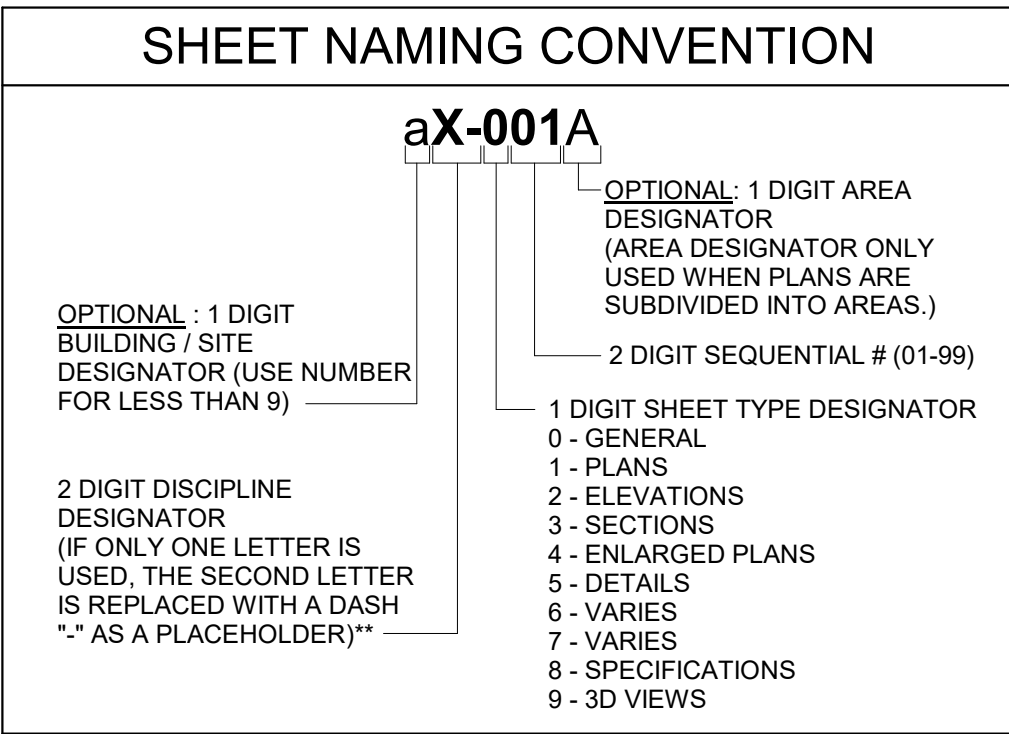





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- NOTE:**
1. NOT ALL ABBREVIATIONS SHOWN WILL BE USED ON THIS PROJECT.
- NOTES:**
1. ALL EXISTING EQUIPMENT IS SHOWN IN THIN LINEWORK. ALL DEMOLISHED EQUIPMENT IS SHOWN IN BOLD LINEWORK, DASHED AND HATCHED. ALL NEW OR RELOCATED EQUIPMENT IS SHOWN IN BOLD LINEWORK. BELOW IS AN EXAMPLE OF EACH:

-  EXISTING EQUIPMENT
-  NEW OR RELOCATED EQUIPMENT
-  HATCH INDICATES EQUIPMENT TO BE DEMOLISHED

**WIRE SIZE FOR ALL 120V, 20A CIRCUITS,UIO:**

FOR ALL ONE-WAY CIRCUITS OF LENGTH LESS THAN 75 FT, PROVIDE 2#12 & 1#12G, 3/4"C.

FOR ALL ONE-WAY CIRCUITS OF LENGTH LESS THAN 125 FT AND GREATER THAN OR EQUAL TO 75 FT, PROVIDE 2#10 & 1#10G, 3/4"C.

FOR ALL ONE-WAY CIRCUITS OF LENGTH LESS THAN 190 FT AND GREATER THAN OR EQUAL TO 125 FT, PROVIDE 2#8 & 1#8G, 3/4"C.

FOR ALL ONE-WAY CIRCUITS OF LENGTH LESS THAN 300 FT AND GREATER THAN OR EQUAL TO 190 FT, PROVIDE 2#6 & 1#6G, 3/4"C.

**WIRE SIZE FOR ALL 277V, 20A CIRCUITS,UIO:**

FOR ALL ONE-WAY CIRCUITS OF LENGTH LESS THAN 170 FT, PROVIDE 2#12 & 1#12G, 3/4"C.

FOR ALL ONE-WAY CIRCUITS OF LENGTH LESS THAN 280 FT AND GREATER THAN OR EQUAL TO 170 FT, PROVIDE 2#10 & 1#10G, 3/4"C.

FOR ALL ONE-WAY CIRCUITS OF LENGTH LESS THAN 440 FT AND GREATER THAN OR EQUAL TO 280 FT, PROVIDE 2#8 & 1#8G, 3/4"C.

FOR ALL ONE-WAY CIRCUITS OF LENGTH LESS THAN 700 FT AND GREATER THAN OR EQUAL TO 440 FT, PROVIDE 2#6 & 1#6G, 3/4"C.

