3	CUH-A - COOR. R002	30 A	2		2500 / 2500		2	30 A	CUH-A - STAIR 7	4	30C	
		5						2500 / 2500				6		
	30C	7	CUH-A - MOV IN/OUT	30 A	2	2500 / 2500			2	30 A	UH-A - TRASH 1T-R	8	30C	
		9					2500 / 2500					10		
		11						2102 / 2500	2	30 A	CUH-A - INCOMING WATER	12	30C	
	30F	13	TRASH COMPACTOR	30 A	3	2102 / 693						14		
		15					2102 / 693		2	20 A	FCUs & BS	16	20C	
	30C	17	UH-A - UTILITY RM.	30 A	2			2500 / 1176	1	20 A	ELEVATOR 1 SUMP PUMP	18	20A	
		19				2500 / 2500			2	30 A	CUH-A - STAIR 8	20	30C	
	20A	21	RETAIL LVL - LIGHTING	20 A	1		1146 / 2500					22		
	20A	23	LVL 01 - LIGHTING	20 A	1			35 / 900	1	20 A	CORRIDOR RECEPT	24	20A	
	20A	25	MOVE IN/OUT RM RECEPT	20 A	1	900 / 720			1	20 A	MAINTENANCE RM RECEPT	26	20A	
	20A	27	RECEPT	20 A	1		720 / 540		1	20 A	RECEPT	28	20A	
	20A	29	DRY VALVE AIR COMPRESSOR	20 A	1			1176 / 1500	1	20 A	LVL 01 - TRASH OVERHEAD DOOR	30	20A	
	20A	31	WALK-IN REFRIG. - LIGHTS	20 A	1	500 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
--	--	43	SPARE	20 A	1	0 / 0			1	20 A	SPARE	44	--	--
--	--	45	SPARE	20 A	1		0 / 0		1	20 A	SPARE	46	--	--
--	--	47	SPARE	20 A	1			0 / 0	1	20 A	SPARE	48	--	--
--	--	49	SPARE	20 A	1	0 / 0			1	20 A	SPARE	50	--	--
--	--	51	SPARE	20 A	1		0 / 0		1	20 A	SPARE	52	--	--
--	--	53	SPARE	20 A	1			0 / 0	1	20 A	SPARE	54	--	--
					Load Per...	18314 VA	17700 VA	16889 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	1181 VA	125.00%	1476 VA	TOTAL CONNECTED LOAD:	52903 VA
HVAC	36385 VA	100.00%	36385 VA	TOTAL ESTIMATED DEMAND:	53198 VA
EQUIPMENT	10657 VA	100.00%	10657 VA	TOTAL CONNECTED CURRENT:	147 A
RECEPT	4680 VA	100.00%	4680 VA	TOTAL ESTIMATED DEMAND CURRENT	148 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: RPB2

Location: | **Supply From:** SWE | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 42kAIC | **Mains Type:** MLO | **Mains Rating:** 400 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	A	B	C	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	30C	1	UH-A - RETAIL 1A	30 A	2	2500 / 2500						2		
		3					2500 / 2500		2	30 A	UH-A - RETAIL 1A	4	30C	
	60C	5	UH-C - RETAIL 1A	60 A	2			5000 / 2500				6		
		7				5000 / 2500			2	30 A	UH-A - RETAIL 1B	8	30C	
	30C	9	UH-A - RETAIL 1C	30 A	2		2500 / 2500					10		
		11						2500 / 2500	2	30 A	UH-A - RETAIL 1D	12	30C	
	60C	13	UH-C - RETAIL 1D	60 A	2	5000 / 5000						14		
		15					5000 / 5000		2	60 A	UH-C - RETAIL 1E	16	60C	
	45C	17	UH-B - RETAIL 1F	45 A	2			3750 / 2500				18		
		19				3750 / 2500			2	30 A	UH-A - RETAIL 1F	20	30C	
	30C	21	UH-A - RETAIL 1G	30 A	2		2500 / 3750					22	45C	
		23						2500 / 3750	2	45 A	UH-B - RETAIL 1H	24		
	30C	25	UH-A - RETAIL 1H	30 A	2	2500 / 175			1	20 A	LIGHTING RETAIL 1D	26	20A	
		27					2500 / 210		1	20 A	LIGHTING RETAIL 1E	28	20A	
	20A	29	LIGHTING RETAIL 1A	20 A	1			175 / 175	1	20 A	LIGHTING RETAIL 1F	30	20A	
	20A	31	LIGHTING RETAIL 1B	20 A	1	140 / 140			1	20 A	LIGHTING RETAIL 1G	32	20A	
	20A	33	LIGHTING RETAIL 1C	20 A	1		140 / 140		1	20 A	LIGHTING RETAIL 1H	34	20A	
		35						2500 / 0	1	20 A	SPARE	36	--	--
	30C	37	CUH-A - STAIR 6	30 A	2	2500 / 0			1	20 A	SPARE	38	--	--
	20A	39	CORR. R002 & EXTERIOR RECEPT	20 A	1		1080 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
--	--	43	SPARE	20 A	1	0 / 0			1	20 A	SPARE	44	--	--
--	--	45	SPARE	20 A	1		0 / 0		1	20 A	SPARE	46	--	--
--	--	47	SPARE	20 A	1			0 / 0	1	20 A	SPARE	48	--	--
--	--	49	SPARE	20 A	1	0 / 0			1	20 A	SPARE	50	--	--
--	--	51	SPARE	20 A	1		0 / 0		1	20 A	SPARE	52	--	--
--	--	53	SPARE	20 A	1			0 / 0	1	20 A	SPARE	54	--	--
					Load Per...	34205 VA	30320 VA	27850 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	1295 VA	125.00%	1619 VA	TOTAL CONNECTED LOAD:	92375 VA
HVAC	90000 VA	100.00%	90000 VA	TOTAL ESTIMATED DEMAND:	92699 VA
RECEPT	1080 VA	100.00%	1080 VA	TOTAL CONNECTED CURRENT:	256 A
				TOTAL ESTIMATED DEMAND CURRENT	257 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: RPC1

Location: | **Supply From:** SWC | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:** FEED THRU LUGS
A.I.C. Rating: 42kAIC | **Mains Type:** MLO | **Mains Rating:** 400 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	A	B	C	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	LVL 02 - CORRIDOR RECEPT	20 A	1	900 / 900			1	20 A	LVL 01 - CORRIDOR RECEPT	2	20A	
	20A	3	LVL 02 - TRASH/ELEC RM RECEPT	20 A	1		360 / 180		1	20 A	LVL 01 - ELEC RM RECEPT	4	20A	
	20A	5	LVL 02 - LIGHTING	20 A	1			155 / 360	1	20 A	LVL 01 - EXTERIOR RECEPT	6	20A	
	20A	7	LVL 01 - LIGHTING	20 A	1	216 / 540			1	20 A	LVL 02 - CORRIDOR RECEPT	8	20A	
	30C	9	LVL 01 - CUH-A - STAIR 5	30 A	2		2500 / 155		1	20 A	LVL 01 - LIGHTING	10	20A	
		11						2500 / 395	1	20 A	LVL 02 - LIGHTING	12	20A	
	30C	13	LVL 04 - CUH-A - STAIR 7	30 A	2	2500 / 0			1	20 A	SPARE	14	--	--
		15					2500 / 0		1	20 A	SPARE	16	--	--
--	--	17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18	--	--
--	--	19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20	--	--
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
					Load Per...	19359 VA	16853 VA	17633 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	2021 VA	125.00%	2526 VA	TOTAL CONNECTED LOAD:	53844 VA
HVAC	43043 VA	100.00%	43043 VA	TOTAL ESTIMATED DEMAND:	54349 VA
EQUIPMENT	500 VA	100.00%	500 VA	TOTAL CONNECTED CURRENT:	149 A
RECEPT	8280 VA	100.00%	8280 VA	TOTAL ESTIMATED DEMAND CURRENT	151 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: DPC1

Location: | **Supply From:** SWC | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 65kAIC | **Mains Type:** MLO | **Mains Rating:** 800 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	150D	1	LVL 01 - LC-B UNIT 122	150 A	2	13657 / 13829						2		
		3					13657 / 13829		2	150 A	LVL 01 - LC-B4 UNIT 123	4	150D	
	150D	5	LVL 01 - LC-E (FW-2) UNIT 108	150 A	2			14671 / 14142				6		
		7				14671 / 14142			2	150 A	LVL 01 - LC-B3 UNIT 103	8	150D	
	150D	9	LVL 01 - LC-A UNIT 107	150 A	2		13745 / 13657					10		
		11						13745 / 13657	2	150 A	LVL 01 - LC-B UNIT 104	12	150D	
	150D	13	LVL 01 - LC-D UNIT 106	150 A	2	14704 / 14704						14		
		15					14704 / 14704		2	150 A	LVL 01 - LC-D UNIT 105	16	150D	
	150D	17	LVL 01 - LC-B2 UNIT 102	150 A	2			13782 / 14669				18		
		19				13782 / 14669			2	150 A	LVL 01 - LC-E UNIT 124	20	150D	
	150D	21	LVL 01 - LC-B UNIT 125	150 A	2		13657 / 14387					22	150D	
		23						13657 / 14387	2	150 A	LVL 01 - LC-D F1 UNIT 126	24		
	150D	25	LVL 01 - LC-C UNIT 134	150 A	2	14625 / 13742						26	150D	
		27					14625 / 13742		2	150 A	LVL 01 - LC-B6 UNIT 135	28		
	150D	29	LVL 01 - LC-B5 UNIT 136	150 A	2			13763 / 0				30		
		31				13763 / 0						32		
		33										34		
		35										36		
		37										38		
		39										40		
		41										42		
					Load Per...	156286 VA	140705 VA	126471 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
POWER - UNIT PLAN	423461 VA	40.00%	169384 VA	TOTAL CONNECTED LOAD:	423461 VA
				TOTAL ESTIMATED DEMAND:	169384 VA
				TOTAL CONNECTED CURRENT:	1175 A
				TOTAL ESTIMATED DEMAND CURRENT	470 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: DPC2

Location: | **Supply From:** SWC | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 65kAIC | **Mains Type:** MLO | **Mains Rating:** 1200 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	A	B	C	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	150D	1	LVL 02 - LC-B UNIT 222	150 A	2	13657 / 13829						2		
		3					13657 / 13829		2	150 A	LVL 02 - LC-B4 UNIT 223	4	150D	
	150D	5	LVL 02 - LC-E (FW-2) UNIT 208	150 A	2			14671 / 14142				6		
		7				14671 / 14142			2	150 A	LVL 02 - LC-B3 UNIT 203	8	150D	
	150D	9	LVL 02 - LC-C2 UNIT 207	150 A	2		13869 / 13657					10		
		11						13869 / 13657	2	150 A	LVL 02 - LC-B UNIT 204	12	150D	
	150D	13	LVL 02 - LC-D UNIT 205	150 A	2	14704 / 14704						14		
		15					14704 / 14704		2	150 A	LVL 02 - LC-D UNIT 206	16	150D	
	150D	17	LVL 02 - LC-B2 UNIT 202	150 A	2			13782 / 14669				18		
		19				13782 / 14669			2	150 A	LVL 02 - LC-E UNIT 224	20	150D	
	150D	21	LVL 02 - LC-B UNIT 225	150 A	2		13657 / 14387					22	150D	
		23						13657 / 14387	2	150 A	LVL 02 - LC-D F1 UNIT 226	24		
	150D	25	LVL 02 - LC-E (FW-1) UNIT 201	150 A	2	14667 / 14669						26	150D	
		27					14667 / 14669		2	150 A	LVL 02 - LC-E UNIT 233	28		
	150D	29	LVL 01 - LC-B UNIT 232	150 A	2			13657 / 14625				30	150D	
		31				13657 / 14625			2	150 A	LVL 02 - LC-C UNIT 227	32		
	150D	33	LVL 02 - LC-C UNIT 228	150 A	2		14625 / 14625					34	150D	
		35						14625 / 14625	2	150 A	LVL 02 - LC-C UNIT 231	36		
	150D	37	LVL 02 - LC-D UNIT 230	150 A	2	14704 / 14704						38	150D	
		39					14704 / 14704		2	150 A	LVL 02 - LC-D UNIT 229	40		
	150D	41	LVL 02 - LC-C UNIT 234	150 A	2			14625 / 13742				42	150D	
		43				14625 / 13742			2	150 A	LVL 02 - LC-B6 UNIT 235	44		
	150D	45	LVL 02 - LC-B5 UNIT 236	150 A	2		13763 / 0					46		
		47						13763 / 0				48		
		49										50		
		51										52		
		53										54		
					Load Per...	229547 VA	214217 VA	212491 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
POWER - UNIT PLAN	656255 VA	36.00%	236252 VA	TOTAL CONNECTED LOAD:	656255 VA
				TOTAL ESTIMATED DEMAND:	236252 VA
				TOTAL CONNECTED CURRENT:	1822 A
				TOTAL ESTIMATED DEMAND CURRENT	656 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: RPC4

Location: | **Supply From:** RPC1 | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:** FEED THRU LUGS
A.I.C. Rating: 42kAIC | **Mains Type:** FEED THRU | **Mains Rating:** 400 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	EXTERIOR SIGNAGE	20 A	1	500 / 900						2		
	20A	3	LVL 03 - CORRIDOR RECEPT	20 A	1		540 / 360		1	20 A	LVL 03 - TRASH/ELEC RM RECEPT	4	20A	
	20A	5	LVL 04 - CORRIDOR RECEPT	20 A	1			900 / 540	1	20 A	LVL 04 - CORRIDOR RECEPT	6	20A	
	20A	7	LVL 04 - TRASH/ELEC RM RECEPT	20 A	1	360 / 155			1	20 A	LVL 03 - LIGHTING	8	20A	
	20A	9	LVL 03 - LIGHTING	20 A	1		395 / 155		1	20 A	LVL 04 - LIGHTING	10	20A	
	20A	11	LVL 04 - LIGHTING	20 A	1			395 / 2500	2	30 A	LVL 03 - CUH-A - STAIR 1	12	30C	
		13				9348 / 2500						14		
	150E	15	ROOF LVL - DOAS-2	150 A	3		9348 / 360		1	20 A	ROOF TOP MECH EQUIP RECEPT	16	20A	
		17						9348 / 540	1	20 A	ROOF TOP MECH EQUIP RECEPT	18	20A	
--	--	19	SPARE	20 A	1	0 / 540			1	20 A	ROOF TOP MECH EQUIP RECEPT	20	20A	
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
					Load Per...	14303 VA	11158 VA	14223 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	1100 VA	125.00%	1375 VA	TOTAL CONNECTED LOAD:	39683 VA
HVAC	33043 VA	100.00%	33043 VA	TOTAL ESTIMATED DEMAND:	39958 VA
EQUIPMENT	500 VA	100.00%	500 VA	TOTAL CONNECTED CURRENT:	110 A
RECEPT	5040 VA	100.00%	5040 VA	TOTAL ESTIMATED DEMAND CURRENT	111 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: DPC3

Location: | **Supply From:** SWC | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 65kAIC | **Mains Type:** MLO | **Mains Rating:** 1200 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	A	B	C	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	150D	1	LVL 03 - LC-B UNIT 322	150 A	2	13657 / 13829						2		
		3					13657 / 13829		2	150 A	LVL 03 - LC-B4 UNIT 323	4	150D	
	150D	5	LVL 03 - LC-E (FW-2) UNIT 308	150 A	2			14671 / 14142				6		
		7				14671 / 14142			2	150 A	LVL 03 - LC-B3 UNIT 303	8	150D	
	150D	9	LVL 03 - LC-C2 UNIT 307	150 A	2		13869 / 13657					10		
		11						13869 / 13657	2	150 A	LVL 03 - LC-B UNIT 304	12	150D	
	150D	13	LVL 03 - LC-D UNIT 305	150 A	2	14704 / 14704						14		
		15					14704 / 14704		2	150 A	LVL 03 - LC-D UNIT 306	16	150D	
	150D	17	LVL 03 - LC-B2 UNIT 302	150 A	2			13782 / 14669				18		
		19				13782 / 14669			2	150 A	LVL 03 - LC-E UNIT 324	20	150D	
	150D	21	LVL 03- LC-B UNIT 325	150 A	2		13657 / 14387					22	150D	
		23						13657 / 14387	2	150 A	LVL 03 - LC-D F1 UNIT 326	24		
	150D	25	LVL 03 - LC-E (FW-1) UNIT 301	150 A	2	14667 / 14669						26	150D	
		27					14667 / 14669		2	150 A	LVL 03 - LC-E UNIT 333	28		
	150D	29	LVL 03 - LC-B UNIT 332	150 A	2			13657 / 14625				30	150D	
		31				13657 / 14625			2	150 A	LVL 03 - LC-C UNIT 327	32		
	150D	33	LVL 03 - LC-C UNIT 331	150 A	2		14625 / 14625					34	150D	
		35						14625 / 14625	2	150 A	LVL 03 - LC-C UNIT 328	36		
	150D	37	LVL 03 - LC-D UNIT 330	150 A	2	14704 / 14704						38	150D	
		39					14704 / 14704		2	150 A	LVL 03 - LC-D UNIT 329	40		
	150D	41	LVL 03 - LC-C UNIT 334	150 A	2			14625 / 13742				42	150D	
		43				14625 / 13742			2	150 A	LVL 03 - LC-B6 UNIT 335	44		
	150D	45	LVL 03 - LC-B5 UNIT 336	150 A	2		13763 / 0					46		
		47						13763 / 0				48		
		49										50		
		51										52		
		53										54		
					Load Per...	229547 VA	214217 VA	212491 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
POWER - UNIT PLAN	656255 VA	36.00%	236252 VA	TOTAL CONNECTED LOAD:	656255 VA
				TOTAL ESTIMATED DEMAND:	236252 VA
				TOTAL CONNECTED CURRENT:	1822 A
				TOTAL ESTIMATED DEMAND CURRENT	656 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: DPC4

Location: | **Supply From:** SWC | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 65kAIC | **Mains Type:** MLO | **Mains Rating:** 1200 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	A	B	C	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	150D	1	LVL 04 - LC-B UNIT 422	150 A	2	13657 / 13829						2		
		3					13657 / 13829		2	150 A	LVL 04 - LC-B4 UNIT 423	4	150D	
	150D	5	LVL 04 - LC-E (FW-2) UNIT 408	150 A	2			14671 / 14142				6		
		7				14671 / 14142			2	150 A	LVL 04 - LC-B3 UNIT 403	8	150D	
	150D	9	LVL 04 - LC-C2 UNIT 407	150 A	2		13869 / 13657					10		
		11						13869 / 13657	2	150 A	LVL 04 - LC-B UNIT 404	12	150D	
	150D	13	LVL 04 - LC-D UNIT 406	150 A	2	14704 / 14704						14		
		15					14704 / 14704		2	150 A	LVL 04 - LC-D UNIT 405	16	150D	
	150D	17	LVL 04 - LC-B2 UNIT 402	150 A	2			13782 / 14669				18		
		19				13782 / 14669			2	150 A	LVL 04 - LC-E UNIT 424	20	150D	
	150D	21	LVL 04 - LC-B UNIT 425	150 A	2		13657 / 14387					22	150D	
		23						13657 / 14387	2	150 A	LVL 04 - LC-D F1 UNIT 426	24		
	150D	25	LVL 04 - LC-E (FW-1) UNIT 401	150 A	2	14667 / 14669						26	150D	
		27					14667 / 14669		2	150 A	LVL 04 - LC-E UNIT 433	28		
	150D	29	LVL 04 - LC-B UNIT 432	150 A	2			13657 / 14625				30	150D	
		31				13657 / 14625			2	150 A	LVL 04 - LC-C UNIT 427	32		
	150D	33	LVL 04- LC-C UNIT 431	150 A	2		14625 / 14625					34	150D	
		35						14625 / 14625	2	150 A	LVL 04 - LC-C UNIT 428	36		
	150D	37	LVL 04 - LC-D UNIT 430	150 A	2	14704 / 14704						38	150D	
		39					14704 / 14704		2	150 A	LVL 04 - LC-D UNIT 429	40		
	150D	41	LVL 04 - LC-C UNIT 434	150 A	2			14625 / 13742				42	150D	
		43				14625 / 13742			2	150 A	LVL 04 - LC-B6 UNIT 435	44		
	150D	45	LVL 04 - LC-B5 UNIT 436	150 A	2		13763 / 0					46		
		47						13763 / 0				48		
		49										50

Panelboard: POOL

Location: | **Supply From:** SWW | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 22kAIC | **Mains Type:** MLO | **Mains Rating:** 150 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	A	B	C	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	POOL RECEPT	20 A	1	720 / 0			1	20 A	SPARE	2	--	--
--	--	3	SPARE	20 A	1		0 / 0		1	20 A	SPARE	4	--	--
--	--	5	SPARE	20 A	1			0 / 0	1	20 A	SPARE	6	--	--
--	--	7	SPARE	20 A	1	0 / 0			1	20 A	SPARE	8	--	--
--	--	9	SPARE	20 A	1		0 / 0		1	20 A	SPARE	10	--	--
--	--	11	SPARE	20 A	1			0 / 0	1	20 A	SPARE	12	--	--
--	--	13	SPARE	20 A	1	0 / 0			1	20 A	SPARE	14	--	--
--	--	15	SPARE	20 A	1		0 / 0		1	20 A	SPARE	16	--	--
--	--	17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18	--	--
--	--	19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20	--	--
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
			Load Per...			720 VA	0 VA	0 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
RECEPT	720 VA	100.00%	720 VA	TOTAL CONNECTED LOAD:	720 VA
				TOTAL ESTIMATED DEMAND:	720 VA
				TOTAL CONNECTED CURRENT:	2 A
				TOTAL ESTIMATED DEMAND CURRENT	2 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: RPW1

Location: | **Supply From:** SWW | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:** FEED THRU LUGS
A.I.C. Rating: 22kAIC | **Mains Type:** MLO | **Mains Rating:** 400 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	LVL 02 - CORRIDOR RECEPT	20 A	1	720 / 720			1	20 A	LVL 01 - CORRIDOR RECEPT	2	20A	
	20A	3	LVL 02 - TRASH/ELEC RM RECEPT	20 A	1		360 / 540		1	20 A	LVL 01 - CORRIDOR RECEPT	4	20A	
	20A	5	LVL 02 - LIGHTING	20 A	1			192 / 360	1	20 A	LVL 01 - TRASH/ELEC RM RECEPT	6	20A	
	20A	7	LVL 02 - LIGHTING	20 A	1	192 / 540			1	20 A	LVL 02 - CORRIDOR RECEPT	8	20A	
	20A	9	LVL 02 - CORRIDOR RECEPT	20 A	1		900 / 155		1	20 A	LVL 01 - LIGHTING	10	20A	
	50C	11	LVL 02 - AC-A	45 A	2			3495 / 155	1	20 A	LVL 02 - LIGHTING	12	20A	
		13				3495 / 900			1	20 A	LVL 01 - CORRIDOR RECEPT	14	20A	
	30C	15	LVL 01 - CUH-A - STAIR 6	30 A	2		2500 / 3495		2	45 A	LVL 01 - AC-A	16	50C	
		17						2500 / 3495				18		
	30C	19	LVL 02 - CUH-A - STAIR 6	30 A	2	2500 / 2500			2	30 A	LVL 01 - CUH-A - STAIR 7	20	30C	
		21					2500 / 2500					22		
--	--	23	SPARE	20 A	1			0 / 2500	2	30 A	LVL 02 - CUH-A - STAIR 7	24	30C	
--	--	25	SPARE	20 A	1	0 / 2500						26		
--	--	27	SPARE	20 A	1		0 / 2500		2	30 A	LVL 01 - CUH-A - STAIR 2	28	30C	
--	--	29	SPARE	20 A	1			0 / 2500				30		
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
			Load Per...			40529 VA	38766 VA	37400 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	1388 VA	125.00%	1735 VA	TOTAL CONNECTED LOAD:	116695 VA
HVAC	102887 VA	100.00%	102887 VA	TOTAL ESTIMATED DEMAND:	115832 VA
RECEPT	12420 VA	90.26%	11210 VA	TOTAL CONNECTED CURRENT:	324 A
				TOTAL ESTIMATED DEMAND CURRENT	322 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: DPW1

Location: | **Supply From:** SWW | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 42kAIC | **Mains Type:** MLO | **Mains Rating:** 1000 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	150D	1	LVL 01 - LC-E (FW-4) UNIT 137	150 A	2	14671 / 13745			2	150 A	LVL 01 - LC-A UNIT 154	2	150D	
		3					14671 / 13745					4		
	150D	5	LVL 01 - LC-C UNIT 153	150 A	2			14625 / 14625	2	150 A	LVL 01 - LC-C UNIT 138	6	150D	
		7				14625 / 14625						8		
	150D	9	LVL 01 - LC-A UNIT 152	150 A	2		13745 / 14625		2	150 A	LVL 01 - LC-C UNIT 139	10	150D	
		11						13745 / 14625				12		
	150D	13	LVL 01 - LC-B UNIT 151	150 A	2	13657 / 13659			2	150 A	LVL 01 - LC-B (FW-1) UNIT 150	14	150D	
		15					13657 / 13659					16		
	150D	17	LVL 01 - LC-C (FW-1) UNIT 140	150 A	2			13479 / 13745	2	150 A	LVL 01 - LC-A UNIT 149	18	150D	
		19				13479 / 13745						20		
	150D	21	LVL 01 - LC-E UNIT 141	150 A	2		14669 / 14625		2	150 A	LVL 01 - LC-C UNIT 148	22	150D	
		23						14669 / 14625				24		
	150D	25	LVL 01 - LC-D2 F2 UNIT 147	150 A	2	14441 / 14625			2	150 A	LVL 01 - LC-C UNIT 146	26	150D	
		27					14441 / 14625					28		
	150D	29	LVL 01 - LC-B UNIT 145	150 A	2			13657 / 13657	2	150 A	LVL 01 - LC-B UNIT 142	30	150D	
		31				13657 / 13657						32		
	150D	33	LVL 01 - LC-D UNIT 143	150 A	2			14704 / 14704	2	150 A	LVL 01 - LC-D UNIT 144	34	150D	
		35					14704 / 14704					36		
		37										38		
		39										40		
		41										42		
			Load Per...			168582 VA	171866 VA	170856 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
POWER - UNIT PLAN	511303 VA	38.00%	194295 VA	TOTAL CONNECTED LOAD:	511303 VA
				TOTAL ESTIMATED DEMAND:	194295 VA
				TOTAL CONNECTED CURRENT:	1419 A
				TOTAL ESTIMATED DEMAND CURRENT	539 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: DPW2

Location: | **Supply From:** SWW | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 42kAIC | **Mains Type:** MLO | **Mains Rating:** 1000 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	150D	1	LVL 02 - LC-E (FW-4) UNIT 237	150 A	2	14671 / 13745			2	150 A	LVL 02 - LC-A UNIT 254	2	150D	
		3					14671 / 13745					4		
	150D	5	LVL 02 - LC-C UNIT 253	150 A	2			14625 / 14625	2	150 A	LVL 02 - LC-C UNIT 238	6	150D	
		7				14625 / 14625						8		
	150D	9	LVL 02 - LC-A UNIT 252	150 A	2		13745 / 14625		2	150 A	LVL 02 - LC-C UNIT 239	10	150D	
		11						13745 / 14625				12		
	150D	13	LVL 02 - LC-B UNIT 251	150 A	2	13657 / 13659			2	150 A	LVL 02 - LC-B (FW-1) UNIT 250	14	150D	
		15					13657 / 13659					16		
	150D	17	LVL 02 - LC-C (FW-1) UNIT 240	150 A	2			13479 / 13745	2	150 A	LVL 02 - LC-A UNIT 249	18	150D	
		19				13479 / 13745						20		
	150D	21	LVL 02 - LC-E UNIT 241	150 A	2		14669 / 14625		2	150 A	LVL 02 - LC-C UNIT 248	22	150D	
		23						14669 / 14625				24		
	150D	25	LVL 02 - LC-D2 F2 UNIT 247	150 A	2	14441 / 14625			2	150 A	LVL 02 - LC-C UNIT 246	26	150D	
		27					14441 / 14625					28		
	150D	29	LVL 02 - LC-B UNIT 245	150 A	2			13657 / 13657	2	150 A	LVL 02 - LC-B UNIT 242	30	150D	
		31				13657 / 13657						32		
	150D	33	LVL 02 - LC-D UNIT 243	150 A	2			14704 / 14704	2	150 A	LVL 02 - LC-D UNIT 244	34	150D	
		35					14704 / 14704					36		
		37										38		
		39										40		
		41										42		
			Load Per...			168582 VA	171866 VA	170856 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
POWER - UNIT PLAN	511303 VA	38.00%	194295 VA	TOTAL CONNECTED LOAD:	511303 VA
				TOTAL ESTIMATED DEMAND:	194295 VA
				TOTAL CONNECTED CURRENT:	1419 A
				TOTAL ESTIMATED DEMAND CURRENT	539 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: DPW3

Location: | **Supply From:** SWW | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 42kAIC | **Mains Type:** MLO | **Mains Rating:** 1000 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	150D	1	LVL 03 - LC-E (FW-4) UNIT 337	150 A	2	14671 / 13745			2	150 A	LVL 03 - LC-A UNIT 354	2	150D	
		3					14671 / 13745					4		
	150D	5	LVL 03 - LC-C UNIT 353	150 A	2			14625 / 14625	2	150 A	LVL 03 - LC-C UNIT 338	6	150D	
		7				14625 / 14625						8		
	150D	9	LVL 03 - LC-A UNIT 352	150 A	2		13745 / 14625		2	150 A	LVL 03 - LC-C UNIT 339	10	150D	
		11						13745 / 14625				12		
	150D	13	LVL 03 - LC-B UNIT 351	150 A	2	13657 / 13659			2	150 A	LVL 03 - LC-B (FW-1) UNIT 350	14	150D	
		15					13657 / 13659					16		
	150D	17	LVL 03 - LC-C (FW-1) UNIT 340	150 A	2			13479 / 13745	2	150 A	LVL 03 - LC-A UNIT 349	18	150D	
		19				13479 / 13745						20		
	150D	21	LVL 03 - LC-E UNIT 341	150 A	2		14669 / 14625		2	150 A	LVL 03 - LC-C UNIT 348	22	150D	
		23						14669 / 14625				24		
	150D	25	LVL 03 - LC-D2 F2 UNIT 347	150 A	2	14441 / 14625			2	150 A	LVL 03 - LC-C UNIT 346	26	150D	
		27					14441 / 14625					28		
	150D	29	LVL 03 - LC-B UNIT 345	150 A	2			13657 / 13657	2	150 A	LVL 03 - LC-B UNIT 342	30	150D	
		31				13657 / 13657						32		
	150D	33	LVL 03 - LC-D UNIT 343	150 A	2			14704 / 14704	2	150 A	LVL 03 - LC-D UNIT 344	34	150D	
		35					14704 / 14704					36		
		37										38		
		39										40		
		41										42		
			Load Per...			168582 VA	171866 VA	170856 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
POWER - UNIT PLAN	511303 VA	38.00%	194295 VA	TOTAL CONNECTED LOAD:	511303 VA
				TOTAL ESTIMATED DEMAND:	194295 VA
				TOTAL CONNECTED CURRENT:	1419 A
				TOTAL ESTIMATED DEMAND CURRENT	539 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: RPW4

Location: | **Supply From:** RPW1 | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 22kAIC | **Mains Type:** FEED THRU | **Mains Rating:** 400 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	LVL 03 - CORRIDOR RECEPT	20 A	1	720 / 720			1	20 A	LVL 04 - CORRIDOR RECEPT	2	20A	
	20A	3	LVL 03 - CORRIDOR RECEPT	20 A	1		540 / 540		1	20 A	LVL 04 - CORRIDOR RECEPT	4	20A	
	20A	5	LVL 03 - TRASH/ELEC RM RECEPT	20 A	1			360 / 360	1	20 A	LVL 04 - TRASH/ELEC RM RECEPT	6	20A	
	20A	7	LVL 03 - LIGHTING	20 A	1	155 / 155			1	20 A	LVL 04 - LIGHTING	8	20A	
	20A	9	LVL 03 - LIGHTING	20 A	1		192 / 192		1	20 A	LVL 04 - LIGHTING	10	20A	
	20A	11	LVL 04 - CORRIDOR RECEPT	20 A	1			900 / 900	1	20 A	LVL 03 - CORRIDOR RECEPT	12	20A	
	50C	13	LVL 04 - AC-A	45 A	2	3495 / 3495			2	45 A	LVL 03 - AC-A	14	50C	
		15					3495 / 3495					16		
	30C	17	LVL 04 - CUH-A - STAIR 6	30 A	2			2500 / 2500	2	30 A	LVL 02 - CUH-A - STAIR 5	18	30C	
		19				2500 / 2500						20		
	30C	21	LVL 03 - CUH-A - STAIR 2	30 A	2		2500 / 11644		3	150 A	ROOF LVL - DOAS-1	22	150E	
		23						2500 / 11644				24		
	20A	25	ROOF TOP MECH EQUIP RECEPT	20 A	1	540 / 11644						26		
	20A	27	ROOF TOP MECH EQUIP RECEPT	20 A	1		720 / 0		1	20 A	SPARE	28	--	--
	20A	29	ROOF TOP MECH EQUIP RECEPT	20 A	1			540 / 0	1	20 A	SPARE	30	--	--
	20A	31	ROOF TOP MECH EQUIP RECEPT	20 A	1	540 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
			Load Per...			26463 VA	23317 VA	22204 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	694 VA	125.00%	868 VA	TOTAL CONNECTED LOAD:	71983 VA
HVAC	63909 VA	100.00%	63909 VA	TOTAL ESTIMATED DEMAND:	72157 VA
RECEPT	7380 VA	100.00%	7380 VA	TOTAL CONNECTED CURRENT:	200 A
				TOTAL ESTIMATED DEMAND CURRENT	200 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: DPW4

Location: | **Supply From:** SWW | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 42kAIC | **Mains Type:** MLO | **Mains Rating:** 1000 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	150D	1	LVL 04 - LC-E (FW-4) UNIT 437	150 A	2	14671 / 13745			2	150 A	LVL 04 - LC-A UNIT 454	2	150D	
		3					14671 / 13745					4		
	150D	5	LVL 04 - LC-C UNIT 453	150 A	2			14625 / 14625	2	150 A	LVL 04 - LC-C UNIT 438	6	150D	
		7				14625 / 14625						8		
	150D	9	LVL 04 - LC-A UNIT 452	150 A	2		13745 / 14625		2	150 A	LVL 04 - LC-C UNIT 439	10	150D	
		11						13745 / 14625				12		
	150D	13	LVL 04 - LC-B UNIT 451	150 A	2	13657 / 13659			2	150 A	LVL 04 - LC-B (FW-1) UNIT 450	14	150D	
		15					13657 / 13659					16		
	150D	17	LVL 04 - LC-C (FW-1) UNIT 440	150 A	2			13479 / 13745	2	150 A	LVL 04 - LC-A UNIT 449	18	150D	
		19				13479 / 13745						20		
	150D	21	LVL 04 - LC-E UNIT 441	150 A	2		14669 / 14625		2	150 A	LVL 04 - LC-C UNIT 448	22	150D	
		23						14669 / 14625				24		
	150D	25	LVL 04 - LC-D2 F2 UNIT 447	150 A	2	14441 / 14625			2	150 A	LVL 04 - LC-C UNIT 446	26	150D	
		27					14441 / 14625					28		
	150D	29	LVL 04 - LC-B UNIT 445	150 A	2			13657 / 13657	2	150 A	LVL 04 - LC-B UNIT 442	30	150D	
		31				13657 / 13657						32		
	150D	33	LVL 04 - LC-D UNIT 443	150 A	2			14704 / 14704	2	150 A	LVL 04 - LC-D UNIT 444	34	150D	
		35					14704 / 14704					36		
		37										38		
		39										40		
		41										42		
			Load Per...			168582 VA	171866 VA	170856 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
POWER - UNIT PLAN	511303 VA	38.00%	194295 VA	TOTAL CONNECTED LOAD:	511303 VA
				TOTAL ESTIMATED DEMAND:	194295 VA
				TOTAL CONNECTED CURRENT:	1419 A
				TOTAL ESTIMATED DEMAND CURRENT	539 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

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P.A.:	JTG
P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1.	PERMIT SET	11/02/2022
	CONSTR. BUDGET PRICING SET	12/20/2022

Project Status

ELECTRICAL SCHEDULES
Granite Run Apartments
MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 11/01/22

E0.23

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Printed: 1/13/2023 11:53:02 AM

Panelboard: DPE1

Location:
Supply From: SWE
Mounting: SURFACE
Enclosure: TYPE 1

Distribution System: 120/208 Wye
Phases: 3
Wires: 4
Modifications:

A.I.C. Rating: 42kAIC
Mains Type: MLO
Mains Rating: 800 A
MCB Rating:

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	150D	1	LVL 01 - LC-D UNIT 114	150 A	2	14704 / 13869			2	150 A	LVL 01 - LC-D UNIT 113	2	150D	
		3					14704 / 13869					4		
	150D	5	LVL 01 - LC-B UNIT 115	150 A	2			13657 / 13869	2	150 A	LVL 01 - LC-C2 UNIT 112	6	150D	
		7				13657 / 13869						8		
	150D	9	LVL 01 - LC-A UNIT 116	150 A	2		13745 / 13748		2	150 A	LVL 01 - LC-E (FW-3) UNIT 111	10	150D	
		11						13745 / 13748				12		
	150D	13	LVL 01 - LC-A UNIT 117	150 A	2	13745 / 14435			2	150 A	LVL 01 - LC-D2 F1 UNIT 118	14	150D	
		15					13745 / 14435					16		
	150D	17	LVL 01 - LC-C (FW-1) UNIT 119	150 A	2			13479 / 14625	2	150 A	LVL 01 - LC-C UNIT 120	18	150D	
		19				13479 / 14625						20		
	150D	21	LVL 01 - LC-A UNIT 110	150 A	2		13745 / 13745		2	150 A	LVL 01 - LC-A UNIT 109	22	150D	
		23						13745 / 13745				24		
	150D	25	LVL 01 - LC-A UNIT 121	150 A	2	13745 / 0						26		
		27					13745 / 0					28		
		29										30		
		31										32		
		33										34		
		35										36		
		37										38		
		39										40		
		41										42		
				Load Per...		126125 VA	125478 VA	110610 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
POWER - UNIT PLAN	362213 VA	41.00%	148507 VA	TOTAL CONNECTED LOAD:	362213 VA
				TOTAL ESTIMATED DEMAND:	148507 VA
				TOTAL CONNECTED CURRENT:	1005 A
				TOTAL ESTIMATED DEMAND CURRENT	412 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: RPE1

Location:
Supply From: SWE
Mounting: SURFACE
Enclosure: TYPE 1

Distribution System: 120/208 Wye
Phases: 3
Wires: 4
Modifications: FEED THRU LUGS

A.I.C. Rating: 22kAIC
Mains Type: MLO
Mains Rating: 400 A
MCB Rating:

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	LVL 01 - TRASH/ELEC RM RECEPT	20 A	1	360 / 900			1	20 A	LVL 01 - CORRIDOR RECEPT	2	20A	
	20A	3	LVL 02 - CORRIDOR RECEPT	20 A	1		720 / 900		1	20 A	LVL 01 - CORRIDOR RECEPT	4	20A	
	20A	5	LVL 02 - ELEC RM RECEPT	20 A	1			180 / 180	1	20 A	LVL 01 - EXTERIOR RECEPT	6	20A	
	20A	7	LVL 01 - LIGHTING	20 A	1	144 / 900			1	20 A	LVL 02 - CORRIDOR RECEPT	8	20A	
	20A	9	LVL 02 - LIGHTING	20 A	1		144 / 720		1	20 A	LVL 02 - EXTERIOR RECEPT	10	20A	
--	--	11	SPARE	20 A	1			0 / 720	1	20 A	LVL 02 - EXTERIOR RECEPT	12	20A	
--	--	13	SPARE	20 A	1	0 / 240			1	20 A	LVL 01 - LIGHTING	14	20A	
--	--	15	SPARE	20 A	1		0 / 240		1	20 A	LVL 02 - LIGHTING	16	20A	
--	--	17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18	--	--
--	--	19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20	--	--
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
				Load Per...		21660 VA	19869 VA	19432 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	1536 VA	125.00%	1920 VA	TOTAL CONNECTED LOAD:	60960 VA
HVAC	47044 VA	100.00%	47044 VA	TOTAL ESTIMATED DEMAND:	60404 VA
EQUIPMENT	500 VA	100.00%	500 VA	TOTAL CONNECTED CURRENT:	169 A
RECEPT	11880 VA	92.09%	10940 VA	TOTAL ESTIMATED DEMAND CURRENT	168 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: DPE2

Location:
Supply From: SWE
Mounting: SURFACE
Enclosure: TYPE 1

Distribution System: 120/208 Wye
Phases: 3
Wires: 4
Modifications:

A.I.C. Rating: 42kAIC
Mains Type: MLO
Mains Rating: 800 A
MCB Rating:

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	150D	1	LVL 02 - LC-D UNIT 214	150 A	2	14704 / 13869			2	150 A	LVL 02 - LC-D UNIT 213	2	150D	
		3					14704 / 13869					4		
	150D	5	LVL 02 - LC-B UNIT 215	150 A	2			13657 / 13869	2	150 A	LVL 02 - LC-C2 UNIT 212	6	150D	
		7				13657 / 13869						8		
	150D	9	LVL 02 - LC-A UNIT 216	150 A	2		13745 / 13748		2	150 A	LVL 02 - LC-E (FW-3) UNIT 211	10	150D	
		11						13745 / 13748				12		
	150D	13	LVL 02 - LC-A UNIT 217	150 A	2	13745 / 14435			2	150 A	LVL 02 - LC-D2 F1 UNIT 218	14	150D	
		15					13745 / 14435					16		
	150D	17	LVL 02 - LC-C (FW-1) UNIT 219	150 A	2			13479 / 14625	2	150 A	LVL 02 - LC-C UNIT 220	18	150D	
		19				13479 / 14625						20		
	150D	21	LVL 02 - LC-A UNIT 210	150 A	2		13745 / 13745		2	150 A	LVL 02 - LC-A UNIT 221	22	150D	
		23						13745 / 13745				24		
	150D	25	LVL 02 - LC-A UNIT 209	150 A	2	13745 / 0						26		
		27					13745 / 0					28		
		29										30		
		31										32		
		33										34		
		35										36		
		37										38		
		39										40		
		41										42		
				Load Per...		126125 VA	125478 VA	110610 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
POWER - UNIT PLAN	362213 VA	41.00%	148507 VA	TOTAL CONNECTED LOAD:	362213 VA
				TOTAL ESTIMATED DEMAND:	148507 VA
				TOTAL CONNECTED CURRENT:	1005 A
				TOTAL ESTIMATED DEMAND CURRENT	412 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: DPE3

Location:
Supply From: SWE
Mounting: SURFACE
Enclosure: TYPE 1

Distribution System: 120/208 Wye
Phases: 3
Wires: 4
Modifications:

A.I.C. Rating: 42kAIC
Mains Type: MLO
Mains Rating: 800 A
MCB Rating:

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	150D	1	LVL 03 - LC-D UNIT 313	150 A	2	13869 / 14704			2	150 A	LVL 03 - LC-D UNIT 314	2	150D	
		3					13869 / 14704					4		
	150D	5	LVL 03 - LC-B UNIT 315	150 A	2			13657 / 13869	2	150 A	LVL 03 - LC-C2 UNIT 312	6	150D	
		7				13657 / 13869						8		
	150D	9	LVL 03 - LC-A UNIT 316	150 A	2		13745 / 13748		2	150 A	LVL 03 - LC-E (FW-3) UNIT 311	10	150D	
		11						13745 / 13748				12		
	150D	13	LVL 03 - LC-A UNIT 317	150 A	2	13745 / 14435			2	150 A	LVL 03 - LC-D2 F1 UNIT 318	14	150D	
		15					13745 / 14435					16		
	150D	17	LVL 03 - LC-C (FW-1) UNIT 319	150 A	2			13479 / 14625	2	150 A	LVL 03 - LC-C UNIT 320	18	150D	
		19				13479 / 14625						20		
	150D	21	LVL 03 - LC-A UNIT 310	150 A	2		13745 / 13745		2	150 A	LVL 03 - LC-A UNIT 321	22	150D	
		23						13745 / 13745				24		
	150D	25	LVL 03 - LC-A UNIT 309	150 A	2	13745 / 0						26		
		27					13745 / 0					28		
		29										30		
		31										32		
		33										34		
		35										36		
		37										38		
		39										40		
		41										42		
				Load Per...		126125 VA	125478 VA	110610 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
POWER - UNIT PLAN	362213 VA	41.00%	148507 VA	TOTAL CONNECTED LOAD:	362213 VA
				TOTAL ESTIMATED DEMAND:	148507 VA
				TOTAL CONNECTED CURRENT:	1005 A
				TOTAL ESTIMATED DEMAND CURRENT	412 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: DPE4

Location:
Supply From: SWE
Mounting: SURFACE
Enclosure: TYPE 1

Distribution System: 120/208 Wye
Phases: 3
Wires: 4
Modifications:

A.I.C. Rating: 42kAIC
Mains Type: MLO
Mains Rating: 800 A
MCB Rating:

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	150D	1	LVL 04 - LC-D UNIT 414	150 A	2	14704 / 13869			2	150 A	LVL 04 - LC-D UNIT 413	2	150D	
		3					14704 / 13869					4		
	150D	5	LVL 04 - LC-B UNIT 415	150 A	2			13657 / 13869	2	150 A	LVL 04 - LC-C2 UNIT 412	6	150D	
		7				13657 / 13869						8		
	150D	9	LVL 04 - LC-A UNIT 416	150 A	2		13745 / 13748		2	150 A	LVL 04 - LC-E (FW-3) UNIT 411	10	150D	
		11						13745 / 13748				12		
	150D	13	LVL 04 - LC-A UNIT 417	150 A	2	13745 / 14435			2	150 A	LVL 04 - LC-D2 F1 UNIT 418	14	150D	
		15					13745 / 14435					16		
	150D	17	LVL 04 - LC-C (FW-1) UNIT 419	150 A	2			13479 / 14625	2	150 A	LVL 04 - LC-C UNIT 420	18	150D	
		19				13479 / 14625						20		
	150D	21	LVL 04 - LC-A UNIT 410	150 A	2		13745 / 13745		2	150 A	LVL 04 - LC-A UNIT 421	22	150D	
		23						13745 / 13745				24		
	150D	25	LVL 04 - LC-A UNIT 409	150 A	2	13745 / 0						26		
		27					13745 / 0					28		
		29										30		
		31										32		
		33										34		
		35										36		
		37										38		
		39										40		
		41										42		
				Load Per...		126125 VA	125478 VA	110610 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
POWER - UNIT PLAN	362213 VA	41.00%	148507 VA	TOTAL CONNECTED LOAD:	362213 VA
				TOTAL ESTIMATED DEMAND:	148507 VA
				TOTAL CONNECTED CURRENT:	1005 A
				TOTAL ESTIMATED DEMAND CURRENT	412 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: RPE4

Location:
Supply From: RPE1
Mounting: SURFACE
Enclosure: TYPE 1

Distribution System: 120/208 Wye
Phases: 3
Wires: 4
Modifications:

A.I.C. Rating: 22kAIC
Mains Type: FEED THRU
Mains Rating: 400 A
MCB Rating:

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	EXTERIOR SIGNAGE	20 A	1	500 / 900			1	20 A	LVL 03 - CORRIDOR RECEPT	2	20A	
	20A	3	LVL 03 - CORRIDOR RECEPT	20 A	1		720 / 360		1	20 A	LVL 03 - TRASH/ELEC RM RECEPT	4	20A	
	20A	5	LVL 04 - CORRIDOR RECEPT	20 A	1			900 / 720	1	20 A	LVL 04 - CORRIDOR RECEPT	6	20A	
	20A	7	LVL 04 - TRASH/ELEC RM RECEPT	20 A	1	360 / 144			1	20 A	LVL 03 - LIGHTING	8	20A	
	20A	9	LVL 03 - LIGHTING	20 A	1		240 / 144		1	20 A	LVL 04 - LIGHTING	10	20A	
	20A	11	LVL 04 - LIGHTING	20 A	1			240 / 15141				12		
	20A	13	ROOF TOP MECH EQUIP RECEPT	20 A	1	720 / 15141			3	175 A	ROOF LVL - DOAS-3	14	175E	
	20A	15	ROOF TOP MECH EQUIP RECEPT	20 A	1		540 / 15141					16		
	20A	17	ROOF TOP MECH EQUIP RECEPT	20 A	1			540 / 811				18	20C	
	20A	19	ROOF TOP MECH EQUIP RECEPT	20 A	1	540 / 811			2	20 A	ROOF LVL - EF-4	20		
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
				Load Per...		19116 VA	17145 VA	18352 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	768 VA	125.00%	960 VA	TOTAL CONNECTED LOAD:	54612 VA
HVAC	47044 VA	100.00%	47044 VA	TOTAL ESTIMATED DEMAND:	54804 VA
EQUIPMENT	500 VA	100.00%	500 VA	TOTAL CONNECTED CURRENT:	152 A
RECEPT	6300 VA	100.00%	6300 VA	TOTAL ESTIMATED DEMAND CURRENT:	152 A