**ELECTRICAL GENERAL NOTES**

1. THE WORK MUST CONFORM WITH ALL REQUIREMENTS OF:  
A. NFPA 70-2017 (NATIONAL ELECTRICAL CODE)  
B. ANSI C2-2017 (NATIONAL ELECTRICAL SAFETY CODE)  
C. APPLICABLE LOCAL CODES AND FEDERAL AND STATE LAWS.
2. MINIMUM RACEWAY SIZE MUST BE 3/4". INCREASE RACEWAY SIZE AS REQUIRED TO LIMIT RACEWAY FILL RATIO TO LESS THAN 40% FULL.
3. CONTRACTOR MUST COORDINATE WORK WITH OTHER TRADES AND MUST BE RESPONSIBLE FOR SECURING SPACE REQUIREMENTS FOR ELECTRICAL EQUIPMENT, CLEARANCE FOR RECESSED LUMINAIRES, AND CORRECT ROUGH-IN LOCATIONS OF ELECTRICAL CONNECTIONS.
4. CONTRACTOR MUST BE RESPONSIBLE FOR VERIFYING CATALOG NUMBERS ON THESE DRAWINGS TO MATCH WITH MATERIAL DESCRIPTIONS INDICATED.
5. VERIFY EXACT HEIGHT OF EACH COUNTERTOP AND BACKSPLASH ON ARCHITECTURAL DETAILS AND/OR CASE WORK SHOP DRAWINGS AND ADJUST SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS TO LOCATE BOTTOM OF OUTLET BOX 4" ABOVE TOP OF BACKSPLASH. IF NO BACKSPLASH IS USED, LOCATE BOTTOM OF OUTLET BOX 6" ABOVE COUNTERTOP.
6. VERIFY DOOR SWINGS WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN WALL SWITCHES. SWITCHES IN THE SAME LOCATION MUST BE GANGED TOGETHER IN ONE COMMON BACKBOX AND MUST HAVE ONE COMMON FACE PLATE.
7. ALL FEEDERS AND BRANCH CIRCUITS MUST INCLUDE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR, SIZE PER NATIONAL ELECTRICAL CODE, OR AS SHOWN, CONNECTED TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. PROVIDE NEUTRAL CONDUCTORS AS INDICATED HEREIN. MULTIPLE BRANCH CIRCUITS IN ONE RACEWAY REQUIRE ONLY ONE EQUIPMENT GROUNDING CONDUCTOR.
8. VERIFY LUMINAIRE AND CEILING MOUNTED OCCUPANCY SENSOR LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS AND DIMENSIONS PRIOR TO INSTALLATION. VERIFY EXACT LOCATIONS OF MOTORS AND EQUIPMENT BEFORE ROUGHING-IN.
9. NEW WORK MUST BE MADE TO TIE INTO THE EXISTING IN A UNIFORM MANNER. SIMILAR ITEMS OF NEW WORK MUST BE CHECKED AGAINST EXISTING WORK FOR TYPE MOUNTING, MOUNTING HEIGHTS, ETC. ITEMS SHOWN IN NEW WORK AT VARIANCE FROM THE EXISTING MUST BE REFERRED TO THE ARCHITECT FOR DECISION BEFORE ROUGH-IN.
10. "PROVIDE" IS AN INCLUSIVE TERM USED TO DESCRIBE ASPECTS OF THE WORK THAT MUST BE ACCOMPLISHED, AND IS HEREBY DEFINED TO REQUIRE TO STORE, FURNISH, INSTALL, MOUNT, CONNECT, CONTROL AND POWER EQUIPMENT INDICATED, AS WELL AS ALL APPURTENANCES REQUIRED TO MAKE ELECTRICAL SYSTEMS OPERATE AS INDICATED WITHIN THESE DRAWINGS AND SPECIFICATIONS AND TO FULFILL THE SCOPE OF WORK.
11. "DEMOLISH" IS AN INCLUSIVE TERM USED TO DESCRIBE ASPECTS OF THE WORK THAT MUST BE ACCOMPLISHED, AND IS HEREBY DEFINED TO REQUIRE CONTRACTOR TO DISCONNECT EQUIPMENT FROM ALL CONNECTIONS, REMOVE FROM THE OWNER'S SITE, AND DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. COST OF DISPOSAL IS ENTIRELY THE CONTRACTOR'S RESPONSIBILITY.
12. ALL CONDUCTORS MUST BE COPPER UNLESS SPECIFICALLY NOTED AS ALUMINUM.
13. CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCUREMENT OF ANY MATERIALS AND DEVELOPMENT OF ANY SHOP DRAWINGS OR SUBMITTALS.
14. PROVIDE LABELS ON ALL RECEPTACLES, WALL MOUNTED LIGHT SWITCHES/OCCUPANCY SENSORS AND JUNCTION BOXES INDICATING THE SOURCE PANEL & CIRCUIT(S). HANDWRITTEN LABELS ARE NOT PERMITTED EXCEPT FOR JUNCTION BOXES LOCATED ABOVE FINISHED CEILING WHICH MAY BE HANDWRITTEN WITH AN INDELIBLE MARKER.

**ELECTRICAL ABBREVIATIONS**

A or AMP	AMPERE(S)	IMC	INTERMEDIATE METAL CONDUIT
AC	AIR COMPRESSOR or AIR CURTAIN or ALTERNATING CURRENT	IRH	INFRARED HEATER
		J or JB	JUNCTION BOX
ACC	AIR COOLED CHILLER	K	KILO
AF	AMP FRAME	KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY
AFF	ABOVE FINISHED FLOOR	KCMIL	THOUSAND OF CIRCULAR MILS
AFG	ABOVE FINISHED GRADE	KEF	KITCHEN EXHAUST FAN
AHU	AIR HANDLING UNIT	KH	KITCHEN HOOD
AIC	AMPERE INTERRUPTING CAPACITY	KV	KILOVOLT
AL	ALUMINUM	KVA	KILOVOLT AMPERES
AM	AMMETER	KVAR	KILOVOLT AMPERES REACTIVE
ASYM	ASYMMETRICAL	KW	KILOWATT
AT	AMP TRIP	KWHR	KILOWATT-HOUR
ATS	AUTOMATIC TRANSFER SWITCH	L	LENGTH
AUTO	AUTOMATIC	LA	LIGHTNING ARRESTOR
AWG	AMERICAN WIRE GAUGE	LAN	LOCAL AREA NETWORK
B	BOILER	LAV	LAVATORY
BC	BRANCH CONTROLLER	LS	LONG TIME, SHORT TIME
BCW	BARE COPPER WIRE	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
BFF	BELOW FINISHED FLOOR	LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT
BFG	BELOW FINISHED GRADE		
BLDG	BUILDING	LTG	LIGHTING
C	CONDUIT	MAU	MAKE-UP AIR UNIT
CAT	CATEGORY	MAX	MAXIMUM
CB	CIRCUIT BREAKER	MCA	MINIMUM CIRCUIT AMPACITY
CCT	CORRELATED COLOR TEMPERATURE	MCB	MAIN CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION	MCC	MOTOR CONTROL CENTER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	MG	MAIN GROUND BAR
		MH	MANHOLE
CH	CHILLER	MIN	MINIMUM
CHWCP	CHILLED WATER CIRCULATING PUMP	MLO	MAIN LUGS ONLY
CHWP	CHILLED WATER PUMP	MOD	MOTOR OPERATED DAMPER
CHWSP	CHILLED WATER SUPPLY PUMP	MRS	MOTOR RATED SWITCH
CKT	CIRCUIT	MT or MTD	MOUNT or MOUNTED
CMH	COMMUNICATIONS MANHOLE	N	NEUTRAL
CP	CONDENSATE PUMP	N/A	NOT APPLICABLE
CPT	CONTROL POWER TRANSFORMER	NC	NORMALLY CLOSED
CRAC	COMPUTER ROOM AC UNIT	NEC	NATIONAL ELECTRICAL CODE
CRI	COLOR RENDERING INDEX	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
CT	CURRENT TRANSFORMER or COOLING TOWER		
CU	COPPER	NESC	NATIONAL ELECTRICAL SAFETY CODE
CWP	CONDENSER WATER PUMP	NPFA	NATIONAL FIRE PROTECTION ASSOCIATION
D	DEPTH	NL	NIGHT LIGHT
DC	DIRECT CURRENT	NO	NORMALLY OPEN
DF	DESTRATCATION FAN	NTS	NOT TO SCALE
DH	DUCT HEATER or DEHUMIDIFIER	P	POLE(S) or PUMP
DHWC	DOMESTIC HOT WATER CIRCULATING PUMP	PA	PUBLIC ADDRESS
DISC	DISCONNECT SWITCH	PDU	POWER DISTRIBUTION UNIT
DOAS	DEDICATED OUTSIDE AIR SYSTEM	PF	POWER FACTOR
DPDT	DOUBLE POLE DOUBLE THROW	PH	PHASE
DPST	DOUBLE POLE SINGLE THROW	PIU	PRIMARY INDUCTION UNIT (VAV TERMINAL UNIT)
DSCTU	DUCTLESS SPLIT CONDENSING UNIT	PMT	PANEL MOUNTED TRANSFORMER
DSDP	DUCTLESS SPLIT HEAT PUMP	PNL	PANEL OR PANELBOARD
DSS	DUCTLESS SPLIT SYSTEM (INDOOR UNIT)	PTAC	PACKAGED THRU-WALL AIR CONDITIONER
DUH	DUCT UNIT HEATER	PVC	POLYVINYL CHLORIDE
DWBP	DOMESTIC WATER BOOSTER PUMP	RECP	RECEPTACLE
DX	DIRECT EXPANSION COOLING COIL	RF	RETURN FAN
E or EMER	EMERGENCY	RMC	RADIANT HEATERS (ELECTRIC)
EC	EMPTY CONDUIT	RMT	RIGID METAL CONDUIT
EF	EXHAUST FAN	RMS	ROOT MEAN SQUARE
ELEC	ELECTRICAL	RTU	ROOF TOP UNIT
EMEW	EMERGENCY EYEWASH	RVNR	REDUCED VOLTAGE NON-REVERSING
EMH	ELECTRICAL MANHOLE	SA	SURGE ARRESTOR
EMSH	EMERGENCY SHOWER	SCOR	SHORT CIRCUIT CURRENT RATING
EMT	ELECTRICAL METALLIC TUBING	SD	SMOKE DAMPER
EPA	EFFECTIVE PROJECTED AREA	SF	SUPPLY FAN
EQUIP	EQUIPMENT	S/N	SOLID NEUTRAL
ERU	ENERGY RECOVERY UNIT	SP	SUMP PUMP
ERV	ENERGY RECOVERY VENTILATOR	SPD	SURGE PROTECTIVE DEVICE
ESEW	EMERGENCY SHOWER / EYEWASH	SPDT	SINGLE POLE DOUBLE THROW
EUH	ELECTRIC UNIT HEATER	SPEC	SPECIFICATIONS
EW	ELECTRIC WATER COOLER	SPST	SINGLE POLE SINGLE THROW
EWB	ELECTRIC WATER HEATER	SWBD	SWITCHBOARD
EX or EXIST	EXISTING	SWGR	SWITCHGEAR
EXP	EXPLOSION PROOF	TMBG	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
F	FUSE		
FACP	FIRE ALARM CONTROL PANEL	TOL	THERMAL OVERLOAD
FCU	FAN COIL UNIT	TP	TWISTED PAIR
FLEX	FLEXIBLE	TP	TYPICAL
FWE	FURNISHED WITH EQUIPMENT	U	UNRAL
G or GND	GROUND	UG	UNDERGROUND
GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED or GROUND FAULT CIRCUIT INTERRUPTER	UH	UNIT HEATER
		UIO	UNLESS INDICATED OTHERWISE
		UL	UNDERWRITERS LABORATORY
		UTP	UNSHIELDED TWISTED PAIR
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED	V	VOLTS
GUH	GAS UNIT HEATER	VA	VOLT AMPERES
GWH	HEIGHT	VAR	VOLT AMPERES REACTIVE
H or HT	HEATED AIR CURTAIN	VAV	VAV TERMINAL UNIT
HAC	HAND-OFF AUTOMATIC	VEF	VEHICLE EXHAUST FAN
HOA	HORSE POWER or HEAT PUMP	VM	VOLTMETER
HP	HEAT TRACKING	VRF	VARIABLE REFRIGERANT FLOW SYSTEM
HT	HEATING/VENTILATING UNIT	WC	WATTS or WIRE
HVU	HEATING WATER CIRCULATING PUMP	WEF	WATER CLOSET
HWCP	HEATING WATER PUMP	WH	WATER HEATER
HWRP	HOT WATER RECIRCULATION PUMP	WHDM	WATT HOUR DEMAND METER
HWSP	HEATING WATER SUPPLY PUMP	WP	WEATHERPROOF
HWUH	HOT WATER UNIT HEATER	WSHP	WATER SOURCE HEAT PUMP
HZ	HERTZ	XFMR	TRANSFORMER
IDS	INTRUSION DETECTION SYSTEM	Z	IMPEDANCE