NOTES:
1. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/30/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL SCHEDULES

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E0.24

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Printed: 1/13/2023 11:53:06 AM

Panelboard: LSDP

Location: **Distribution System:** 120/208 Wye **A.I.C. Rating:** 65kAIC
Supply From: ATS-LS **Phases:** 3 **Mains Type:** MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 400 A
Enclosure: TYPE 1 **Modifications:** **MCB Rating:** 400 A

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
		1				3533 / 1989						2		
	200F	3	LSCC	200 A	3		3880 / 2216		3	100 A	LSE1	4	100F	
		5						1693 / 1411				6		
		7				2556 / 2709						8		
	100F	9	LSWG	100 A	3		2018 / 1782		3	100 A	LSW1	10	100F	
		11						1242 / 1337				12		
	20A	13	RETAIL LVL - EMERGENCY LIGHTING	20 A	1	2260 / 600			1	20 A	STAIR 7 - EMERGENCY LIGHTING	14	20A	
	20A	15	ELEVATOR 1 PIT LIGHTS	20 A	1		264 / 120		1	20 A	STAIR 8 - EMERGENCY LIGHTING	16	20A	
		17						577 / 1500	1	20 A	FPC-1	18	20A	
	20E	19	JP-1	20 A	3	577 / 1500			1	20 A	JPC-1	20	20A	
		21					577 / 1500		1	20 A	FP-1	22	20A	
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
				Load Per...		15542 VA	12183 VA	7606 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	17210 VA	125.00%	21513 VA	TOTAL CONNECTED LOAD:	35322 VA
Motor	1730 VA	125.00%	2163 VA	TOTAL ESTIMATED DEMAND:	40014 VA
HVAC	4500 VA	100.00%	4500 VA	TOTAL CONNECTED CURRENT:	98 A
EQUIPMENT	11500 VA	100.00%	11500 VA	TOTAL ESTIMATED DEMAND CURRENT	111 A
RECEPT	900 VA	100.00%	900 VA		

NOTES:
1. PROVIDE LISTED SURGE PROTECTION DEVICE IN OR ON ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER NEC 700.8.
2. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: OSDP

Location: **Distribution System:** 120/208 Wye **A.I.C. Rating:** 65kAIC
Supply From: ATS-OS **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 800 A
Enclosure: TYPE 1 **Modifications:** **MCB Rating:** 800 A

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
		1				0 / 18265						2		
	400C	3	OSCC	400 A	3		0 / 17401		3	800 A	OSC4	4	800F	
		5						0 / 19057				6		
	30C	7	WALK-IN REFRIG. - INDOOR UNIT	30 A	2	2500 / 2500			2	30 A	WALK-IN REFRIG. - OUTDOOR UNIT	8	30C	
		9					2500 / 2500					10		
	20A	11	FOP-1	20 A	1			500 / 2136	1	20 A	EF-3 & 5	12	20A	
	20A	13	PACKAGE ROOM RECEPT	20 A	1	360 / 0			1	20 A	SPARE	14	--	--
--	--	15	SPARE	20 A	1		0 / 0		1	20 A	SPARE	16	--	--
--	--	17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18	--	--
--	--	19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20	--	--
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
				Load Per...		2513 VA	2871 VA	1373 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	2397 VA	125.00%	2996 VA	TOTAL CONNECTED LOAD:	6757 VA
EQUIPMENT	4000 VA	100.00%	4000 VA	TOTAL ESTIMATED DEMAND:	7356 VA
RECEPT	360 VA	100.00%	360 VA	TOTAL CONNECTED CURRENT:	19 A
				TOTAL ESTIMATED DEMAND CURRENT	20 A

NOTES:
1. PROVIDE LISTED SURGE PROTECTION DEVICE IN OR ON ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER NEC 700.8.
2. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: OSCCA

Location: **Distribution System:** 120/208 Wye **A.I.C. Rating:** 42kAIC
Supply From: OSDP **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 400 A
Enclosure: TYPE 1 **Modifications:** **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
		1				0 / 0			1	20 A	SPARE	2	--	--
	100F	3	PANEL OSCCB	100 A	3		0 / 0		1	20 A	SPARE	4	--	--
		5						0 / 0	1	20 A	SPARE	6	--	--
--	--	7	SPARE	20 A	1	0 / 0			1	20 A	SPARE	8	--	--
--	--	9	SPARE	20 A	1		0 / 0		1	20 A	SPARE	10	--	--
--	--	11	SPARE	20 A	1			0 / 0	1	20 A	SPARE	12	--	--
--	--	13	SPARE	20 A	1	0 / 0			1	20 A	SPARE	14	--	--
--	--	15	SPARE	20 A	1		0 / 0		1	20 A	SPARE	16	--	--
--	--	17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18	--	--
--	--	19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20	--	--
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
				Load Per...		0 VA	0 VA	0 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT	0 A

NOTES:
1. PROVIDE LISTED SURGE PROTECTION DEVICE IN OR ON ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER NEC 700.8.
2. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: LSCC

Location: **Distribution System:** 120/208 Wye **A.I.C. Rating:** 42kAIC
Supply From: LSDP **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 200 A
Enclosure: TYPE 1 **Modifications:** **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	STAIR 1 - EMERGENCY LIGHTING	20 A	1	600 / 420			1	20 A	ELEVATOR 2 EM LIGHTING	2	20A	
	20A	3	LVL 01 - EMERGENCY LIGHTING	20 A	1		253 / 756		1	20 A	STAIR 5 - EMERGENCY LIGHTING	4	20A	
--	--	5	SPARE	20 A	1			0 / 320	1	20 A	STAIR 9 - EMERGENCY LIGHTING	6	20A	
--	--	7	SPARE	20 A	1	0 / 0			1	20 A	SPARE	8	--	--
--	--	9	SPARE	20 A	1		0 / 0		1	20 A	SPARE	10	--	--
--	--	11	SPARE	20 A	1			0 / 0	1	20 A	SPARE	12	--	--
--	--	13	SPARE	20 A	1	0 / 0			1	20 A	SPARE	14	--	--
--	--	15	SPARE	20 A	1		0 / 0		1	20 A	SPARE	16	--	--
--	--	17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18	--	--
--	--	19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20	--	--
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
				Load Per...		1989 VA	2216 VA	1411 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	2116 VA	125.00%	2645 VA	TOTAL CONNECTED LOAD:	5616 VA
EQUIPMENT	3500 VA	100.00%	3500 VA	TOTAL ESTIMATED DEMAND:	6145 VA
				TOTAL CONNECTED CURRENT:	16 A
				TOTAL ESTIMATED DEMAND CURRENT	17 A

NOTES:
1. PROVIDE LISTED SURGE PROTECTION DEVICE IN OR ON ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER NEC 700.8.
2. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: LSC1

Location: **Distribution System:** 120/208 Wye **A.I.C. Rating:** 42kAIC
Supply From: LSCC **Phases:** 3 **Mains Type:** FEED THRU
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 200 A
Enclosure: TYPE 1 **Modifications:** FEED THRU LUGS **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	LVL 01 - FIRE SMOKE DAMPER	20 A	1	500 / 500			1	20 A	LVL 02 - FIRE SMOKE DAMPER	2	20A	
	20A	3	LVL 01 - EMERGENCY LIGHTING	20 A	1		120 / 500		1	20 A	LVL 01 - FIRE SMOKE CURTAINS	4	20A	
	20A	5	LVL 02 - EMERGENCY LIGHTING	20 A	1			131 / 500	1	20 A	LVL 02 - FIRE SMOKE CURTAINS	6	20A	
--	--	7	SPARE	20 A	1	0 / 131			1	20 A	LVL 01 - EMERGENCY LIGHTING	8	20A	
--	--	9	SPARE	20 A	1		0 / 251		1	20 A	LVL 02 - EMERGENCY LIGHTING	10	20A	
--	--	11	SPARE	20 A	1			0 / 0	1	20 A	SPARE	12	--	--
--	--	13	SPARE	20 A	1	0 / 0			1	20 A	SPARE	14	--	--
--	--	15	SPARE	20 A	1		0 / 0		1	20 A	SPARE	16	--	--
--	--	17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18	--	--
--	--	19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20	--	--
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
				Load Per...		2513 VA	2871 VA	1373 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	2397 VA	125.00%	2996 VA	TOTAL CONNECTED LOAD:	6757 VA
EQUIPMENT	4000 VA	100.00%	4000 VA	TOTAL ESTIMATED DEMAND:	7356 VA
RECEPT	360 VA	100.00%	360 VA	TOTAL CONNECTED CURRENT:	19 A
				TOTAL ESTIMATED DEMAND CURRENT	20 A

NOTES:
1. PROVIDE LISTED SURGE PROTECTION DEVICE IN OR ON ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER NEC 700.8.
2. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: OSCCB

Location: **Distribution System:** 120/208 Wye **A.I.C. Rating:** 22kAIC
Supply From: OSCCA **Phases:** 3 **Mains Type:** MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 100 A
Enclosure: TYPE 1 **Modifications:** **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
--	--	1	SPARE	20 A	1	0 / 0			1	20 A	SPARE	2	--	--
--	--	3	SPARE	20 A	1		0 / 0		1	20 A	SPARE	4	--	--
--	--	5	SPARE	20 A	1			0 / 0	1	20 A	SPARE	6	--	--
--	--	7	SPARE	20 A	1	0 / 0			1	20 A	SPARE	8	--	--
--	--	9	SPARE	20 A	1		0 / 0		1	20 A	SPARE	10	--	--
--	--	11	SPARE	20 A	1			0 / 0	1	20 A	SPARE	12	--	--
--	--	13	SPARE	20 A	1	0 / 0			1	20 A	SPARE	14	--	--
--	--	15	SPARE	20 A	1		0 / 0		1	20 A	SPARE	16	--	--
--	--	17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18	--	--
--	--	19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20	--	--
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
				Load Per...		0 VA	0 VA	0 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL ESTIMATED DEMAND:	0 VA
				TOTAL CONNECTED CURRENT:	0 A
				TOTAL ESTIMATED DEMAND CURRENT	0 A

NOTES:
1. PROVIDE LISTED SURGE PROTECTION DEVICE IN OR ON ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER NEC 700.8.
2. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: LSW1

Location: **Distribution System:** 120/208 Wye **A.I.C. Rating:** 22kAIC
Supply From: LSDP **Phases:** 3 **Mains Type:** FEED THRU
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 100 A
Enclosure: TYPE 1 **Modifications:** FEED THRU LUGS **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	LVL 01 - FIRE SMOKE DAMPER	20 A	1	500 / 186			1	20 A	LVL 01 - EMERGENCY LIGHTING	2	20A	
	20A	3	LVL 01 - FIRE SMOKE DAMPER	20 A	1		500 / 151		1	20 A	LVL 01 - EMERGENCY LIGHTING	4	20A	
	20A	5	LVL 02 - FIRE SMOKE DAMPER	20 A	1			500 / 151	1	20 A	LVL 02 - EMERGENCY LIGHTING	6	20A	
	20A	7	LVL 02 - FIRE SMOKE DAMPER	20 A	1	500 / 186			1	20 A	LVL 02 - EMERGENCY LIGHTING	8	20A	
--	--	9	SPARE	20 A	1		0 / 0		1	20 A	SPARE	10	--	--
--	--	11	SPARE	20 A	1			0 / 0	1	20 A	SPARE	12	--	--
--	--	13	SPARE	20 A	1	0 / 0			1	20 A	SPARE	14	--	--
--	--	15	SPARE	20 A	1		0 / 0		1	20 A	SPARE	16	--	--
--	--	17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18	--	--
--	--	19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20	--	--
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
				Load Per...		2709 VA	1782 VA	1337 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	1828 VA	125.00%	2285 VA	TOTAL CONNECTED LOAD:	5828 VA
EQUIPMENT	4000 VA	100.00%	4000 VA	TOTAL ESTIMATED DEMAND:	6285 VA
				TOTAL CONNECTED CURRENT:	16 A
				TOTAL ESTIMATED DEMAND CURRENT	17 A

NOTES:
1. PROVIDE LISTED SURGE PROTECTION DEVICE IN OR ON ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER NEC 700.8.
2. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: LSC3

Location: **Distribution System:** 120/208 Wye **A.I.C. Rating:** 42kAIC
Supply From: LSC1 **Phases:** 3 **Mains Type:** FEED THRU
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 200 A
Enclosure: TYPE 1 **Modifications:** **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	LVL 03 - FIRE SMOKE DAMPER	20 A	1		500 / 500		1	20 A	LVL 04 - FIRE SMOKE DAMPER	2	20A	
	20A	3	LVL 03 - FIRE SMOKE CURTAINS	20 A	1			500 / 500	1	20 A	LVL 04 - FIRE SMOKE CURTAINS	4	20A	
	20A	5	LVL 03 - EMERGENCY LIGHTING	20 A	1			131 / 251	1	20 A	LVL 03 - EMERGENCY LIGHTING	6	20A	
	20A	7	LVL 04 - EMERGENCY LIGHTING	20 A	1	131 / 251			1	20 A	LVL 04 - EMERGENCY LIGHTING	8	20A	
	20A	9	ELEVATOR 1 CAB LIGHTING	20 A	1		500 / 500		1	20 A	ELEVATOR 2 CAB LIGHTING	10	20A	
	20A	11	ELV 1 TOP OF SHAFT RECEPT	20 A	1			180 / 180	1	20 A	ELV 2 TOP OF SHAFT RECEPT	12	20A	
--	--	13	SPARE	20 A	1	0 / 0			1	20 A	SPARE	14	--	--
--	--	15	SPARE	20 A	1		0 / 0		1	20 A	SPARE	16	--	--
--	--	17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18	--	--
--	--	19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20	--	--
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
				Load Per...		1382 VA	2000 VA	742 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	1764 VA	125.00%	2205 VA	TOTAL CONNECTED LOAD:	4124 VA
EQUIPMENT	2000 VA	100.00%	2000 VA	TOTAL ESTIMATED DEMAND:	4565 VA
RECEPT	360 VA	100.00%	360 VA	TOTAL CONNECTED CURRENT:	11 A
				TOTAL ESTIMATED DEMAND CURRENT	13 A

NOTES:
1. PROVIDE LISTED SURGE PROTECTION DEVICE IN OR ON ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER NEC 700.8.
2. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

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240 NORTH 22ND STREET, PHILADELPHIA, PA

Panelboard: OSC4

Location: | **Supply From:** OSDP | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 42kAIC | **Mains Type:** MLO | **Mains Rating:** 400 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
		1				5800 / 864			1	20 A	ROOF LVL - EF-1	2	20A	
	90E	3	ELEVATOR-3	90 A	3		5800 / 5800					4		
		5						5800 / 5800	3	90 A	ELEVATOR 1	6	90E	
--	--	7	ELEVATOR 3 SHUNT TRIP	20 A	1	0 / 5800						8		
		9					5800 / 0		1	20 A	ELEVATOR 1 SHUNT TRIP	10	--	--
	90E	11	ELEVATOR 2	90 A	3			5800 / 1656	1	20 A	ROOF LVL - EF-2	12	20A	
		13				5800 / 0			1	20 A	SPARE	14	--	--
--	--	15	ELEVATOR 2 SHUNT TRIP	20 A	1		0 / 0		1	20 A	SPARE	16	--	--
--	--	17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18	--	--
--	--	19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20	--	--
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
				Load Per...		18265 VA	17401 VA	19057 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
HVAC	2520 VA	100.00%	2520 VA	TOTAL CONNECTED LOAD:	54723 VA
Elevator	52203 VA	90.00%	46983 VA	TOTAL ESTIMATED DEMAND:	49503 VA
				TOTAL CONNECTED CURRENT:	152 A
				TOTAL ESTIMATED DEMAND CURRENT	137 A

NOTES:
1. PROVIDE LISTED SURGE PROTECTION DEVICE IN OR ON ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER NEC 700.8.
2. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: LSE3

Location: | **Supply From:** LSE1 | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 22kAIC | **Mains Type:** FEED THRU | **Mains Rating:** 100 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	LVL 03 - FIRE SMOKE DAMPER	20 A	1	500 / 500			1	20 A	LVL 04 - FIRE SMOKE DAMPER	2	20A	
	20A	3	LVL 03 - FIRE SMOKE CURTAINS	20 A	1		500 / 500		1	20 A	LVL 04 - FIRE SMOKE CURTAINS	4	20A	
	20A	5	STAIR 6 - EMERGENCY LIGHTING	20 A	1			600 / 84	1	20 A	ELEVATOR 1 PIT LIGHTS	6	20A	
	20A	7	LVL 03 - EMERGENCY LIGHTING	20 A	1	131 / 227			1	20 A	LVL 03 - EMERGENCY LIGHTING	8	20A	
	20A	9	LVL 04 - EMERGENCY LIGHTING	20 A	1		131 / 227		1	20 A	LVL 04 - EMERGENCY LIGHTING	10	20A	
--	--	11	SPARE	20 A	1			0 / 0	1	20 A	SPARE	12	--	--
--	--	13	SPARE	20 A	1	0 / 0			1	20 A	SPARE	14	--	--
--	--	15	SPARE	20 A	1		0 / 0		1	20 A	SPARE	16	--	--
--	--	17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18	--	--
--	--	19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20	--	--
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
				Load Per...		1358 VA	1358 VA	684 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	1400 VA	125.00%	1750 VA	TOTAL CONNECTED LOAD:	3400 VA
EQUIPMENT	2000 VA	100.00%	2000 VA	TOTAL ESTIMATED DEMAND:	3750 VA
				TOTAL CONNECTED CURRENT:	9 A
				TOTAL ESTIMATED DEMAND CURRENT	10 A

NOTES:
1. PROVIDE LISTED SURGE PROTECTION DEVICE IN OR ON ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER NEC 700.8.
2. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

Panelboard: LSW3

Location: | **Supply From:** LSW1 | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Distribution System: 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Modifications:**
A.I.C. Rating: 22kAIC | **Mains Type:** FEED THRU | **Mains Rating:** 100 A | **MCB Rating:**

Notes	Wiring	Ckt. No.	Load Description	Trip	Poles	LOAD PHASE-A (VA)	LOAD PHASE-B (VA)	LOAD PHASE-C (VA)	Poles	Trip	Load Description	Ckt. No.	Wiring	Notes
	20A	1	LVL 03 - FIRE SMOKE DAMPER	20 A	1	500 / 186			1	20 A	LVL 03 - EMERGENCY LIGHTING	2	20A	
	20A	3	LVL 03 - FIRE SMOKE DAMPER	20 A	1		500 / 151		1	20 A	LVL 03 - EMERGENCY LIGHTING	4	20A	
	20A	5	LVL 04 - FIRE SMOKE DAMPER	20 A	1			500 / 186	1	20 A	LVL 04 - EMERGENCY LIGHTING	6	20A	
	20A	7	LVL 04 - FIRE SMOKE DAMPER	20 A	1	500 / 151			1	20 A	LVL 04 - EMERGENCY LIGHTING	8	20A	
--	--	9	SPARE	20 A	1		0 / 480		1	20 A	STAIR 2 - EMERGENCY LIGHTING	10	20A	
--	--	11	SPARE	20 A	1			0 / 0	1	20 A	SPARE	12	--	--
--	--	13	SPARE	20 A	1	0 / 0			1	20 A	SPARE	14	--	--
--	--	15	SPARE	20 A	1		0 / 0		1	20 A	SPARE	16	--	--
--	--	17	SPARE	20 A	1			0 / 0	1	20 A	SPARE	18	--	--
--	--	19	SPARE	20 A	1	0 / 0			1	20 A	SPARE	20	--	--
--	--	21	SPARE	20 A	1		0 / 0		1	20 A	SPARE	22	--	--
--	--	23	SPARE	20 A	1			0 / 0	1	20 A	SPARE	24	--	--
--	--	25	SPARE	20 A	1	0 / 0			1	20 A	SPARE	26	--	--
--	--	27	SPARE	20 A	1		0 / 0		1	20 A	SPARE	28	--	--
--	--	29	SPARE	20 A	1			0 / 0	1	20 A	SPARE	30	--	--
--	--	31	SPARE	20 A	1	0 / 0			1	20 A	SPARE	32	--	--
--	--	33	SPARE	20 A	1		0 / 0		1	20 A	SPARE	34	--	--
--	--	35	SPARE	20 A	1			0 / 0	1	20 A	SPARE	36	--	--
--	--	37	SPARE	20 A	1	0 / 0			1	20 A	SPARE	38	--	--
--	--	39	SPARE	20 A	1		0 / 0		1	20 A	SPARE	40	--	--
--	--	41	SPARE	20 A	1			0 / 0	1	20 A	SPARE	42	--	--
				Load Per...		1337 VA	1131 VA	686 VA						

Load Classification	Connected...	Demand...	Est. Demand	Panel Totals	
LIGHTING	1154 VA	125.00%	1443 VA	TOTAL CONNECTED LOAD:	3154 VA
EQUIPMENT	2000 VA	100.00%	2000 VA	TOTAL ESTIMATED DEMAND:	3443 VA
				TOTAL CONNECTED CURRENT:	9 A
				TOTAL ESTIMATED DEMAND CURRENT	10 A

NOTES:
1. PROVIDE LISTED SURGE PROTECTION DEVICE IN OR ON ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER NEC 700.8.
2. PROVIDE METERING RQUIRED BY ASHRAE 90.1-2016.

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P.A.:	JTG
P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
	SCHEMATIC BUDGET PRICING SET	11/07/2022
1	PERMIT SET	12/20/2022

Project Status

ELECTRICAL SCHEDULES

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E0.26

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LC-A

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt...	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1,3	20A	5	MICROWAVE	20 A	950 VA / 540 VA		20 A	GARBAGE DISPOSAL	6	20A	1
1	20A	7	DISHWASHER	20 A		852 VA / 1320...	20 A	LAUNDRY CIRCUIT	8	20A	1,3
1,3	20A	9	REFRIGERATOR	20 A	960 VA / 2150 VA		30 A	DRYER	10	30D	
	50D	11	RANGE/OVEN	50 A		4550 VA / 2150...			12		
		13			4550 VA / 0 VA		20 A	KITCHEN & DINING RECEPT	14	20A	1,2
1,2	20A	15	BEDROOM RECEPT	20 A		0 VA / 0 VA	20 A	LIVING ROOM & BALCONY	16	20A	1,2
2	20A	17	BATHROOM RECEPT & EF-A	20 A	0 VA / 0 VA		20 A	SPARE	18	--	
	--	19	SPARE	20 A		0 VA / 0 VA	20 A	SPARE	20	--	
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	EXTERIOR LTG & RECEPT.	22	20A	1,2
4	20C	23	ACCU-A	20 A		0 VA / 696 VA	20 A	HWRP-1	24	20A	1
		25			0 VA / 1000 VA		20 A	EH-A	26	20A	1
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-1	28	30C	
		29			3495 VA / 2250...				30		
			Load Per Phase:		15895 VA	18313 VA		**TOTAL DEMAND AMPS**			
								137 A			

DIVERSITY			
LTG & RECEPT:		789 SF	2367 VA
APPLIANCES:			21022 VA
NO DIVERSITY:	23389 VA	W/...	15356 VA
HVAC:	13185 VA		
TOTAL:	36574 VA		28541 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF, COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-B

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1	20A	5	SMALL APPLIANCE	20 A	1500 VA / 950 VA		20 A	MICROWAVE	6	20A	1,3
1	20A	7	GARBAGE DISPOSAL	20 A		540 VA / 852 VA	20 A	DISHWASHER	8	20A	1
1,3	20A	9	LAUNDRY CIRCUIT	20 A	1320 VA / 960 VA		20 A	REFRIGERATOR	10	20A	1,3
	30D	11	DRYER	30 A		2150 VA / 4550...	50 A	RANGE/OVEN	12	50D	
		13			2150 VA / 4550...				14		
1,2	20A	15	KITCHEN & DINING RECEPT	20 A		0 VA / 0 VA	20 A	BEDROOM RECEPT	16	20A	1,2
1,2	20A	17	LIVING ROOM & BALCONY	20 A	0 VA / 0 VA		20 A	BATHROOM RECEPT & EF-A	18	20A	2
	--	19	SPARE	20 A		0 VA / 0 VA	20 A	SPARE	20	--	
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	EXTERIOR LTG & RECEPT.	22	--	
4	20C	23	ACCU-A	20 A		0 VA / 0 VA	20 A	EXTERIOR LTG & RECEPT.	24	20A	1,2
		25			0 VA / 1000 VA		20 A	EH-A	26	20A	1
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-1	28	30C	
		29			3495 VA / 2250...				30		
			Load Per Phase:		18175 VA	16837 VA		**TOTAL DEMAND AMPS**			
								136 A			

DIVERSITY			
LTG & RECEPT:		723 SF	2169 VA
APPLIANCES:			22522 VA
NO DIVERSITY:	24691 VA	W/...	15876 VA
HVAC:	12489 VA		
TOTAL:	37180 VA		28365 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF, COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-B2

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1	20A	5	SMALL APPLIANCE	20 A	1500 VA / 950 VA		20 A	MICROWAVE	6	20A	1,3
1	20A	7	GARBAGE DISPOSAL	20 A		540 VA / 852 VA	20 A	DISHWASHER	8	20A	1
1,3	20A	9	LAUNDRY CIRCUIT	20 A	1320 VA / 960 VA		20 A	REFRIGERATOR	10	20A	1,3
	30D	11	DRYER	30 A		2150 VA / 4550...	50 A	RANGE/OVEN	12	50C	
		13			2150 VA / 4550...				14		
1,2	20A	15	KITCHEN & DINING RECEPT	20 A		0 VA / 0 VA	20 A	LIVING ROOM & BALCONY	16	20A	1,2
1,2	20A	17	BEDROOM RECEPT	20 A	0 VA / 0 VA		20 A	BEDROOM RECEPT	18	20A	1,2
2	20A	19	BATHROOM RECEPT & EF-A	20 A		0 VA / 0 VA	20 A	SPARE	20	--	
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	EXTERIOR LTG & RECEPT.	22	20A	1
4	20C	23	ACCU-A	20 A		0 VA / 696 VA	20 A	HWRP-1	24	20A	1
		25			0 VA / 1000 VA		20 A	EH-A	26	20A	1
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-1	28	30C	
		29			3495 VA / 2250...				30		
			Load Per Phase:		18175 VA	17533 VA		**TOTAL DEMAND AMPS**			
								141 A			

DIVERSITY			
LTG & RECEPT:		932 SF	2796 VA
APPLIANCES:			22522 VA
NO DIVERSITY:	25318 VA	W/...	16127 VA
HVAC:	13185 VA		
TOTAL:	38503 VA		29312 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF, COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-B3

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1	20A	5	SMALL APPLIANCE	20 A	1500 VA / 950 VA		20 A	MICROWAVE	6	20A	1,3
1	20A	7	GARBAGE DISPOSAL	20 A		540 VA / 852 VA	20 A	DISHWASHER	8	20A	1
1,3	20A	9	LAUNDRY CIRCUIT	20 A	1320 VA / 960 VA		20 A	REFRIGERATOR	10	20A	1,3
	30D	11	DRYER	30 A		2150 VA / 4550...	50 A	RANGE/OVEN	12	50D	
		13			2150 VA / 4550...				14		
1,2	20A	15	KITCHEN & DINING RECEPT	20 A		0 VA / 0 VA	20 A	BEDROOM RECEPT	16	20A	1,2
1,2	20A	17	LIVING ROOM & BALCONY	20 A	0 VA / 0 VA		20 A	BATHROOM RECEPT & EF-A	18	20A	2
1,2	20A	19	BEDROOM RECEPT	20 A		0 VA / 696 VA	20 A	HWRP-1	20	20A	1
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	SPARE	22	--	
4	20C	23	ACCU-A	20 A		0 VA / 696 VA	20 A	EXTERIOR LTG & RECEPT.	24	20A	1,2
		25			0 VA / 1000 VA		20 A	EH-A	26	20A	1
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-1	28	30C	
		29			3495 VA / 2250...				30		
			Load Per Phase:		18175 VA	17533 VA		**TOTAL DEMAND AMPS**			
								141 A			

DIVERSITY			
LTG & RECEPT:		865 SF	2595 VA
APPLIANCES:			22522 VA
NO DIVERSITY:	25117 VA	W/...	16047 VA
HVAC:	13185 VA		
TOTAL:	38302 VA		29232 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF, COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-B4

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1	20A	5	SMALL APPLIANCE	20 A	1500 VA / 950 VA		20 A	MICROWAVE	6	20A	1,3
1	20A	7	GARBAGE DISPOSAL	20 A		540 VA / 852 VA	20 A	DISHWASHER	8	20A	1
1,3	20A	9	LAUNDRY CIRCUIT	20 A	1320 VA / 960 VA		20 A	REFRIGERATOR	10	20A	1,3
	30D	11	DRYER	30 A		2150 VA / 4550...	50 A	RANGE/OVEN	12	50D	
		13			2150 VA / 4550...				14		
1,2	20A	15	KITCHEN & DINING RECEPT	20 A		0 VA / 0 VA	20 A	BEDROOM RECEPT	16	20A	1,2
1,2	20A	17	LIVING ROOM & BALCONY	20 A	0 VA / 0 VA		20 A	BATHROOM RECEPT & EF-A	18	20A	2
1,2	20A	19	BEDROOM RECEPT	20 A		0 VA / 696 VA	20 A	HWRP-1	20	20A	1
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	SPARE	22	--	
4	20C	23	ACCU-A	20 A		0 VA / 0 VA	20 A	EXTERIOR LTG & RECEPT.	24	20A	1,2
		25			0 VA / 1000 VA		20 A	EH-A	26	20A	1
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-1	28	30C	
		29			3495 VA / 2250...				30		
			Load Per Phase:		18175 VA	17533 VA		**TOTAL DEMAND AMPS**			
								141 A			

DIVERSITY			
LTG & RECEPT:		1010 SF	3030 VA
APPLIANCES:			22522 VA
NO DIVERSITY:	25552 VA	W/...	16221 VA
HVAC:	13185 VA		
TOTAL:	38737 VA		29406 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF, COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-B5

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1	20A	5	SMALL APPLIANCE	20 A	1500 VA / 950 VA		20 A	MICROWAVE	6	20A	1,3
1	20A	7	GARBAGE DISPOSAL	20 A		540 VA / 852 VA	20 A	DISHWASHER	8	20A	1
1,3	20A	9	LAUNDRY CIRCUIT	20 A	1320 VA / 960 VA		20 A	REFRIGERATOR	10	20A	1,3
	30D	11	DRYER	30 A		2150 VA / 4550...	50 A	RANGE/OVEN	12	50D	
		13			2150 VA / 4550...				14		
1,2	20A	15	KITCHEN & DINING RECEPT	20 A		0 VA / 0 VA	20 A	BEDROOM RECEPT	16	20A	1,2
1,2	20A	17	LIVING ROOM & BALCONY	20 A	0 VA / 0 VA		20 A	BATHROOM RECEPT & EF-A	18	20A	2
1,2	20A	19	DEN RECEPT	20 A		0 VA / 0 VA	20 A	SPARE	20	--	
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	SPARE	22	--	
4	20C	23	ACCU-A	20 A		0 VA / 0 VA	20 A	EXTERIOR LTG & RECEPT.	24	20A	1,2
		25			0 VA / 1000 VA		20 A	EH-A	26	20A	1
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-1	28	30C	
		29			3495 VA / 2250...				30		
			Load Per Phase:		18175 VA	16837 VA		**TOTAL DEMAND AMPS**			
								137 A			

DIVERSITY			
LTG & RECEPT:		900 SF	2700 VA
APPLIANCES:			22522 VA
NO DIVERSITY:	25222 VA	W/...	16089 VA
HVAC:	12489 VA		
TOTAL:	37711 VA		28578 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF, COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-B6

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1	20A	5	SMALL APPLIANCE	20 A	1500 VA / 950 VA		20 A	MICROWAVE	6	20A	1,3
1	20A	7	GARBAGE DISPOSAL	20 A		540 VA / 852 VA	20 A	DISHWASHER	8	20A	1
1,3	20A	9	LAUNDRY CIRCUIT	20 A	1320 VA / 960 VA		20 A	REFRIGERATOR	10	20A	1,3
	30D	11	DRYER	30 A		2150 VA / 4550...	50 A	RANGE/OVEN	12	50D	
		13			2150 VA / 4550...				14		
1,2	20A	15	KITCHEN & DINING RECEPT	20 A		0 VA / 0 VA	20 A	BEDROOM RECEPT	16	20A	1,2
1,2	20A	17	LIVING ROOM & BALCONY	20 A	0 VA / 0 VA		20 A	BATHROOM RECEPT & EF-A	18	20A	2
1,2	20A	19	BEDROOM RECEPT	20 A		0 VA / 696 VA	20 A	HWRP-1	20	20A	1
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	SPARE	22	--	
4	20C	23	ACCU-A	20 A		0 VA / 0 VA	20 A	EXTERIOR LTG & RECEPT.	24	20A	1,2
		25			0 VA / 1000 VA		20 A	EH-A	26	20A	1
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-1	28	30C	
		29			3495 VA / 2250...				30		
			Load Per Phase:		18175 VA	17533 VA		**TOTAL DEMAND AMPS**			
								141 A			

DIVERSITY			
LTG & RECEPT:		865 SF	2595 VA
APPLIANCES:			22522 VA
NO DIVERSITY:	25117 VA	W/...	16047 VA
HVAC:	13185 VA		
TOTAL:	38302 VA		29232 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF, COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-B (FW-1)

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1	20A	5	SMALL APPLIANCE	20 A	1500 VA / 950 VA		20 A	MICROWAVE	6	20A	1,3
1	20A	7	GARBAGE DISPOSAL	20 A		540 VA / 852 VA	20 A	DISHWASHER	8	20A	1
1,3	20A	9	LAUNDRY CIRCUIT	20 A	1320 VA / 960 VA		20 A	REFRIGERATOR	10	20A	1,3
	30D	11	DRYER	30 A		2150 VA / 4550...	50 A	RANGE/OVEN	12	50D	
		13			2150 VA / 4550...				14		
1,2	20A	15	KITCHEN & DINING RECEPT	20 A		0 VA / 0 VA	20 A	BEDROOM RECEPT	16	20A	1,2
1,2	20A	17	LIVING ROOM & BALCONY	20 A	0 VA / 0 VA		20 A	BATHROOM RECEPT & EF-A	18	20A	2
	--	19	SPARE	20 A		0 VA / 0 VA	20 A	SPARE	20	--	
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	SPARE	22	--	
4	20C	23	ACCU-A	20 A		0 VA / 0 VA	20 A	EXTERIOR LTG & RECEPT.	24	20A	1
		25			0 VA / 1000 VA		20 A	EH-A	26	20A	1
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-1	28	30C	
		29			3495 VA / 2250...				30		
			Load Per Phase:		18175 VA	16837 VA		**TOTAL DEMAND AMPS**			
								136 A			

DIVERSITY			
LTG & RECEPT:		727 SF	2181 VA
APPLIANCES:			22522 VA
NO DIVERSITY:	24703 VA	W/...	15881 VA
HVAC:	12489 VA		
TOTAL:	37192 VA		28370 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF, COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-C

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1,3	20A	5	MICROWAVE	20 A	950 VA / 540 VA		20 A	GARBAGE DISPOSAL	6	20A	1
1	20A	7	DISHWASHER	20 A		852 VA / 1320...	20 A	LAUNDRY CIRCUIT	8	20A	1,3
1,3	20A	9	REFRIGERATOR	20 A	960 VA / 2150 VA		30 A	DRYER	10	30D	
	50D	11	RANGE/OVEN	50 A		4550 VA / 2150...			12		
		13			4550 VA / 0 VA		20 A	KITCHEN & DINING RECEPT	14	20A	1,2
1,2	20A	15	BEDROOM RECEPT	20 A		0 VA / 0 VA	20 A	LIVING ROOM & BALCONY	16	20A	1,2
2	20A	17	BATHROOM RECEPT & EF-A	20 A	0 VA / 0 VA		20 A	BEDROOM RECEPT	18	20A	1,2
1,2	20A	19	DEN RECEPT	20 A		0 VA / 0 VA	20 A	SPARE	20	--	
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	EXTERIOR LTG & RECEPT.	22	20A	1,2
4	20C	23	ACCU-A	20 A		0 VA / 696 VA	20 A	HWRP-1	24	20A	
		25			0 VA / 1000 VA		20 A	EH-A	26	20A	1
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-2	28	30C	
		29			3495 VA / 2250...				30		
			Load Per Phase:		15895 VA	18313 VA		**TOTAL DEMAND AMPS**			
								140 A			

DIVERSITY			
LTG & RECEPT:		1242 SF	3726 VA
APPLIANCES:			21022 VA
NO DIVERSITY:	24748 VA	W/...	15899 VA
HVAC:	13185 VA		
TOTAL:	37933 VA		29084 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF, COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/20/2022
	SCHEMATIC BUDGET PRICING SET	11/01/2022

Project Status

ELECTRICAL SCHEDULES

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E0.27

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LC-C (FW-1)

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1,3	20A	5	MICROWAVE	20 A	950 VA / 540 VA		20 A	GARBAGE DISPOSAL	6	20A	1
1	20A	7	DISHWASHER	20 A		852 VA / 1320...	20 A	LAUNDRY CIRCUIT	8	20A	1,3
1,3	20A	9	REFRIGERATOR	20 A	960 VA / 2150 VA		30 A	DRYER	10	30D	
	50D	11	RANGE/OVEN	50 A		4550 VA / 2150...			12		
		13			4550 VA / 0 VA		20 A	KITCHEN & DINING RECEPT	14	20A	1,2
1,2	20A	15	BEDROOM RECEPT	20 A		0 VA / 0 VA	20 A	LIVING ROOM & BALCONY	16	20A	1,2
2	20A	17	BATHROOM RECEPT & EF-A	20 A	0 VA / 0 VA		20 A	BEDROOM RECEPT	18	20A	1,2
1,2	20A	19	DEN RECEPT	20 A		0 VA / 696 VA	20 A	HWRP-1	20	20A	1
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	SPARE	22	--	
4	20C	23	ACCU-A	20 A		0 VA / 0 VA	20 A	EXTERIOR LTG & RECEPT.	24	20A	1,2
		25			0 VA / 1000 VA		20 A	EH-A	26	20A	1
	50D	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-1	28	30C	
		29			3495 VA / 2250...				30		
				Load Per Phase:	15895 VA	18313 VA		**TOTAL DEMAND AMPS**			
								138 A			

DIVERSITY			
LTG & RECEPT:	1247 SF	3741 VA	
APPLIANCES:		20062 VA	
NO DIVERSITY:	23803 VA	W/...	15521 VA
HVAC:	13185 VA		
TOTAL:	36988 VA		28706 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF. COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-D

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1,3	20A	5	MICROWAVE	20 A	950 VA / 540 VA		20 A	GARBAGE DISPOSAL	6	20A	1
1	20A	7	DISHWASHER	20 A		852 VA / 1320...	20 A	LAUNDRY CIRCUIT	8	20A	1,3
1,3	20A	9	REFRIGERATOR	20 A	960 VA / 2150 VA		30 A	DRYER	10	30D	
	50D	11	RANGE/OVEN	50 A		4550 VA / 2150...			12		
		13			4550 VA / 0 VA		20 A	KITCHEN & DINING RECEPT	14	20A	1,2
1,2	20A	15	BEDROOM RECEPT	20 A		0 VA / 0 VA	20 A	LIVING ROOM & BALCONY	16	20A	1,2
2	20A	17	BATHROOM RECEPT & EF-A	20 A	0 VA / 0 VA		20 A	BEDROOM RECEPT	18	20A	1,2
	--	19	SPARE	20 A		0 VA / 0 VA	20 A	SPARE	20	--	
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	EXTERIOR LTG & RECEPT.	22	20A	1,2
4	30C	23	ACCU-B	30 A		0 VA / 696 VA	20 A	HWRP-1	24	20A	1
		25			0 VA / 1000 VA		20 A	EH-A	26	20A	1
	50C	27	AC-B	45 A		3495 VA / 2250...	30 A	EWH-2	28	30C	
		29			3495 VA / 2250...				30		
				Load Per Phase:	15895 VA	18313 VA		**TOTAL DEMAND AMPS**			
								141 A			

DIVERSITY			
LTG & RECEPT:	1374 SF	4122 VA	
APPLIANCES:		21022 VA	
NO DIVERSITY:	25144 VA	W/...	16058 VA
HVAC:	13185 VA		
TOTAL:	38329 VA		29243 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF. COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-D2 F1

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1,3	20A	5	MICROWAVE	20 A	950 VA / 540 VA		20 A	GARBAGE DISPOSAL	6	20A	1
1	20A	7	DISHWASHER	20 A		852 VA / 1320...	20 A	LAUNDRY CIRCUIT	8	20A	1,3
1,3	20A	9	REFRIGERATOR	20 A	960 VA / 2150 VA		30 A	DRYER	10	30D	
	50D	11	RANGE/OVEN	50 A		4550 VA / 2150...			12		
		13			4550 VA / 0 VA		20 A	LIVING ROOM & BALCONY	14	20A	1,2
1,2	20A	15	BEDROOM RECEPT	20 A		0 VA / 180 VA	20 A	KITCHEN & DINING RECEPT	16	20A	1,2
2	20A	17	BATHROOM RECEPT & EF-A	20 A	0 VA / 0 VA		20 A	BEDROOM RECEPT	18	20A	1,2
	--	19	SPARE	20 A		0 VA / 696 VA	20 A	HWRP-1	20	20A	1
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	SPARE	22	--	
4	20C	23	ACCU-C	20 A		0 VA / 0 VA	20 A	EXTERIOR LTG & RECEPT.	24	20A	1,2
		25			0 VA / 1000 VA		20 A	EH-A	26	20A	1
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-2	28	30C	
		29			3495 VA / 2250...				30		
				Load Per Phase:	15895 VA	18493 VA		**TOTAL DEMAND AMPS**			
								141 A			

DIVERSITY			
LTG & RECEPT:	1506 SF	4518 VA	
APPLIANCES:		21022 VA	
NO DIVERSITY:	25540 VA	W/...	16216 VA
HVAC:	13185 VA		
TOTAL:	38725 VA		29401 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF. COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-D F1

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1,3	20A	5	MICROWAVE	20 A	950 VA / 540 VA		20 A	GARBAGE DISPOSAL	6	20A	1
1	20A	7	DISHWASHER	20 A		852 VA / 1320...	20 A	LAUNDRY CIRCUIT	8	20A	1,3
1,3	20A	9	REFRIGERATOR	20 A	960 VA / 2150 VA		30 A	DRYER	10	30D	
	50D	11	RANGE/OVEN	50 A		4550 VA / 2150...			12		
		13			4550 VA / 0 VA		20 A	LIVING ROOM & BALCONY	14	20A	1,2
1,2	20A	15	BEDROOM RECEPT	20 A		0 VA / 0 VA	20 A	KITCHEN & DINING RECEPT	16	20A	1,2
2	20A	17	BATHROOM RECEPT & EF-A	20 A	0 VA / 0 VA		20 A	BEDROOM RECEPT	18	20A	1,2
	--	19	SPARE	20 A		0 VA / 696 VA	20 A	HWRP-1	20	20A	1
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	SPARE	22	--	
4	20C	23	ACCU-A	20 A		0 VA / 0 VA	20 A	EXTERIOR LTG & RECEPT.	24	20A	1,2
		25			0 VA / 1000 VA		20 A	EH-A	26	20A	1
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-1	28	30C	
		29			3495 VA / 2250...				30		
				Load Per Phase:	15895 VA	18313 VA		**TOTAL DEMAND AMPS**			
								141 A			

DIVERSITY			
LTG & RECEPT:	1426 SF	4278 VA	
APPLIANCES:		21022 VA	
NO DIVERSITY:	25300 VA	W/...	16120 VA
HVAC:	13185 VA		
TOTAL:	38485 VA		29305 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF. COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-E

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1	20A	5	SMALL APPLIANCE	20 A	1500 VA / 950 VA		20 A	MICROWAVE	6	20A	1,3
1	20A	7	GARBAGE DISPOSAL	20 A		540 VA / 852 VA	20 A	DISHWASHER	8	20A	1
1,3	20A	9	LAUNDRY CIRCUIT	20 A	1320 VA / 960 VA		20 A	REFRIGERATOR	10	20A	1,3
	30D	11	DRYER	30 A		2150 VA / 4550...	50 A	RANGE/OVEN	12	50D	
		13			2150 VA / 4550...				14		
1,2	20A	15	KITCHEN & DINING RECEPT	20 A		0 VA / 0 VA	20 A	BEDROOM RECEPT	16	20A	1,2
1,2	20A	17	LIVING ROOM & BALCONY	20 A	0 VA / 0 VA		20 A	BATHROOM RECEPT & EF-A	18	20A	2
1,2	20A	19	BEDROOM RECEPT	20 A		0 VA / 0 VA	20 A	DEN RECEPT	20	20A	1,2
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	SPARE	22	--	
4	20C	23	ACCU-A	20 A		0 VA / 0 VA	20 A	SPARE	24	--	
		25			0 VA / 0 VA		20 A	SPARE	26	--	
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-2	28		
		29			3495 VA / 2250...				30	30C	
				Load Per Phase:	17175 VA	16837 VA		**TOTAL DEMAND AMPS**			
								136 A			

DIVERSITY			
LTG & RECEPT:	1534 SF	4602 VA	
APPLIANCES:		22522 VA	
NO DIVERSITY:	27124 VA	W/...	16850 VA
HVAC:	11489 VA		
TOTAL:	38613 VA		28339 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF. COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-E (FW-1)

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1	20A	5	SMALL APPLIANCE	20 A	1500 VA / 950 VA		20 A	MICROWAVE	6	20A	1,3
1	20A	7	GARBAGE DISPOSAL	20 A		540 VA / 852 VA	20 A	DISHWASHER	8	20A	1
1,3	20A	9	LAUNDRY CIRCUIT	20 A	1320 VA / 960 VA		20 A	REFRIGERATOR	10	20A	1,3
	30D	11	DRYER	30 A		2150 VA / 4550...	50 A	RANGE/OVEN	12	50D	
		13			2150 VA / 4550...				14		
1,2	20A	15	KITCHEN & DINING RECEPT	20 A		0 VA / 0 VA	20 A	BEDROOM RECEPT	16	20A	1,2
1,2	20A	17	LIVING ROOM & BALCONY	20 A	0 VA / 0 VA		20 A	BATHROOM RECEPT & EF-A	18	20A	2
1,2	20A	19	BEDROOM RECEPT	20 A		0 VA / 0 VA	20 A	DEN RECEPT	20	20A	1,2
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	SPARE	22	--	
4	20C	23	ACCU-A	20 A		0 VA / 0 VA	20 A	SPARE	24	--	
		25			0 VA / 696 VA		20 A	HWRP-1	26	20A	1
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-2	28	30C	
		29			3495 VA / 2250...				30		
				Load Per Phase:	17871 VA	16837 VA		**TOTAL DEMAND AMPS**			
								140 A			

DIVERSITY			
LTG & RECEPT:	1531 SF	4593 VA	
APPLIANCES:		22522 VA	
NO DIVERSITY:	27115 VA	W/...	16846 VA
HVAC:	12185 VA		
TOTAL:	39300 VA		29031 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF. COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-E (FW-2)

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1	20A	5	SMALL APPLIANCE	20 A	1500 VA / 950 VA		20 A	MICROWAVE	6	20A	1,3
1	20A	7	GARBAGE DISPOSAL	20 A		540 VA / 852 VA	20 A	DISHWASHER	8	20A	1
1,3	20A	9	LAUNDRY CIRCUIT	20 A	1320 VA / 960 VA		20 A	REFRIGERATOR	10	20A	1,3
	30D	11	DRYER	30 A		2150 VA / 4550...	50 A	RANGE/OVEN	12	50D	
		13			2150 VA / 4550...				14		
1,2	20A	15	KITCHEN & DINING RECEPT	20 A		0 VA / 0 VA	20 A	BEDROOM RECEPT	16	20A	1,2
1,2	20A	17	LIVING ROOM & BALCONY	20 A	0 VA / 0 VA		20 A	BATHROOM RECEPT & EF-A	18	20A	2
1,2	20A	19	BEDROOM RECEPT	20 A		0 VA / 0 VA	20 A	DEN RECEPT	20	20A	1,2
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	SPARE	22	--	
4	20C	23	ACCU-A	20 A		0 VA / 0 VA	20 A	SPARE	24	--	
		25			0 VA / 696 VA		20 A	HWRP	26	20A	1
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-2	28	30C	
		29			3495 VA / 2250...				30		
				Load Per Phase:	17871 VA	16837 VA		**TOTAL DEMAND AMPS**			
								140 A			

DIVERSITY			
LTG & RECEPT:	1538 SF	4614 VA	
APPLIANCES:		22522 VA	
NO DIVERSITY:	27136 VA	W/...	16854 VA
HVAC:	12185 VA		
TOTAL:	39321 VA		29039 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF. COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-E (FW-3)

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1	20A	5	SMALL APPLIANCE	20 A	1500 VA / 950 VA		20 A	MICROWAVE	6	20A	1,3
1	20A	7	GARBAGE DISPOSAL	20 A		540 VA / 852 VA	20 A	DISHWASHER	8	20A	1
1,3	20A	9	LAUNDRY CIRCUIT	20 A	1320 VA / 960 VA		20 A	REFRIGERATOR	10	20A	1,3
	30D	11	DRYER	30 A		2150 VA / 4550...	50 A	RANGE/OVEN	12	50D	
		13			2150 VA / 4550...				14		
1,2	20A	15	KITCHEN & DINING RECEPT	20 A		0 VA / 0 VA	20 A	BEDROOM RECEPT	16	20A	1,2
1,2	20A	17	LIVING ROOM & BALCONY	20 A	0 VA / 0 VA		20 A	BATHROOM RECEPT & EF-A	18	20A	2
1,2	20A	19	BEDROOM RECEPT	20 A		0 VA / 0 VA	20 A	DEN RECEPT	20	20A	1,2
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	SPARE	22	--	
4	20C	23	ACCU-A	20 A		0 VA / 0 VA	20 A	SPARE	24	--	
		25			0 VA / 0 VA		20 A	SPARE	26	--	
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-2	28		
		29			3495 VA / 2250...				30	30C	
				Load Per Phase:	17175 VA	16837 VA		**TOTAL DEMAND AMPS**			
								127 A			

DIVERSITY			
LTG & RECEPT:		0 VA	
APPLIANCES:		22522 VA	
NO DIVERSITY:	22522 VA	W/...	15009 VA
HVAC:	11489 VA		
TOTAL:	34011 VA		26498 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF. COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

LC-E (FW-4)

Location: | **Distribution...** 120/208 Single Phase | **A.I.C. Rating:** Series Rating
Supply From: | **Phases:** 1 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 3 | **Mains Rating:** 150 A
Enclosure: TYPE 1 | **Modifications:**

Notes	Wiring	Ckt....	Load Description	Circu...	A	B	Circuit...	Load Description	Ckt....	Wiring	Notes
1,2	20A	1	LTG & SMOKE ALARMS	20 A	0 VA / 0 VA		20 A	SMC MEDIA CABINET	2	20A	1,2
1	20A	3	SMALL APPLIANCE	20 A		1500 VA / 1500...	20 A	SMALL APPLIANCE	4	20A	1
1	20A	5	SMALL APPLIANCE	20 A	1500 VA / 950 VA		20 A	MICROWAVE	6	20A	1,3
1	20A	7	GARBAGE DISPOSAL	20 A		540 VA / 852 VA	20 A	DISHWASHER	8	20A	1
1,3	20A	9	LAUNDRY CIRCUIT	20 A	1320 VA / 960 VA		20 A	REFRIGERATOR	10	20A	1,3
	30D	11	DRYER	30 A		2150 VA / 4550...	50 A	RANGE/OVEN	12	50D	
		13			2150 VA / 4550...				14		
1,2	20A	15	KITCHEN & DINING RECEPT	20 A		0 VA / 0 VA	20 A	BEDROOM RECEPT	16	20A	1,2
1,2	20A	17	LIVING ROOM & BALCONY	20 A	0 VA / 0 VA		20 A	BATHROOM RECEPT & EF-A	18	20A	2
1,2	20A	19	BEDROOM RECEPT	20 A		0 VA / 0 VA	20 A	DEN RECEPT	20	20A	1,2
	--	21	SPARE	20 A	0 VA / 0 VA		20 A	SPARE	22	--	
4	20C	23	ACCU-A	20 A		0 VA / 0 VA	20 A	SPARE	24	--	
		25			0 VA / 0 VA		20 A	SPARE	26	--	
	50C	27	AC-A	45 A		3495 VA / 2250...	30 A	EWH-2	28	30C	
		29			3495 VA / 2250...				30		
				Load Per Phase:	17175 VA	16837 VA		**TOTAL DEMAND AMPS**			
								136 A			

DIVERSITY			
LTG & RECEPT:	1538 SF	4614 VA	
APPLIANCES:		22522 VA	
NO DIVERSITY:	27136 VA	W/...	16854 VA
HVAC:	11489 VA		
TOTAL:	38625 VA		28343 VA

NOTES:
1. PROVIDE AFCI CIRCUIT BREAKER.
2. LOAD FOR THIS CIRCUIT IS INCLUDED IN 3VA/SF LIGHTING CALCULATION.
3. PROVIDE GFCI BREAKER.
4. EQUIPMENT LOCATED ON ROOF. COORDINATE EXACT LOCATION AND ROUTING IN FIELD.
5. PROVIDE METERING REQUIRED BY ASHRAE 90.1-2016.
6. LOAD FOR ACCU IS NON-COINCIDENTAL WITH ELECTRIC HEAT LOAD INCLUDED IN AC UNIT.