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**EOR/AOR SEAL**

**COA SEAL**

**CLIENT INFORMATION**

AMAZON.COM  
SERVICES LLC

**PROJECT NAME**

AMZL DK01  
AVI

151-153 TAYLOR  
STREET  
LITTLETON, MA  
01460

**DRAWING ISSUE**

DATE	DESCRIPTION	MARK
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DESIGNED BY: WY  
DRAWN BY: WY  
CHECKED BY: JW  
SUBMITTED BY: JW  
DATE: 02/28/2025  
PROJECT #: 1240263

**SHEET TITLE**

ELECTRICAL  
GENERAL NOTES  
AND  
ABBREVIATIONS

**SHEET NUMBER**

E-001

ORIGINAL SHEET SIZE:  
36" X 42"

2/28/2025 9:47:02 AM Autodesk Docs\\1740262-DK01\_AVI Phase 1\\240262-DK01\_V03\_MEP.rvt

E

D

C

B

A

NOTE:

1. NOT ALL SYMBOLS SHOWN WILL BE USED ON THIS PROJECT.

ELECTRICAL LEGEND

LUMINAIRES

	LUMINAIRE AND OUTLET BOX. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
	LUMINAIRE AND OUTLET BOX WIRED FOR MULTILEVEL SWITCHING, LOWER CASE LETTER INDICATES SWITCHLEG DESTINATION.
	LUMINAIRE AND OUTLET BOX, WITH PROVISIONS FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
	WALL MOUNTED LUMINAIRE AND OUTLET BOX. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
	CEILING OR WALL MOUNTED EXIT SIGN AND OUTLET BOX. PROVIDE NUMBER OF ARROWS AND FACES INDICATED. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE. WALL MOUNT AT 96" ABOVE FINISHED FLOOR.
	RECESSED OR PENDANT MOUNTED LUMINAIRE AND OUTLET BOX. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
	WALL MOUNTED LUMINAIRE AND OUTLET BOX. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
	CEILING OR WALL MOUNTED LUMINAIRE AND OUTLET BOX WITH PROVISIONS FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
	EMERGENCY LIGHT UNIT. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
	REMOTE HEAD OR FLOOD LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
	WALL WASH DOWNLIGHT. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
	POLE MOUNTED LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
	POST-TOP OR BOLLARD LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.

EQUIPMENT

	MOTOR, HORSEPOWER AS INDICATED
	MOTORIZED DAMPER
	3-POLE COMBINATION MOTOR CONTROLLER, STARTER/ DISCONNECT (POLES/FRAME SIZE / FUSE SIZE / NEMA ENCLOSURE) NF = NONFUSED MOUNTED 48" AFF, UNLESS OTHERWISE NOTED
	DISCONNECT SWITCH, (FRAME SIZE / FUSE SIZE / POLES / NEMA ENCLOSURE) NF = NON-FUSED MOUNTED 48" AFF, UNLESS OTHERWISE NOTED
	INDIVIDUALLY MOUNTED CIRCUIT BREAKER, (FRAME SIZE/ POLES/ NEMA ENCLOSURE)
	DRY TYPE TRANSFORMER
	SURFACE MOUNTED PANELBOARD. DASHED BOX INDICATES WORKING ACCESS REQUIRED BY CODE.
	RECESSED MOUNTED PANELBOARD. DASHED BOX INDICATES WORKING ACCESS REQUIRED BY CODE.
	DISTRIBUTION PANELBOARD. DASHED BOX INDICATES WORKING ACCESS REQUIRED BY CODE.
	EQUIPMENT AS INDICATED
	CEILING OR WALL MOUNTED JUNCTION BOX
	PULL OR JUNCTION BOX
	CEILING MOUNTED BLUE LIGHT SYSTEM ROTATING BEACON
	WHITE NOISE PLENUM SPEAKER; MOUNT ABOVE DROP CEILING

WIRING DEVICES

	SIMPLEX RECEPTACLE NEMA 5-20R, MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE.
	DUPLEX RECEPTACLE NEMA 5-20R, MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT 6" ABOVE COUNTERTOP (TO BOTTOM OF DEVICE) OR 4" ABOVE BACKSPLASH (TO BOTTOM OF DEVICE)
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE NEMA 5-20R, MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE NEMA 5-20R, MOUNT 6" ABOVE COUNTERTOP (TO BOTTOM OF DEVICE) OR 4" ABOVE BACKSPLASH (TO BOTTOM OF DEVICE)
	DOUBLE-DUPLEX RECEPTACLE NEMA 5-20R, MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	SPLIT YOE, DUPLEX RECEPTACLE NEMA 5-20R WITH ONE CONTROLLED AND ONE NON-CONTROLLED RECEPTACLE. MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE.
	SPLIT YOE, DUPLEX RECEPTACLE NEMA 5-20R WITH ONE CONTROLLED AND ONE NON-CONTROLLED RECEPTACLE. MOUNT 6" ABOVE COUNTERTOP (TO BOTTOM OF DEVICE) OR 4" ABOVE BACKSPLASH (TO BOTTOM OF DEVICE)
	SPLIT YOE, DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE NEMA 5-20R WITH ONE CONTROLLED AND ONE NON-CONTROLLED RECEPTACLE. MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	SPLIT YOE, DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE NEMA 5-20R WITH ONE CONTROLLED AND ONE NON-CONTROLLED RECEPTACLE. MOUNT 6" ABOVE COUNTERTOP (TO BOTTOM OF DEVICE) OR 4" ABOVE BACKSPLASH (TO BOTTOM OF DEVICE)
	DOUBLE-DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE, NEMA 5-20R, MOUNTED CONCEALED BEHIND ELECTRIC WATER COOLER
	FLOOR BOX WITH DUPLEX RECEPTACLE NEMA 5-20R. PROVIDE FIRE RATED POKE-THROUGH DEVICES ON ALL FLOORS ABOVE GROUND LEVEL.
	SPECIAL RECEPTACLE, NEMA TYPE AS INDICATED, MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	CEILING BOX WITH DUPLEX RECEPTACLE, NEMA 5-20R
	WP = IN-USE WEATHER PROOF TR = TAMPER RESISTANT TV = TELEVISION, MOUNT AT 60" ABOVE FINISHED FLOOR AFCI = ARC FAULT CIRCUIT INTERRUPTER
	FLOOR BOX SUITABLE FOR CONCRETE FLOOR POUR; TWO COMPARTMENTS - POWER AND TELECOMMUNICATIONS; FLUSH COVER/FLANGE WITH HINGED ACCESS TO RECEPTACLES AND JACKS RECESSED BELOW COVER IN FLOOR BOX. PROVIDE 8" FIRE RATED POKE-THROUGH ABOVE GROUND FLOOR.
	WALL SWITCH, AC TYPE, SPST, MOUNT 48" ABOVE FINISHED FLOOR
	WALL SWITCH, AC TYPE, DPDT, MOUNT 48" ABOVE FINISHED FLOOR
	3-WAY WALL SWITCH, MOUNT 48" ABOVE FINISHED FLOOR

WIRING DEVICES

	4-WAY WALL SWITCH, MOUNT 48" ABOVE FINISHED FLOOR
	SLIDE DIMMER, MOUNT 48" ABOVE FINISHED FLOOR
	MOTOR RATED DISCONNECT SWITCH WITH THERMAL OVERLOADS, SINGLE POLE SINGLE THROW, MOUNT ON UNIT, UNLESS INDICATED OTHERWISE.
	WALL MOUNTED, DUAL TECHNOLOGY OCCUPANCY SWITCH, MOUNT 48" ABOVE FINISHED FLOOR
	WALL MOUNTED, DUAL TECHNOLOGY VACANCY SWITCH, MOUNT 48" ABOVE FINISHED FLOOR
	LOW VOLTAGE ON/OFF WALL SWITCH, WALL MOUNT 48" ABOVE FINISHED FLOOR. PROVIDE DIMMER CONTROL WITH DIMMABLE FIXTURES INTEGRAL WITH SWITCH.
	BLUE LIGHT LOCAL CONTROL SWITCH; MOUNT 48" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	WHITE NOISE ROTARY VOLUME CONTROL; MOUNT 48" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE.
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
	CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR
	CEILING MOUNTED DAYLIGHT SENSOR
	PHOTOELECTRIC CELL
	<b>WIRING</b>
	CIRCUIT HOMERUN TO PANELBOARD, P2A-1,3,5, ADJACENT TO ARROW, INDICATES HOMERUN CIRCUITS 1, 3, AND 5 IN PANEL P2A. MARKS ACROSS RACEWAY INDICATE THE NUMBER OF PHASE CONDUCTORS AND NEUTRALS IN RACEWAY. NEUTRAL CONDUCTORS ARE INDICATED BY LONGER HASHMARKS. NO MARKS ACROSS RACEWAY INDICATES 2#12 CONDUCTORS AND 1#12 GROUND CONDUCTOR. CONDUCTOR SIZE #12 UNLESS INDICATED OTHERWISE.
	PANEL, BRANCH CIRCUIT AND WIRE SIZE (IF OTHER THAN #12)
	RECEPTACLE TYPE IF APPLICABLE
	PANEL, BRANCH CIRCUIT AND WIRE SIZE (IF OTHER THAN #12)
	LUMINAIRE TYPE
	PANEL, BRANCH CIRCUIT AND WIRE SIZE (IF OTHER THAN #12)
	LUMINAIRE TYPE
	PANEL, BRANCH CIRCUIT AND WIRE SIZE (IF OTHER THAN #12)
	RACEWAY EXPOSED TO VIEW
	CONCEALED RACEWAY, LOCATED IN WALL OR ABOVE FINISHED CEILING
	UNDERGROUND RACEWAY, LOCATED BELOW GRADE OR CONCRETE SLAB
	FLEXIBLE RACEWAY
	RACEWAY TURNED TOWARD VIEWER
	RACEWAY TURNED AWAY FROM VIEWER
	RACEWAY TERMINATION, STUB-OUT AND CAP
	PLUG-IN BUSWAY, UNLESS INDICATED OTHERWISE
	SURFACE METAL RACEWAY OR MULTIOUTLET ASSEMBLY AS INDICATED
	LADDER TYPE CABLE TRAY (SIZE AS INDICATED ON PLAN)