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P.M.: TRT
DRAWN BY: Author
PROJECT NO: 1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/07/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL SCHEDULES

Granite Run Apartments

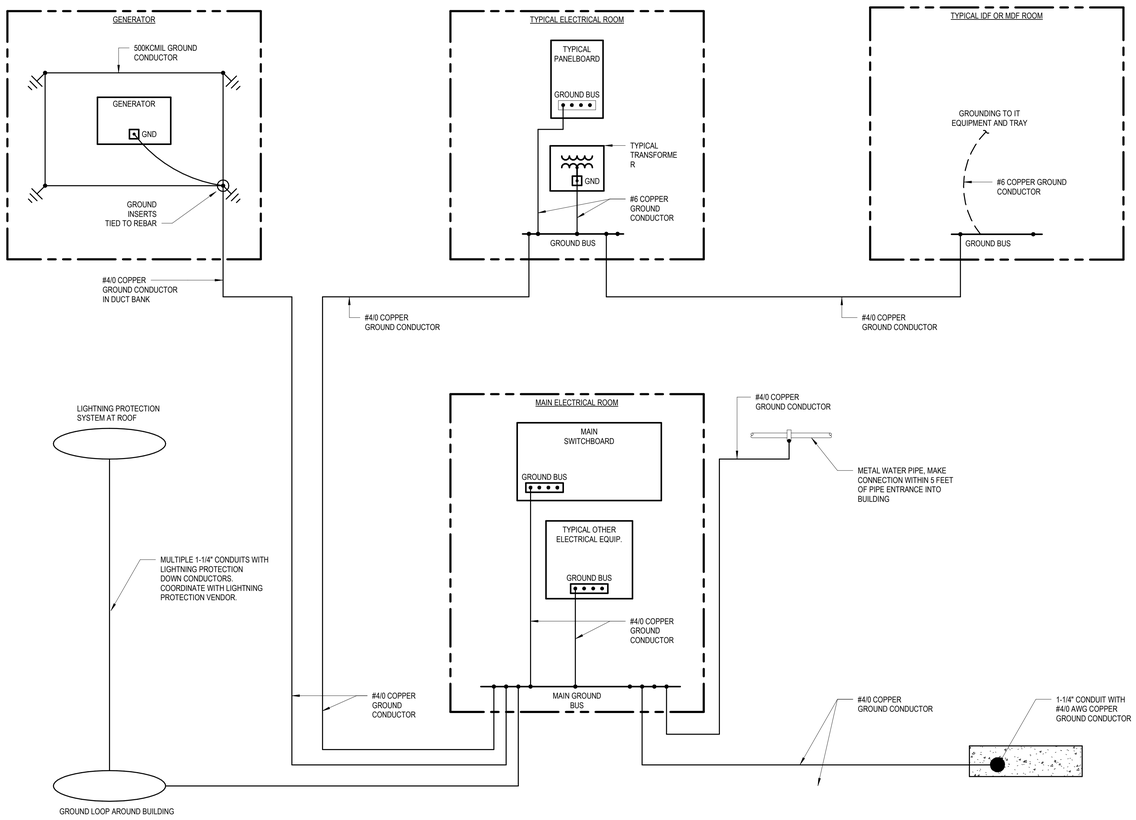
MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 11/01/22

E0.28

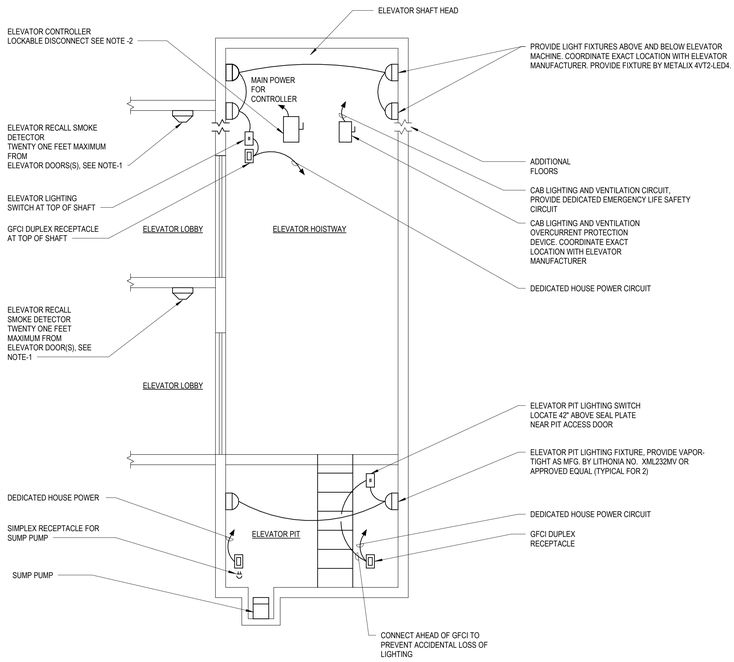
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1 E0.31 TYPICAL GROUND BUS AND EQUIPMENT GROUNDING

NOT TO SCALE

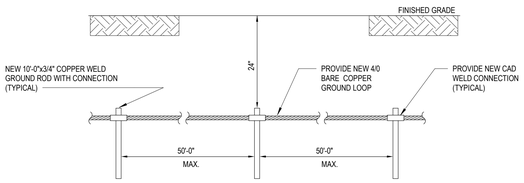


NOTES:

1. ACTIVATION OF ANY OF THE SMOKE DETECTORS SHOWN SHALL INITIATE ELEVATOR RECALL. ACTIVATION OF SMOKE DETECTOR(S) ON DESIGNATED LEVEL SHALL CAUSE THE ELEVATOR TO RETURN TO AN ALTERNATE LEVEL DESIGNATED AND ALTERNATE LEVELS TO BE DETERMINED BY THE ELEVATOR INSPECTOR AND FIRE MARSHAL.
2. FUSIBLE ELEVATOR DISCONNECT, LOCATE ADJACENT TO DOOR ENTERING MACHINE ROOM. PROVIDE WITH MEANS FOR LOCKING IN "OPEN" POSITION PROVIDE WITH CLASS-J DUAL-ELEMENT, TIME-DELAY FUSES.
3. CONTROL AND COMMUNICATION WIRING, PROVIDE THE FOLLOWING TO EACH ELEVATOR CONTROLLER.
   - 5.1 AUXILIARY CONTACTS FOR SELF LOWERING ELEVATORS (IF APPLICABLE)
   - 5.2 TELEPHONE AND DATA CABLES
   - 5.3 COMMUNICATION WIRES FROM FIRE ALARM CONTROL PANEL

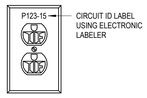
5 E0.31 ELECTRICAL - TYPICAL ELEVATOR REQUIREMENTS

12" = 1'-0"



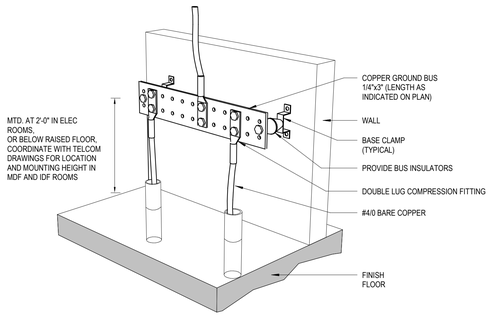
3 E0.31 GROUND - LOOP/GRID DETAIL

NOT TO SCALE



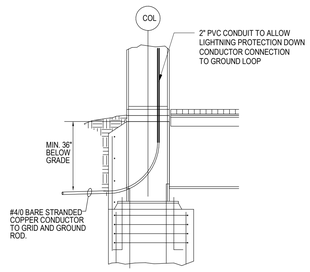
6 E0.31 TYPICAL CIRCUIT IDENTIFICATION TAG

NOT TO SCALE



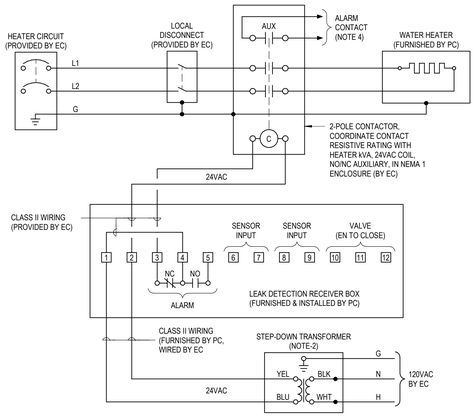
2 E0.31 GROUND BUS DETAIL

NOT TO SCALE



4 E0.31 COLUMN AT WALL

NOT TO SCALE



NOTES:

1. THIS WIRING DIAGRAM BASED ON FLOODMASTER RS-080-MK6 WHICH INCLUDES THE FOLLOWING: RECEIVER UNIT, STEP-DOWN TRANSFORMER, SHUT-OFF VALVE, AND LEAK SENSORS. THIS UNIT IS FURNISHED BY PLUMBING CONTRACTOR. FOLLOW MANUFACTURERS DIRECTIONS FOR OTHER TYPES. EC DENOTES ELECTRICAL CONTRACTOR, PC DENOTES PLUMBING CONTRACTOR.
2. STEP-DOWN TRANSFORMER IS FURNISHED BY PC AND INSTALLED BY EC. EC RESPONSIBLE FOR TRANSFORMER PRIMARY AND SECONDARY WIRING.
3. ALL WIRING IS PROVIDED OR INSTALLED BY THE EC UNLESS OTHERWISE NOTED. SENSOR INPUT AND VALVE WIRING BY PC. ALL WIRING AND DEVICES SHALL BE PLENUM RATED WHERE INSTALLED IN PLENUM RATED CEILINGS.
4. WHEN REQUIRED, UTILIZE AUXILIARY CONTACT ON CONTACTOR FOR ALARM WIRING TO BMS (ALARM WIRING BY BMS CONTRACTOR). NORMALLY OPEN CONTACT SHOWN IS HELD CLOSED AND WILL OPEN WITH ALARM.

7 E0.31 WATER HEATER LEAK DETECTION WIRING DIAGRAM

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	11/01/2022
	PERMIT/TIC BUDGET PRICING SET	12/20/2022

Project Status

ELECTRICAL DETAILS

Granite Run Apartments

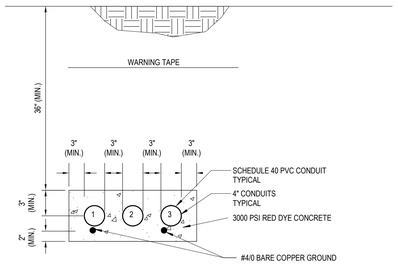
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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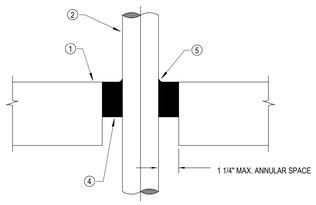
CONDUIT SCHEDULE	
#	ELECTRICAL EQUIPMENT
1-3	UTILITY DUCT-BANK CONDUITS

DETAIL NOTES:

1. PULL STRINGS SHALL BE INSTALLED WITHIN EACH CONDUIT.
2. PROVIDE A MINIMUM OF 12 INCHES OF HORIZONTAL AND VERTICAL CLEARANCE BETWEEN DUCTBANK AND OTHER UTILITIES.
3. PROVIDE DUCT SPACERS EVERY 20 FEET WITHIN DUCT-BANK.

1 E0.32 UTILITY DUCT BANK SECTION

NOT TO SCALE

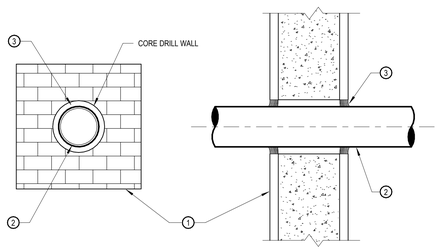


NOTES:

1. FLOOR OR WALL ASSEMBLY: MINIMUM 3-1/4" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE.
2. METALLIC PIPE: NOMINAL 4" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, RIGID STEEL CONDUIT OR STEEL EMT. MAXIMUM ONE STEEL PIPE, CONDUIT OR EMT PER OPENING, CENTERED IN OPENING. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MAXIMUM 3/4". PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
3. PACKING MATERIAL: (OPTIONAL, NOT SHOWN) - LOOSE CERAMIC (ALUMINA SILICA) FIBER TIGHTLY-PACKED INTO ANNULAR SPACE BETWEEN THE PIPE OR CONDUIT AND THE SIDES OF THE THROUGH OPENING. WHEN USED IN FLOORS, A MINIMUM 1-1/2" THICKNESS OF FIBER IS REQUIRED WITH ITS TOP SURFACE RECESSED MINIMUM 1-1/2" BELOW TOP SURFACE OF FLOOR. WHEN USED IN WALLS, ENTIRE ANNULAR SPACE TO BE FILLED WITH TIGHTLY-PACKED FIBER EXCEPT FOR A MINIMUM 1/2" DEPTH AT EACH SURFACE OF THE WALL.
4. FILL, VOID OR CAVITY MATERIALS - PUTTY: PUTTY MATERIAL THAT IS KNEADED AND PACKED TIGHTLY INTO ANNULAR SPACE. IN FLOORS, A MINIMUM 1" THICKNESS OF FILL MATERIAL SHALL BE INSTALLED SUCH THAT ITS TOP SURFACE IS RECESSED 1" BELOW TOP SURFACE OF FLOOR. WHEN OPTIONAL PACKING MATERIAL (ITEM 3) IS USED IN FLOORS, A MINIMUM 1" THICKNESS OF FILL MATERIAL SHALL BE INSTALLED SUCH THAT ITS TOP SURFACE IS RECESSED 1/2" BELOW TOP SURFACE OF FLOORS. IN WALLS, A MINIMUM 1" THICKNESS OF FILL MATERIAL SHALL BE INSTALLED SUCH THAT ITS' SURFACES ARE RECESSED MINIMUM 1" FROM BOTH SURFACES OF WALL. WHEN OPTIONAL PACKING MATERIAL IS USED IN WALLS, A MINIMUM 1/2" THICKNESS OF ILL MATERIAL IS REQUIRED ON EACH SIDE OF WALL WITH THE SURFACE OF THE FILL MATERIAL FLUSH WITH EACH SURFACE OF THE WALL.
5. FIRE BARRIER CAULK "3M" CP 25WB OR EQUIVALENT SHALL BE USED. THE FIRE RATING OF THE CAULK IS BASED ON THE WET INSTALLED DEPTH. PENETRATION FIRE STOP SHALL COMPLY WITH UL THROUGH-PENETRATION FIRESTOP SYSTEM NO. 319 PER ASTME E 814 (ANSI/UL 1479) FIRE TEST.

8 E0.32 PENETRATION FIRE-STOP FOR STEEL CONDUIT

NOT TO SCALE

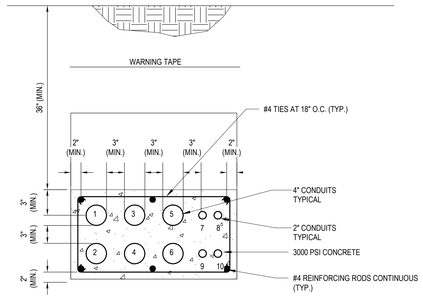


NOTES:

1. CONCRETE OR CONCRETE BLOCK WALL.
2. STEEL CONDUIT, MAXIMUM 4".
3. "STI" LC150 SEALANT INSTALLED TO A 5/8" DEPTH WITH AN ADDITIONAL 1/4" CROWN APPLIED TP THE PERIMETER. ANNULUS SHALL RANGE FROM 1/8" MINIMUM TO 1/2" MAX.
4. FIRE PENETRATION DETAIL NOTES:
   A. PENETRATION FIRE STOP SHALL COMPLY WITH THE APPROPRIATE THROUGH-PENETRATION FIRE STOR SYSTEM FOR CONFIGURATION SHOWN, PER ASTME 814 (ANSI/UL 1479) FIRE TEST.
   B. INSTALL THE FIRE STOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY. FIRE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE WITH A MINIMUM 1/4" DIAMETER BEAD OF CAULK APPLIED TO THE PERIMETER OS THE PIPE/CONDUIT AT ITS EGRESS FROM THE WALL.
   C. ALL PENETRATIONS OF FIRE RESTRICTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITERS LABORATORIES LISTINGS FOR "THROUGH PENETRATION FIRE STOP SYSTEMS".
   D. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE CONFORMANCE TO THE UL LISTING TO THE ENGINEER, AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE BUILDING OFFICIAL AND FIELD INSPECTIONS.
   E. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION, WITH ALL VARIABLES DEFINED.
   F. ALL MATERIALS MUST HAVE A MINIMUM MELTING POINT OF 1700°F

6 E0.32 PENETRATION FIRE-STOP FOR STEEL CONDUIT THRU CONCRETE OR BLOCK WALL

NOT TO SCALE



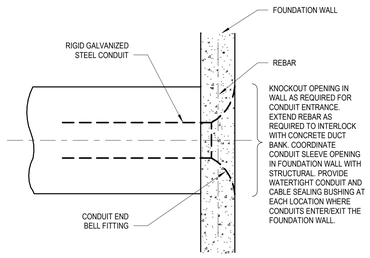
CONDUIT SCHEDULE	
#	ELECTRICAL EQUIPMENT
1-3	GENERATOR FEEDERS TO ATS-LR
4	GENERATOR FEEDERS TO ATS-LS
5	SPARE CONDUIT
6	SPARE CONDUIT
7	GENERATOR CONTROLS - ATS-LS GENERATOR START SIGNAL
8	GENERATOR CONTROLS - ATS-LR GENERATOR START SIGNAL
9	GENERATOR "DG-2" REMOTE ANNUNCIATOR WIRING
10	SPARE CONDUIT

2 E0.32 GENERATOR CONDUIT BANK SECTION

NOT TO SCALE

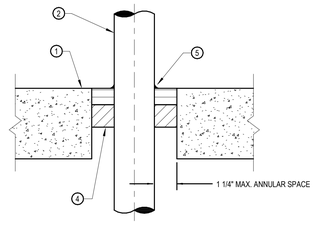
DETAIL NOTES:

1. PULL STRINGS SHALL BE INSTALLED WITHIN EACH SPARE CONDUIT.
2. PROVIDE DUCT SPACERS EVERY 20 FEET WITHIN DUCT-BANK.



3 E0.32 DUCT ENTERING BASEMENT DETAIL

NOT TO SCALE

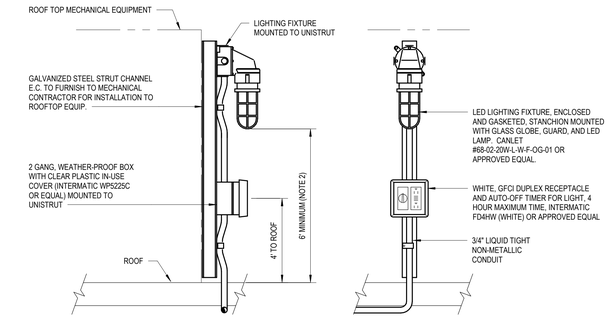


NOTES:

1. FLOOR OR WALL ASSEMBLY: MINIMUM 3-1/4" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE.
2. METALLIC PIPE: NOMINAL 4" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, RIGID STEEL CONDUIT OR STEEL EMT. MAXIMUM ONE STEEL PIPE, CONDUIT OR EMT PER OPENING, CENTERED IN OPENING. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MAXIMUM 3/4". PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
3. PACKING MATERIAL: (OPTIONAL, NOT SHOWN) - LOOSE CERAMIC (ALUMINA SILICA) FIBER TIGHTLY-PACKED INTO ANNULAR SPACE BETWEEN THE PIPE OR CONDUIT AND THE SIDES OF THE THROUGH OPENING. WHEN USED IN FLOORS, A MINIMUM 1-1/2" THICKNESS OF FIBER IS REQUIRED WITH ITS TOP SURFACE RECESSED MINIMUM 1-1/2" BELOW TOP SURFACE OF FLOOR. WHEN USED IN WALLS, ENTIRE ANNULAR SPACE TO BE FILLED WITH TIGHTLY-PACKED FIBER EXCEPT FOR A MINIMUM 1/2" DEPTH AT EACH SURFACE OF THE WALL.
4. FILL, VOID OR CAVITY MATERIALS - PUTTY: PUTTY MATERIAL THAT IS KNEADED AND PACKED TIGHTLY INTO ANNULAR SPACE. IN FLOORS, A MINIMUM 1" THICKNESS OF FILL MATERIAL SHALL BE INSTALLED SUCH THAT ITS TOP SURFACE IS RECESSED 1" BELOW TOP SURFACE OF FLOOR. WHEN OPTIONAL PACKING MATERIAL (ITEM 3) IS USED IN FLOORS, A MINIMUM 1" THICKNESS OF FILL MATERIAL SHALL BE INSTALLED SUCH THAT ITS' TOP SURFACE IS RECESSED 1/2" BELOW TOP SURFACE OF FLOORS. IN WALLS, A MINIMUM 1" THICKNESS OF FILL MATERIAL SHALL BE INSTALLED SUCH THAT ITS' SURFACES ARE RECESSED MINIMUM 1" FROM BOTH SURFACES OF WALL. WHEN OPTIONAL PACKING MATERIAL IS USED IN WALLS, A MINIMUM 1/2" THICKNESS OF ILL MATERIAL IS REQUIRED ON EACH SIDE OF WALL WITH THE SURFACE OF THE FILL MATERIAL FLUSH WITH EACH SURFACE OF THE WALL.
5. FIRE BARRIER CAULK "3M" CP 25WB OR EQUIVALENT SHALL BE USED. THE FIRE RATING OF THE CAULK IS BASED ON THE WET INSTALLED DEPTH. PENETRATION FIRE STOP SHALL COMPLY WITH UL THROUGH-PENETRATION FIRESTOP SYSTEM NO. 319 PER ASTME E 814 (ANSI/UL 1479) FIRE TEST.

5 E0.32 PENETRATION FIRE-STOP FOR STEEL CONDUIT THRU CONCRETE FLOOR

NOT TO SCALE

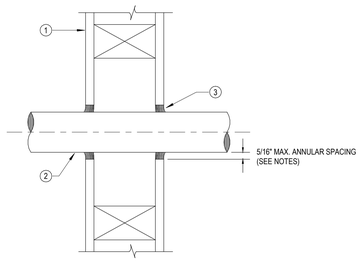


NOTES:

1. LIGHTING FIXTURE, JUNCTION BOX, STEEL STRUT AND ALL APPURTENANCES SHALL BE MOUNTED TO MECHANICAL EQUIPMENT IN A MANNER NOT TO INTERFERE WITH ANY ACCESS PANELS USED FOR SERVICING SAID MECHANICAL EQUIPMENT AND SHALL BE LOCATED SO THAT LIGHTING IS PROVIDED AT A SERVICEABLE LOCATION TO THE EQUIPMENT.
2. LIGHT FIXTURE SHALL BE MOUNTED SUCH THAT THE BOTTOM OF THE FIXTURE IS NO LESS THAN 6 FEET ABOVE THE ROOF, NOT GREATER THAN 8 FEET MAXIMUM ABOVE THE ROOF, AND THE TOP OF THE FIXTURE IS BELOW EQUIPMENT SCREENING.
3. ALL STEEL PARTS TO BE DOUBLE COATED WITH GRAY OIL BASE PAINT AFTER INSTALLATION IS COMPLETE.

9 E0.32 ELECTRICAL DETAIL - ROOFTOP EQUIPMENT LIGHT AND RECEPTACLE

NOT TO SCALE

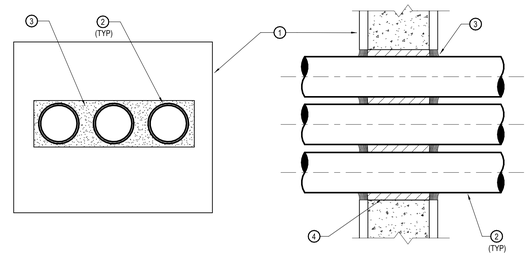


NOTES:

1. WALL ASSEMBLY: THE 1, 2, 3 OR 4 HOUR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY.
2. PIPE OR CONDUIT: NOMINAL 12" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOMINAL 6" DIAMETER (OR SMALLER) STEEL CONDUIT, NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR TYPE L OR (OR HEAVIER) COPPER TUBING OR NOMINAL 1" DIAMETER (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAXIMUM F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 HOUR. STEEL PIPES OR CONDUITS LARGER THAN NOMINAL 4" DIAMETER MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAXIMUM OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRE STOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. FILL, VOID OR CAVITY MATERIAL - CAULK: CAULK/FILL MATERIAL SHALL BE INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MINIMUM 1/4" DIAMETER BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AS ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. PENETRATION FIRE STOP SHALL COMPLY WITH UL THROUGH-PENETRATION FIRE STOP SYSTEM NO. 147, CONFIGURATION A, PER ASTME E 814 (ANSI/UL 1479) FIRE TEST.

7 E0.32 PENETRATION FIRE-STOP FOR STEEL CONDUIT THRU GYPSUM WALLBOARD ASSEMBLY

NOT TO SCALE



NOTES:

1. CONCRETE OR CONCRETE BLOCK WALL.
2. CONDUIT AS REQUIRED, MAXIMUM 4" TRADE SIZE.
3. "STI" SPEC SEAL SERIES 100 SEALANT INSTALLED TO A 1 1/4" DEPTH WITH A 1/4" CROWN AROUND PERIMETER OF OPENING OR EQUIVALENT AS MANUFACTURED BY 3M. SHALL COMPLY WITH UL1479
4. MINERAL WOOL BATT. NOMINAL 6PCF, TO FULL THICKNESS RECESSED FROM BOTH SIDES TO ACCOMMODATE FILL MATERIAL.

4 E0.32 PENETRATION FIRE-STOP FOR MULTIPLE STEEL CONDUITS THRU CONCRETE OR BLOCK WALL

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/01/2022
	ADDENDUM #1: BUCKET PANCING SET	12/20/2022

Project Status

ELECTRICAL DETAILS

Granite Run Apartments

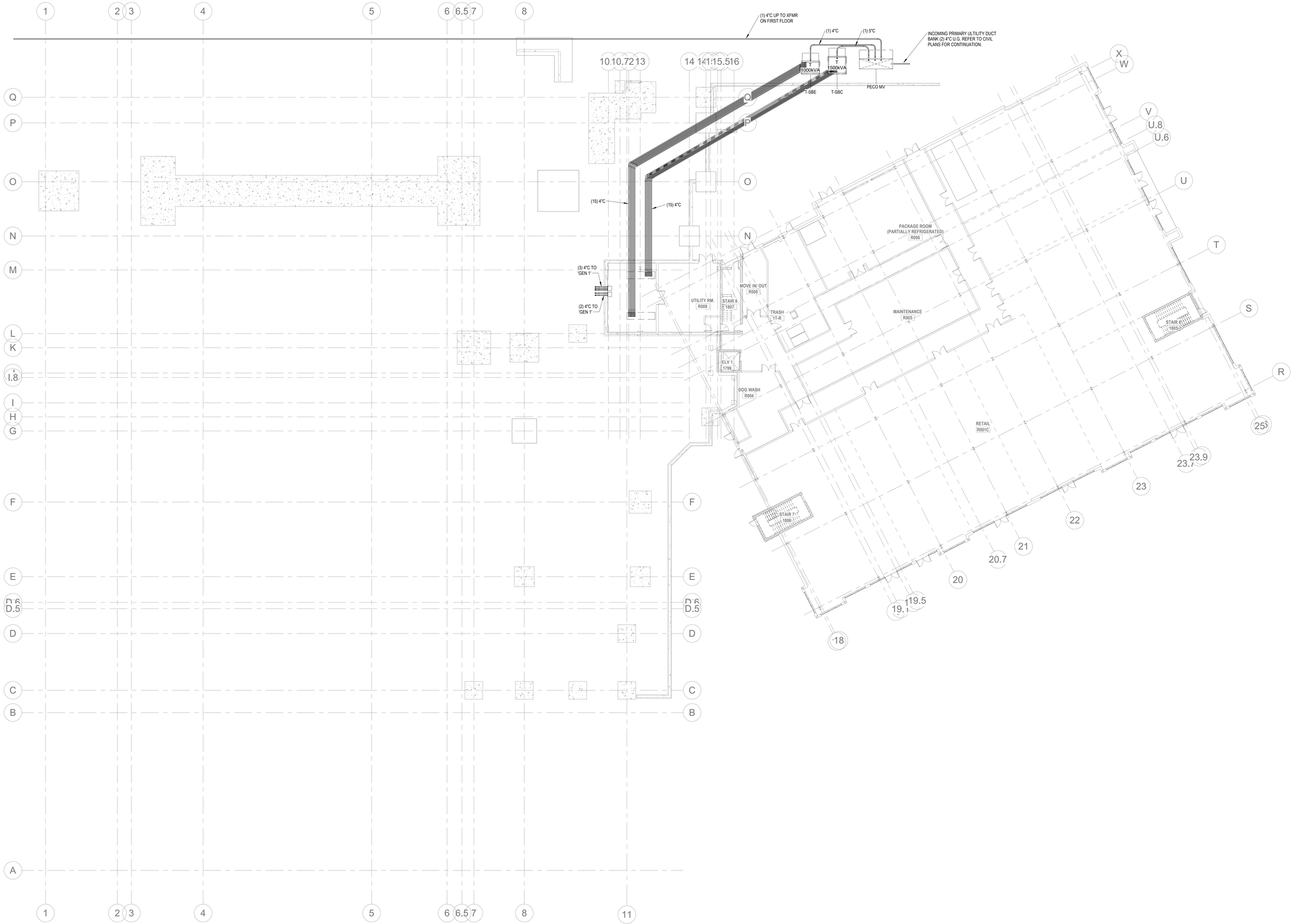
MIDDLETOWN TOWNSHIP, PA

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1 E2.01 **ELECTRICAL - RETAIL LEVEL POWER PLAN**
1/16" = 1'-0"

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NO.	REVISION	DATE
A	PERMIT SET	12/07/2022
1	PERMIT SET	12/23/2022

Project Status

ELECTRICAL - RETAIL LEVEL POWER PLAN

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.01

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ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE 2#10+1#10G.
4. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
5. PROVIDE & INSTALL GROUNDING & BONDING OF ALL LOW VOLTAGE SYSTEM RACK, CABINETS, CABLE TRAYS, LADDER RACKS, AND BUS BARS.
6. PROVIDE & INSTALL ALL CHIEF BOXES AS INDICATED/REQUIRED BY THE AV DESIGN.
7. ALL PANTRY, KITCHEN AND RESTROOM RECEPTACLES WITH 6 FEET OF A SINK SHALL BE GFCI PROTECTED. THE RECEPTACLES THAT ARE NOT READILY ACCESSIBLE SHALL BE PROTECTED BY GFCI BREAKERS.
8. REFER TO MECHANICAL & PLUMBING EQUIPMENT SCHEDULES FOR THE ASSOCIATED ELECTRICAL REQUIREMENTS.
9. PROVIDE A DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT THAT IS NOT FURNISHED WITH A DISCONNECTING MEANS.
10. PROVIDE & INSTALL A SIMPLEX RECEPTACLE AT EACH 208V HOT WATER HEATER FOR ASSOCIATED LEAK DETECTION EQUIPMENT.

GARAGE
A
B2
B1
C
D
(15)4"C
1 E4.01 Sim
(3) 4"C TO 'GEN 1'
(2) 4"C TO 'GEN 1'
(12)4"C
SWC
SWE
OSDP; 11
FOP 1
OSDP; 12
EF 5
UTILITY RM. R009
ELECTRICAL R009B
SWC; 7
DWP 1
RPB1; 17,19
UH A
LSDP; 18
FPC 1
JPC 1
LSDP; 20
LSDP; 17,19,21
JP 1
FP 1
LSDP; 22
EF 3
OSDP; 12
RPB1; 20,22
CUH A
STAIR 8 1807
MOVE IN/ OUT R008
RPB1; 25
WP
RPB1; 30
RPB1; 7,9
CUH A
WALK-IN REFRIGERATOR OUTDOOR UNIT; COORDINATE REQUIREMENT WITH OWNER.
OSDP; 13
OSDP; 8,10
UH A
RPB1; 6,8
RPB1; 31
OSDP; 7,9
RPB1; 25
WALK-IN REFRIGERATOR INDOOR UNIT; COORDINATE REQUIREMENT WITH OWNER
RPB1; 14,16
FCU 3-4
PACKAGE ROOM (PARTIALLY REFRIGERATED) R006
PROVIDE (8) J-BOX AND C/T WITH METER FOR EACH RETAIL SPACES.
PROVIDE AND RUN (1) 2-1/2" EMPTY CONDUIT WITH PULL STRING FROM J-BOX TO EACH RETAIL SPACE.
RPB2; 39
WP
RPB1; 3,5
CUH A
RPB2; 25,27
UH A
RETAIL R001H
RPB2; 39
DRY VALVE AIR COMPRESSOR
RPB1; 29
RPB1; 14,16
FCU 3-3
RPB1; 25
TRASH 1T-R
OSDP; 13
RPB1; 24
RPB1; 26
RPB2; 22,24
UH B
RPB2; 21,23
UH A
TRASH COMPACTOR
RPB1; 11,13,15
LSDP; 15
ELV 1 1799
WP
RPB1; 18
SUMP PUMP
SP 1
RPB1; 24
RPB1; 1
CORR. R003
RETAIL R001G
RPB1; 14,16
BS 3-1
RPB1; 24
RPB1; 26
RPB2
MAINTENANCE R005
RPB2; 39
RPB1; 26
RPB2; 18,20
UH A
INCOMING WATER R010
DOG WASH R004
FCU 3-1
RPB1; 14,16
RPB1; 14,16
FCU 3-2
RPB1; 10,12
CUH A
RPB1; 1
WP
RPB1; 1
RPB1; 1
RPB2; 39
RPB1; 26
RPB2; 39
CORR. R002
RETAIL R001F
RPB2; 1,3
UH A
RPB1; 1
WP
RPB1; 2,4
CUH A
STAIR 7 1805
UH A
RPB2; 2,4
RETAIL R001A
RETAIL R001B
RETAIL R001C
RETAIL R001D
RETAIL R001E
RPB2; 17,19
UH B
RPB2; 35,37
CUH A
WP
RPB2; 39
STAIR 6 1805
UH C
RPB2; 14,16
RPB2; 5,7
UH C
RPB2; 6,8
UH A
RPB2; 9,11
UH A
RPB2; 10,12
UH A
RPB2; 13,15
UH C
X
W
V
U.8
U.6
U
T
S
R
118
119.1
119.5
20
20.7
21
22
23
23.7
23.94
25.6

1 E2.01A **ELECTRICAL - RETAIL LEVEL ENLARGED POWER PLAN A**
1/8" = 1'-0"

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET PERMIT SET	11/20/2022 12/9/2022

Project Status

ELECTRICAL - RETAIL LEVEL POWER PLAN A

Granite Run Apartments

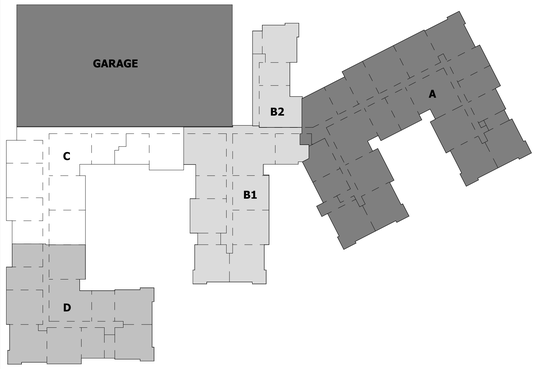
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.01A

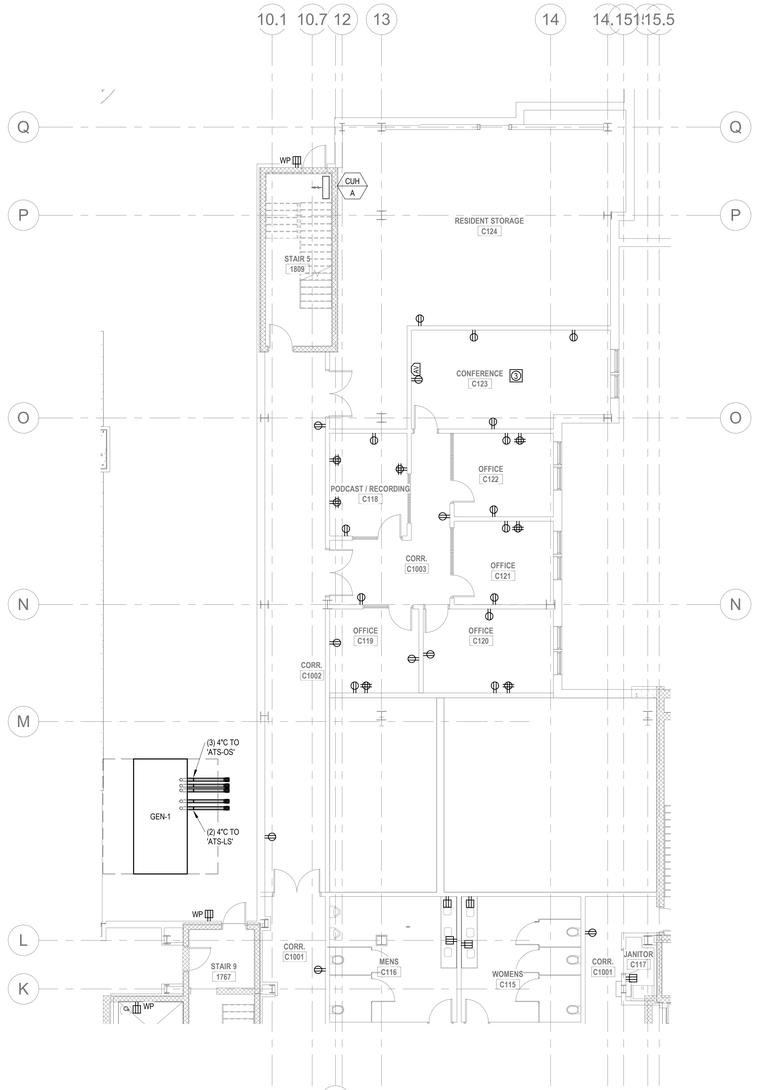
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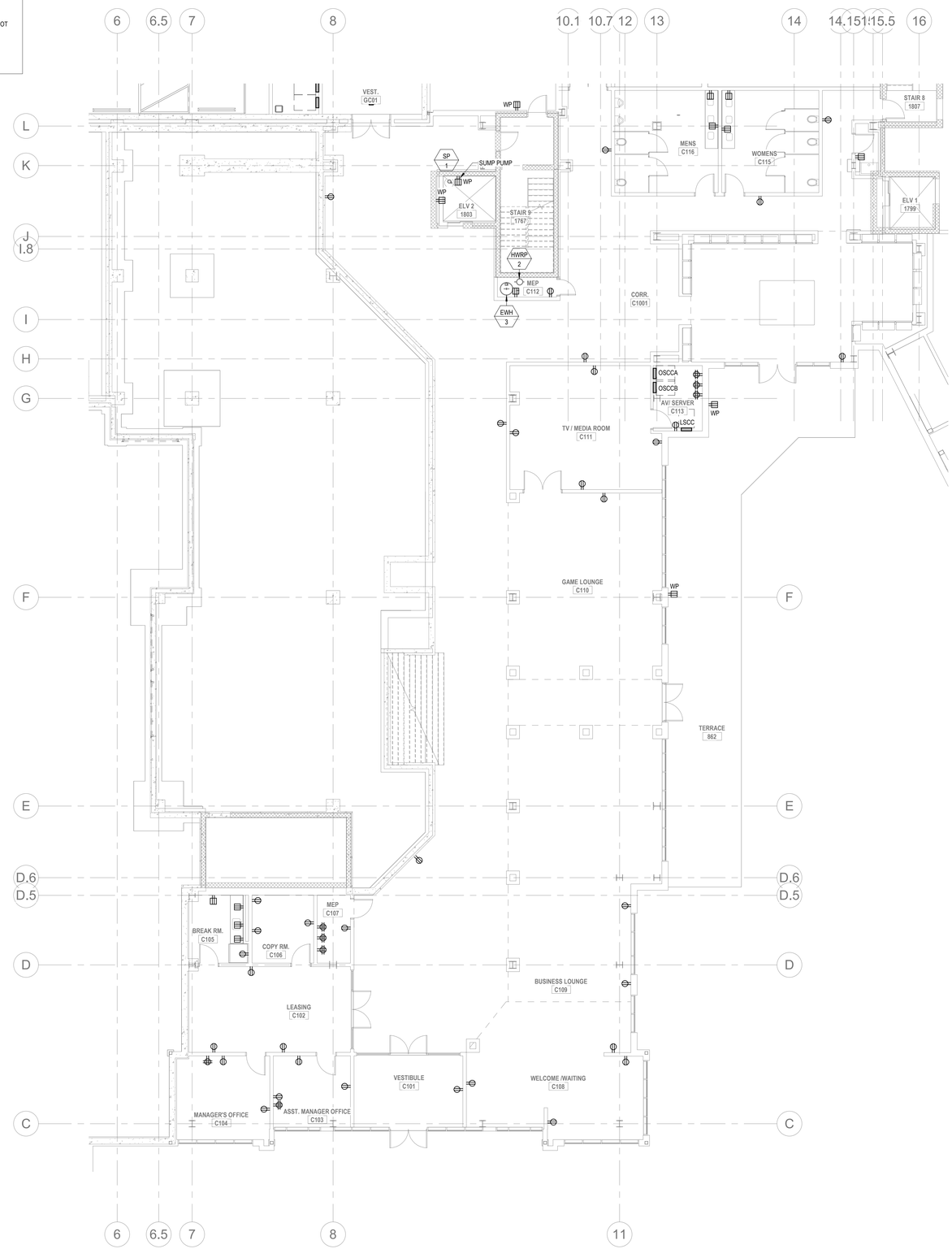


ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE 2#10+1#10G.
4. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
5. PROVIDE & INSTALL GROUNDING & BONDING OF ALL LOW VOLTAGE SYSTEM RACK, CABINETS, CABLE TRAYS, LADDER RACKS, AND BUS BARS.
6. PROVIDE & INSTALL ALL CHIEF BOXES AS INDICATED/REQUIRED BY THE AV DESIGN.
7. ALL PANTRY, KITCHEN AND RESTROOM RECEPTACLES WITH 6 FEET OF A SINK SHALL BE GFCI PROTECTED. THE RECEPTACLES THAT ARE NOT READILY ACCESSIBLE SHALL BE PROTECTED BY GFCI BREAKERS.
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9. PROVIDE A DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT THAT IS NOT FURNISHED WITH A DISCONNECTING MEANS.
10. PROVIDE & INSTALL A SIMPLEX RECEPTACLE AT EACH 208V HOT WATER HEATER FOR ASSOCIATED LEAK DETECTION EQUIPMENT.
11. CLUB LEVEL 1 AND CLUB LEVEL 2 SHALL BE DESIGN AS PART OF A FUTURE PERMIT ISSUANCE.



3 E2.02B — ELECTRICAL - CLUB LEVEL 1 ENLARGED POWER PLAN B2
1/8" = 1'-0"



4 E2.02B — ELECTRICAL - CLUB LEVEL 1 ENLARGED POWER PLAN B1
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	12/01/2022
	PERMIT SET	12/23/2022

Project Status

ELECTRICAL - CLUB LEVEL 1 POWER PLANS B

Granite Run Apartments

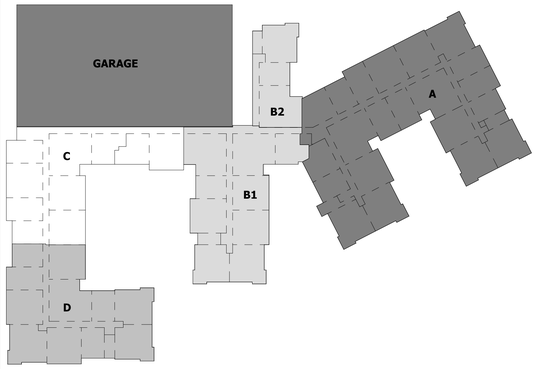
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.02B

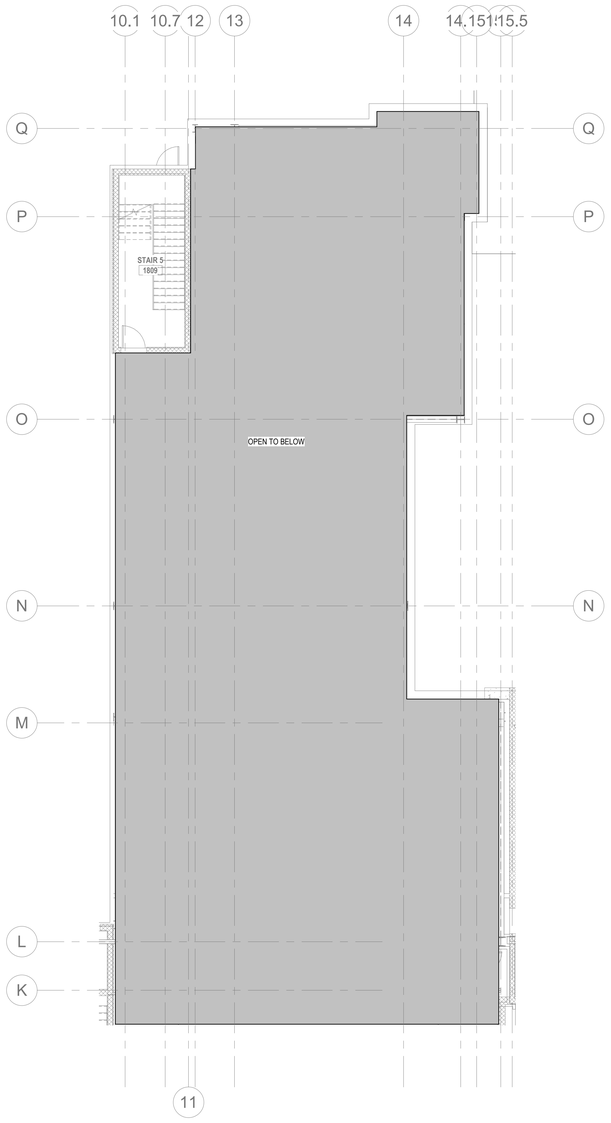
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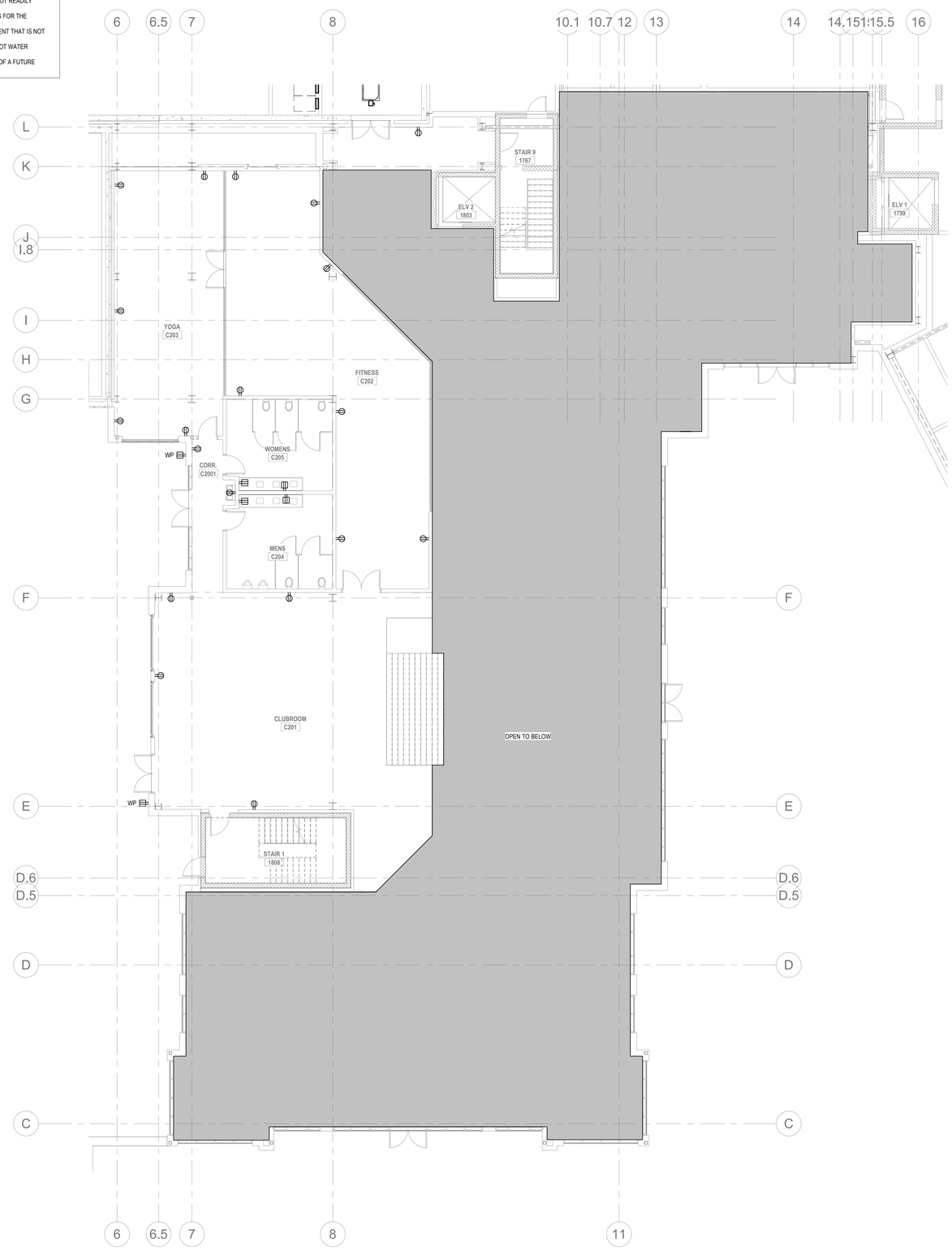


ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE 2#10+1#10G.
4. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
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10. PROVIDE & INSTALL A SIMPLEX RECEPTACLE AT EACH 208V HOT WATER HEATER FOR ASSOCIATED LEAK DETECTION EQUIPMENT.
11. CLUB LEVEL 1 AND CLUB LEVEL 2 SHALL BE DESIGN AS PART OF A FUTURE PERMIT ISSUANCE.



3 E2.03B — ELECTRICAL - CLUB LEVEL 2 ENLARGED POWER PLAN B2
1/8" = 1'-0"



4 E2.03B — ELECTRICAL - CLUB LEVEL 2 ENLARGED POWER PLAN B1
1/8" = 1'-0"

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NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/30/2022

Project Status

ELECTRICAL - CLUB LEVEL 2 POWER PLANS B

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.03B

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL - FIRST FLOOR POWER PLAN

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

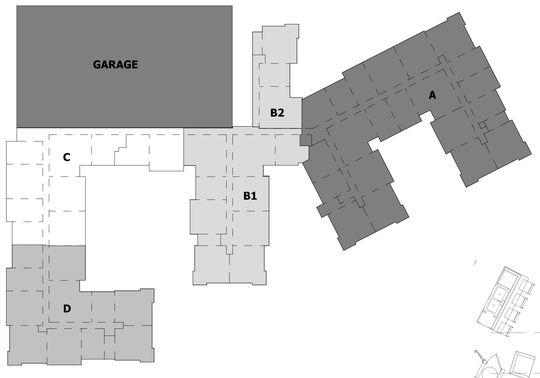
E2.04

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PARKING GARAGE DESIGN IS UNDER A DIFFERENT PERMIT SUBMISSION

2 E2.04 **ELECTRICAL - FIRST FLOOR POWER PLAN**
1/16" = 1'-0"

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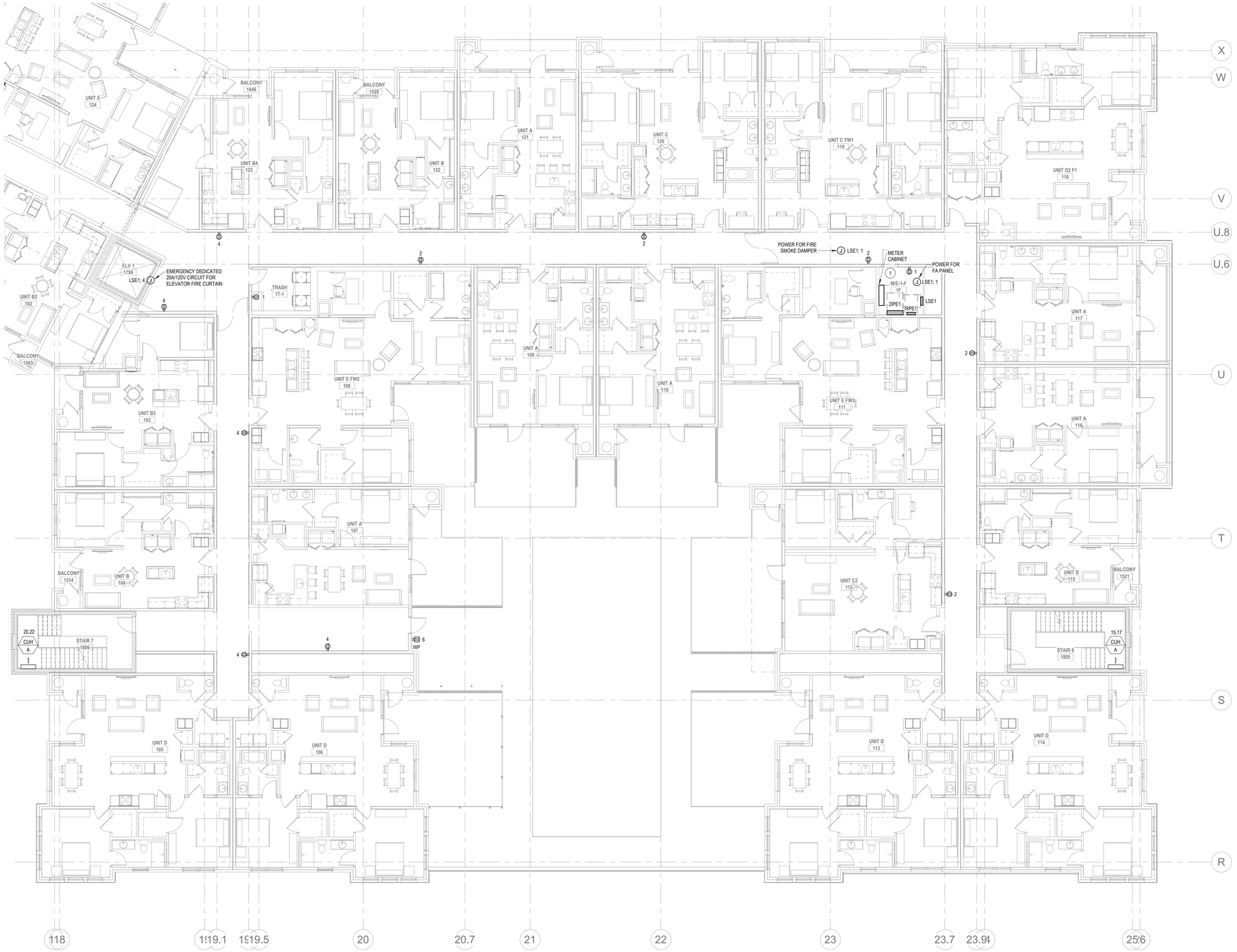


ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE #10+1#10G.
4. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
5. PROVIDE & INSTALL GROUNDING & BONDING OF ALL LOW VOLTAGE SYSTEM RACK, CABINETS, CABLE TRAYS, LADDER RACKS, AND BUS BARS.
6. PROVIDE & INSTALL ALL CHIEF BOXES AS INDICATED/REQUIRED BY THE AV DESIGN.
7. ALL PANTRY, KITCHEN AND RESTROOM RECEPTACLES WITH 6 FEET OF A SINK SHALL BE GFCI PROTECTED. THE RECEPTACLES THAT ARE NOT READILY ACCESSIBLE SHALL BE PROTECTED BY GFCI BREAKERS.
8. ELECTRICAL CONTRACTOR SHALL REVIEW THE TELECOM DRAWINGS FOR REQUIRED CONDUITS AND PATHWAYS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE TELECOM CONTRACTOR AND SHALL ROVIDE AND INSTALL CONDUITS, RACEWAYS, JUNCTION BOXES AND UTILITY BOXES AS REQUIRED.
9. THOROUGHLY REVIEW ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS TO ENSURE UNDERSTANDING OF THE FULL SCOPE OF WORK. REVIEW MECHANICAL, PLUMBING AND FIRE PROTECTION SCHEDULES TO ENSURE THAT CIRCUITING FOR ALL EQUIPMENT IS CAPTURED. REVIEW TELECOM AND SECURITY DRAWINGS FOR POWER DROP LOCATIONS AND TO COORDINATE RACEWAYS AND BOXES THAT NEED TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
   A. ELECTRICAL CONTRACTOR TO PROVIDE FUSED DISCONNECT SWITCHES FOR ANY MECHANICAL AND PLUMBING EQUIPMENT WHERE IT IS NOT BEING PROVIDED BY THE MECHANICAL OR PLUMBING CONTRACTOR.
   B. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS/WIRING/RACEWAY TO MEET THE MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND SECURITY DRAWING SCHEDULE REQUIREMENTS.
10. UNLESS OTHERWISE NOTED, ALL DEVICES CIRCUITED TO PANEL RPE1.
11. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE ELECTRICAL CONNECTION AND WIRE AS REQUIRED.

ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.



1 E2.04A **ELECTRICAL - FIRST FLOOR ENLARGED POWER PLAN A**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	11/01/2022
	SEPARATE BUDGET PRICING SET	12/20/2022

Project Status

ELECTRICAL - FIRST FLOOR ENLARGED POWER PLAN A

Granite Run Apartments

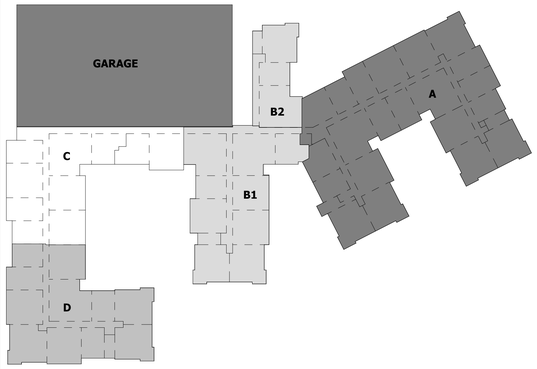
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.04A

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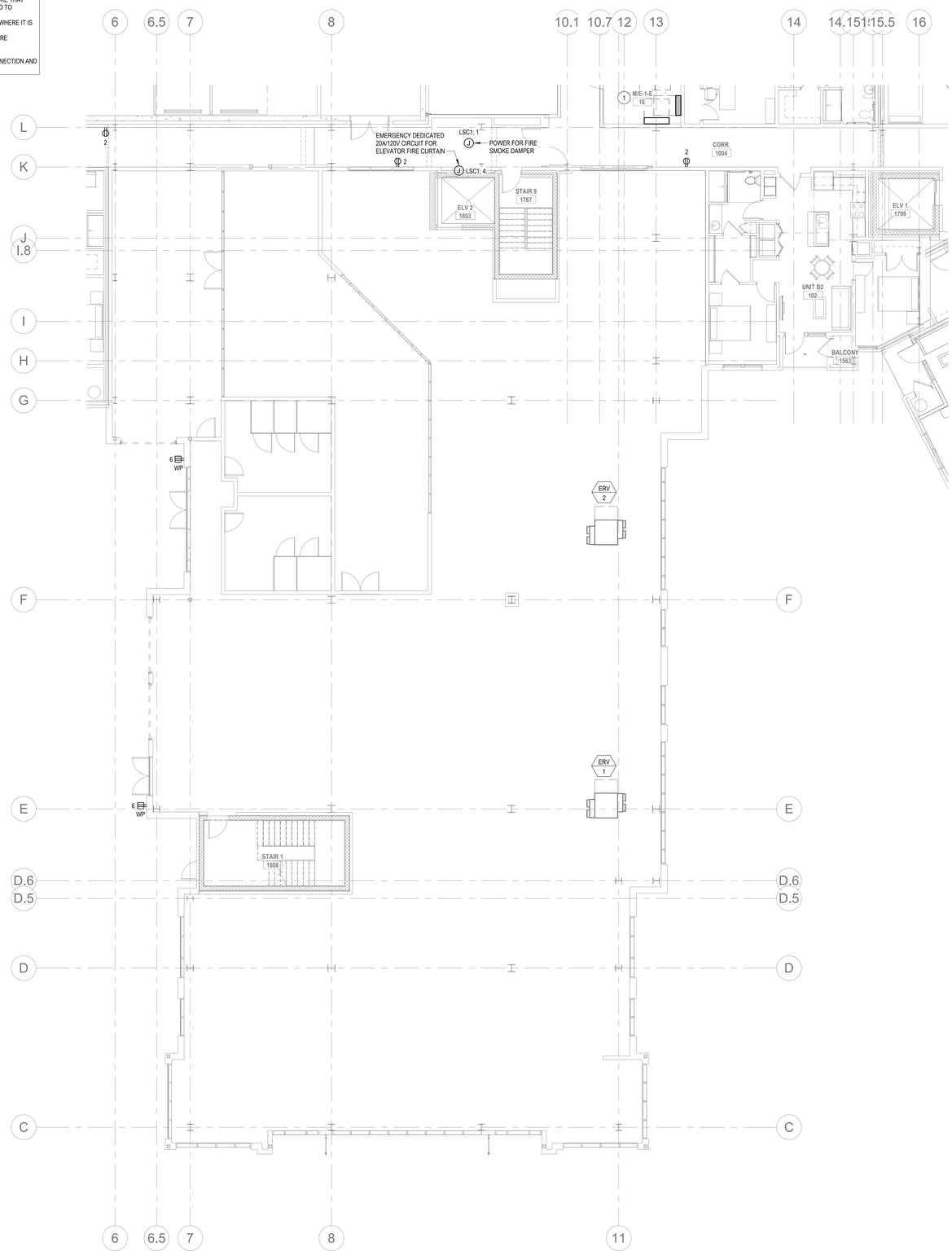
ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE 2#10+1#10G.
4. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
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   B. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS/WIRING/RACEWAY TO MEET THE MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND SECURITY DRAWING SCHEDULE REQUIREMENTS.
10. UNLESS OTHERWISE NOTED, ALL DEVICES CIRCUITED TO PANEL RPC1.
11. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE ELECTRICAL CONNECTION AND WIRE AS REQUIRED.

ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.

3 E2.04B **ELECTRICAL - FIRST FLOOR ENLARGED POWER PLAN B2**
1/8" = 1'-0"



4 E2.04B **ELECTRICAL - FIRST FLOOR ENLARGED POWER PLAN B1**
1/8" = 1'-0"

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P.M.:	TRT
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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/30/2022

Project Status

ELECTRICAL - FIRST FLOOR ENLARGED POWER PLANS B

Granite Run Apartments

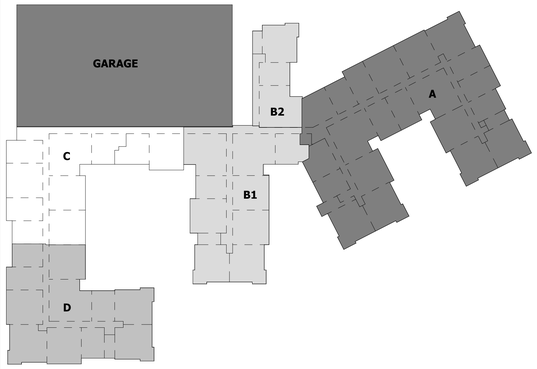
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.04B

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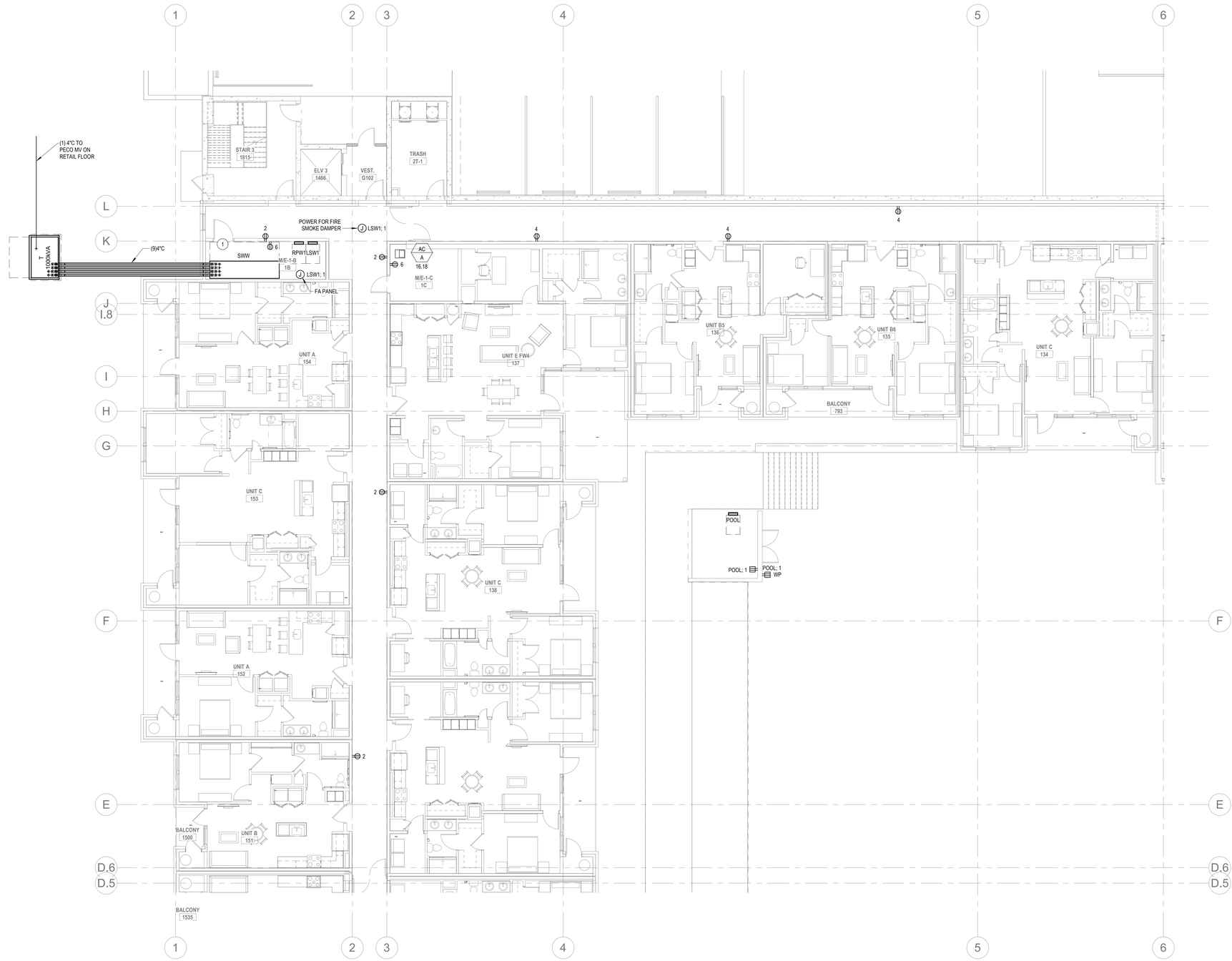


ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE #10+1#10G.
4. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
5. PROVIDE & INSTALL GROUNDING & BONDING OF ALL LOW VOLTAGE SYSTEM RACK, CABINETS, CABLE TRAYS, LADDER RACKS, AND BUS BARS.
6. PROVIDE & INSTALL ALL CHIEF BOXES AS INDICATED/REQUIRED BY THE AV DESIGN.
7. ALL PANTRY, KITCHEN AND RESTROOM RECEPTACLES WITH 6 FEET OF A SINK SHALL BE GFCI PROTECTED. THE RECEPTACLES THAT ARE NOT READILY ACCESSIBLE SHALL BE PROTECTED BY GFCI BREAKERS.
8. ELECTRICAL CONTRACTOR SHALL REVIEW THE TELECOM DRAWINGS FOR REQUIRED CONDUITS AND PATHWAYS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE TELECOM CONTRACTOR AND SHALL ROVIDE AND INSTALL CONDUITS, RACEWAYS, JUNCTION BOXES AND UTILITY BOXES AS REQUIRED.
9. THOROUGHLY REVIEW ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS TO ENSURE UNDERSTANDING OF THE FULL SCOPE OF WORK. REVIEW MECHANICAL, PLUMBING AND FIRE PROTECTION SCHEDULES TO ENSURE THAT CIRCUITING FOR ALL EQUIPMENT IS CAPTURED. REVIEW TELECOM AND SECURITY DRAWINGS FOR POWER DROP LOCATIONS AND TO COORDINATE RACEWAYS AND BOXES THAT NEED TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
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   B. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS/WIRING/RACEWAY TO MEET THE MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND SECURITY DRAWING SCHEDULE REQUIREMENTS.
10. UNLESS OTHERWISE NOTED, ALL DEVICES CIRCUITED TO PANEL RPW1.
11. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE ELECTRICAL CONNECTION AND WIRE AS REQUIRED.

ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.



2 E2.04C ELECTRICAL - FIRST FLOOR ENLARGED POWER PLAN C

1/8" = 1'-0"

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JAMES T. GRIFFIN ARCHITECT

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ARCHITECTS AND LAND PLANNERS
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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/20/2022
	CHOPA TFC BUDGET PRICING SET	11/07/2022

Project Status

ELECTRICAL - FIRST FLOOR ENLARGED POWER PLAN C

Granite Run Apartments

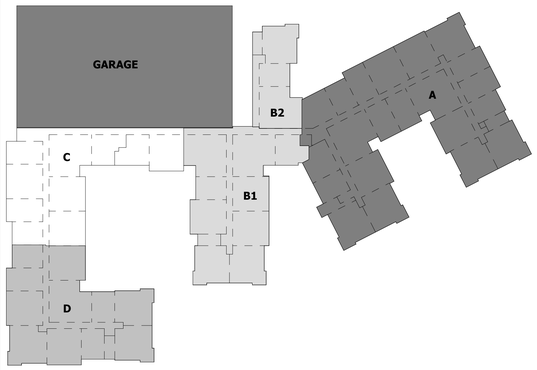
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE 2#10+1#10G.
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ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.



2 E2.04D **ELECTRICAL - FIRST FLOOR ENLARGED POWER PLAN D**
1/8" = 1'-0"

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P.M.:	TRT
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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/2/2022
	SD/DA/TPC BUDGET PRICING SET	11/01/2022

Project Status

ELECTRICAL - FIRST FLOOR ENLARGED POWER PLAN D

Granite Run Apartments

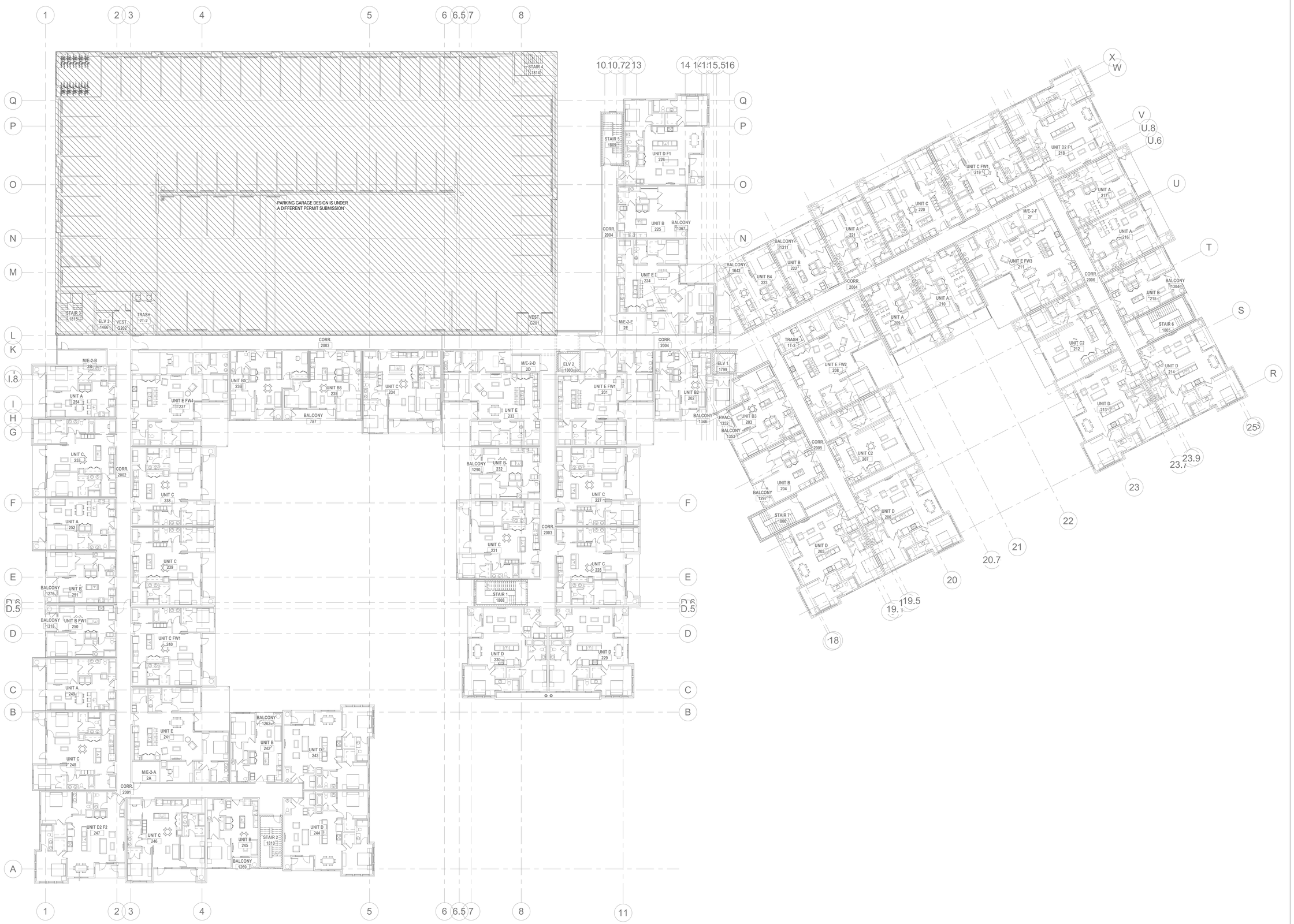
MIDDLETOWN TOWNSHIP, PA

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DATE:	11/01/22

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1 E2.05 **ELECTRICAL - SECOND FLOOR POWER PLAN**
1/16" = 1'-0"

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P.A.:	JTG
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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/20/2022
	SCHEMATIC BUDGET PRICING SET	11/01/2022

Project Status

ELECTRICAL - SECOND FLOOR POWER PLAN

Granite Run Apartments

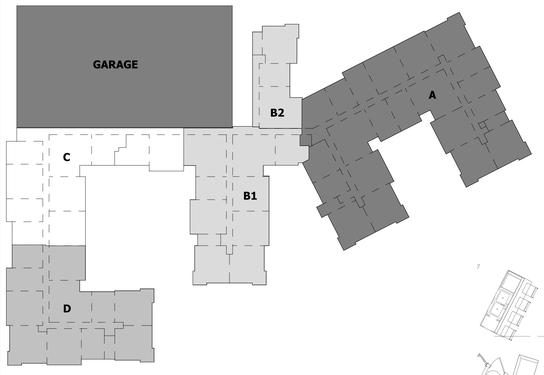
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.05

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ELECTRICAL GENERAL NOTES

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ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.



2 E2.05A **ELECTRICAL - SECOND FLOOR ENLARGED POWER PLAN A**
1/8" = 1'-0"

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/30/2022

Project Status

ELECTRICAL - SECOND FLOOR ENLARGED POWER PLAN A

Granite Run Apartments

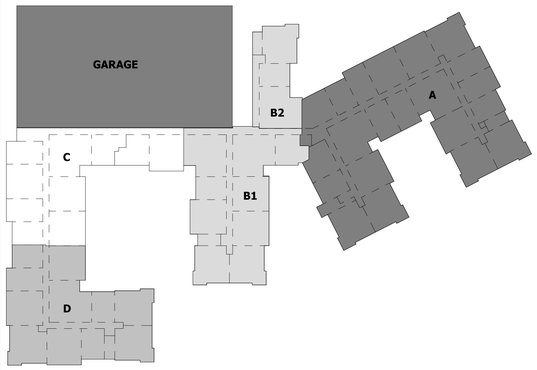
MIDDLETOWN TOWNSHIP, PA

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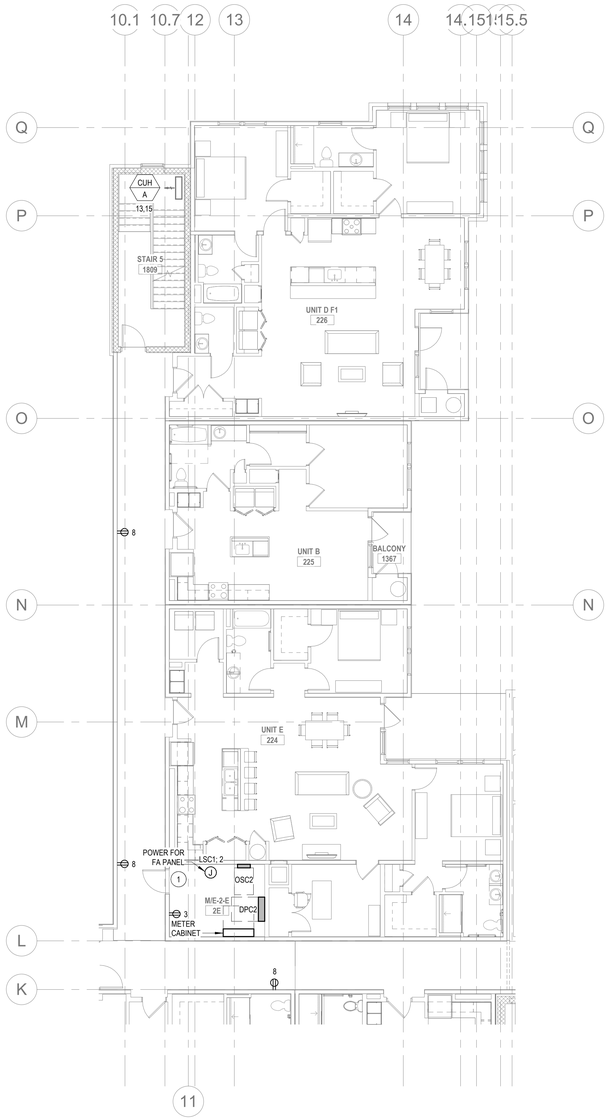


ELECTRICAL GENERAL NOTES

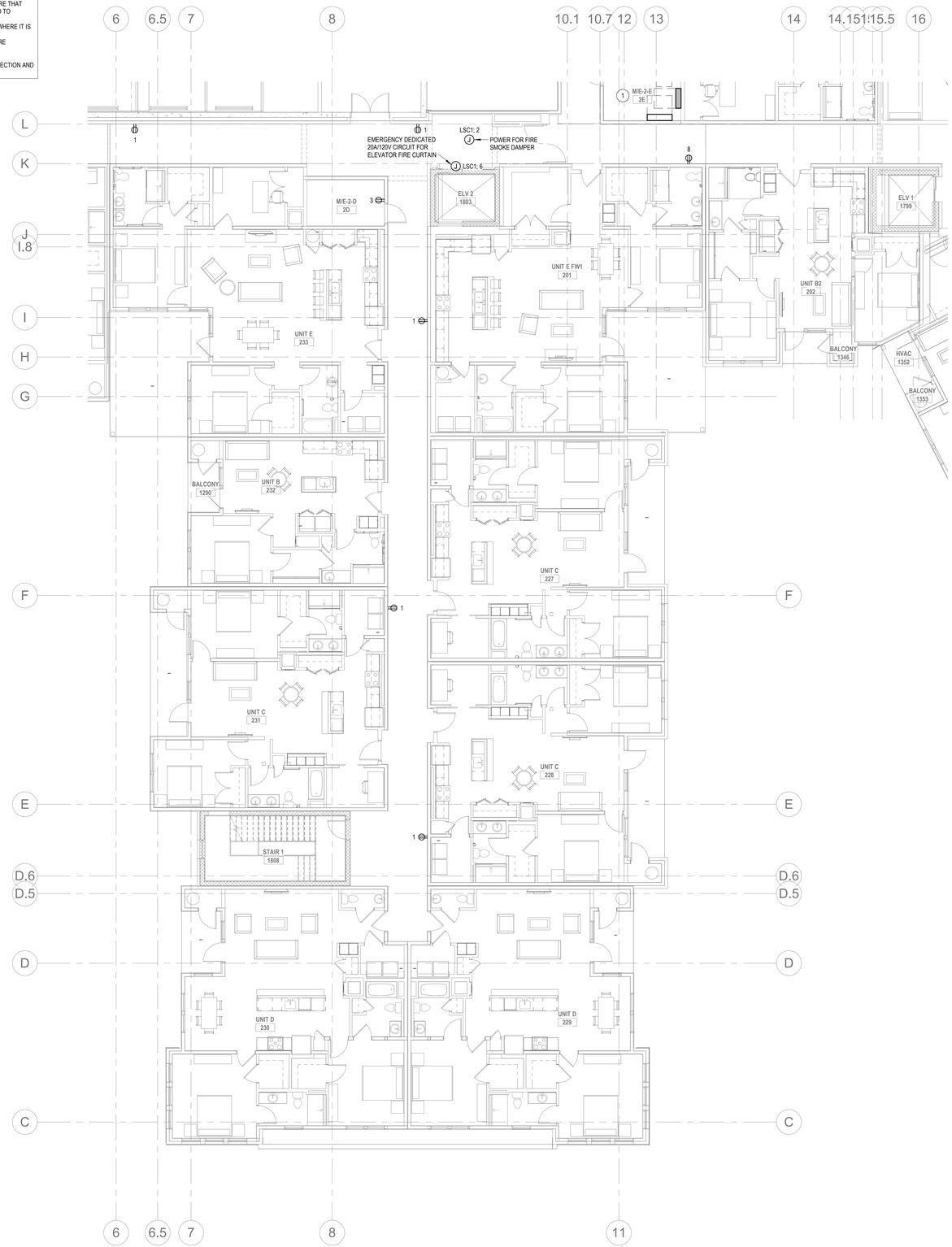
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ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.



4 E2.05B — **ELECTRICAL - SECOND FLOOR ENLARGED POWER PLAN B2**
1/8" = 1'-0"



3 E2.05B — **ELECTRICAL - SECOND FLOOR ENLARGED POWER PLAN B1**
1/8" = 1'-0"

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P.A.:	JTG
P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET SCHEMATIC BUDGET PRICING SET	11/01/2022 12/20/2022

Project Status

ELECTRICAL - SECOND FLOOR ENLARGED POWER PLANS B

Granite Run Apartments

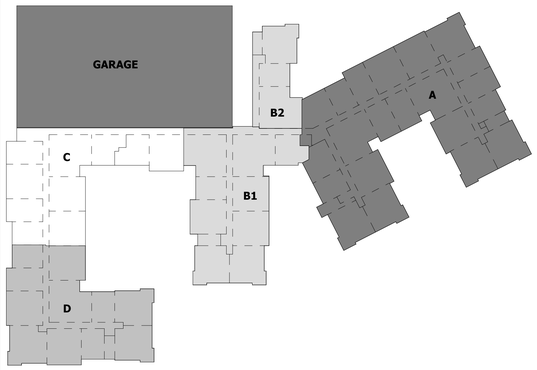
MIDDLETOWN TOWNSHIP, PA

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DATE:	11/01/22

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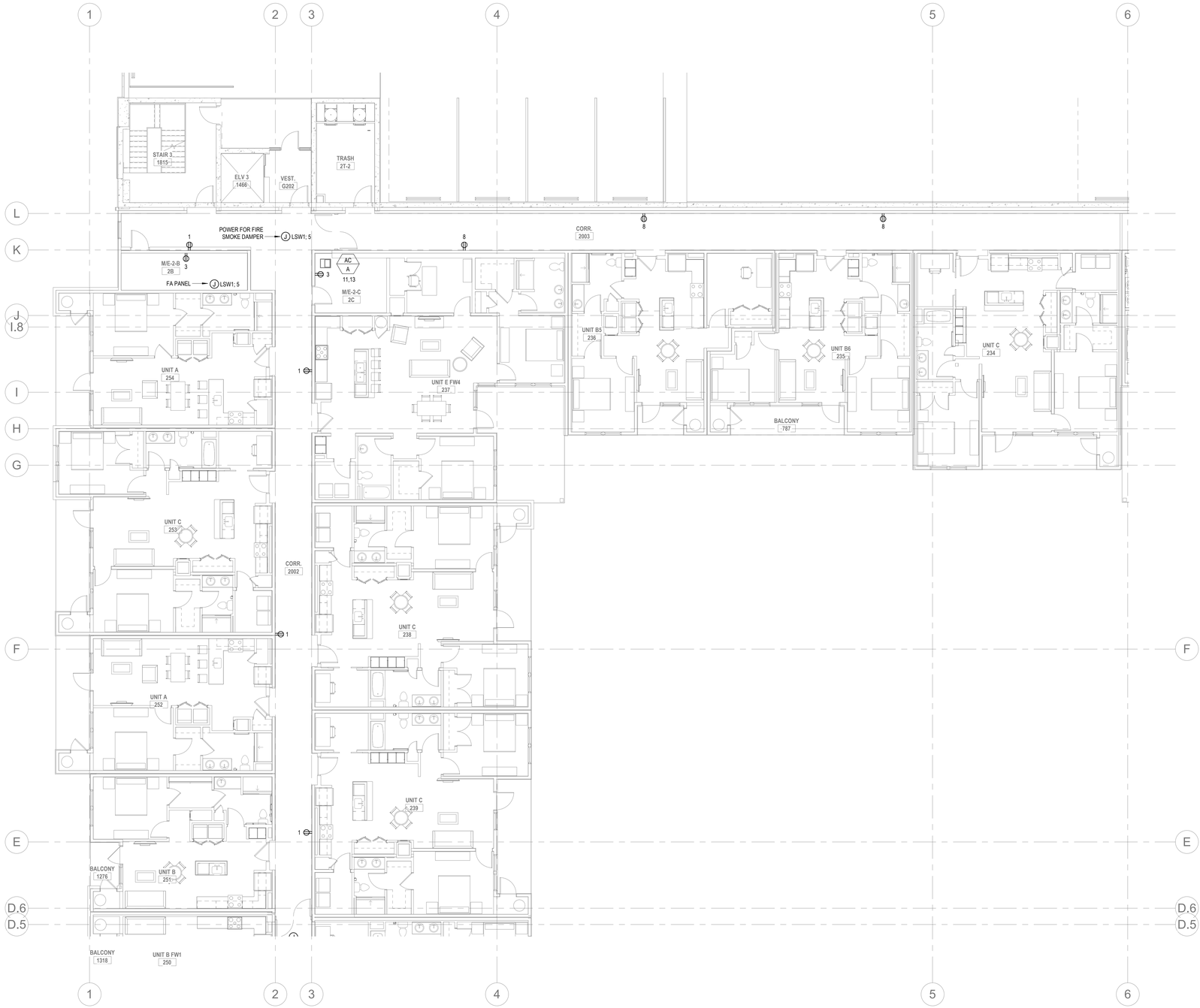


ELECTRICAL GENERAL NOTES

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ELECTRICAL - SECOND FLOOR ENLARGED POWER PLAN C

2 / E2.05C — 1/8" = 1'-0"

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/30/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL - SECOND FLOOR ENLARGED POWER PLAN C

Granite Run Apartments

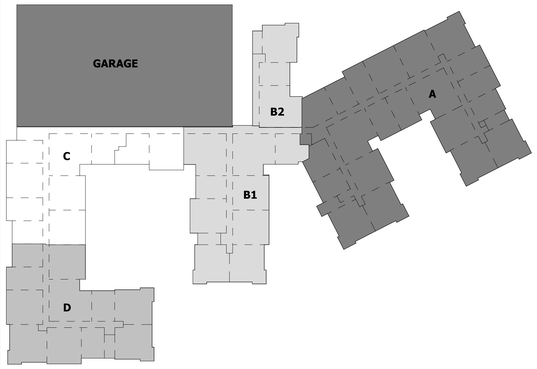
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.05C

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ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE 2#10+1#10G.
4. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
5. PROVIDE & INSTALL GROUNDING & BONDING OF ALL LOW VOLTAGE SYSTEM RACK, CABINETS, CABLE TRAYS, LADDER RACKS, AND BUS BARS.
6. PROVIDE & INSTALL ALL CHIEF BOXES AS INDICATED/REQUIRED BY THE AV DESIGN.
7. ALL PANTRY, KITCHEN AND RESTROOM RECEPTACLES WITH 6 FEET OF A SINK SHALL BE GFCI PROTECTED. THE RECEPTACLES THAT ARE NOT READILY ACCESSIBLE SHALL BE PROTECTED BY GFCI BREAKERS.
8. ELECTRICAL CONTRACTOR SHALL REVIEW THE TELECOM DRAWINGS FOR REQUIRED CONDUITS AND PATHWAYS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE TELECOM CONTRACTOR AND SHALL ROVIDE AND INSTALL CONDUITS, RACEWAYS, JUNCTION BOXES AND UTILITY BOXES AS REQUIRED.
9. THOROUGHLY REVIEW ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS TO ENSURE UNDERSTANDING OF THE FULL SCOPE OF WORK. REVIEW MECHANICAL, PLUMBING AND FIRE PROTECTION SCHEDULES TO ENSURE THAT CIRCUITING FOR ALL EQUIPMENT IS CAPTURED. REVIEW TELECOM AND SECURITY DRAWINGS FOR POWER DROP LOCATIONS AND TO COORDINATE RACEWAYS AND BOXES THAT NEED TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
   A. ELECTRICAL CONTRACTOR TO PROVIDE FUSED DISCONNECT SWITCHES FOR ANY MECHANICAL AND PLUMBING EQUIPMENT WHERE IT IS NOT BEING PROVIDED BY THE MECHANICAL OR PLUMBING CONTRACTOR.
   B. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS/WIRING/RACEWAY TO MEET THE MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND SECURITY DRAWING SCHEDULE REQUIREMENTS.
10. UNLESS OTHERWISE NOTED, ALL DEVICES CIRCUITED TO PANEL RPW1.
11. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE ELECTRICAL CONNECTION AND WIRE AS REQUIRED.

ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.



2 E2.05D **ELECTRICAL - SECOND FLOOR ENLARGED POWER PLAN D**
1/8" = 1'-0"

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P.A.:	JTG
P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	11/01/2022
	SCHEMATIC BUDGET PRICING SET	12/23/2022

Project Status

ELECTRICAL - SECOND FLOOR ENLARGED POWER PLAN D

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.05D

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P.A.:	JTG
P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET ADDENDUM TIC BUDGET PRICING SET	11/07/2022 12/20/2022

Project Status

ELECTRICAL - THIRD FLOOR OVERALL POWER PLAN

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

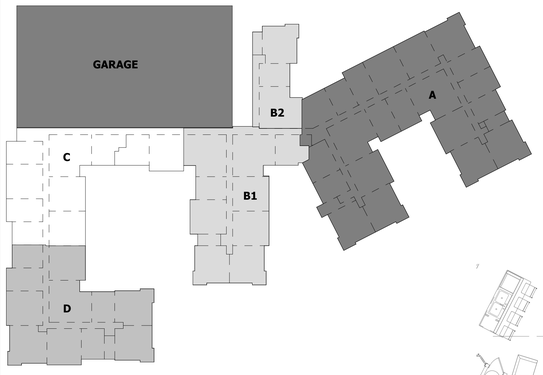
E2.06

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PARKING GARAGE DESIGN IS UNDER A DIFFERENT PERMIT SUBMISSION

2 E2.06 **ELECTRICAL - THIRD FLOOR POWER PLAN**
1/16" = 1'-0"

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ELECTRICAL GENERAL NOTES

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11. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE ELECTRICAL CONNECTION AND WIRE AS REQUIRED.

ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.