GROUNDING AND LIGHTNING PROTECTION

	3/4" x 10'-0" COPPERCLAD GROUND ROD, 18" BELOW FINISHED GRADE.
	GROUND ROD TEST WELL
	BARE COPPER GROUND CONDUCTOR, 1/0 UNLESS INDICATED OTHERWISE.
	4/0 BARE COPPER GROUND CONDUCTOR
	LIGHTNING PROTECTION SYSTEM AIR TERMINAL
	LIGHTNING PROTECTION ROOF CONDUCTOR
	ELECTRICAL CONNECTION
	<b>SITE</b>
	ELECTRICAL MANHOLE
	ELECTRICAL HANDHOLE
	PAD MOUNTED TRANSFORMER
	POWER POLE
	DOWN GUY AND ANCHOR (QUANTITY AS INDICATED)
	DUCTBANK, TEXT INDICATES QUANTITY AND SIZE OF DUCTS (I.E. 2W4" = TWO 4" DUCTS)
	<b>ONE-LINE</b>
	TRANSFORMER
	CURRENT TRANSFORMER
	FUSE
	ELECTRICAL CONNECTION
	CIRCUIT BREAKER
	SWITCH
	SURGE ARRESTORS
	SEPARABLE CONNECTION
	DRY TYPE TRANSFORMER, KVA AS INDICATED
	GROUND
	INDIVIDUALLY MOUNTED MOTOR STARTER OR VARIABLE FREQUENCY DRIVE, NEMA SIZE AS INDICATED
	FUSED DISCONNECT, FRAME, POLE AND FUSE SIZE AS INDICATED.
	INDIVIDUALLY MOUNTED CIRCUIT BREAKER, TRIP AND POLE SIZE AS INDICATED.
	<b>SCHEMATIC</b>
	PILOT LIGHT (G=GREEN, R=RED, Y=AMBER)
	CONTROL RELAY COIL
	SHUNT TRIP COIL
	TIME DELAY RELAY COIL
	METER
	ELECTRONIC METER

EOR/AOR SEAL

COA SEAL

CLIENT INFORMATION

AMAZON.COM  
SERVICES LLC

PROJECT NAME

AMZL DK01  
AVI

151-153 TAYLOR  
STREET  
LITTLETON, MA  
01460

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: WY  
DRAWN BY: WY  
CHECKED BY: JW  
SUBMITTED BY: JW  
DATE: 02/28/2025  
PROJECT #: 1240263