2 E2.06A **ELECTRICAL - THIRD FLOOR ENLARGED POWER PLAN A**
1/8" = 1'-0"

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/07/2022
	PERMIT SET	12/30/2022

Project Status

ELECTRICAL - THIRD FLOOR ENLARGED POWER PLAN A

Granite Run Apartments

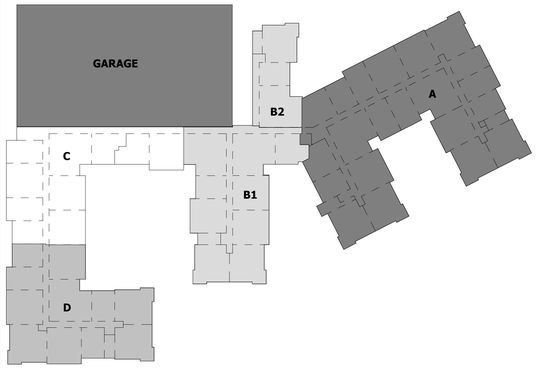
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.06A

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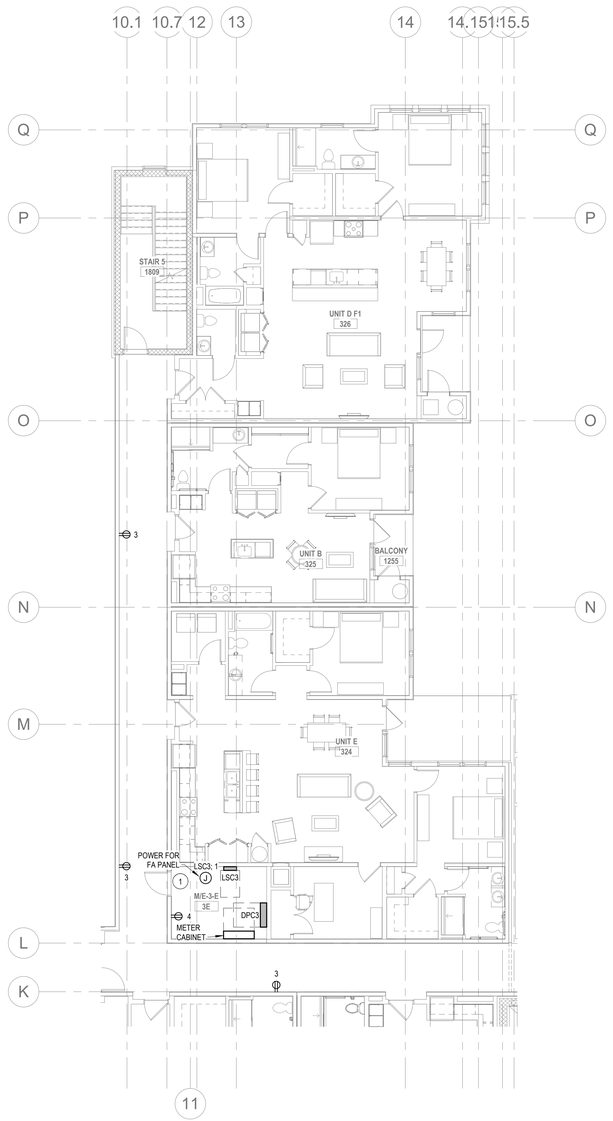


ELECTRICAL GENERAL NOTES

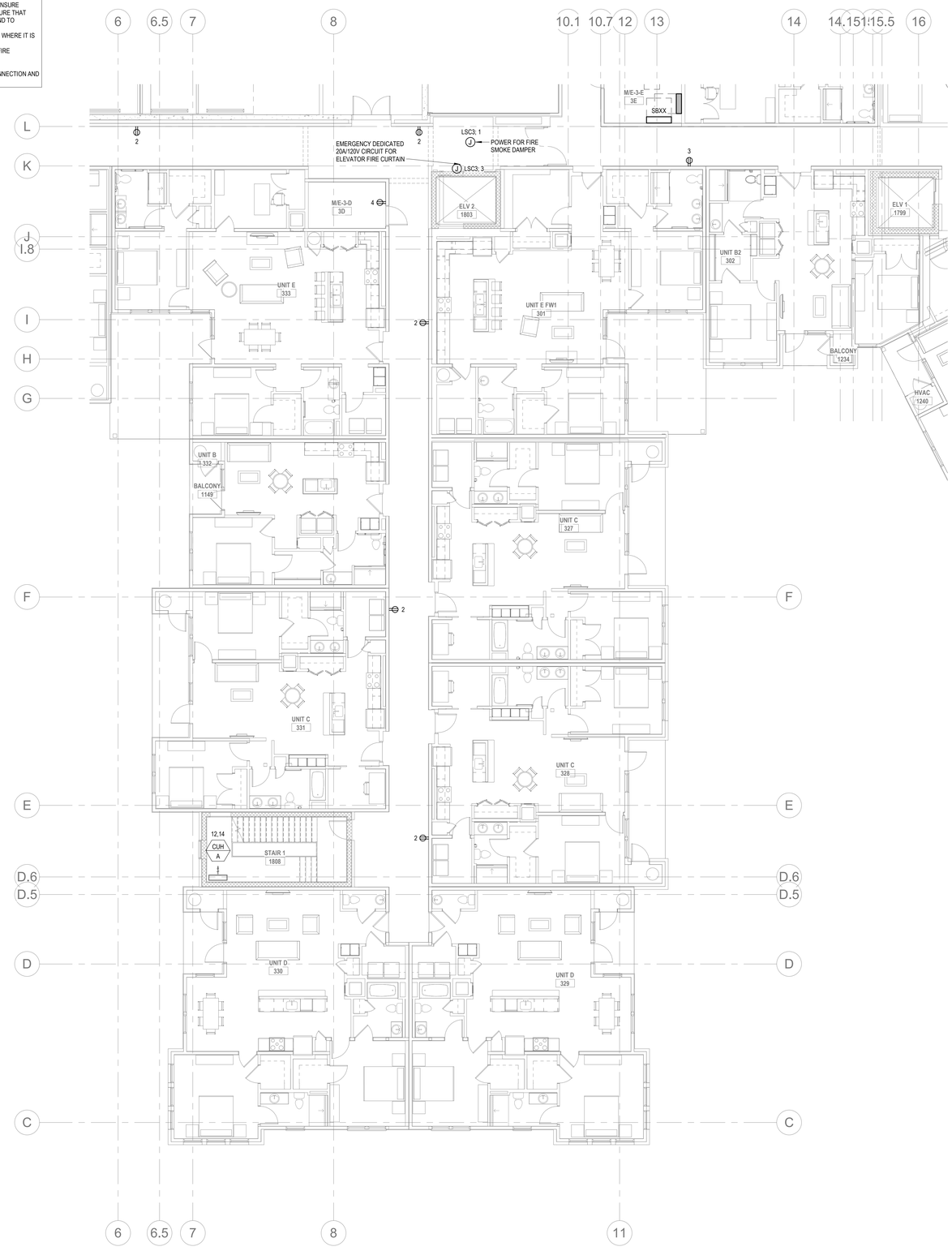
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2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE #10+1#10G.
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10. UNLESS OTHERWISE NOTED, ALL DEVICES CIRCUITED TO PANEL RPC4.
11. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE ELECTRICAL CONNECTION AND WIRE AS REQUIRED.

ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.



4 E2.06B **ELECTRICAL - THIRD FLOOR ENLARGED POWER PLAN B2**
1/8" = 1'-0"



3 E2.06B **ELECTRICAL - THIRD FLOOR ENLARGED POWER PLAN B1**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET PENNDOT BUCKET PRICING SET	11/07/2022 12/20/2022

Project Status

ELECTRICAL - THIRD FLOOR ENLARGED POWER PLANS B

Granite Run Apartments

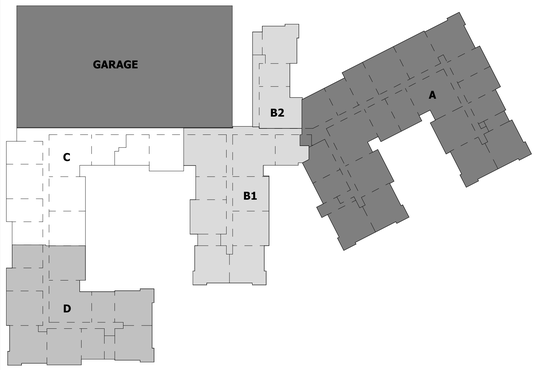
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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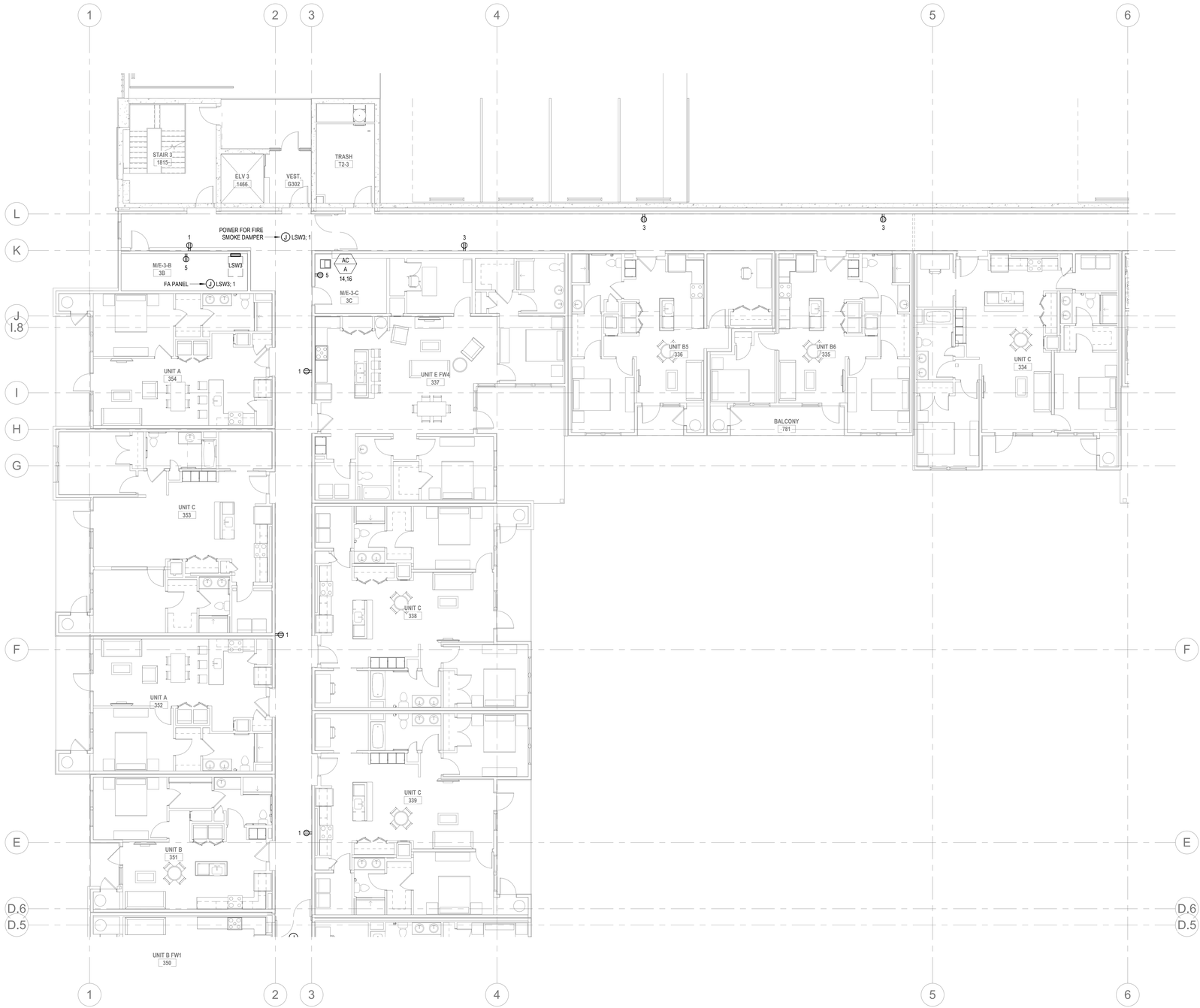


ELECTRICAL GENERAL NOTES

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2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
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10. UNLESS OTHERWISE NOTED, ALL DEVICES CIRCUITED TO PANEL RPW4.
11. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE ELECTRICAL CONNECTION AND WIRE AS REQUIRED.

ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.



2 E2.06C **ELECTRICAL - THIRD FLOOR ENLARGED POWER PLAN C**
1/8" = 1'-0"

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET SCHEMATIC BUDGET PRICING SET	11/07/2022 12/20/2022

Project Status

ELECTRICAL - THIRD FLOOR ENLARGED POWER PLAN C

Granite Run Apartments

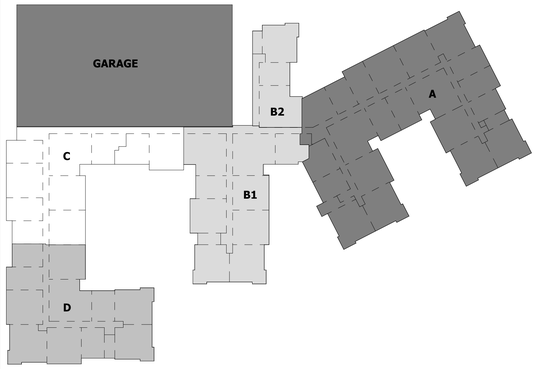
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.06C

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ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.



2 / E2.06D **ELECTRICAL - THIRD FLOOR ENLARGED POWER PLAN D**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	11/01/2022
	SCHEMATIC BUDGET PRICING SET	12/28/2022

Project Status

ELECTRICAL - THIRD FLOOR ENLARGED POWER PLAN D

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.06D

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2 E2.07 **ELECTRICAL - FOURTH FLOOR POWER PLAN**
1/16" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/07/2022
	PENNDOT TIC BUDGET PRICING SET	12/20/2022

Project Status

ELECTRICAL - FOURTH FLOOR OVERALL POWER PLAN

Granite Run Apartments

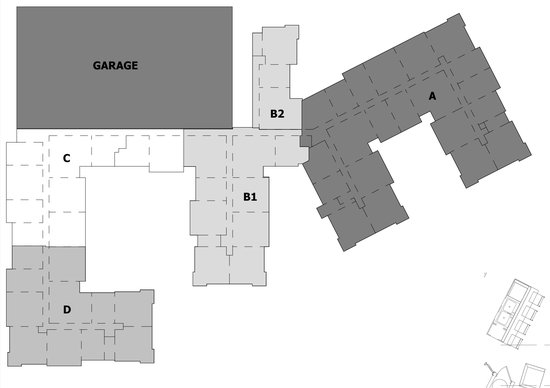
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE 2#10+1#10G.
4. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
5. PROVIDE & INSTALL GROUNDING & BONDING OF ALL LOW VOLTAGE SYSTEM RACK, CABINETS, CABLE TRAYS, LADDER RACKS, AND BUS BARS.
6. PROVIDE & INSTALL ALL CHIEF BOXES AS INDICATED/REQUIRED BY THE AV DESIGN.
7. ALL PANTRY, KITCHEN AND RESTROOM RECEPTACLES WITH 6 FEET OF A SINK SHALL BE GFCI PROTECTED. THE RECEPTACLES THAT ARE NOT READILY ACCESSIBLE SHALL BE PROTECTED BY GFCI BREAKERS.
8. ELECTRICAL CONTRACTOR SHALL REVIEW THE TELECOM DRAWINGS FOR REQUIRED CONDUITS AND PATHWAYS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE TELECOM CONTRACTOR AND SHALL ROVIDE AND INSTALL CONDUITS, RACEWAYS, JUNCTION BOXES AND UTILITY BOXES AS REQUIRED.
9. THOROUGHLY REVIEW ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS TO ENSURE UNDERSTANDING OF THE FULL SCOPE OF WORK. REVIEW MECHANICAL, PLUMBING AND FIRE PROTECTION SCHEDULES TO ENSURE THAT CIRCUITING FOR ALL EQUIPMENT IS CAPTURED. REVIEW TELECOM AND SECURITY DRAWINGS FOR POWER DROP LOCATIONS AND TO COORDINATE RACEWAYS AND BOXES THAT NEED TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
   A. ELECTRICAL CONTRACTOR TO PROVIDE FUSED DISCONNECT SWITCHES FOR ANY MECHANICAL AND PLUMBING EQUIPMENT WHERE IT IS NOT BEING PROVIDED BY THE MECHANICAL OR PLUMBING CONTRACTOR.
   B. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS/WIRING/RACEWAY TO MEET THE MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND SECURITY DRAWING SCHEDULE REQUIREMENTS.
10. UNLESS OTHERWISE NOTED, ALL DEVICES CIRCUITED TO PANEL RPE4.
11. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE ELECTRICAL CONNECTION AND WIRE AS REQUIRED.

ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3). COORDINATE WITH ARCHITECT/DOOR HARDWARE.



2 E2.07A **ELECTRICAL - FOURTH FLOOR ENLARGED POWER PLAN A**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/20/2022
	PERMIT SET	12/2/2022

Project Status

ELECTRICAL - FOURTH FLOOR ENLARGED POWER PLAN A

Granite Run Apartments

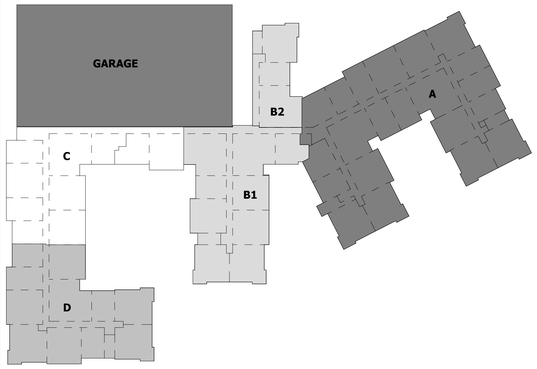
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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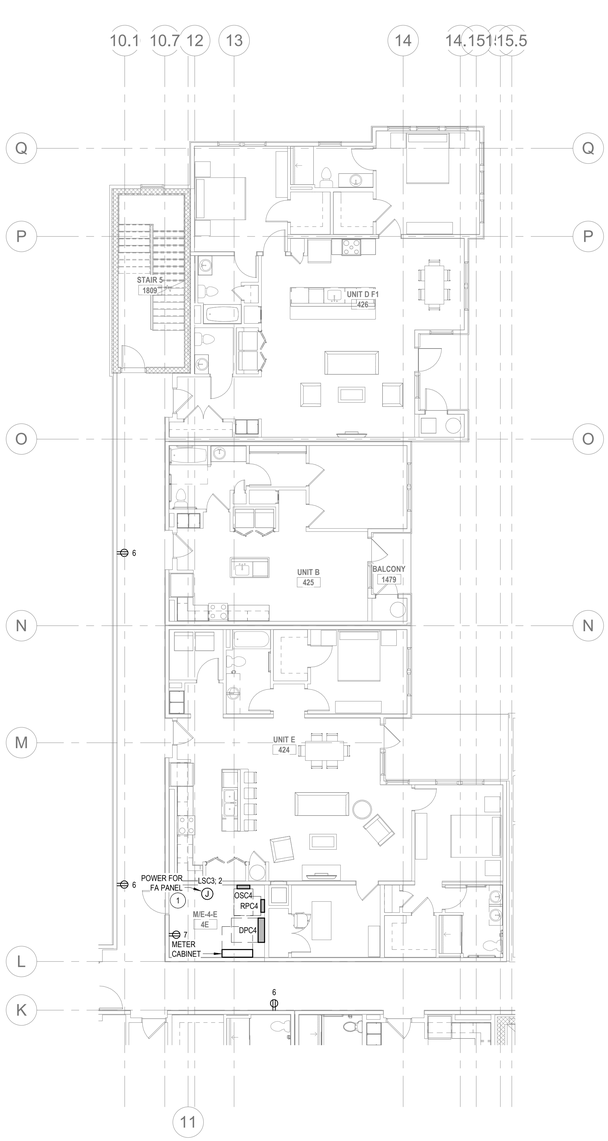


ELECTRICAL GENERAL NOTES

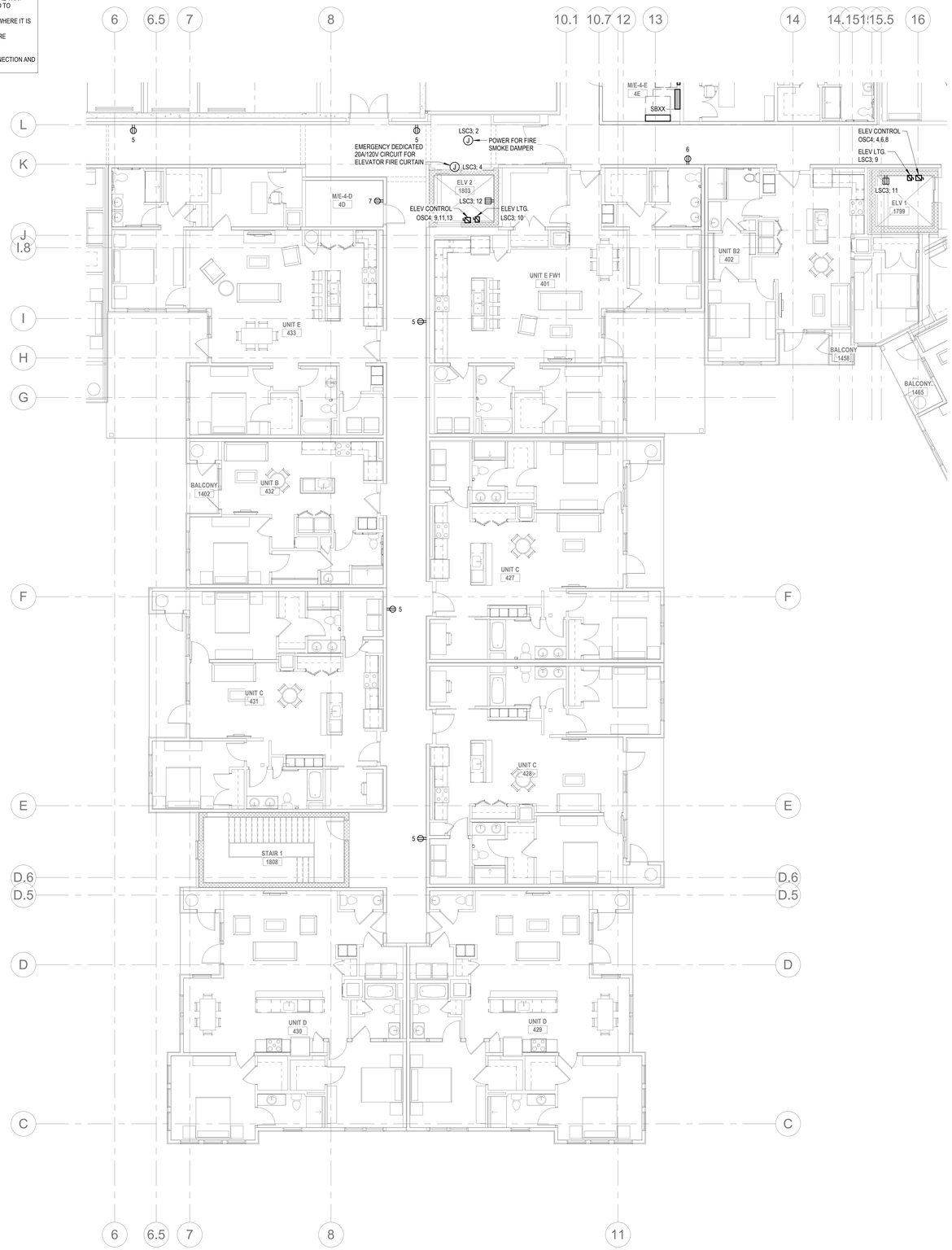
1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE #10+1#10G.
4. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
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10. UNLESS OTHERWISE NOTED, ALL DEVICES CIRCUITED TO PANEL RPC4.
11. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE ELECTRICAL CONNECTION AND WIRE AS REQUIRED.

ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.



4 E2.07B **ELECTRICAL - FOURTH FLOOR ENLARGED POWER PLAN B2**
1/8" = 1'-0"



2 E2.07B **ELECTRICAL - FOURTH FLOOR ENLARGED POWER PLAN B1**
1/8" = 1'-0"

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JAMES T. GRAHAM REGISTERED PROFESSIONAL ARCHITECT

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL - FOURTH FLOOR ENLARGED POWER PLANS B

Granite Run Apartments

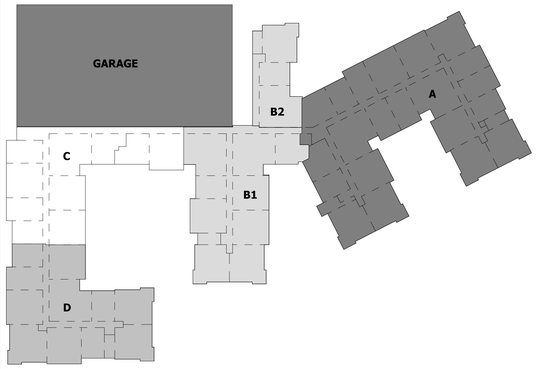
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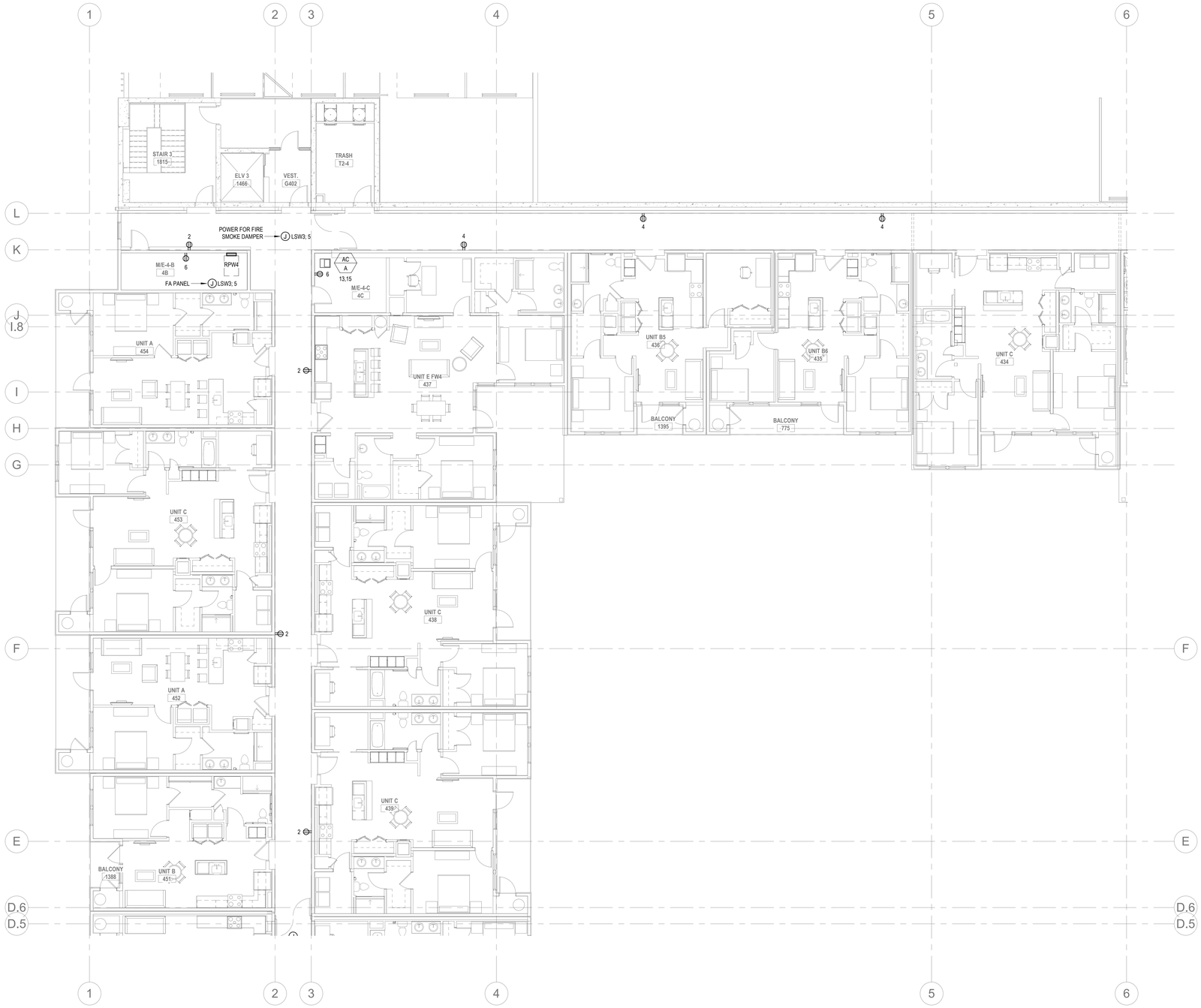


ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
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10. UNLESS OTHERWISE NOTED, ALL DEVICES CIRCUITED TO PANEL RPW4.
11. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE ELECTRICAL CONNECTION AND WIRE AS REQUIRED.

ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.



2 E2.07C **ELECTRICAL - FOURTH FLOOR ENLARGED POWER PLAN C**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/20/2022
	SCHEMATIC BUDGET PRICING SET	11/01/2022

Project Status

ELECTRICAL - FOURTH FLOOR ENLARGED POWER PLAN C

Granite Run Apartments

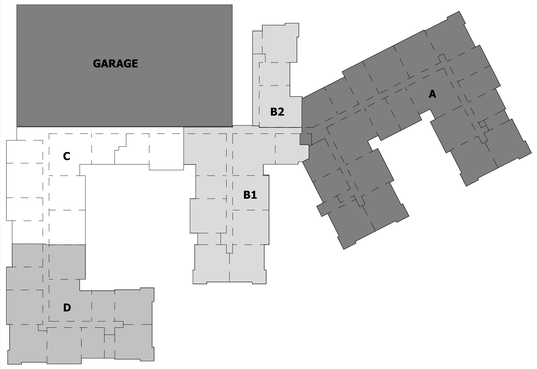
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DATE:	11/01/22

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ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. AREAS SHOWN HATCHED ARE N.I.C. UNLESS OTHERWISE NOTED.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE 2#10+1#10G.
4. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
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10. UNLESS OTHERWISE NOTED, ALL DEVICES CIRCUITED TO PANEL RPWH.
11. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE ELECTRICAL CONNECTION AND WIRE AS REQUIRED.

ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE.



2 E2.07D **ELECTRICAL - FOURTH FLOOR ENLARGED POWER PLAN D**
1/8" = 1'-0"

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NO.	REVISION	DATE
1	PERMIT SET	11/01/2022
	SCHEMATIC BUDGET PRICING SET	12/23/2022

Project Status

ELECTRICAL - FOURTH FLOOR ENLARGED POWER PLAN D

Granite Run Apartments

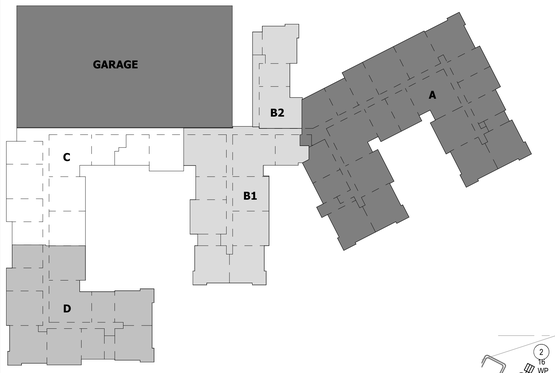
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. PROVIDE A RECEPTACLE WITHIN 25' OF ALL MECHANICAL EQUIPMENT.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE 2#10+1#10G.
4. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
5. PROVIDE & INSTALL GROUNDING & BONDING OF ALL LOW VOLTAGE SYSTEM RACK, CABINETS, CABLE TRAYS, LADDER RACKS, AND BUS BARS.
6. PROVIDE & INSTALL ALL CHIEF BOXES AS INDICATED/REQUIRED BY THE AV DESIGN.
7. ALL EXTERIOR MECHANICAL EQUIPMENT ON ROOF SHALL BE PROVIDED WITH NEMA-3R WEATHER-PROOF RATED DISCONNECTS, VFDS, STARTERS, CONTROL PANELS, ETC. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT IDENTIFICATION & MECHANICAL EQUIPEMENT SCHEDULES FOR MORE DETAILED INFORMATION. EC TO COORDINATE WITH MC TO DETERMINE WHICH SPECIFIC ROOF TOP EQUIPMENT SERVES WHICH DWELLING UNIT. REFER TO LOAD CENTER PANEL SCHEDULES FOR CIRCUITING INFORMATION.
8. ELECTRICAL CONTRACTOR SHALL REVIEW THE TELECOM DRAWINGS FOR REQUIRED CONDUITS AND PATHWAYS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE TELECOM CONTRACTOR AND SHALL ROVIDE AND INSTALL CONDUITS, RACEWAYS, JUNCTION BOXES AND UTILITY BOXES AS REQUIRED.
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ELECTRICAL SHEET NOTES (#)

1. EC TO PROVIDE DISCONNECTS FOR MECHANICAL EQUIPMENT: ACCU'S.
2. ROOFTOP EQUIPMENT LIGHT AND RECEPTACLE, REFER TO DETAIL 9/E0.32 FOR ADDITIONAL INFORMATION.



1 E2.08A **ELECTRICAL - ROOF POWER PLAN A**
1/8" = 1'-0"

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P.A.:	JTG
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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/20/2022
	PRELIMINARY BUDGET PRICING SET	11/07/2022

Project Status

ELECTRICAL - ROOF POWER PLAN A

Granite Run Apartments

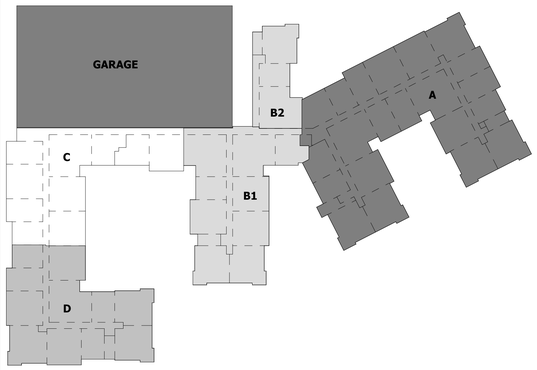
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.08A

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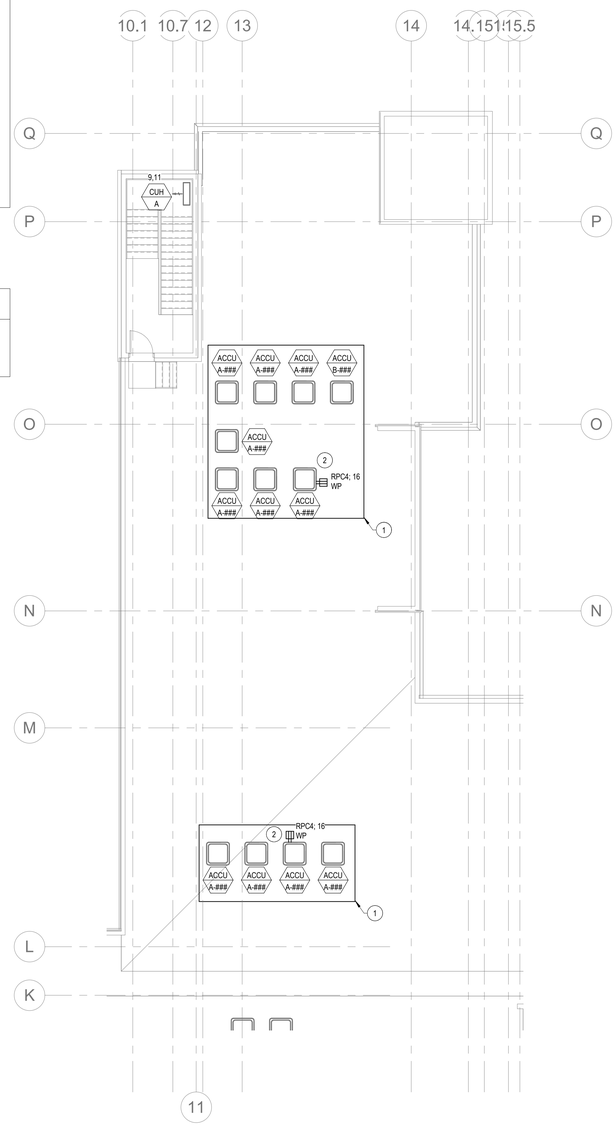


ELECTRICAL GENERAL NOTES

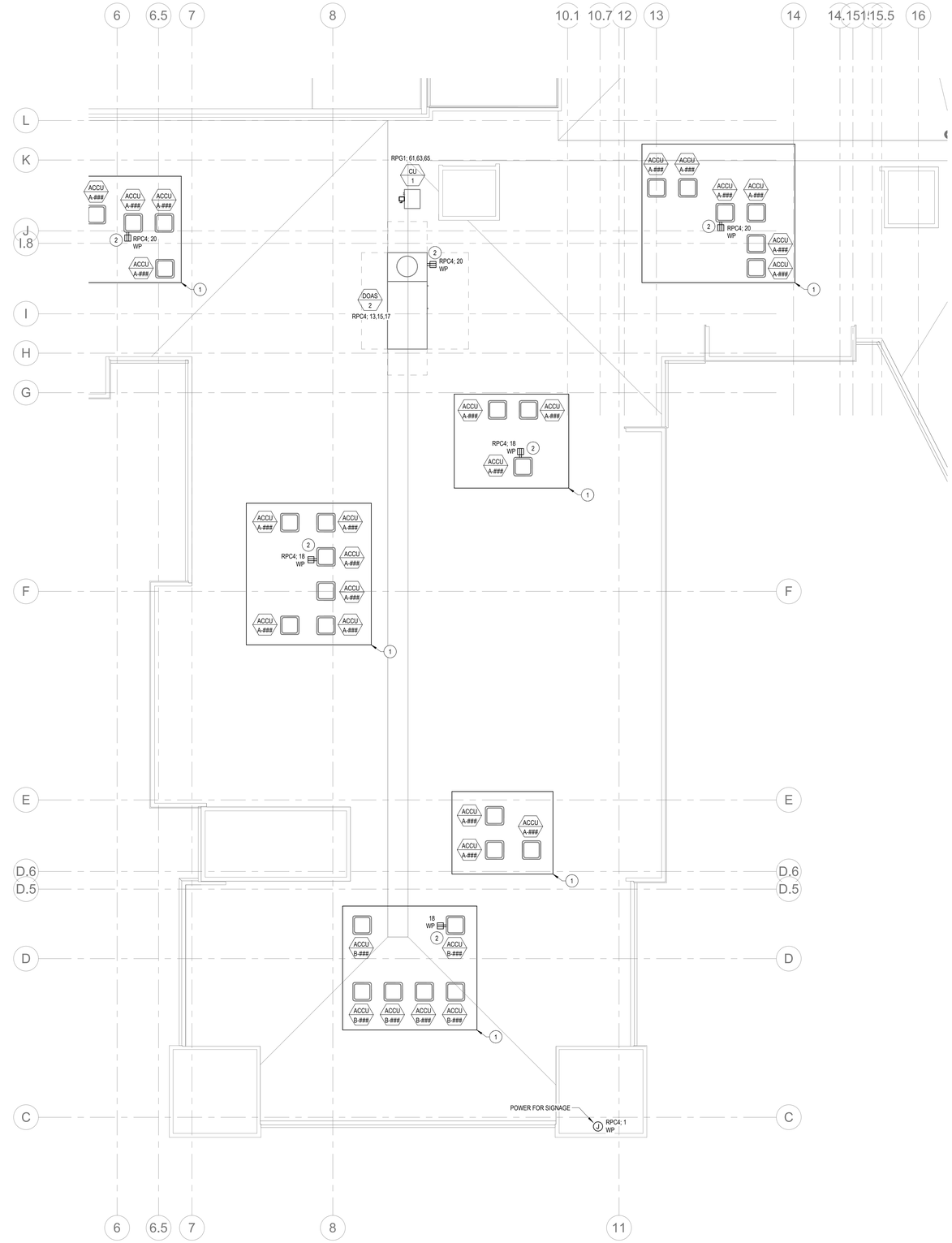
1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. PROVIDE A RECEPTACLE WITHIN 25' OF ALL MECHANICAL EQUIPMENT.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE 2#10+1#10G.
4. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
5. PROVIDE & INSTALL GROUNDING & BONDING OF ALL LOW VOLTAGE SYSTEM RACK, CABINETS, CABLE TRAYS, LADDER RACKS, AND BUS BARS.
6. PROVIDE & INSTALL ALL CHIEF BOXES AS INDICATED/REQUIRED BY THE AV DESIGN.
7. ALL EXTERIOR MECHANICAL EQUIPMENT ON ROOF SHALL BE PROVIDED WITH NEMA-3R WEATHER-PROOF RATED DISCONNECTS, VFDS, STARTERS, CONTROL PANELS, ETC. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT IDENTIFICATION & MECHANICAL EQUIPEMENT SCHEDULES FOR MORE DETAILED INFORMATION. EC TO COORDINATE WITH MC TO DETERMINE WHICH SPECIFIC ROOF TOP EQUIPMENT SERVES WHICH DWELLING UNIT. REFER TO LOAD CENTER PANEL SCHEDULES FOR CIRCUITING INFORMATION.
8. ELECTRICAL CONTRACTOR SHALL REVIEW THE TELECOM DRAWINGS FOR REQUIRED CONDUITS AND PATHWAYS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE TELECOM CONTRACTOR AND SHALL ROVIDE AND INSTALL CONDUITS, RACEWAYS, JUNCTION BOXES AND UTILITY BOXES AS REQUIRED.
9. THOROUGHLY REVIEW ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS TO ENSURE UNDERSTANDING OF THE FULL SCOPE OF WORK. REVIEW MECHANICAL, PLUMBING AND FIRE PROTECTION SCHEDULES TO ENSURE THAT CIRCUITING FOR ALL EQUIPMENT IS CAPTURED. REVIEW TELECOM AND SECURITY DRAWINGS FOR POWER DROP LOCATIONS AND TO COORDINATE RACEWAYS AND BOXES THAT NEED TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
   - A. ELECTRICAL CONTRACTOR TO PROVIDE FUSED DISCONNECT SWITCHES FOR ANY MECHANICAL AND PLUMBING EQUIPMENT WHERE IT IS NOT BEING PROVIDED BY THE MECHANICAL OR PLUMBING CONTRACTOR.
   - B. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS/WIRING/RACEWAY TO MEET THE MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOM AND SECURITY DRAWING SCHEDULE REQUIREMENTS.

ELECTRICAL SHEET NOTES (#)

1. EC TO PROVIDE DISCONNECTS FOR MECHANICAL EQUIPMENT: ACCU'S.
2. ROOFTOP EQUIPMENT LIGHT AND RECEPTACLE, REFER TO DETAIL 9/E0.32 FOR ADDITIONAL INFORMATION.



1 E2.08B **ELECTRICAL - ROOF POWER PLAN B2**
1/8" = 1'-0"



2 E2.08B **ELECTRICAL - ROOF POWER PLAN B1**
1/8" = 1'-0"

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/21/2022

Project Status

ELECTRICAL - ROOF POWER PLAN B

Granite Run Apartments

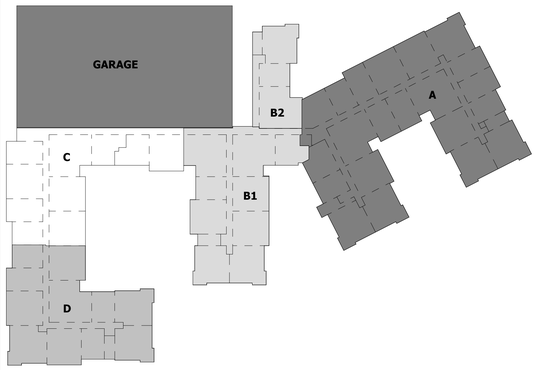
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.08B

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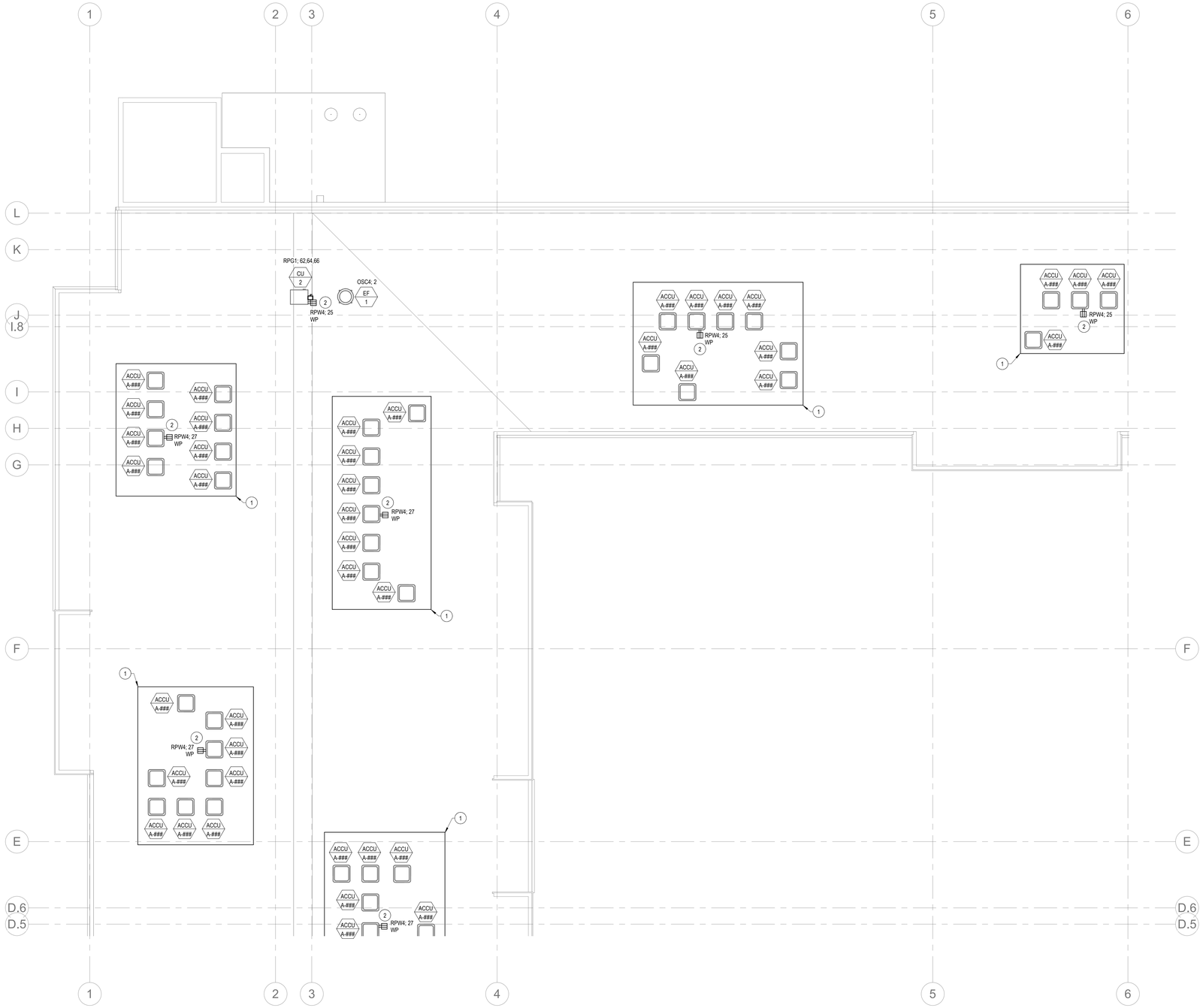


ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. PROVIDE A RECEPTACLE WITHIN 25' OF ALL MECHANICAL EQUIPMENT.
3. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE 2#10+1#10G.
4. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
5. PROVIDE & INSTALL GROUNDING & BONDING OF ALL LOW VOLTAGE SYSTEM RACK, CABINETS, CABLE TRAYS, LADDER RACKS, AND BUS BARS.
6. PROVIDE & INSTALL ALL CHIEF BOXES AS INDICATED/REQUIRED BY THE AV DESIGN.
7. ALL EXTERIOR MECHANICAL EQUIPMENT ON ROOF SHALL BE PROVIDED WITH NEMA-3R WEATHER-PROOF RATED DISCONNECTS, VFDS, STARTERS, CONTROL PANELS, ETC. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT IDENTIFICATION & MECHANICAL EQUIPEMENT SCHEDULES FOR MORE DETAILED INFORMATION. EC TO COORDINATE WITH MC TO DETERMINE WHICH SPECIFIC ROOF TOP EQUIPMENT SERVES WHICH DWELLING UNIT. REFER TO LOAD CENTER PANEL SCHEDULES FOR CIRCUITING INFORMATION.
8. ELECTRICAL CONTRACTOR SHALL REVIEW THE TELECOM DRAWINGS FOR REQUIRED CONDUITS AND PATHWAYS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE TELECOM CONTRACTOR AND SHALL ROVIDE AND INSTALL CONDUITS, RACEWAYS, JUNCTION BOXES AND UTILITY BOXES AS REQUIRED.
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ELECTRICAL SHEET NOTES (#)

1. EC TO PROVIDE DISCONNECTS FOR MECHANICAL EQUIPMENT: ACCU'S.
2. ROOFTOP EQUIPMENT LIGHT AND RECEPTACLE, REFER TO DETAIL 9/E0.32 FOR ADDITIONAL INFORMATION.