SHEET TITLE

ELECTRICAL  
LEGEND

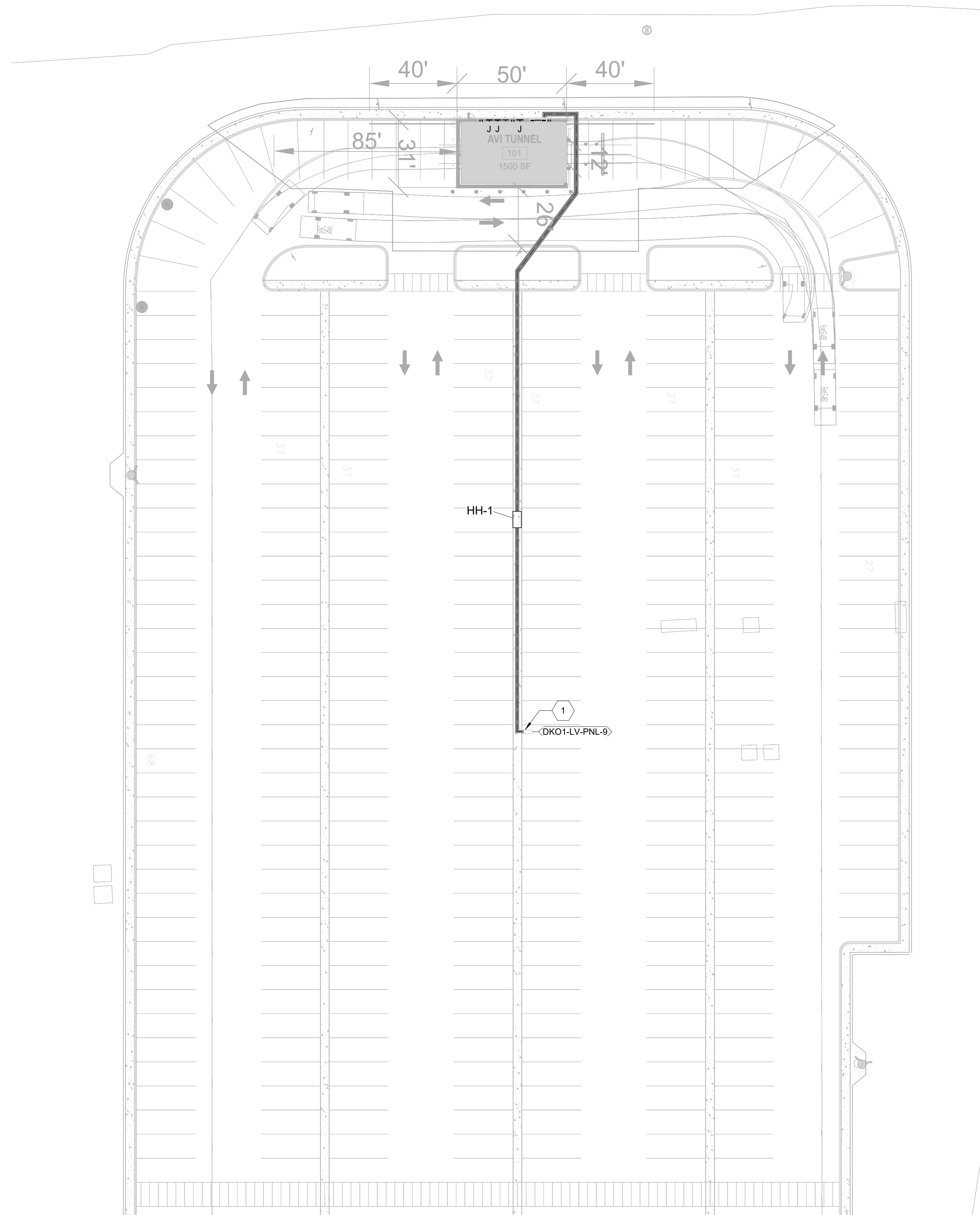
SHEET NUMBER

E-002

ORIGINAL SHEET SIZE:  
36" X 42"

## SHEET NOTES

1. REFER TO SHEETS E-001 & E-002 FOR ELECTRICAL  
GENERAL NOTES, ABBREVIATIONS & LEGEND.



**A2 ELECTRICAL SITE PLAN**  
SCALE: 1" = 30'-0"

SCALE: 1" = 30'-0"

## # KEYNOTES

1. LOCATION OF EXISTING 800A, 480V PANELBOARD DKO1-LV-PNL-9.
2. CONTRACTOR SHALL PULL CONDUCTORS FROM EXISTING PANELBOARD DKO1-LV-PNL-9 TO EXISTING HANDHOLE HH-1 AND EXTEND EXISTING CONDUIT AND CABLE TO FEED AVI SCOPE.
3. COORDINATE THE EXACT ROUTE FOR UNDERGROUND FEEDER IN THE FIELD PRIOR TO INSTALLATION.

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Georgia 30092

## EOR/AOR SEAL

## COA SEAL

## CLIENT INFORMATION

AMAZON.COM  
SERVICES LLC

## PROJECT NAME

AMZL DK01  
AVI

151-153 TAYLOR  
STREET  
LITTLETON, MA  
01460

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**DRAWING ISSUE**

DATE \_\_\_\_\_

DESCRIPTION

MARK

DESIGNED BY: WY  
DRAWN BY: WY  
CHECKED BY: JW  
SUBMITTED BY: JW  
DATE: 02/28/2025  
PROJECT #: 1240263

**SHEET TITLE**

ELECTRICAL SITE  
PLAN

**SHEET NUMBER**

ES101

ORIGINAL SHEET SIZE:  
30" X 42"

2/28/2025 9:47:04 AM Autodesk Docs\\17240262-DK01 AVI Phase 1\\240262-DK01\_V03\_MEP.rvt

LUMINAIRE SCHEDULE											
FIXTURE	DESCRIPTION	LAMP	DETAIL REFERENCE	LUMENS	CRI	CCT	VOLTAGE	WATTAGE	MOUNTING	MANUFACTURER	NOTES
FE1	CANOPY LUMINAIRE W/BATTERY BACK-UP, IP66	LED		13760	80	40K	120 V	108 W	12" AFF. PENDANT	LITHONIA,VCPG-LED-V4-P6-40K-80CRI-T5W-MVOLT-PM-DMG-E18WC-DD BXD	1,2,3
GE1	EXTERIOR LED WALL PACK W/BATTERY BACK-UP, IP65	LED		2300	80	40K	120 V	16 W	9" AFF. WALL	LITHONIA LIGHTING, TWR1 LOW E7WC	1,3
GE2	EXTERIOR LED WALL PACK W/BATTERY BACK-UP, IP65	LED		8200	80	40K	120 V	55 W	13" AFF. WALL	LITHONIA LIGHTING, TWR2 LOW E7W	1,3
K1	8' EXTERIOR LED WALL MOUNTED FACADE LIGHTING, ALUMINIUM DIECAST	LED		12873	80	40K	120 V	104 W	13" 6" AFF. WALL	THE LIGHT QUOTIENT, S175-H4-940	1
X1	EXIT SIGN, UL DAMP WITH BATTERY BACK UP, UNIVERSAL MOUNT.						120 V	1.03 W	7" 6" AFF. WALL	EVENLITE RAZOR SERIES; ISOLITE, PATHWAY, SURE-LITES TPX, TPX71R	1,3

- NOTES:
- DESIGN BASIS SHOWN FOR REFERENCE ONLY. FIXTURES OF EQUAL QUALITY AND PERFORMANCE ARE ACCEPTABLE. ALL FIXTURES MUST BE EQUAL IN MATERIAL, QUALITY, WARRANTY, PHOTOMETRIC, SIZE AND FINISH.
  - VERIFY CEILING TYPES WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING.
  - WIRE EXIT SIGNS AND EMERGENCY BATTERY PACKS IN EMERGENCY LUMINAIRES AHEAD OF ALL LOCAL SWITCHING.