1 E2.08C **ELECTRICAL - ROOF POWER PLAN C**
1/8" = 1'-0"

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET PERMIT SET	11/01/2022 12/2/2022

Project Status

ELECTRICAL - ROOF POWER PLAN C

Granite Run Apartments

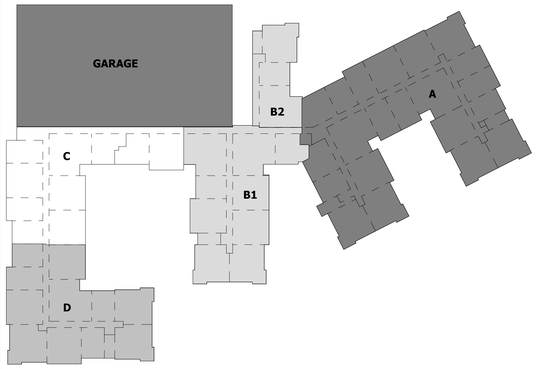
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E2.08C

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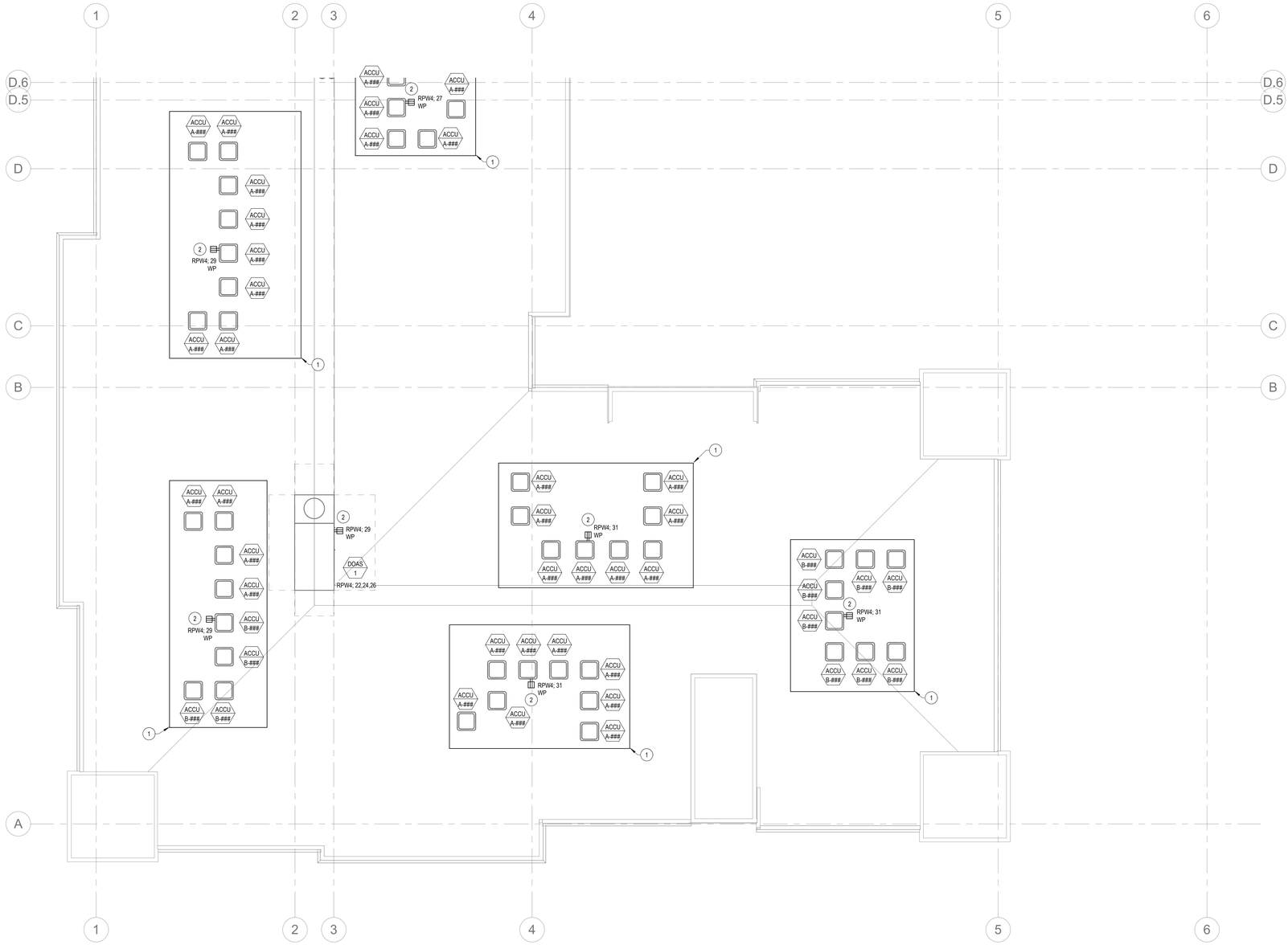


ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. PROVIDE A RECEPTACLE WITHIN 25' OF ALL MECHANICAL EQUIPMENT.
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ELECTRICAL SHEET NOTES (#)

1. EC TO PROVIDE DISCONNECTS FOR MECHANICAL EQUIPMENT: ACCU'S.
2. ROOFTOP EQUIPMENT LIGHT AND RECEPTACLE, REFER TO DETAIL 9/E0.32 FOR ADDITIONAL INFORMATION.



1 E2.08D **ELECTRICAL - ROOF POWER PLAN D**
1/8" = 1'-0"

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL - ROOF POWER PLAN D

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

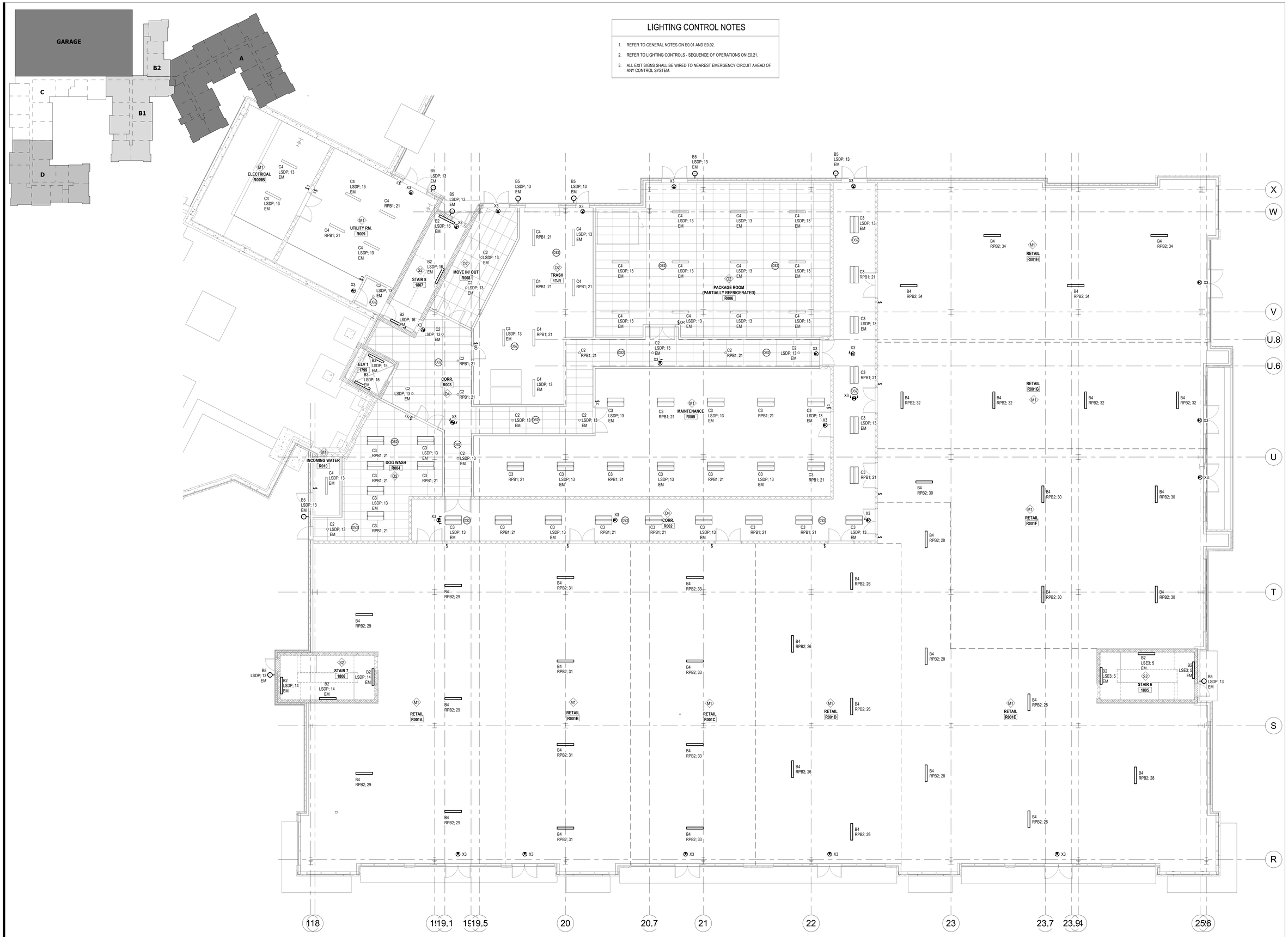
E2.08D

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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



2 E3.01A **ELECTRICAL - RETAIL LEVEL ENLARGED LIGHTING PLAN A**
1/8" = 1'-0"

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL - RETAIL LEVEL LIGHTING PLAN A

Granite Run Apartments

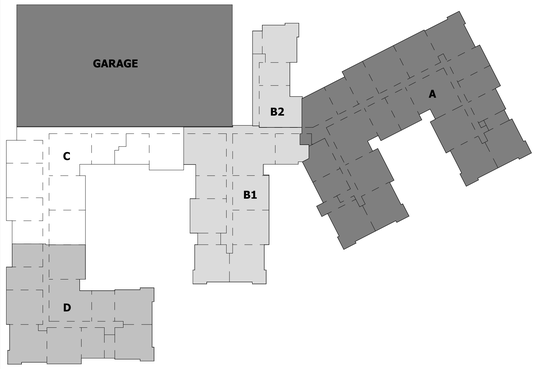
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E3.01A

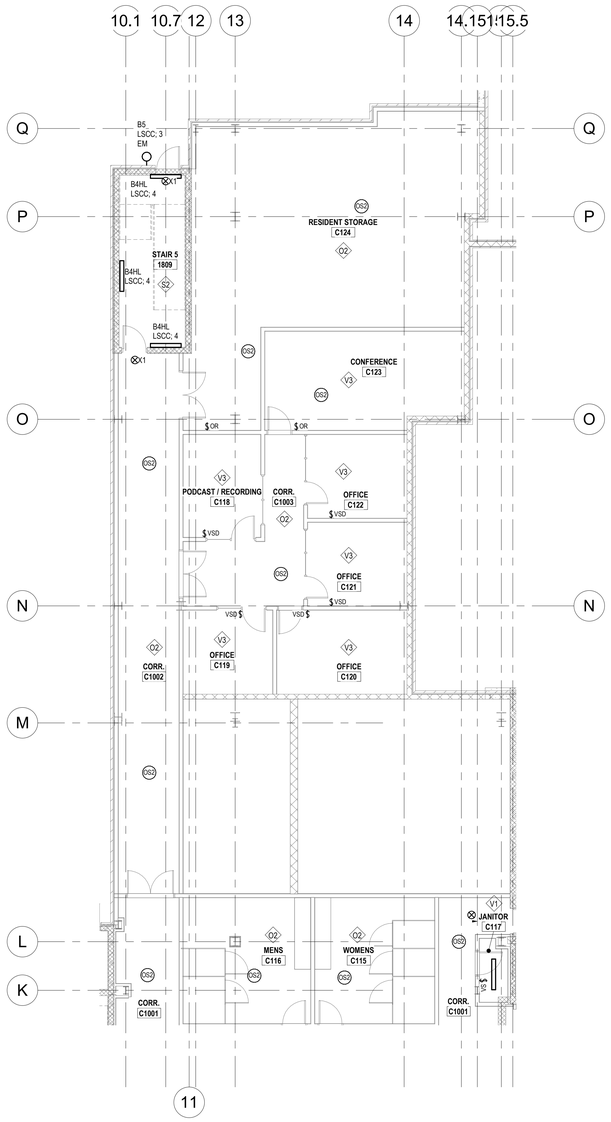
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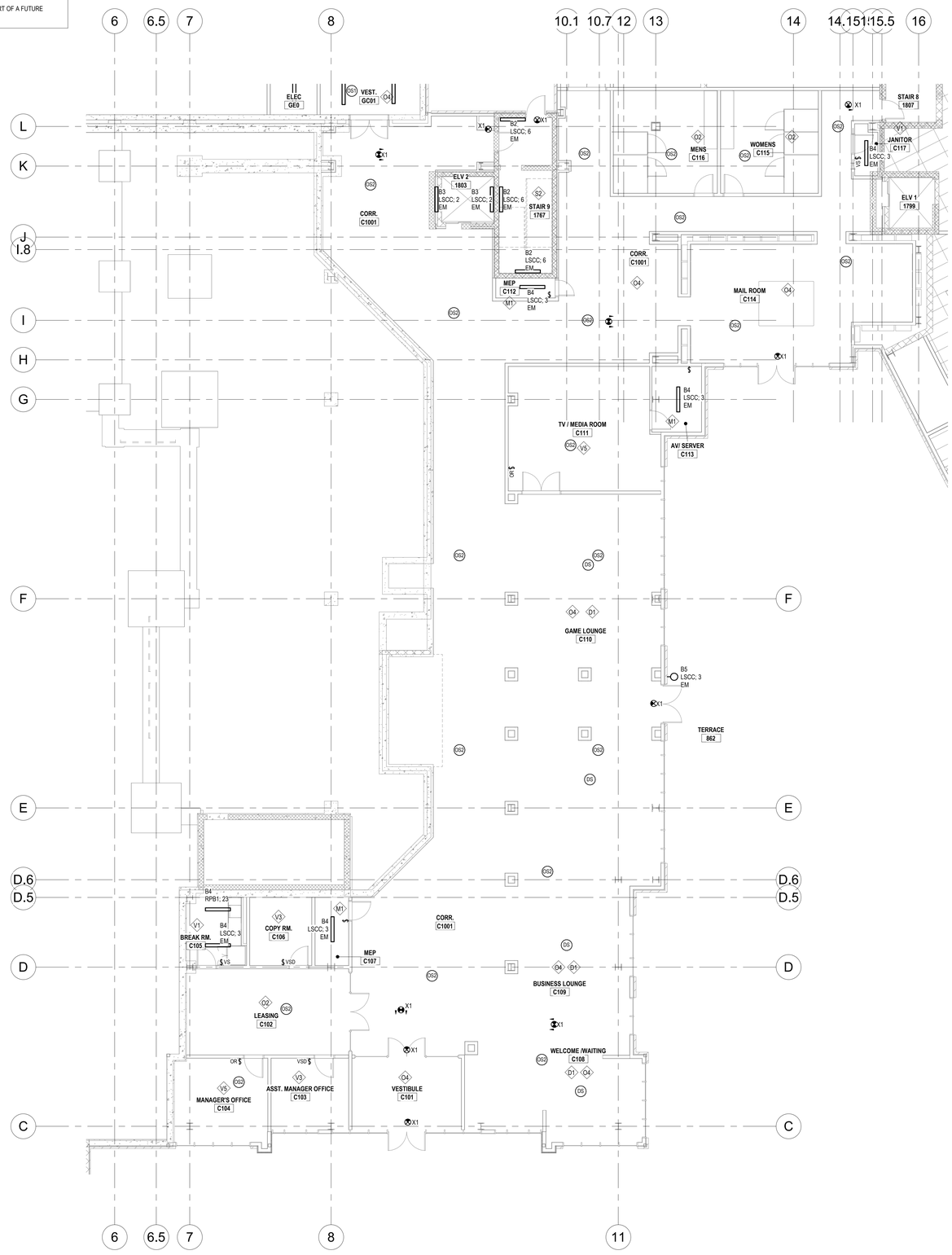


LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.
4. PROVIDE GRAPHIC TOUCH SCREEN MULTI-SCENE DIMMING CONTROLS WITH TIMECLOCK FUNCTION FOR EACH OF THE FOLLOWING DRAWINGS.
   A. RESIDENTIAL LOBBY
   B. ELEVATOR LOBBY
   C. EXTERIOR
5. CONTROL ZONE INDICATED BY Z-#. PROVIDE SEPERATE CONTROL FOR EACH ZONE.
6. CLUB LEVEL 1 AND CLUB LEVEL 2 SHALL BE DESIGN AS PART OF A FUTURE PERMIT ISSUANCE.



2 E3.02B **ELECTRICAL - CLUB LEVEL 1 ENLARGED LIGHTING PLAN B2**
1/8" = 1'-0"



1 E3.02B **ELECTRICAL - CLUB LEVEL 1 ENLARGED LIGHTING PLAN B1**
1/8" = 1'-0"

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/07/2022
	PERMIT SET	12/28/2022

Project Status

ELECTRICAL - CLUB LEVEL 1 LIGHTING PLANS B

Granite Run Apartments

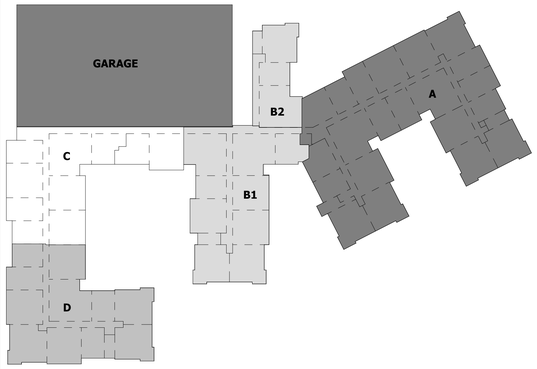
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E3.02B

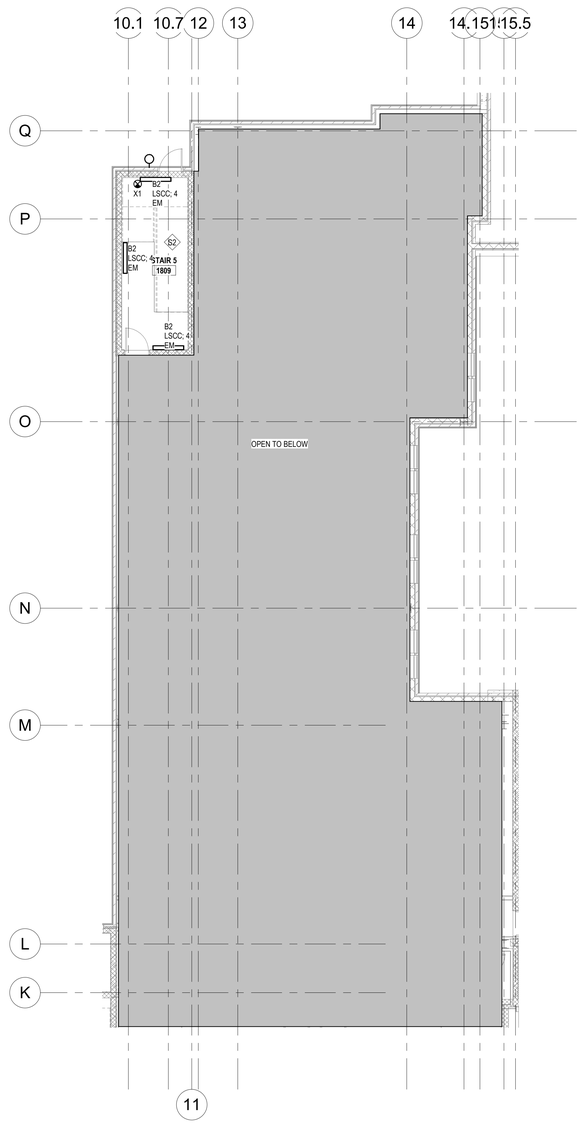
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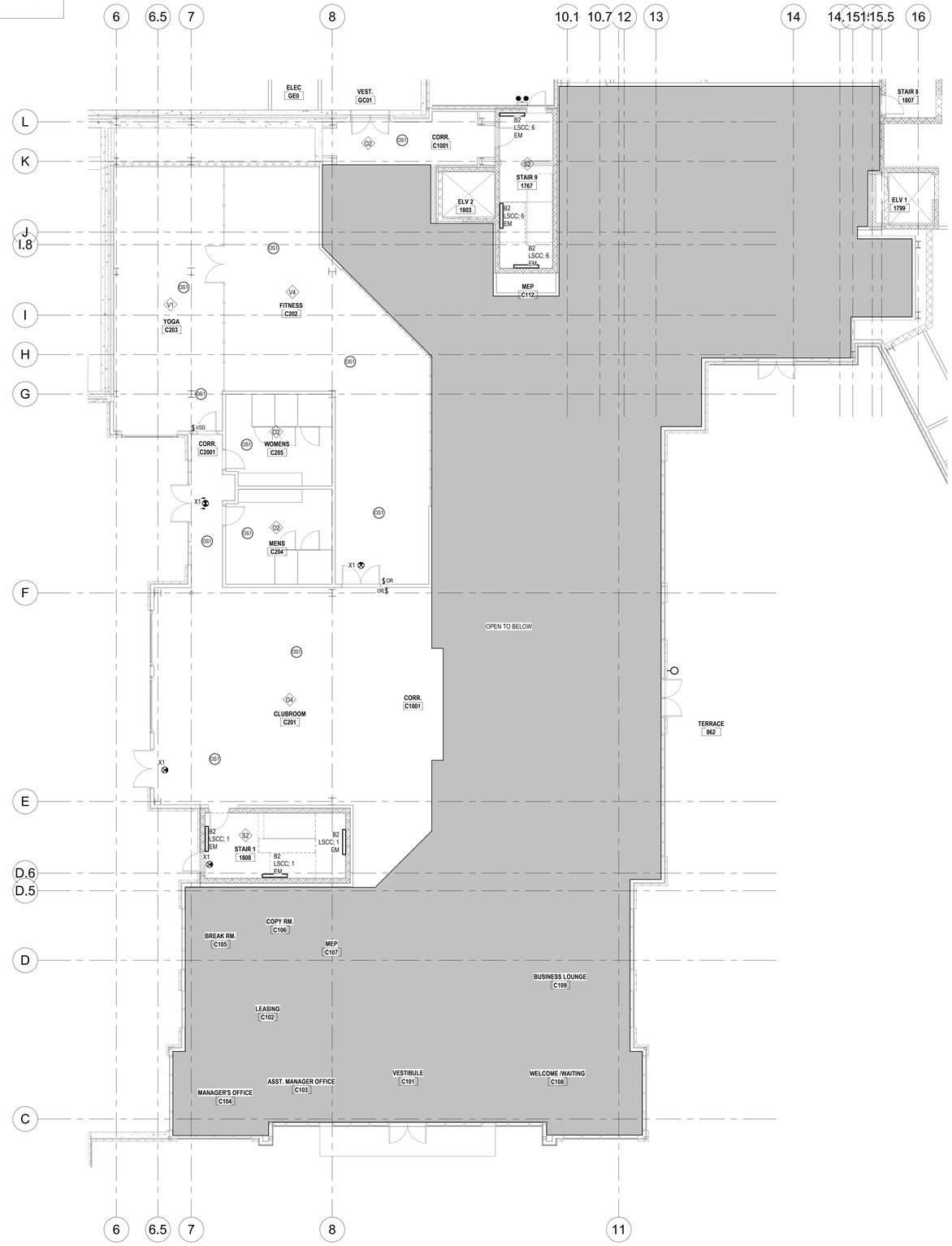
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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.
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   B. ELEVATOR LOBBY
   C. EXTERIOR
5. CONTROL ZONE INDICATED BY Z-#. PROVIDE SEPERATE CONTROL FOR EACH ZONE.
6. CLUB LEVEL 1 AND CLUB LEVEL 2 SHALL BE DESIGN AS PART OF A FUTURE PERMIT ISSUANCE.





2 E3.03B ELECTRICAL - CLUB LEVEL 2 ENLARGED LIGHTING PLAN B2
1/8" = 1'-0"

1 E3.03B ELECTRICAL - CLUB LEVEL 2 ENLARGED LIGHTING PLAN B1
1/8" = 1'-0"

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P.A.:	JTG
P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/30/2022

Project Status

ELECTRICAL - CLUB LEVEL 2 LIGHTING PLANS B

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

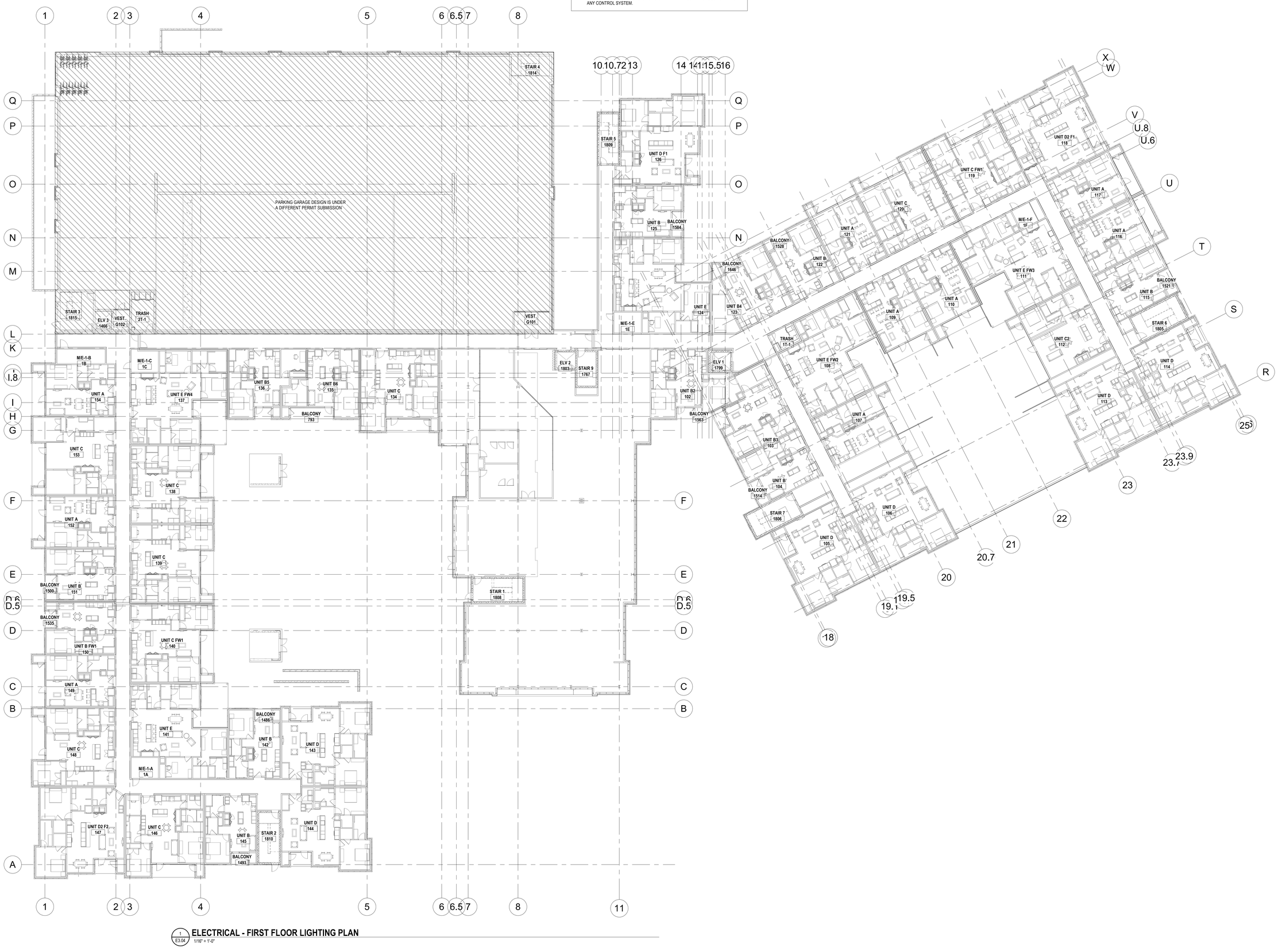
E3.03B

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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.04 **ELECTRICAL - FIRST FLOOR LIGHTING PLAN**
1/16" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET SCHEMATIC BUDGET PRICING SET	11/01/2022 12/20/2022

Project Status

ELECTRICAL - FIRST FLOOR LIGHTING PLAN

Granite Run Apartments

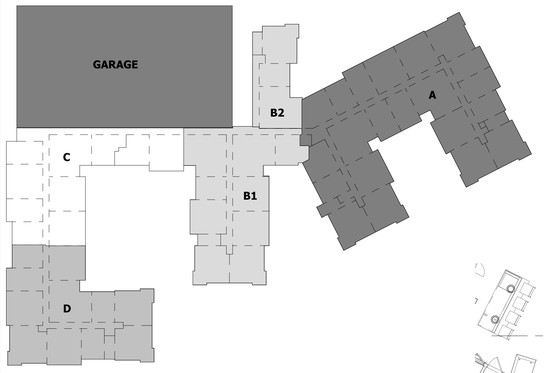
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E3.04

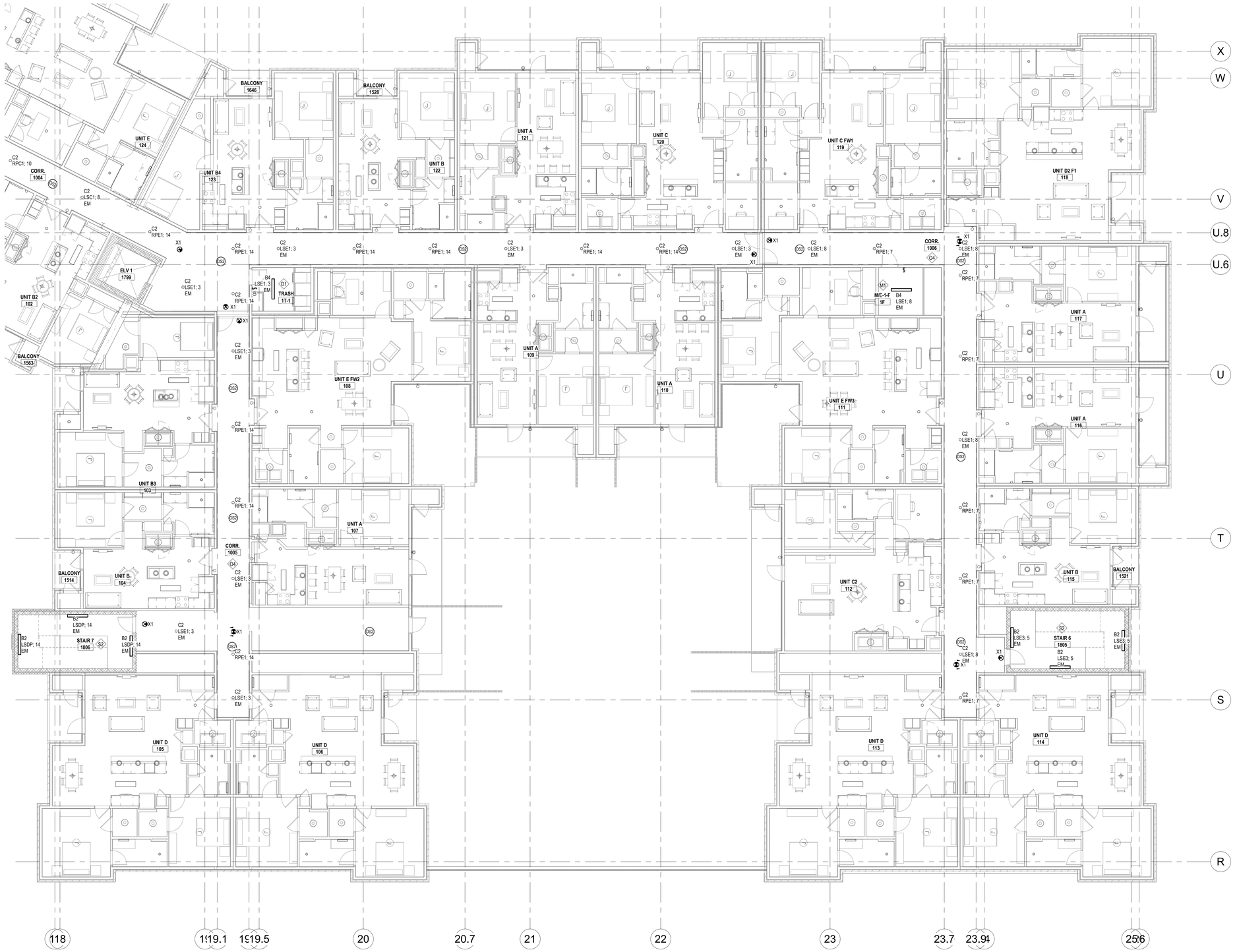
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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.04A **ELECTRICAL - FIRST FLOOR ENLARGED LIGHTING PLAN A**
1/8" = 1'-0"

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NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/30/2022

Project Status

ELECTRICAL - FIRST FLOOR ENLARGED LIGHTING PLAN A

Granite Run Apartments

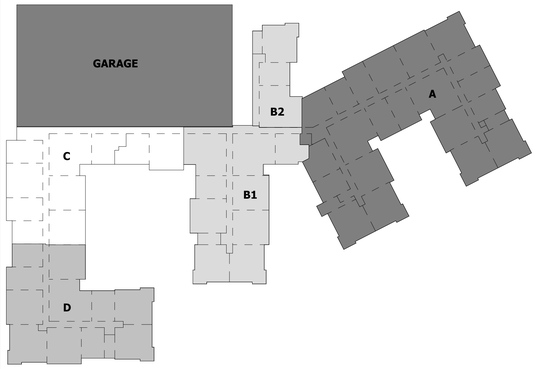
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E3.04A

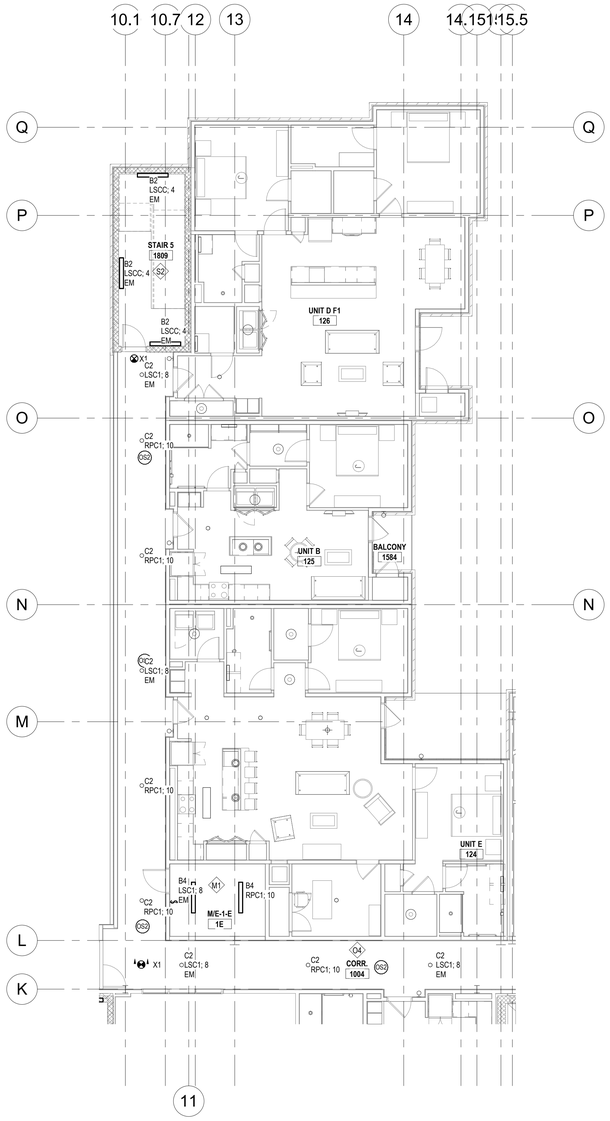
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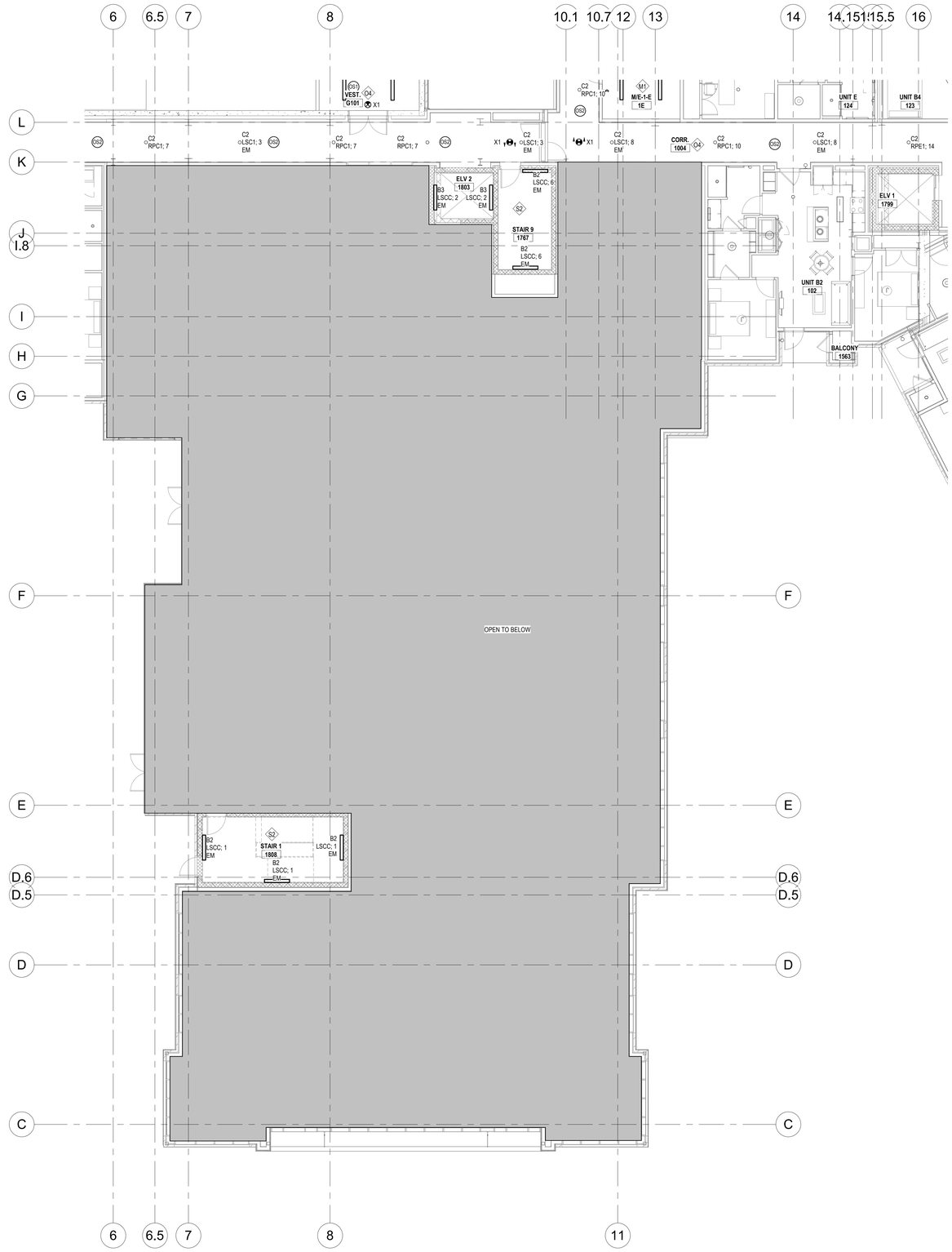


LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.04B **ELECTRICAL - FIRST FLOOR ENLARGED LIGHTING PLAN B2**
1/8" = 1'-0"



2 E3.04B **ELECTRICAL - FIRST FLOOR ENLARGED LIGHTING PLAN B1**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/20/2022
	PERMIT SET	12/29/2022

Project Status

ELECTRICAL - FIRST FLOOR ENLARGED LIGHTING PLANS B

Granite Run Apartments

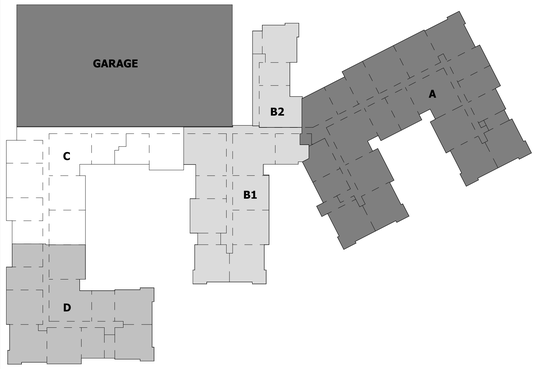
MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 11/01/22

E3.04B

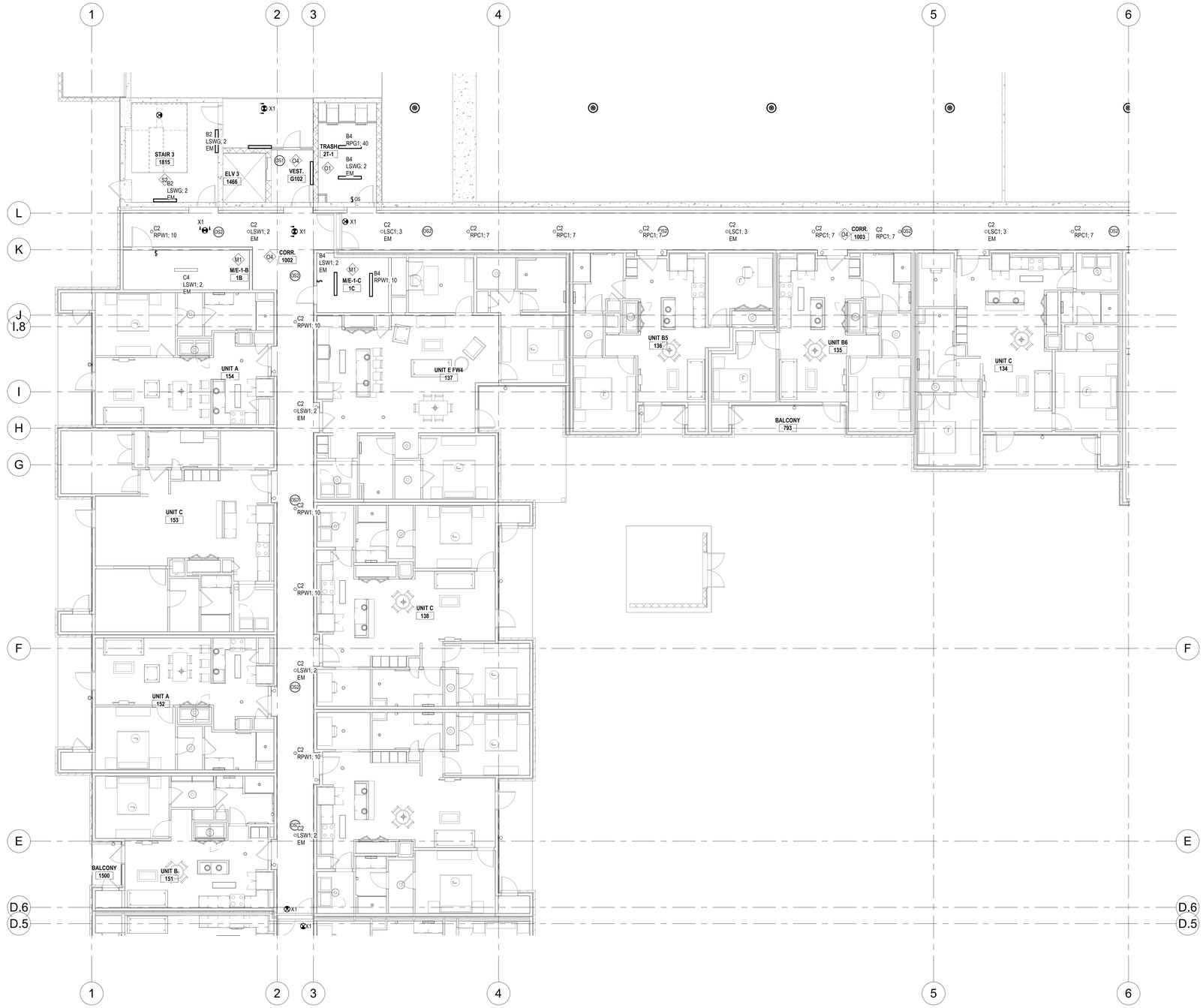
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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.04C **ELECTRICAL - FIRST FLOOR ENLARGED LIGHTING PLAN C**
1/8" = 1'-0"

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NO.	REVISION	DATE
1.	PERMIT SET	11/07/2022
	CONSTRUCTION BUDGET PRICING SET	12/20/2022

Project Status

ELECTRICAL - FIRST FLOOR ENLARGED LIGHTING PLAN C

Granite Run Apartments

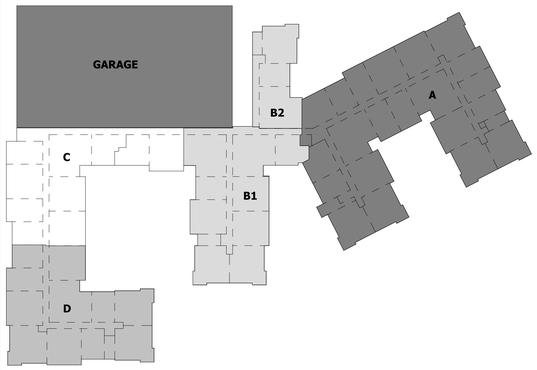
MIDDLETOWN TOWNSHIP, PA

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DATE:	11/01/22

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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.04D **ELECTRICAL - FIRST FLOOR ENLARGED LIGHTING PLAN D**
1/8" = 1'-0"

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NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL - FIRST FLOOR ENLARGED LIGHTING PLAN D

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 11/01/22

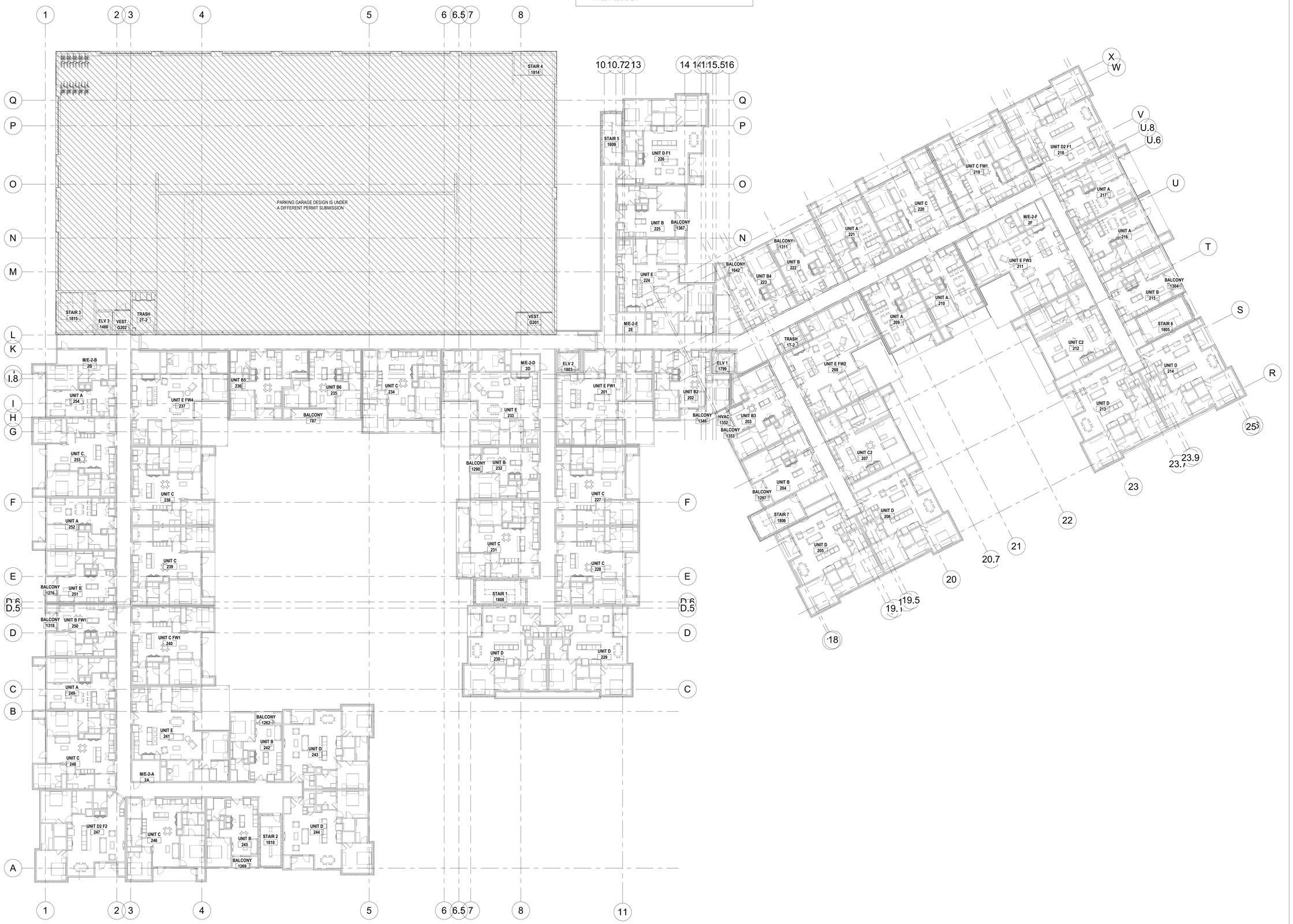
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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



2 E3.05 **ELECTRICAL - SECOND FLOOR LIGHTING PLAN**
1/16" = 1'-0"

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NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL - SECOND FLOOR LIGHTING PLAN

Granite Run Apartments

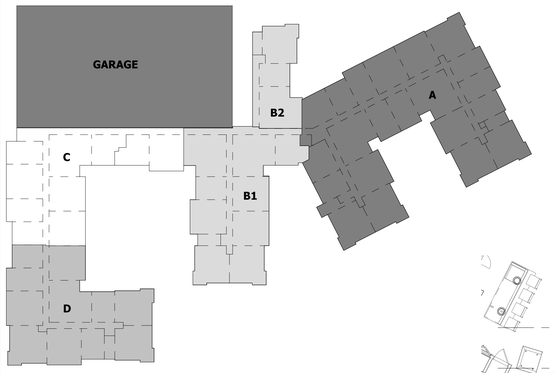
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E3.05

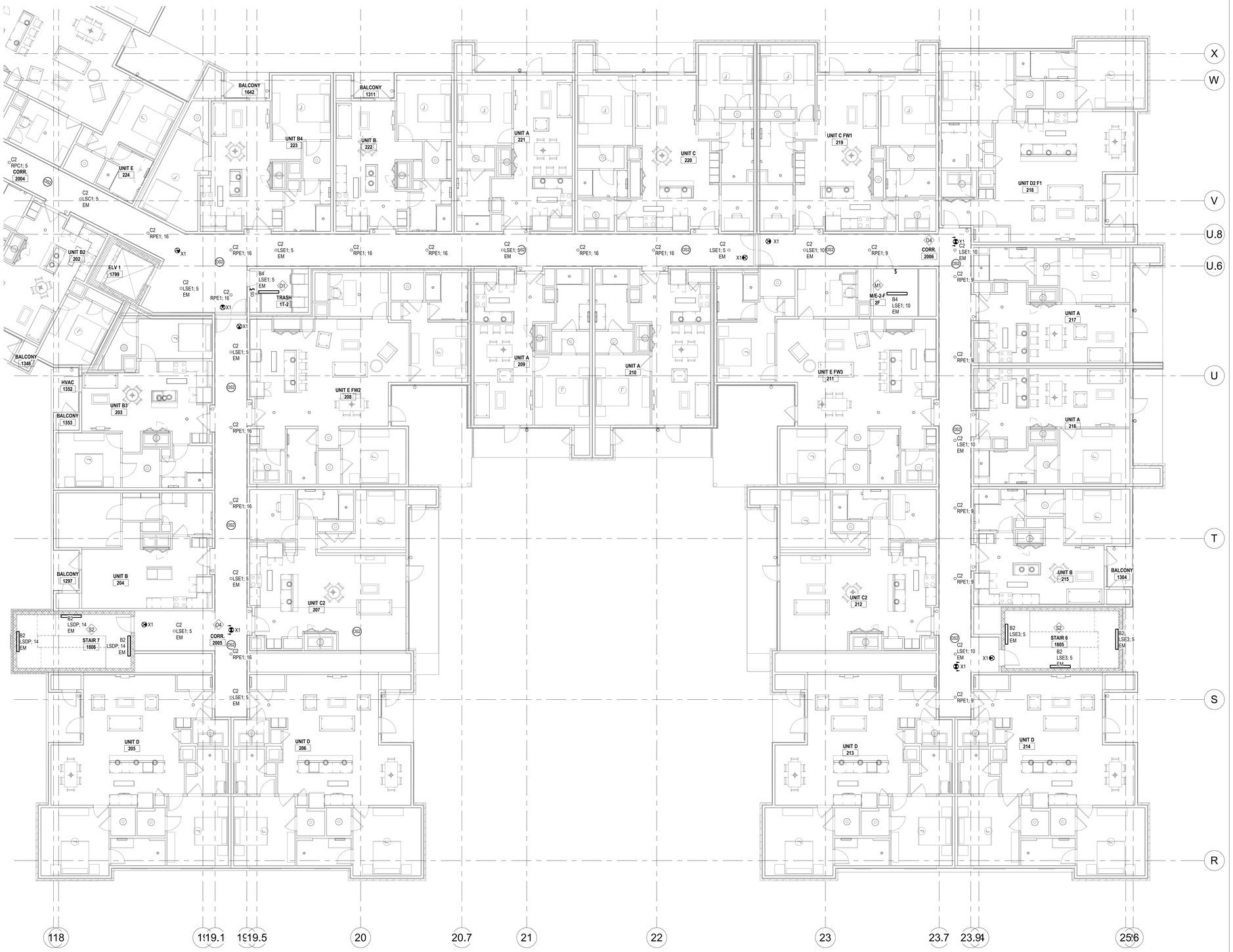
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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.05A **ELECTRICAL - SECOND FLOOR ENLARGED LIGHTING PLAN A**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/20/2022

Project Status

ELECTRICAL - SECOND FLOOR ENLARGED LIGHTING PLAN A

Granite Run Apartments

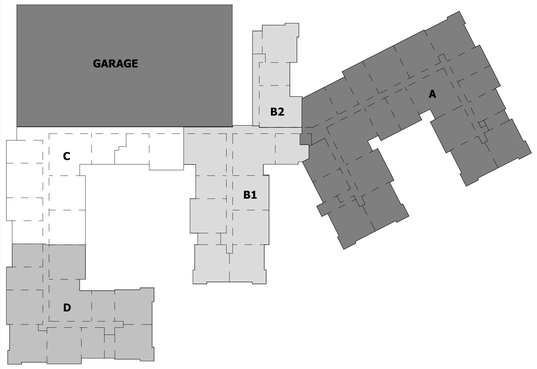
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E3.05A

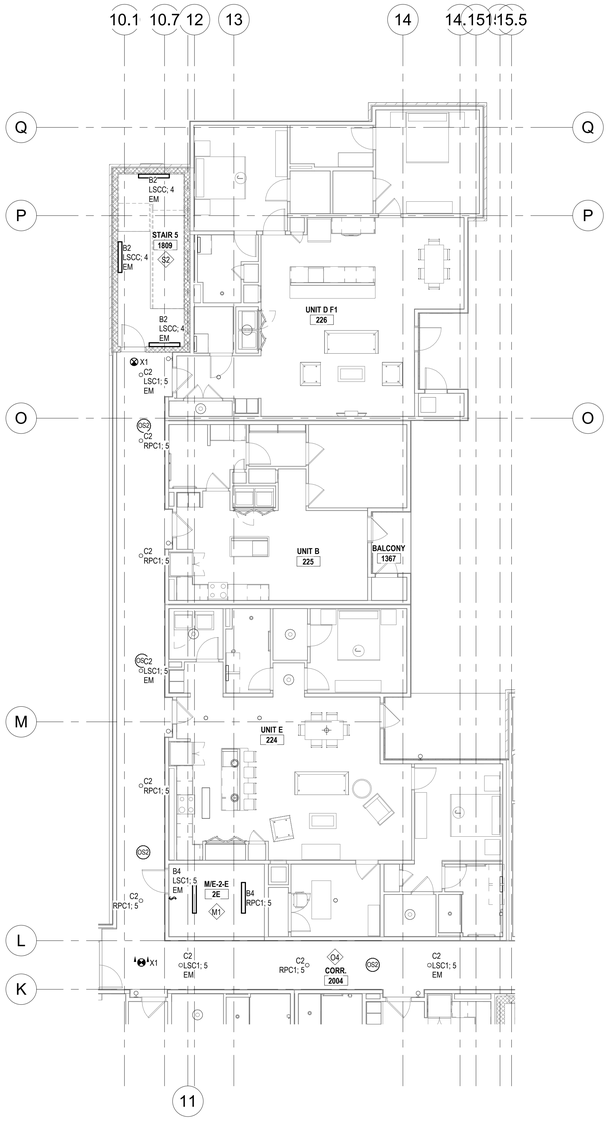
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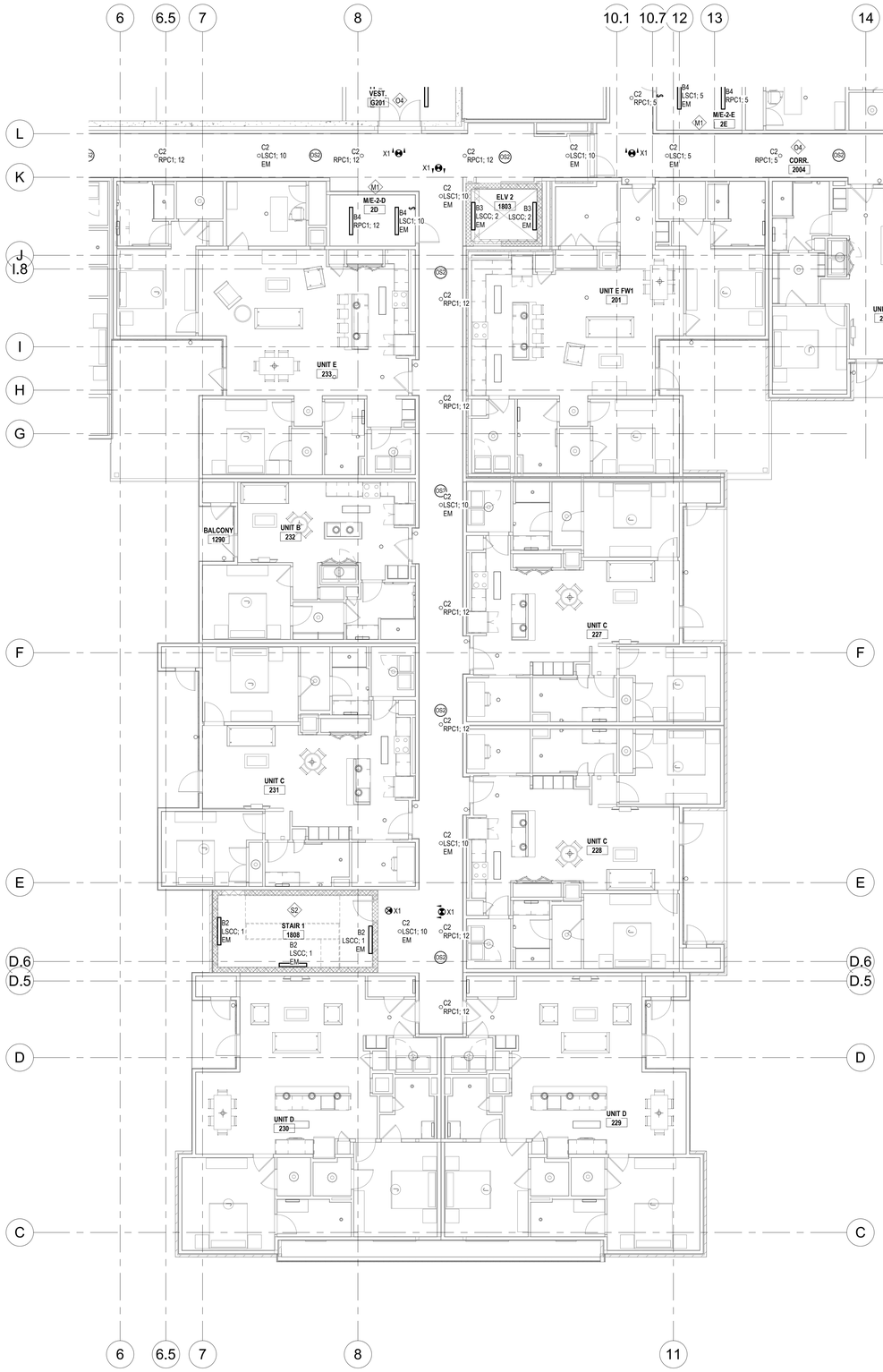


LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



2 E3.05B ELECTRICAL - SECOND FLOOR ENLARGED LIGHTING PLAN B2
1/8" = 1'-0"



1 E3.05B ELECTRICAL - SECOND FLOOR ENLARGED LIGHTING PLAN B1
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL - SECOND FLOOR ENLARGED LIGHTING PLANS B

Granite Run Apartments

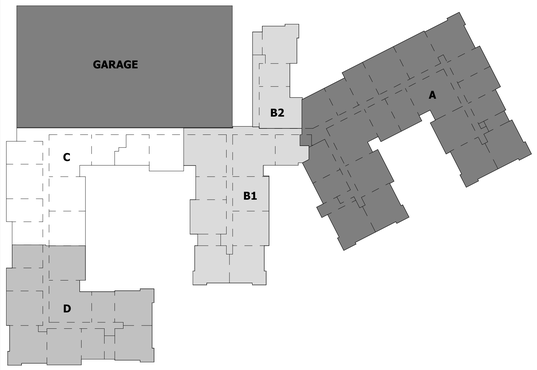
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E3.05B

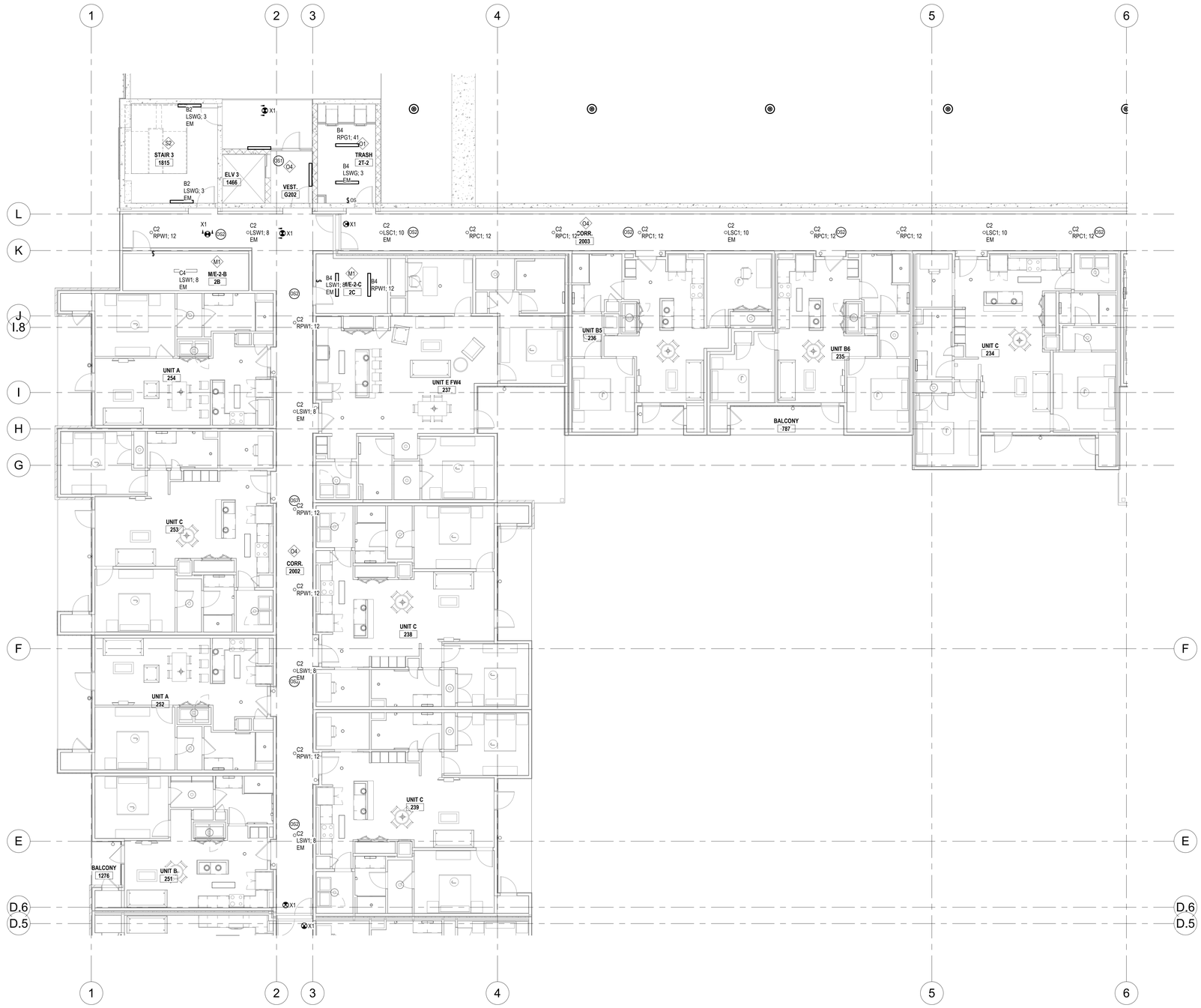
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LIGHTING CONTROL NOTES

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2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.05C **ELECTRICAL - SECOND FLOOR ENLARGED LIGHTING PLAN C**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL - SECOND FLOOR ENLARGED LIGHTING PLAN C

Granite Run Apartments

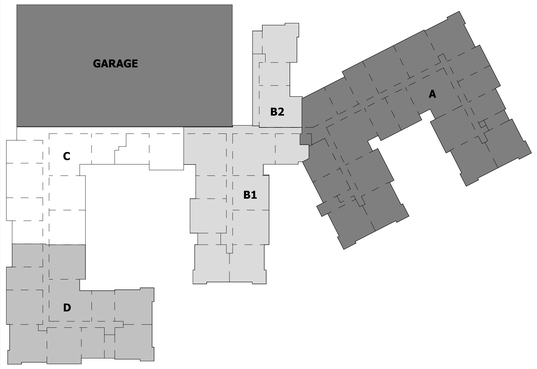
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SCALE:	AS INDICATED
DATE:	11/01/22

E3.05C

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LIGHTING CONTROL NOTES

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2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.05D **ELECTRICAL - SECOND FLOOR ENLARGED LIGHTING PLAN D**
1/8" = 1'-0"

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET GEOMATIC BUCKET PANCING SET	11/01/2022 12/20/2022

Project Status

ELECTRICAL - SECOND FLOOR ENLARGED LIGHTING PLAN D

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

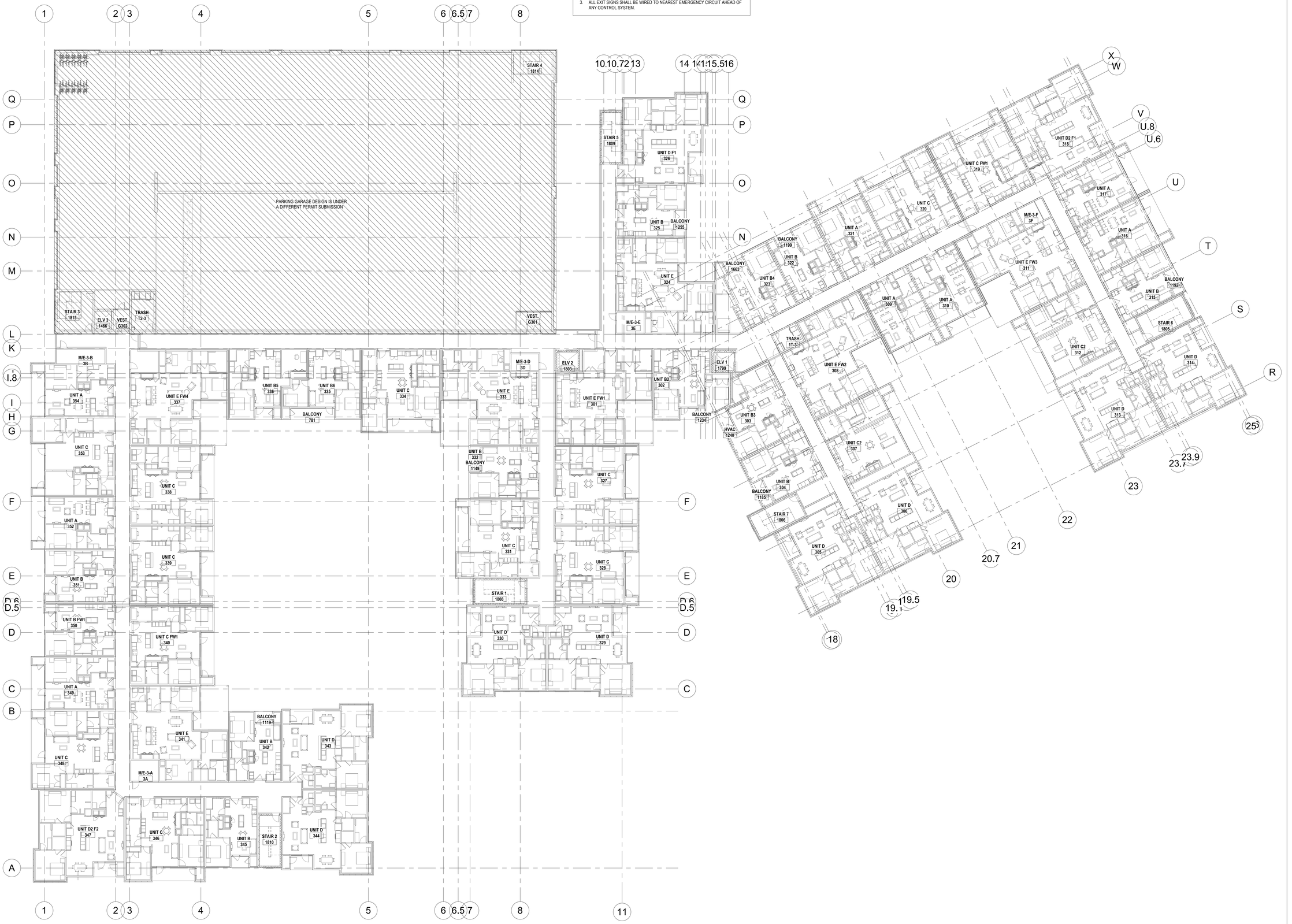
E3.05D

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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.06 **ELECTRICAL - THIRD FLOOR LIGHTING PLAN**
1/16" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/20/2022
	SCHEMATIC BUDGET PRICING SET	11/01/2022

Project Status

ELECTRICAL - THIRD FLOOR OVERALL LIGHTING PLAN

Granite Run Apartments

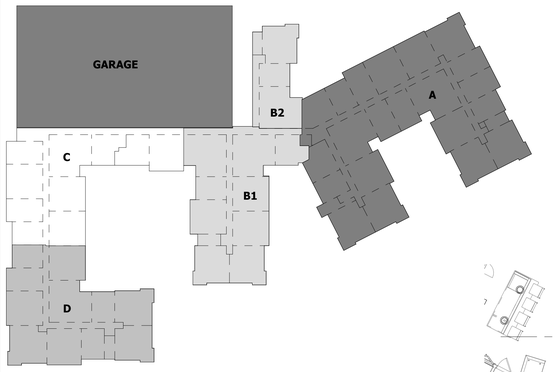
MIDDLETOWN TOWNSHIP, PA

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DATE:	11/01/22

E3.06

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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	11/01/2022
	SCHEMATIC BUDGET PRICING SET	12/20/2022

Project Status

ELECTRICAL - THIRD FLOOR ENLARGED LIGHTING PLAN A

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

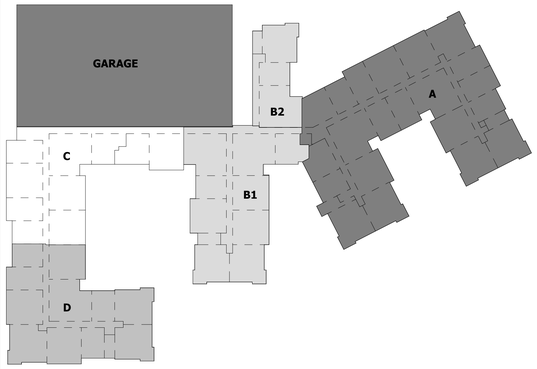
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DATE:	11/01/22

E3.06A

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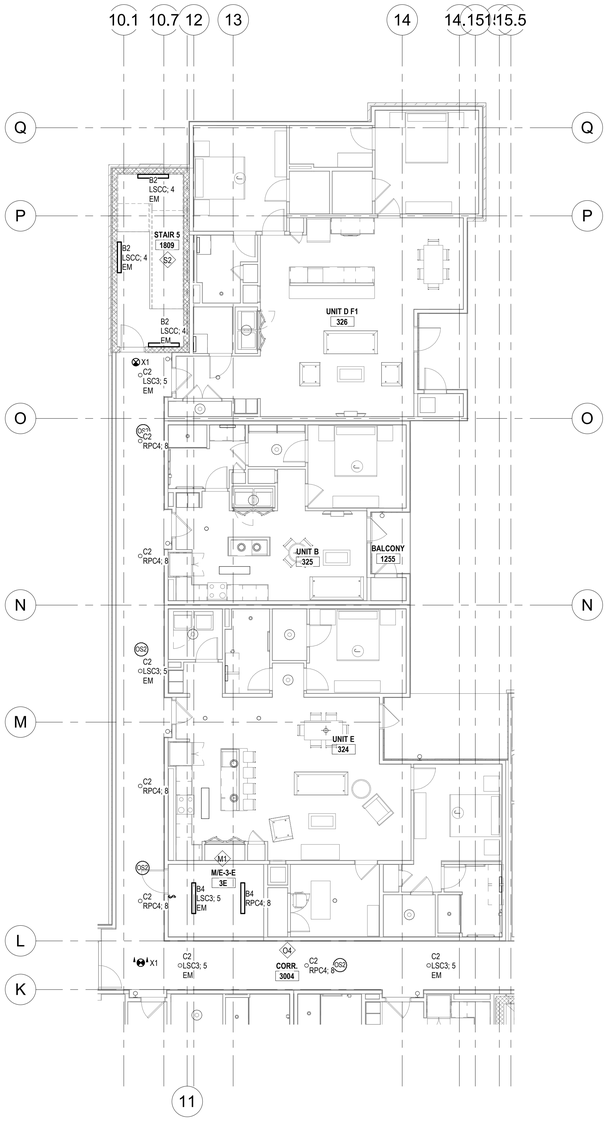
1 E3.06A ELECTRICAL - THIRD FLOOR ENLARGED LIGHTING PLAN A
1/8" = 1'-0"

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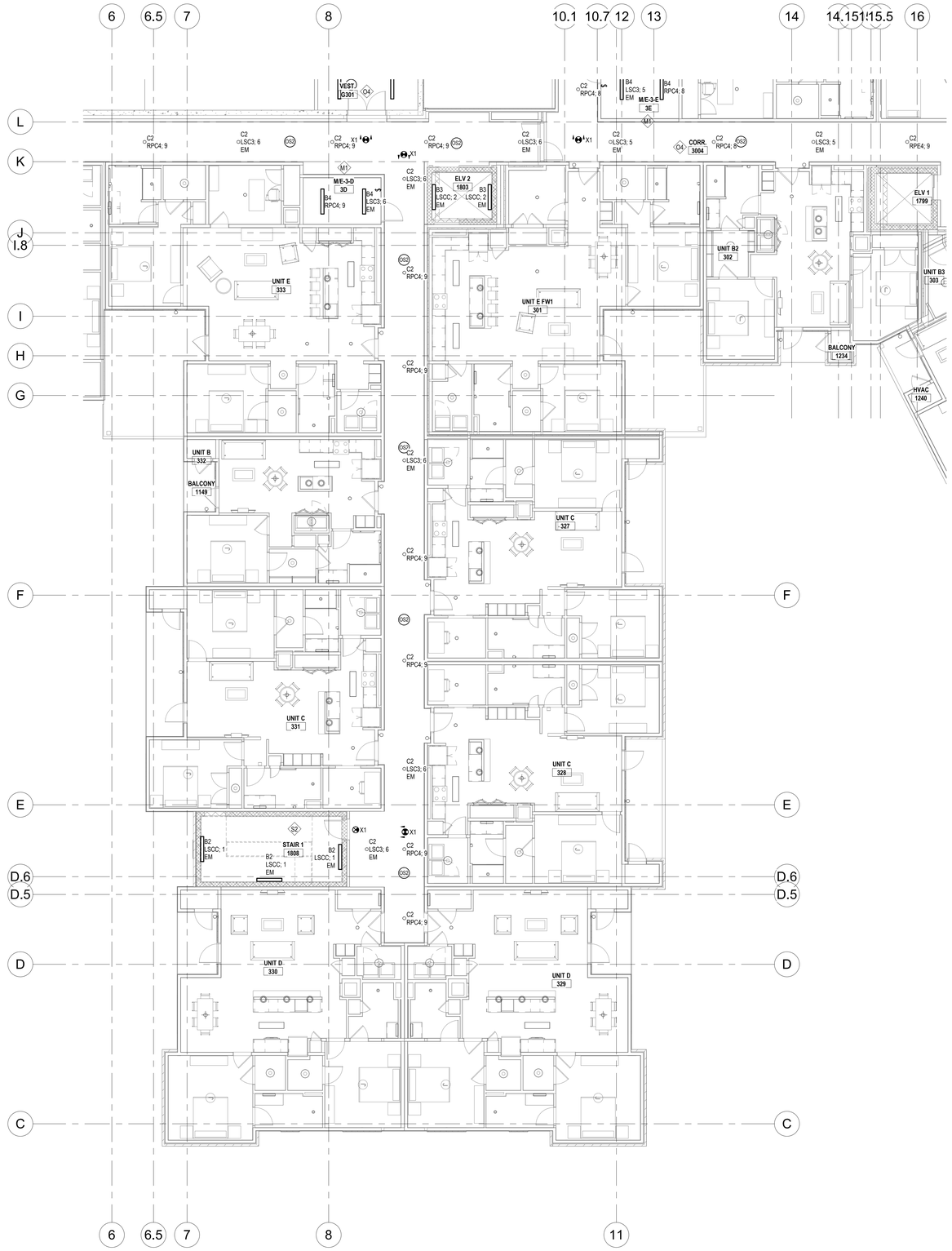


LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



2 E3.06B **ELECTRICAL - THIRD FLOOR ENLARGED LIGHTING PLAN B2**
1/8" = 1'-0"



1 E3.06B **ELECTRICAL - THIRD FLOOR ENLARGED LIGHTING PLAN B1**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL - THIRD FLOOR ENLARGED LIGHTING PLANS B

Granite Run Apartments

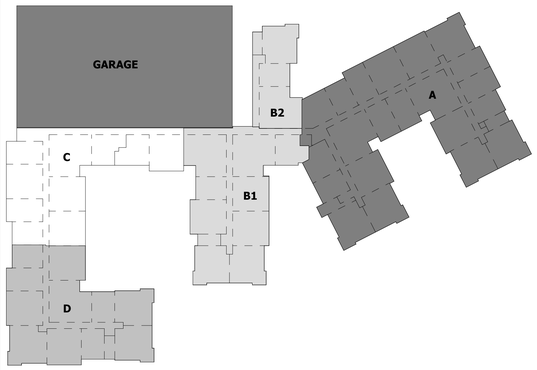
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E3.06B

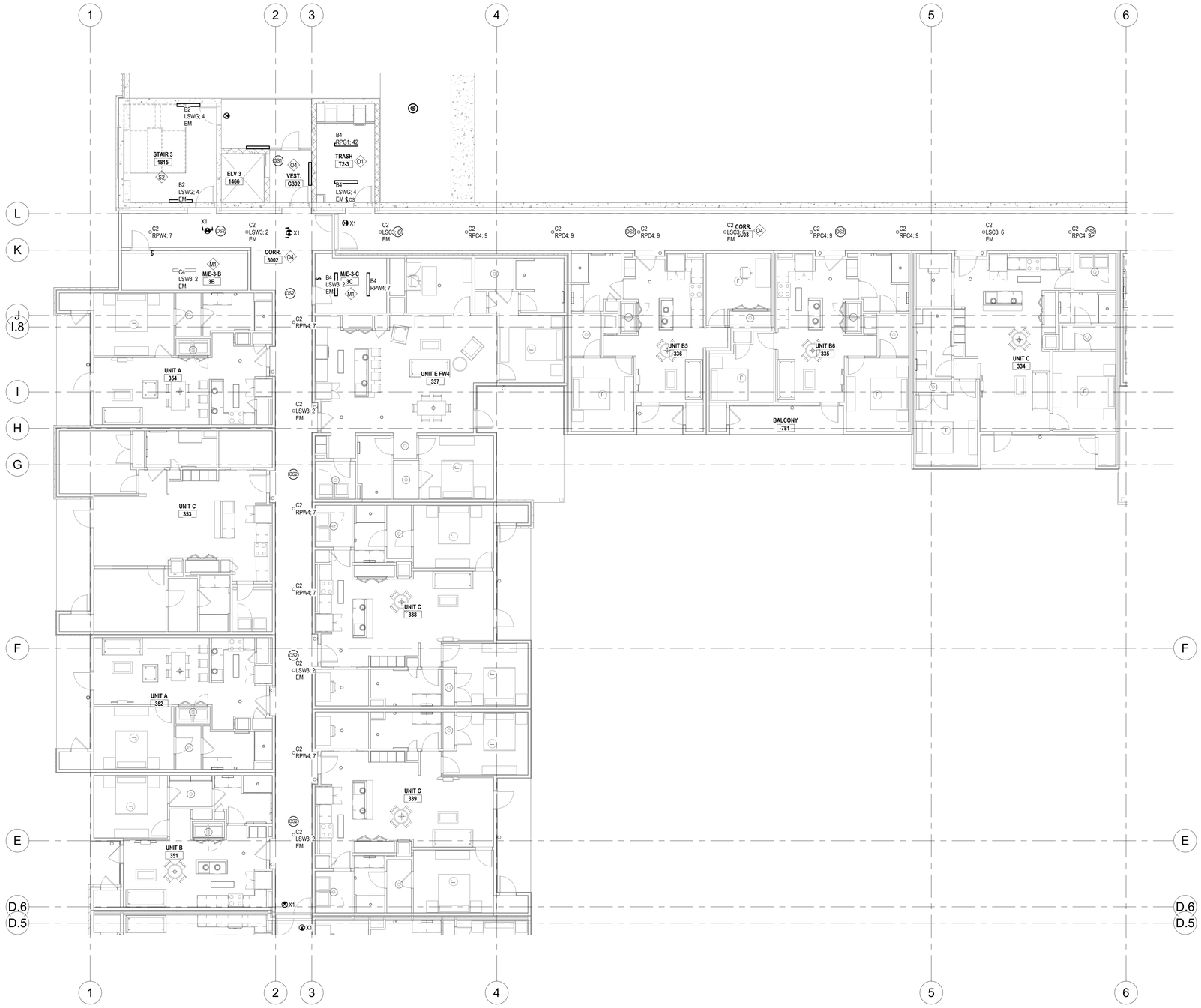
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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



E3.06C **ELECTRICAL - THIRD FLOOR ENLARGED LIGHTING PLAN C**
1/8" = 1'-0"

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	11/30/2022
	SCHEMATIC BUDGET PRICING SET	12/2/2022

Project Status

ELECTRICAL - THIRD FLOOR ENLARGED LIGHTING PLAN C

Granite Run Apartments

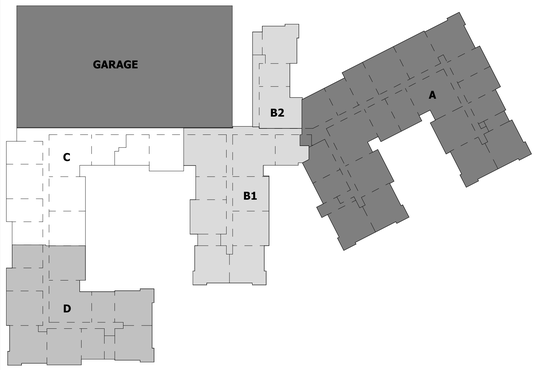
MIDDLETOWN TOWNSHIP, PA

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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.06D **ELECTRICAL - THIRD FLOOR ENLARGED LIGHTING PLAN D**
1/8" = 1'-0"

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NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL - THIRD FLOOR ENLARGED LIGHTING PLAN D

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 11/01/22

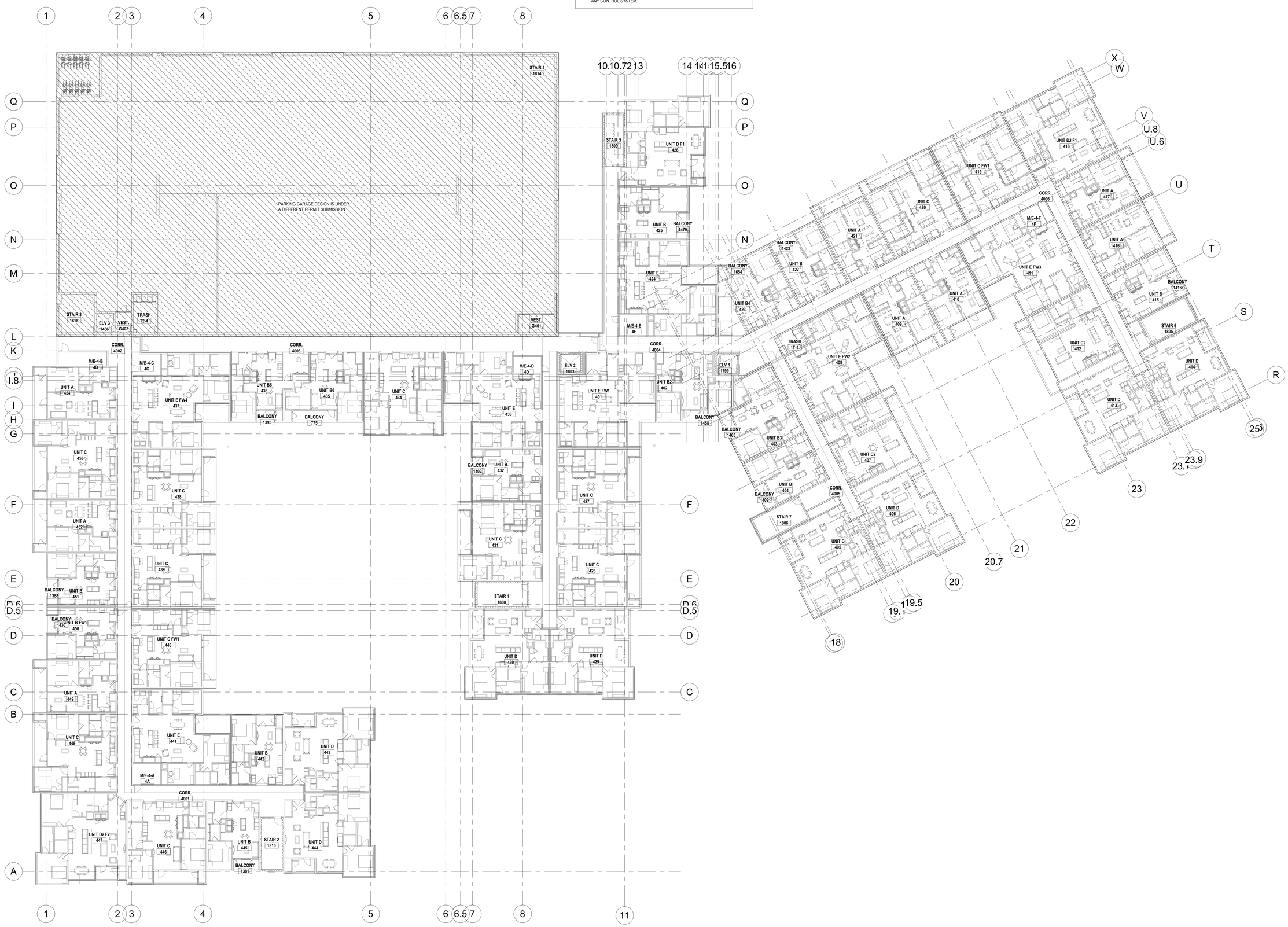
E3.06D

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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.07 **ELECTRICAL - FOURTH FLOOR LIGHTING PLAN**
1/16" = 1'-0"

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NO.	REVISION	DATE
1	PERMIT SET	11/01/2022
	SEPARATE BUDGET PRICING SET	12/2/2022

Project Status

ELECTRICAL - FOURTH FLOOR OVERALL LIGHING PLAN

Granite Run Apartments

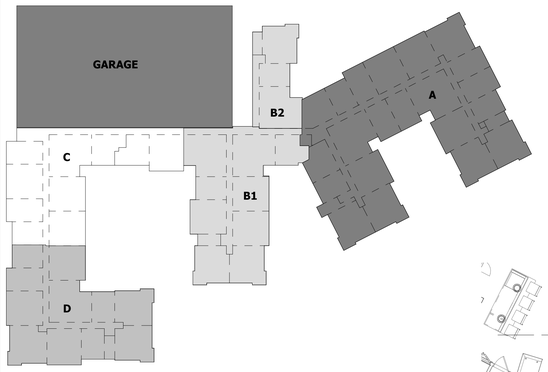
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SCALE:	AS INDICATED
DATE:	11/01/22

E3.07

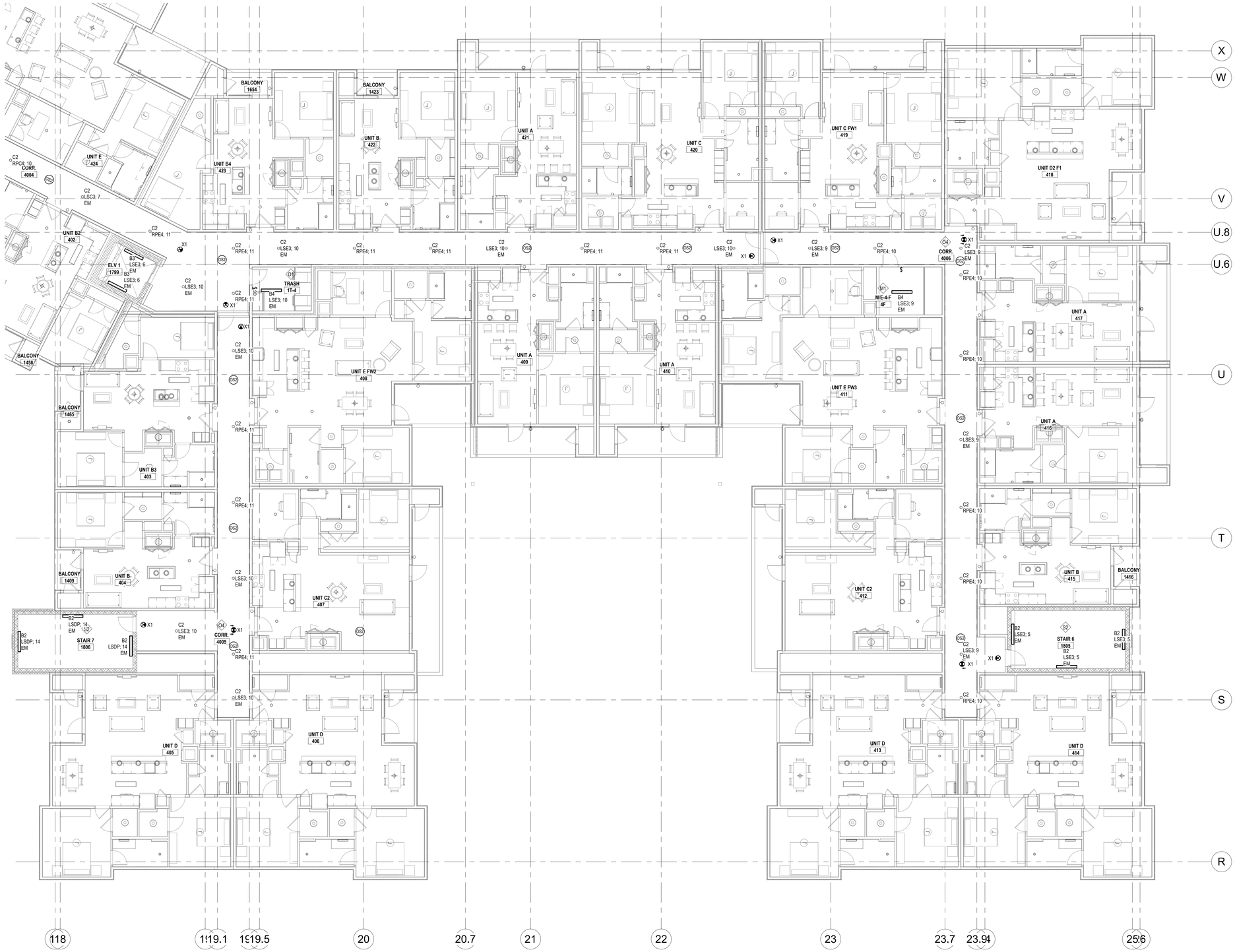
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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.07A **ELECTRICAL - FOURTH FLOOR ENLARGED LIGHTING PLAN A**
1/8" = 1'-0"

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/20/2022
	SCHEMATIC BUDGET PRICING SET	11/01/2022

Project Status

ELECTRICAL - FOURTH FLOOR ENLARGED LIGHTING PLAN A

Granite Run Apartments

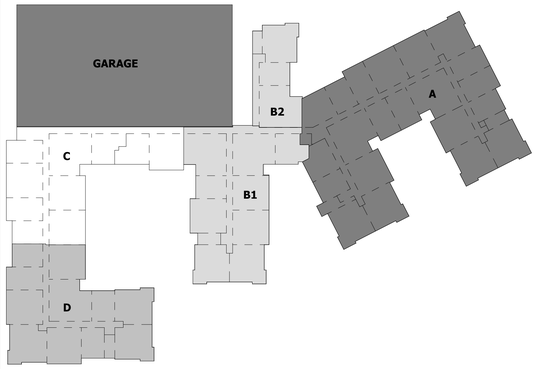
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E3.07A

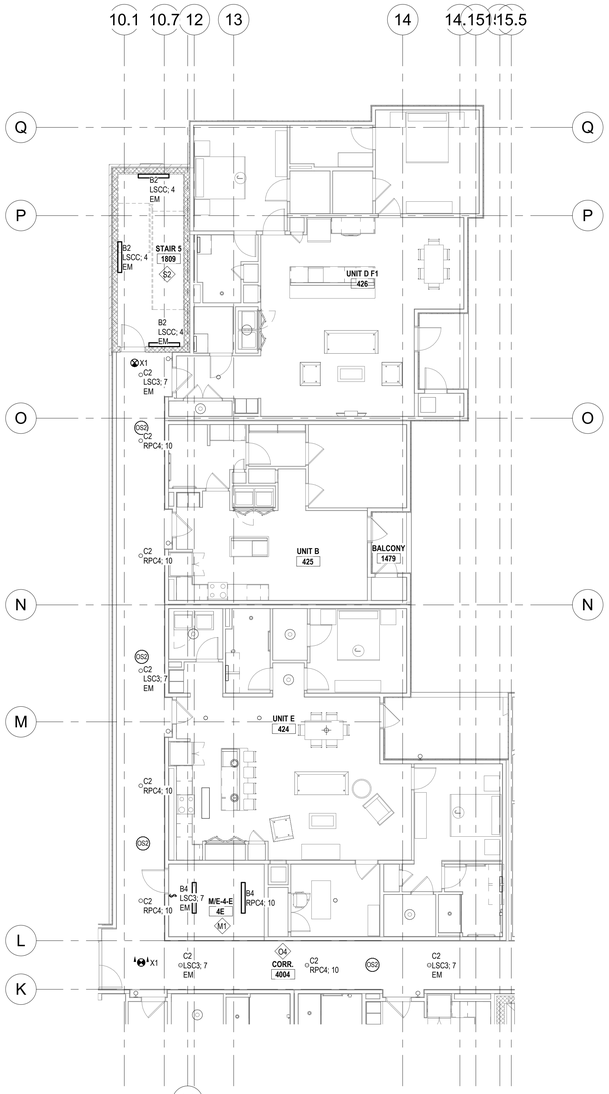
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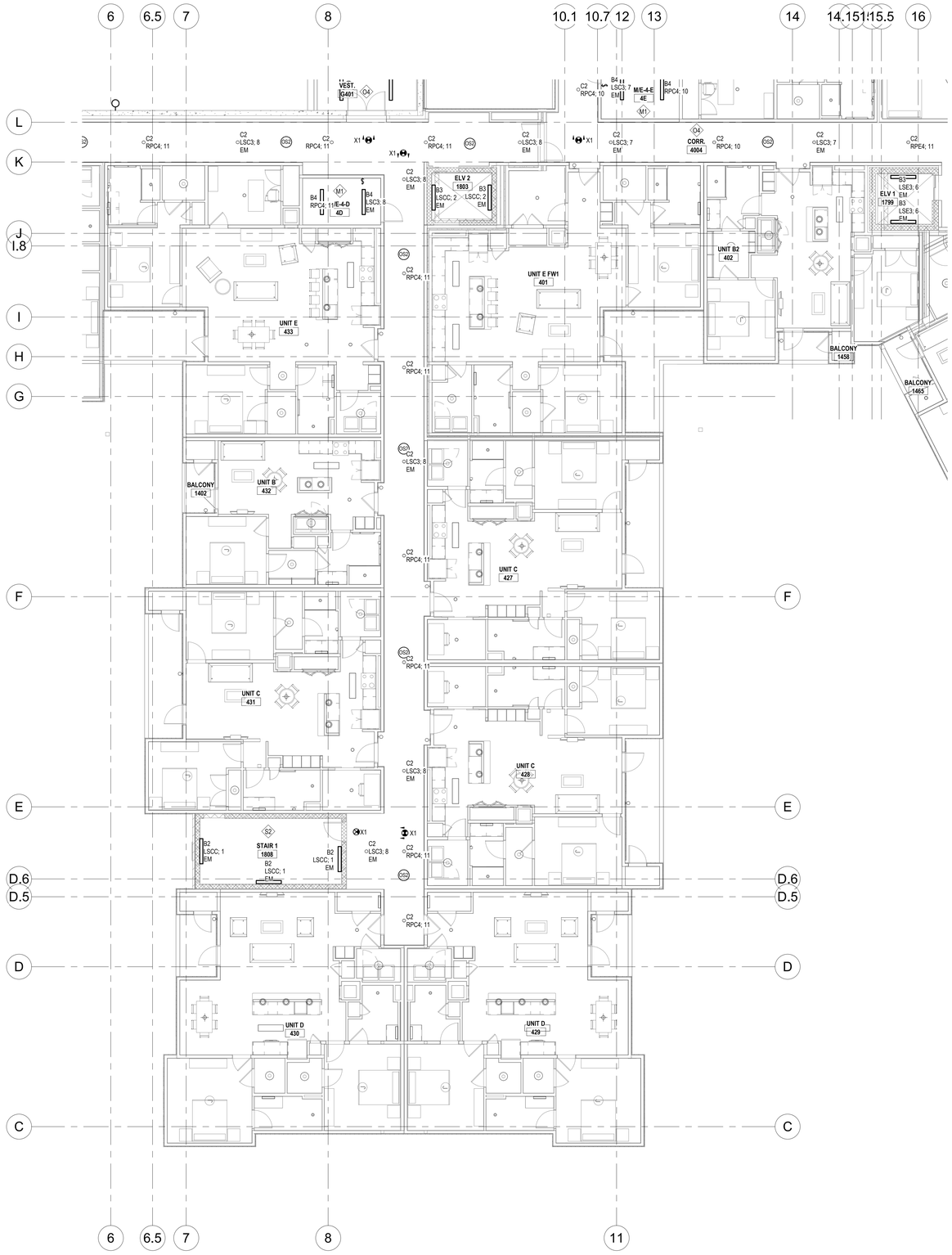


LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



3 E3.07B **ELECTRICAL - FOURTH FLOOR ENLARGED LIGHTING PLAN B2**
1/8" = 1'-0"



1 E3.07B **ELECTRICAL - FOURTH FLOOR ENLARGED LIGHTING PLAN B1**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/30/2022
	PERMIT SET	12/20/2022

Project Status

ELECTRICAL - FOURTH FLOOR ENLARGED LIGHTING PLANS B

Granite Run Apartments

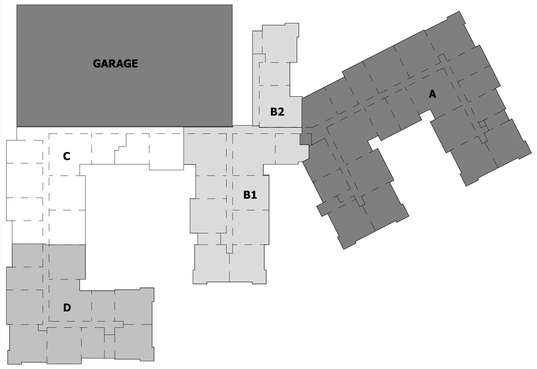
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E3.07B

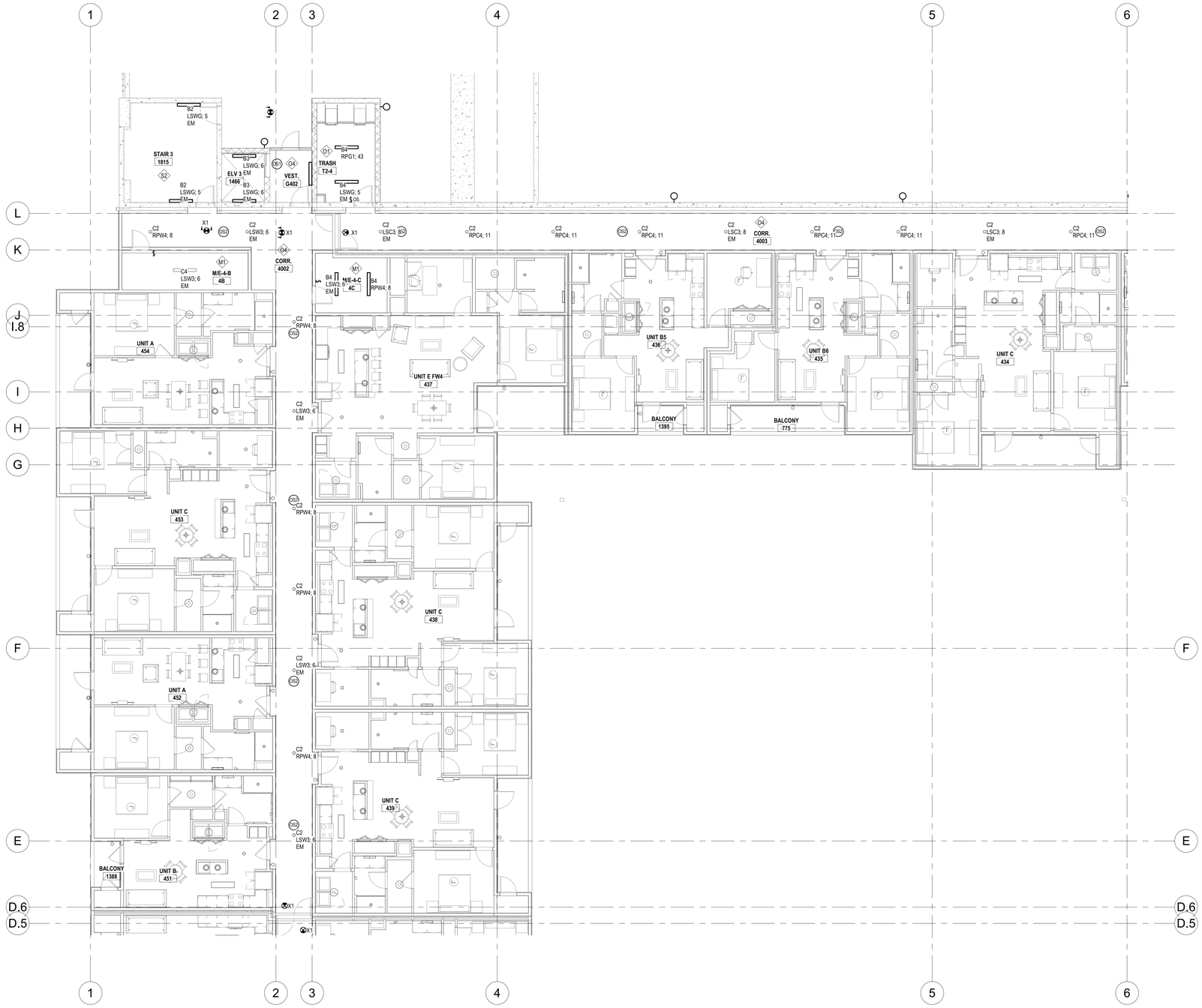
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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.07C **ELECTRICAL - FOURTH FLOOR ENLARGED LIGHTING PLAN C**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET PERMIT SET - BUCKET PRICING SET	11/01/2022 12/20/2022

Project Status

ELECTRICAL - FOURTH FLOOR ENLARGED LIGHTING PLAN C

Granite Run Apartments

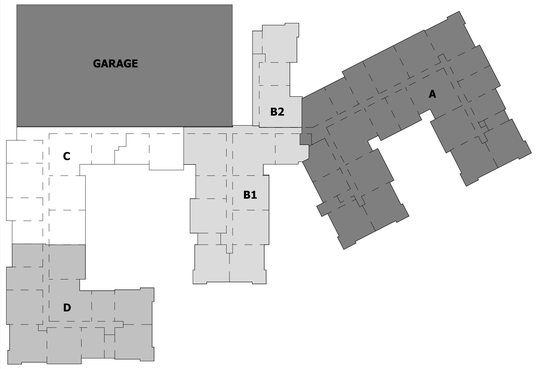
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E3.07C

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LIGHTING CONTROL NOTES

1. REFER TO GENERAL NOTES ON E0.01 AND E0.02.
2. REFER TO LIGHTING CONTROLS - SEQUENCE OF OPERATIONS ON E0.21.
3. ALL EXIT SIGNS SHALL BE WIRED TO NEAREST EMERGENCY CIRCUIT AHEAD OF ANY CONTROL SYSTEM.



1 E3.07D **ELECTRICAL - FOURTH FLOOR ENLARGED LIGHTING PLAN D**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	12/20/2022
	SCHEMATIC BUDGET PRICING SET	11/01/2022

Project Status

ELECTRICAL - FOURTH FLOOR ENLARGED LIGHTING PLAN D

Granite Run Apartments

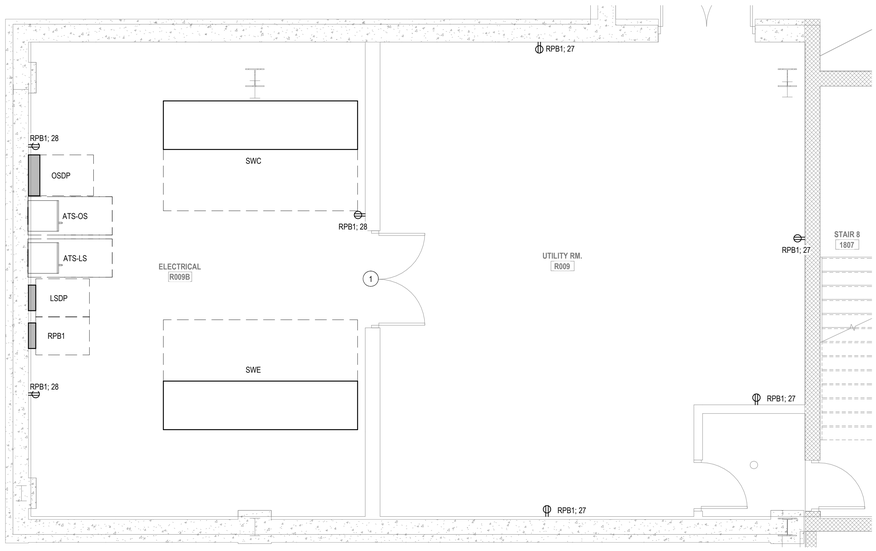
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E3.07D

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1 / E4.01 **ENLARGED UTILITY RM 1403**
1/4" = 1'-0"

ELECTRICAL GENERAL NOTES

1. REFER TO SHEETS E0.01 AND E0.02 FOR ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. 120V, 20A BRANCH WIRING THAT EXCEEDS 100 FEET SHALL BE 2#10+1#10G.
3. PROVIDE & INSTALL ALL RACEWAYS, BOXES, CABLE TRAY, LADDER RACK, POKE THRUS AND FLOOR CORES AS REQUIRED BY THE CABLING INDICATED ON THE TELECOM, SECURITY, AND AV DRAWINGS.
4. PROVIDE & INSTALL GROUNDING & BONDING OF ALL LOW VOLTAGE SYSTEM RACK, CABINETS, CABLE TRAYS, LADDER RACKS, AND BUS BARS.
5. PROVIDE & INSTALL ALL CHIEF BOXES AS INDICATED/REQUIRED BY THE AV DESIGN.
6. REFER TO MECHANICAL & PLUMBING EQUIPMENT SCHEDULES FOR THE ASSOCIATED ELECTRICAL REQUIREMENTS.
7. PROVIDE A DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT THAT IS NOT FURNISHED WITH A DISCONNECTING MEANS.

ELECTRICAL SHEET NOTES (#)

1. ELECTRICAL ROOM EGRESS DOOR SHALL BE EQUIP WITH LISTED PANIC HARDWARE PER NEC 110.26 (C)(3), COORDINATE WITH ARCHITECT/DOOR HARDWARE

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JAMES T. GRIFFIN

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
	SCHEMATIC BUDGET PRICING SET	11/07/2022
1	PERMIT SET	12/20/202

Project Status

ENLARGED ELECTRICAL ROOMS

Granite Run Apartments

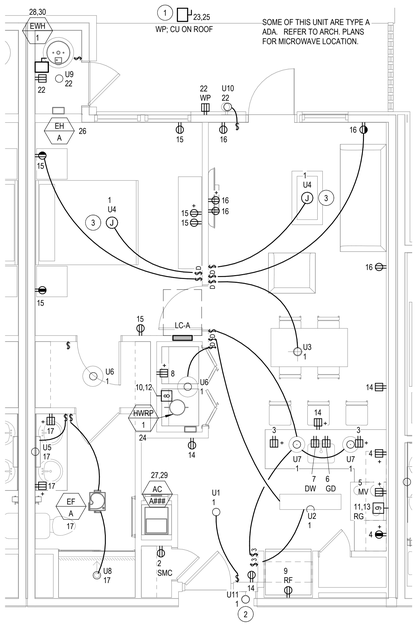
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

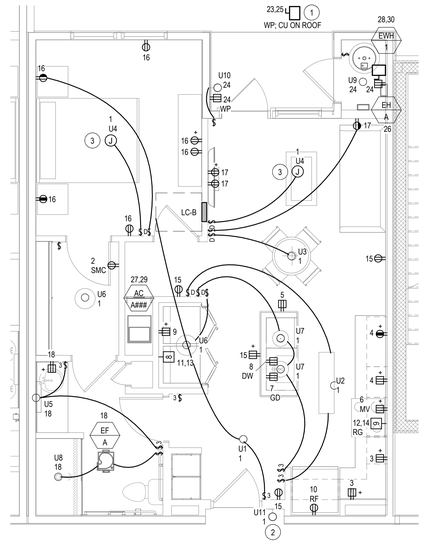
E4.01

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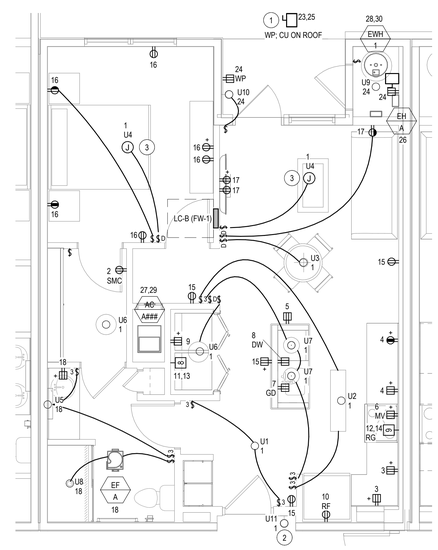
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1 E6.01 **ELECTRICAL - UNIT - A PLAN**
1/4" = 1'-0"



2 E6.01 **ELECTRICAL - UNIT - B PLAN**
1/4" = 1'-0"



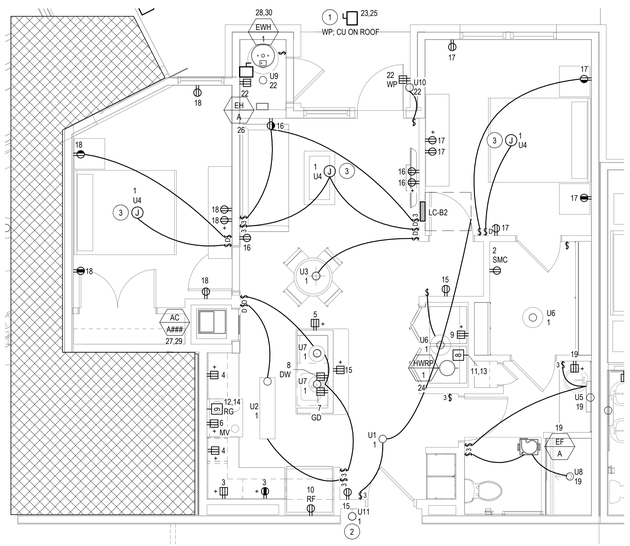
3 E6.01 **ELECTRICAL - UNIT - B (FW-1) PLAN**
1/4" = 1'-0"

ELECTRICAL UNIT PLAN NOTES

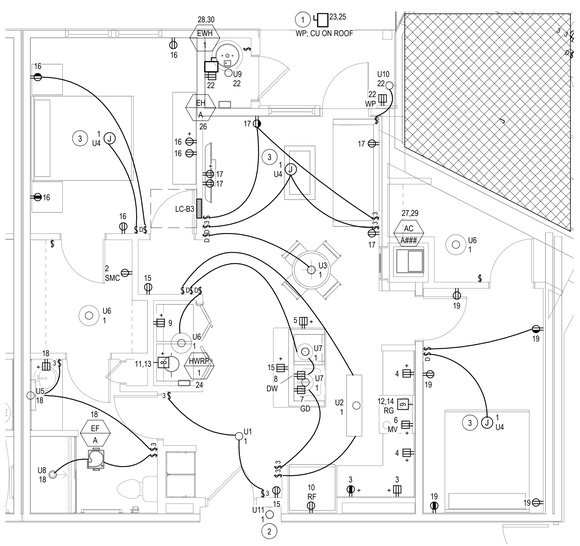
1. REFER TO ARCHITECT DRAWINGS FOR FIXTURE TYPES AND SCHEDULES.
2. ALL ELECTRICAL FIXTURES AND EQUIPMENT IN EACH UNIT WILL BE CIRCUITED TO A DESIGNATED UNIT LOAD CENTER.
3. ALL RECEPTACLES WITHIN UNITS SHALL BE TAMPER-RESISTANT TYPE.
4. REFER TO DRAWINGS E001 AND E002 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
5. ALL ABOVE COUNTER MOUNTED RECEPTACLES SHALL BE MOUNTED WITH RECEPTACLE COVER BOTTOM 2" ABOVE THE COUNTER BACK-SPLASH AND SHALL BE MOUNTED IN HORIZONTAL ORIENTATION.
6. FIRE ALARM NOTIFICATION STROBE CIRCUIT CAPACITY TO BE PROVIDED TO ACCOMMODATE FUTURE CONVERSION OF ANY GIVEN APARTMENT TO A 'HEARING IMPAIRED UNIT'. PROVIDE A 4" SQ. ELECTRICAL BOX WITH A BLANK PLATE IN EACH DWELLING UNIT LAUNDRY ROOM LABELED: "FUTURE FIRE ALARM STROBE CIRCUIT". EXTEND A DEDICATED NAC FROM THE STROBE POWER SUPPLY TO EACH DWELLING, LEAVING A 12" UN-CUT LOOP IN EACH ELECTRICAL BOX. THE WIRE SIZES AND CIRCUITS SHALL BE CALCULATED TO SUPPORT EXPANSION OF THE SYSTEM WITH ADDITIONAL STROBES. VISIBLE APPLIANCES, CONNECTIONS TO THE SYSTEM SMOKE DETECTORS, AND ADDITIONAL FIRE ALARM EQUIPMENT (NAC PANELS, SUPPLIES, BATTERIES, ETC.) NECESSARY FOR FUTURE EXPANSION NEED NOT TO BE INSTALLED UNTIL VISIBLE APPLIANCES ARE DEEMED NECESSARY BY THE OWNER.
7. FOR ALL OUTLET BOXES (SWITCH, RECEPTACLE, F/A, ETC.), PROVIDE A MINIMUM OF 6" SEPARATION OF OUTLET BOXES LOCATED BACK TO BACK IN WALLS, EXCEPT PROVIDE A MINIMUM OF 24 INCHES SEPARATION FROM OUTLETS IN ADJACENT UNITS IN WALLS SEPARATING UNITS TO PREVENT SOUND TRANSMISSION.
8. REFER TO ARCHITECTURAL PLANS FOR ADA ACCESSIBLE UNIT TYPES, QUANTITIES AND LOCATIONS. IN ADA ACCESSIBLE UNITS, POWER SHALL BE PROVIDED TO RANGE HOOD FAN AND LIGHT WITH ADA ACCESSIBLE SWITCH. RANGE HOOD SHALL BE CONNECTED TO SMALL APPLIANCE CIRCUIT. PROVIDE DEDICATED COUNTER MOUNTED MICROWAVE RECEPTACLE.
9. SWITCHED RECEPTACLES SHALL BE SPLIT TO HAVE 1 OUTLET SWITCHED AND 1 OUTLET UNSWITCHED.
10. USB RECEPTACLE AT COUNTER SHALL BE CIRCUITED DOWNSTREAM OF GFI RECEPTACLE AT COUNTER.
11. RECEPTACLE ABBREVIATIONS
    - A. SMC = STRUCTURED MEDIA CABINET.
    - B. RG = ELECTRIC RANGE
    - C. MV = MICROWAVE
    - D. DW = DISHWASHER
    - E. GD = GARAGE DISPOSAL WITH AIR BUTTON SWITCH
    - F. + = ABOVE STANDARD MOUNTING HEIGHT
    - G. RF = REFRIGERATOR
    - H. DO = DOUBLE OVEN
    - I. FZ = FREEZER
    - J. IM = ICE MAKER

ELECTRICAL SHEET NOTES (#)

1. DISCONNECT SWITCH SHALL BE LOCATED ON ROOF, COORDINATE EXACT LOCATION WITH MC.
2. LIGHT FIXTURE SHALL BE UNCONTROLLED AND POWERED THRU UNIT LOAD CENTER.
3. PROVIDE ADDITIONAL WIRE AND CONTROL TO ACCOUNT FOR FAN.



4 E6.01 **ELECTRICAL - UNIT - B2 PLAN**
1/4" = 1'-0"



5 E6.01 **ELECTRICAL - UNIT - B3 PLAN**
1/4" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	11/01/2022
	SUBMIT FOR BUDGET PRICING SET	12/20/2022

Project Status

ELECTRICAL - UNIT PLANS

Granite Run Apartments

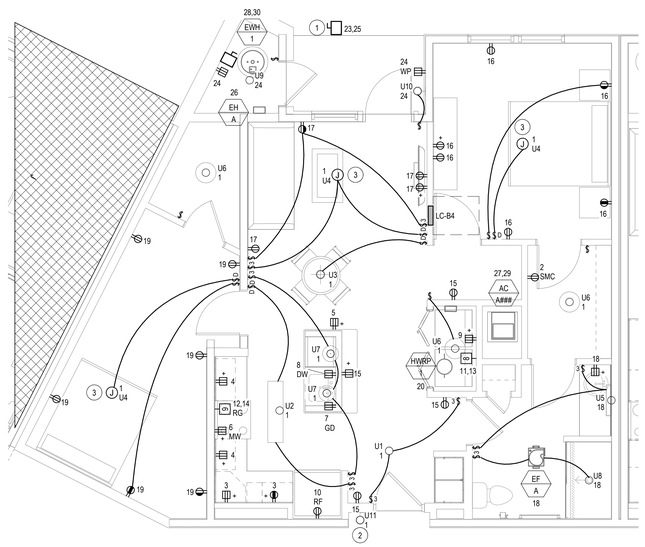
MIDDLETOWN TOWNSHIP, PA

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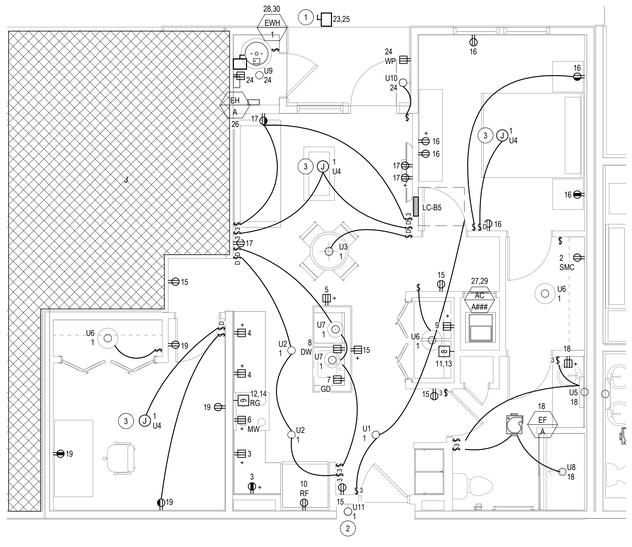
E6.01

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1 E6.02 **ELECTRICAL - UNIT - B4 PLAN**
1/4" = 1'-0"



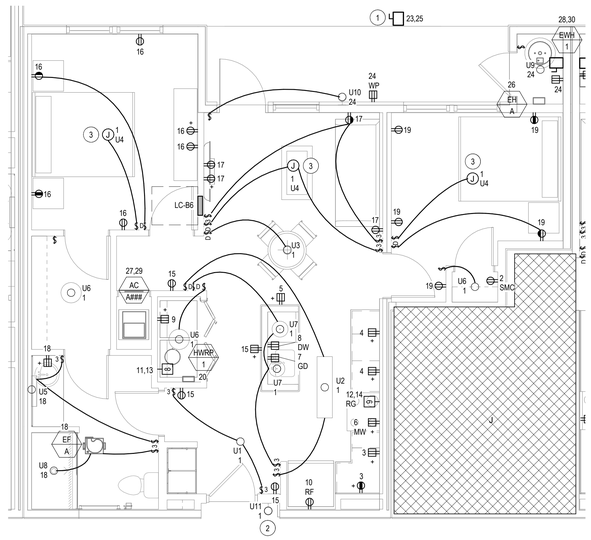
2 E6.02 **ELECTRICAL - UNIT - B5 PLAN**
1/4" = 1'-0"

ELECTRICAL UNIT PLAN NOTES

1. REFER TO ARCHITECT DRAWINGS FOR FIXTURE TYPES AND SCHEDULES.
2. ALL ELECTRICAL FIXTURES AND EQUIPMENT IN EACH UNIT WILL BE CIRCUITED TO A DESIGNATED UNIT LOAD CENTER.
3. ALL RECEPTACLES WITHIN UNITS SHALL BE TAMPER-RESISTANT TYPE.
4. REFER TO DRAWINGS E001 AND E002 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
5. ALL ABOVE COUNTER MOUNTED RECEPTACLES SHALL BE MOUNTED WITH RECEPTACLE COVER BOTTOM 2" ABOVE THE COUNTER BACK-SPLASH AND SHALL BE MOUNTED IN HORIZONTAL ORIENTATION.
6. FIRE ALARM NOTIFICATION STROBE CIRCUIT CAPACITY TO BE PROVIDED TO ACCOMMODATE FUTURE CONVERSION OF ANY GIVEN APARTMENT TO A 'HEARING IMPAIRED UNIT'. PROVIDE A 4" SQ. ELECTRICAL BOX WITH A BLANK PLATE IN EACH DWELLING UNIT LAUNDRY ROOM LABELED: "FUTURE FIRE ALARM STROBE CIRCUIT". EXTEND A DEDICATED NAC FROM THE STROBE POWER SUPPLY TO EACH DWELLING, LEAVING A 12" UN-CUT LOOP IN EACH ELECTRICAL BOX. THE WIRE SIZES AND CIRCUITS SHALL BE CALCULATED TO SUPPORT EXPANSION OF THE SYSTEM WITH ADDITIONAL STROBES. VISIBLE APPLIANCES, CONNECTIONS TO THE SYSTEM SMOKE DETECTORS, AND ADDITIONAL FIRE ALARM EQUIPMENT (NAC PANELS, SUPPLIES, BATTERIES, ETC.) NECESSARY FOR FUTURE EXPANSION NEED NOT TO BE INSTALLED UNTIL VISIBLE APPLIANCES ARE DEEMED NECESSARY BY THE OWNER.
7. FOR ALL OUTLET BOXES (SWITCH, RECEPTACLE, F/A, ETC.), PROVIDE A MINIMUM OF 6" SEPARATION OF OUTLET BOXES LOCATED BACK TO BACK IN WALLS, EXCEPT PROVIDE A MINIMUM OF 24 INCHES SEPARATION FROM OUTLETS IN ADJACENT UNITS IN WALLS SEPARATING UNITS TO PREVENT SOUND TRANSMISSION.
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ELECTRICAL SHEET NOTES (#)

1. DISCONNECT SWITCH SHALL BE LOCATED ON ROOF, COORDINATE EXACT LOCATION WITH MC.
2. LIGHT FIXTURE SHALL BE UNCONTROLLED AND POWERED THRU UNIT LOAD CENTER.
3. PROVIDE ADDITIONAL WIRE AND CONTROL TO ACCOUNT FOR FAN.



3 E6.02 **ELECTRICAL - UNIT - B6 PLAN**
1/4" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET	11/01/2022
	SCHEMATIC BUDGET PRICING SET	12/20/2022

Project Status

ELECTRICAL - UNIT PLANS

Granite Run Apartments

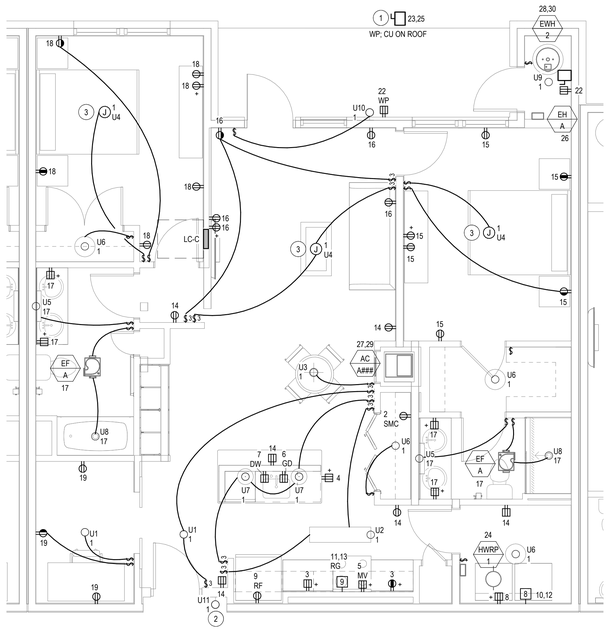
MIDDLETOWN TOWNSHIP, PA

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DATE:	11/01/22

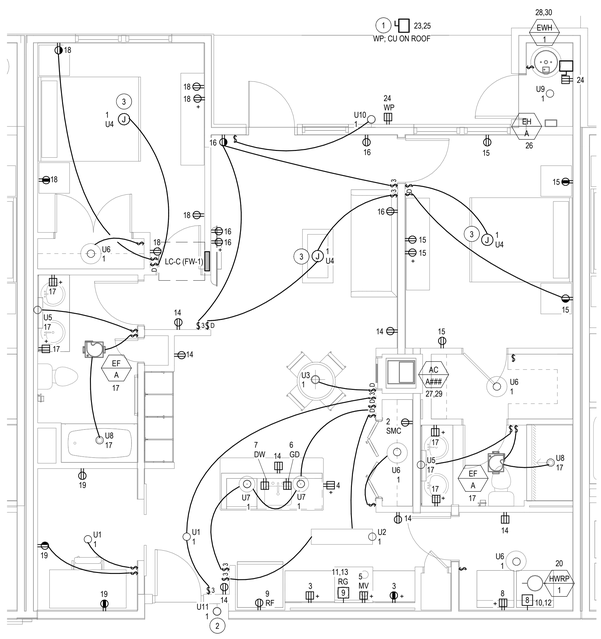
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1 E6.03 **ELECTRICAL - UNIT - C PLAN**
1/4" = 1'-0"



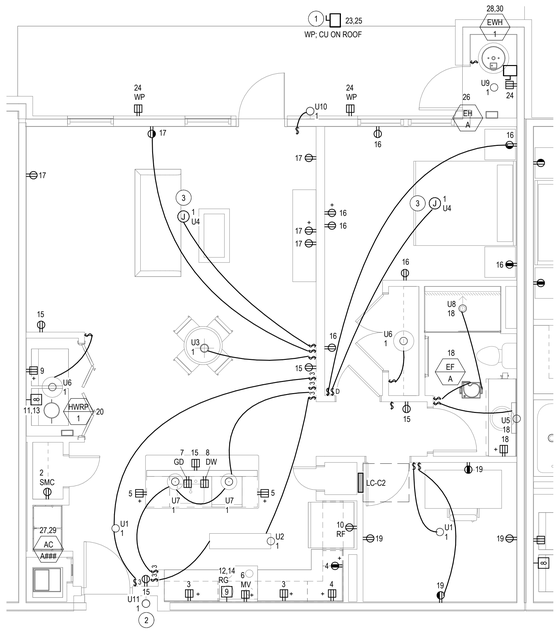
2 E6.03 **ELECTRICAL - UNIT - C (FW-1) PLAN**
1/4" = 1'-0"

ELECTRICAL UNIT PLAN NOTES

1. REFER TO ARCHITECT DRAWINGS FOR FIXTURE TYPES AND SCHEDULES.
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ELECTRICAL SHEET NOTES (#)

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3. PROVIDE ADDITIONAL WIRE AND CONTROL TO ACCOUNT FOR FAN.



3 E6.03 **ELECTRICAL - UNIT - C2 PLAN**
1/4" = 1'-0"

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Project Status

ELECTRICAL - UNIT PLANS

Granite Run Apartments

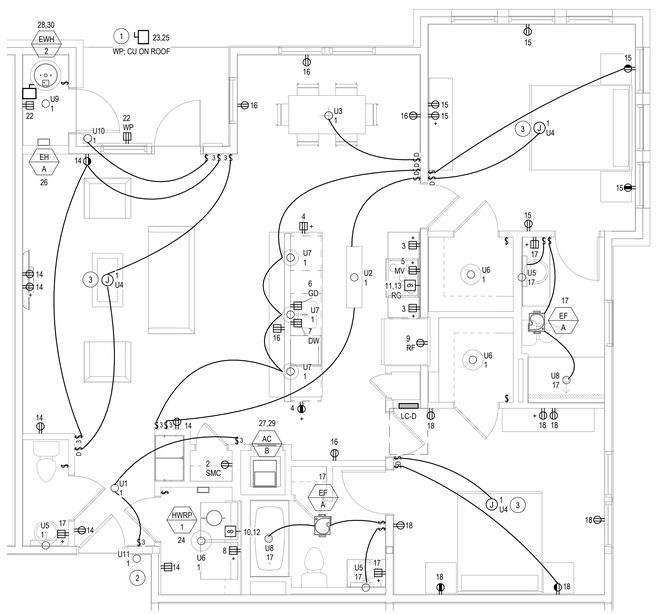
MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

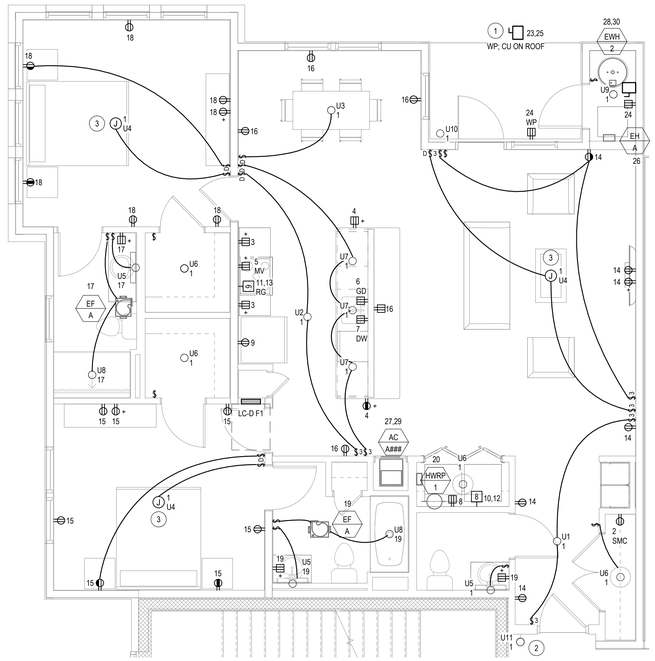
E6.03

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1 E6.04 **ELECTRICAL - UNIT - D PLAN**
1/4" = 1'-0"



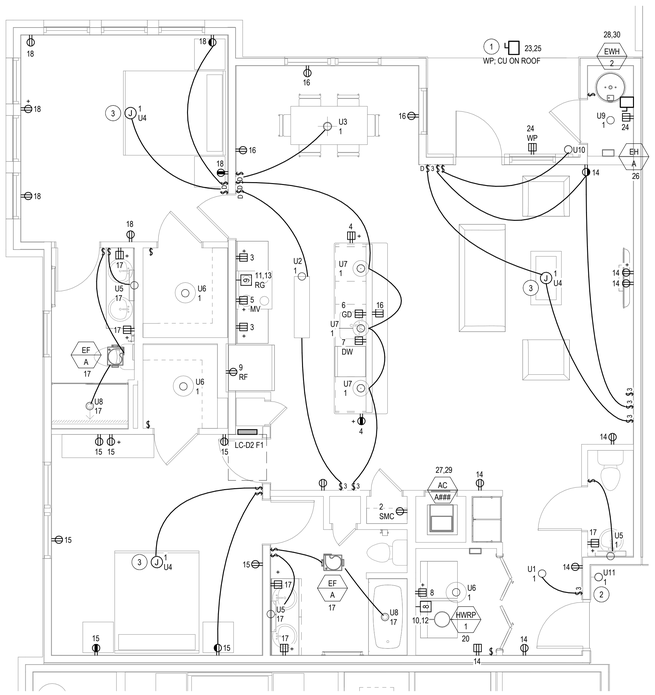
2 E6.04 **ELECTRICAL - UNIT - D - F1 (ALT. FOYER) PLAN**
1/4" = 1'-0"

ELECTRICAL UNIT PLAN NOTES

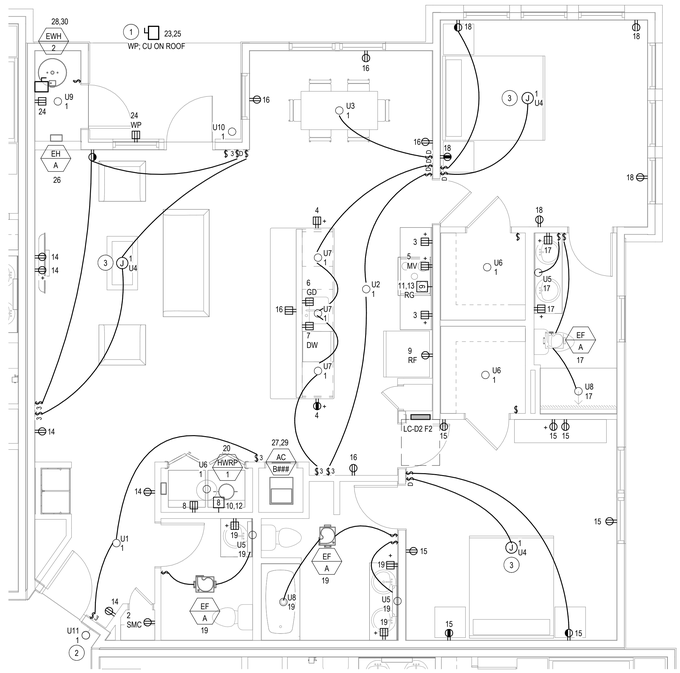
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8. REFER TO ARCHITECTURAL PLANS FOR ADA ACCESSIBLE UNIT TYPES, QUANTITIES AND LOCATIONS. IN ADA ACCESSIBLE UNITS, POWER SHALL BE PROVIDED TO RANGE HOOD FAN AND LIGHT WITH ADA ACCESSIBLE SWITCH. RANGE HOOD SHALL BE CONNECTED TO SMALL APPLIANCE CIRCUIT. PROVIDE DEDICATED COUNTER MOUNTED MICROWAVE RECEPTACLE.
9. SWITCHED RECEPTACLES SHALL BE SPLIT TO HAVE 1 OUTLET SWITCHED AND 1 OUTLET UNSWITCHED.
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    - G. RF = REFRIGERATOR
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    - I. FZ = FREEZER
    - J. IM = ICE MAKER

ELECTRICAL SHEET NOTES (#)

1. DISCONNECT SWITCH SHALL BE LOCATED ON ROOF, COORDINATE EXACT LOCATION WITH MC.
2. LIGHT FIXTURE SHALL BE UNCONTROLLED AND POWERED THRU UNIT LOAD CENTER.
3. PROVIDE ADDITIONAL WIRE AND CONTROL TO ACCOUNT FOR FAN.



3 E6.04 **ELECTRICAL - UNIT - D2 - F1 PLAN**
1/4" = 1'-0"



4 E6.04 **ELECTRICAL - UNIT - D2 - F2 (ALT. FOYER) PLAN**
1/4" = 1'-0"

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P.A.:	JTG
P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET - DIAMATIC BUDGET PRICING SET	11/30/2022 12/20/2022

Project Status

ELECTRICAL - UNIT PLANS

Granite Run Apartments

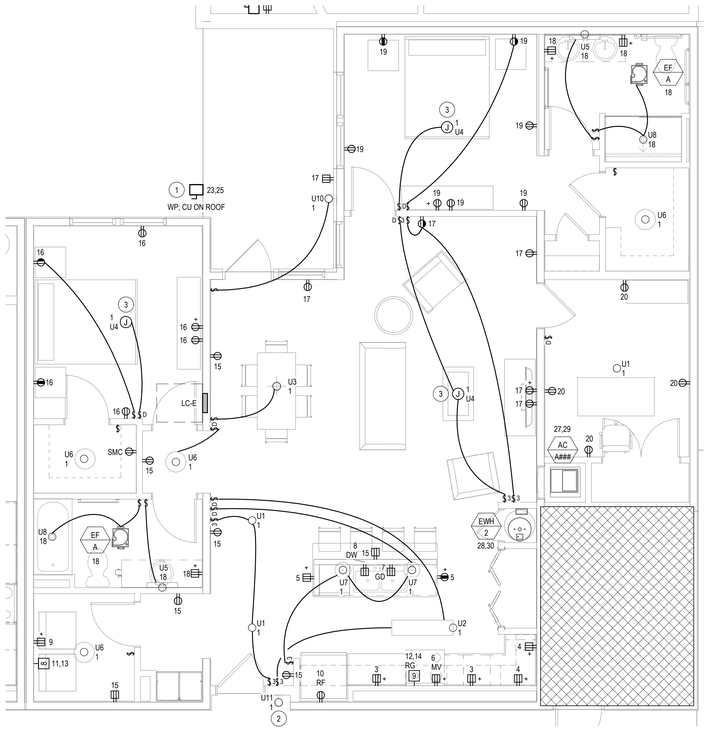
MIDDLETOWN TOWNSHIP, PA

SCALE: AS INDICATED
DATE: 11/01/22

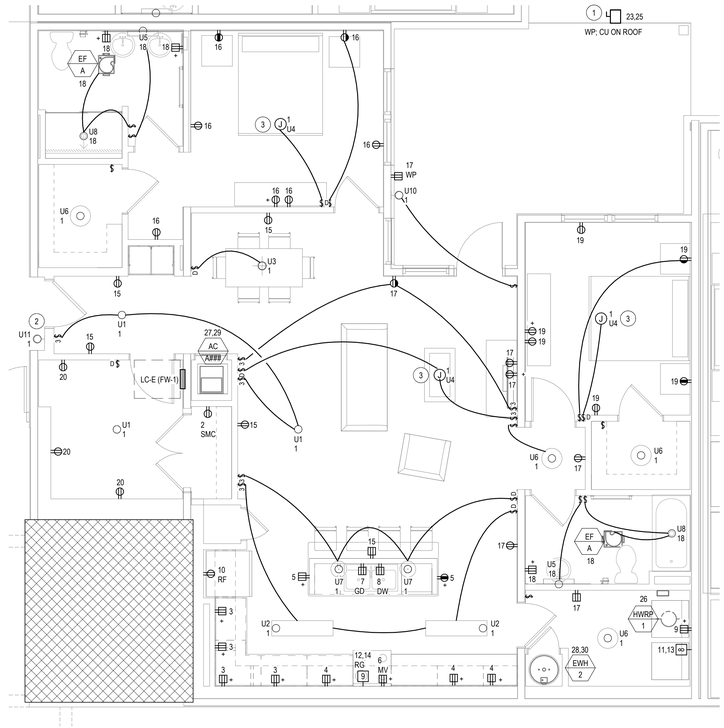
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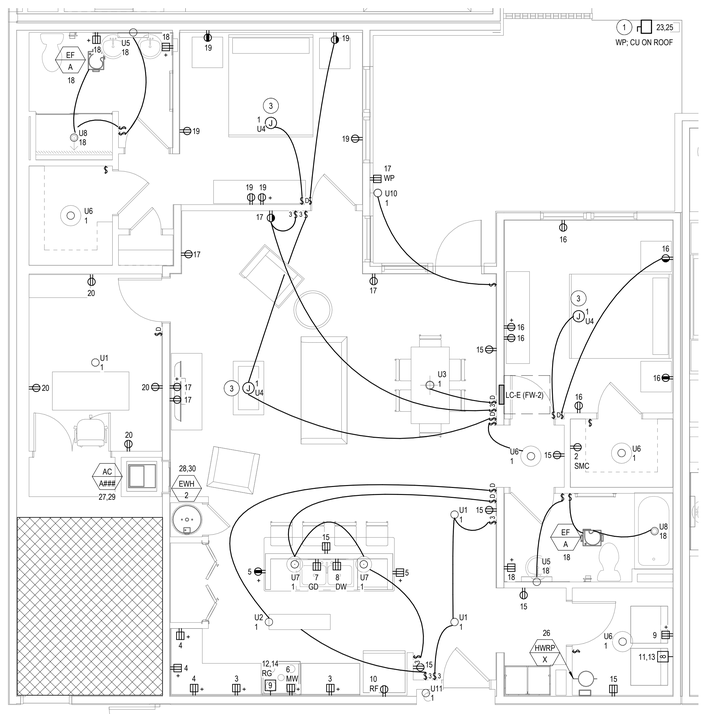
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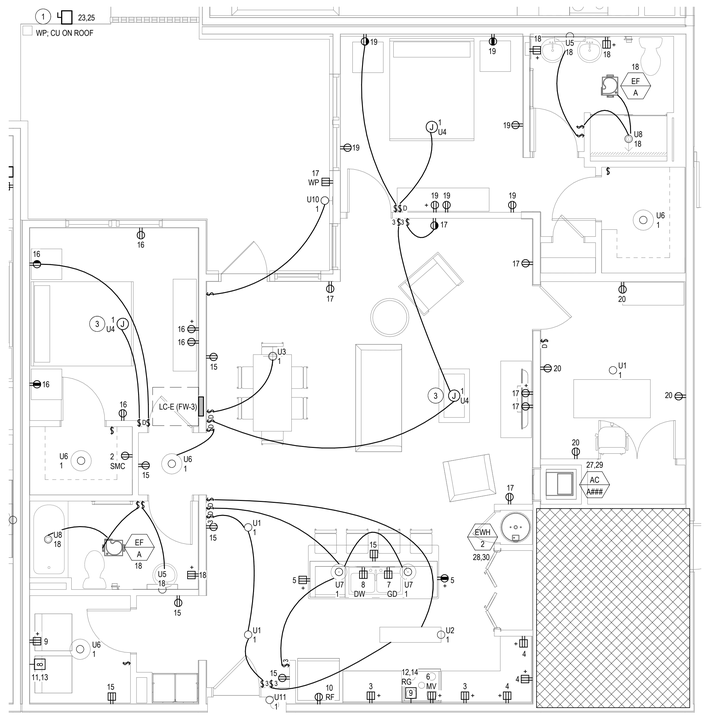
1 E6.05 **ELECTRICAL - UNIT - E PLAN**
1/4" = 1'-0"



2 E6.05 **ELECTRICAL - UNIT - E (FW-1) PLAN**
1/4" = 1'-0"



3 E6.05 **ELECTRICAL - UNIT - E (FW-2) PLAN**
1/4" = 1'-0"



4 E6.05 **ELECTRICAL - UNIT - E (FW-3) PLAN**
1/4" = 1'-0"

ELECTRICAL UNIT PLAN NOTES

1. REFER TO ARCHITECT DRAWINGS FOR FIXTURE TYPES AND SCHEDULES.
2. ALL ELECTRICAL FIXTURES AND EQUIPMENT IN EACH UNIT WILL BE CIRCUITED TO A DESIGNATED UNIT LOAD CENTER.
3. ALL RECEPTACLES WITHIN UNITS SHALL BE TAMPER-RESISTANT TYPE.
4. REFER TO DRAWINGS E001 AND E002 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
5. ALL ABOVE COUNTER MOUNTED RECEPTACLES SHALL BE MOUNTED WITH RECEPTACLE COVER BOTTOM 2" ABOVE THE COUNTER BACK-SPLASH AND SHALL BE MOUNTED IN HORIZONTAL ORIENTATION.
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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET SCHEMATIC BUDGET PRICING SET	11/01/2022 12/20/2022

Project Status

ELECTRICAL - UNIT PLANS

Granite Run Apartments

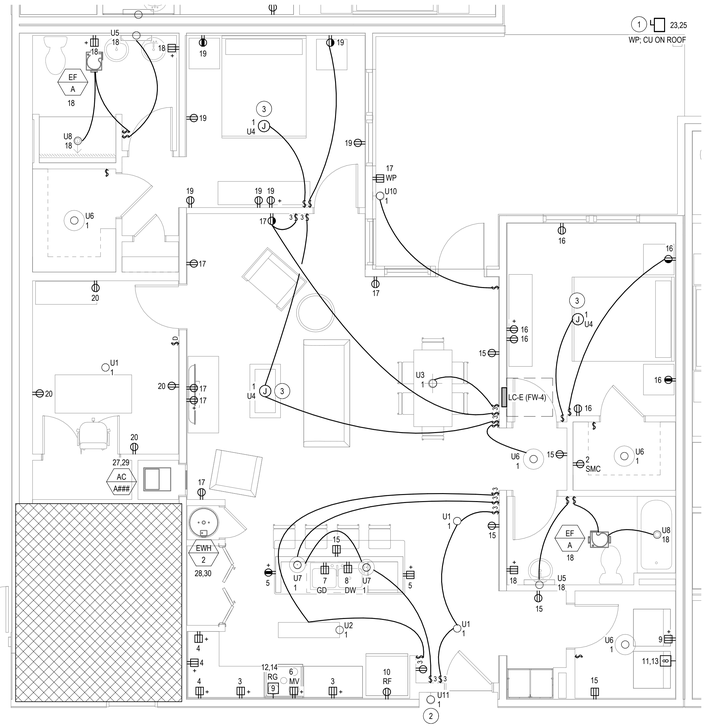
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DATE: 11/01/22

E6.05

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1 ELECTRICAL - UNIT - E (FW-4) PLAN

E6.06 — 1/4" = 1'-0"

ELECTRICAL UNIT PLAN NOTES

1. REFER TO ARCHITECT DRAWINGS FOR FIXTURE TYPES AND SCHEDULES.
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NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/30/2022

Project Status

ELECTRICAL - UNIT PLANS

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

E6.06

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