LUMINAIRE CONTROL SCHEDULE														
SPACE TYPE	ROOM NUMBER	MANUAL ON	MANUAL OFF	LOW-VOLTAGE DIMMING SYSTEM	LINE VOLTAGE DIMMING SWITCH	OCCUPANCY SENSOR ON	OCCUPANCY SENSOR OFF	VACANCY SENSOR OFF	AUTO BI-LEVEL CONTROL	ASTRONOMICAL TIME CLOCK	PHOTOCELL CONTROL	INTEGRAL MOTION CONTROL	DAYLIGHT DIMMING CONTROL	RECEPTACLE CONTROL
EXTERIOR/ BUILDING MOUNTED LIGHTING		X					X				X			
AVI TUNNEL														
CONTROLS NARRATIVE														
PHOTOCELL CONTROL INTERNAL TO LIGHT FIXTURE														
PROVIDE MANUAL ON SWITCHES AT EACH ROOM ENTRY.														



**A3** AVI TUNNEL - ENLARGED LIGHTING PLAN  
SCALE: 3/16" = 1'-0"

## SHEET NOTES

- REFER TO SHEETS E-001 & E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS & LEGEND.
- RACEWAYS THAT SPAN EXPANSION JOINTS MUST BE PROVIDED WITH EXPANSION FITTINGS. FITTINGS SHALL BE CONCRETE TIGHT WITH GROUND CONTINUITY.
- RACEWAYS MUST NOT BE PLACED IN ELEVATED SLABS WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER.
- EXTERIOR LUMINAIRES PROVIDED WITH INTEGRAL PHOTOCELL.

## # KEYNOTES

- PHOTOCELL OVERRIDE SWITCH FOR EXTERIOR LIGHTS.
- PROVIDE AND INSTALL MOUNTED PHOTOCELL FOR K1 LIGHT FIXTURES THAT DO NOT HAVE INTERNAL PHOTOCELLS FOR LIGHTING CONTROL.

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PROJECT #: 1240263

## SHEET TITLE

LIGHTING PLAN

## SHEET NUMBER

E-101

ORIGINAL SHEET SIZE:  
30" X 42"



1. REFER TO SHEETS E-001 & E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS & LEGEND.
2. RACEWAYS THAT SPAN EXPANSION JOINTS MUST BE PROVIDED WITH EXPANSION FITTINGS. FITTINGS MUST BE CONCRETE TIGHT WITH GROUND CONTINUITY.
3. RACEWAYS MUST NOT BE PLACED IN ELEVATED SLABS WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER.

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AVI

151-153 TAYLOR  
STREET  
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01460

1. PROVIDE JUNCTION BOX FOR AVI TUNNEL WITH #3/8 & 1" 10G, 1" C.D. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH EQUIPMENT PROVIDER.
2. REFER TO A3/E-501 FOR INSTALLATION DETAILS.
3. PROVIDE (2) 1" CONDUITS WITH PULL STRINGS FROM AVI BUILDING TO THE MAIN BUILDING AND PIPE UP 12" INTO ROOF TRUSS SPACE FOR DATA AND SECURITY WIRING TO THE MAIN MDF/IDF ROOM. CONTRACTOR SHALL COORDINATE AND VERIFY THE EXACT ROUTING LOCATION IN FIELD PRIOR TO INSTALLATION.
4. PROVIDE JUNCTION BOX FOR ELECTRICAL CONNECTION TO SECURITY PANEL (2#12, 1#12G, 3/4"C). COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH EQUIPMENT PROVIDER.
5. PROVIDE NEMA 3R ENCLOSURE FOR UVEYE SERVER CABINET (2#12, 1#12G, 3/4"C). COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH EQUIPMENT PROVIDER.
6. PROVIDE 3/4"C STUB UP FOR FUTURE 480V HEATING CIRCUIT. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH OTHER DISCIPLINES.



PANEL BOARD SCHEDULE: RP1-AVI

LOCATION: AVI TUNNEL 101

MAINS RATING: 150A MCB

MINIMUM BREAKER SCCR:

SUPPLY FROM: T-RP1-AVI

VOLTAGE: 208Y/120

MOUNTING: SURFACE

PHASES: 3

ENCLOSURE: NEMA 1

WIRES: 4

CONNECTED LOAD KVA											
CKT	CIRCUIT DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	CIRCUIT DESCRIPTION	CKT	
1	AVI	40 A	3	3.33	0.50			1	20 A	SECURITY PANEL	2
--	--	--	--		3.33	0.54		1	20 A	RECP - HOUSEKEEPING	4
--	--	--	--					1	20 A	AMAZON IDF	6
7	EXT LTG	20 A	1	0.29	0.18			1	20 A	UVEYE SERVER CABINET	8
9	INT LTG	20 A	1		0.32	0.00		1	20 A	SPARE	10
11	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	12
13											14
15											16
17											18
19											20
21											22
23											24
25											26
27											28
29											30
31											32
33											34
35											36
37											38
39											40
41											42
TOTAL LOAD:				4.31	4.19	5.25					

NOTES:

Load Classification	Connected Load	Estimated Demand	Panel Totals
Power	10.7 KVA	10.7 KVA	Total Conn. Load: 13.76 KVA
Lighting	0.0 KVA	0.0 KVA	Total Est. Demand Load: 13.8 KVA
Other	0.2 KVA	0.2 KVA	Total Conn. Current: 38 A
LTG	0.4 KVA	0.4 KVA	Total Est. Demand Current: 38 A
Recp - Specific Appliance or Load	1.9 KVA	1.9 KVA	Total Est. Design Current: 43.9 A
Recp - General Purpose	0.5 KVA	0.5 KVA	

DATE \_\_\_\_\_

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PROJECT #: 1240263

ENLARGED  
POWER PLAN &  
ONE-LINE  
DIAGRAM

E-111

ORIGINAL SHEET SIZE:  
30" X 42"

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### SHEET NOTES

- REFER TO SHEETS E-001 & E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS & LEGEND.

**POND**

3500 Parkway Lane  
Suite 500  
Peachtree Corners  
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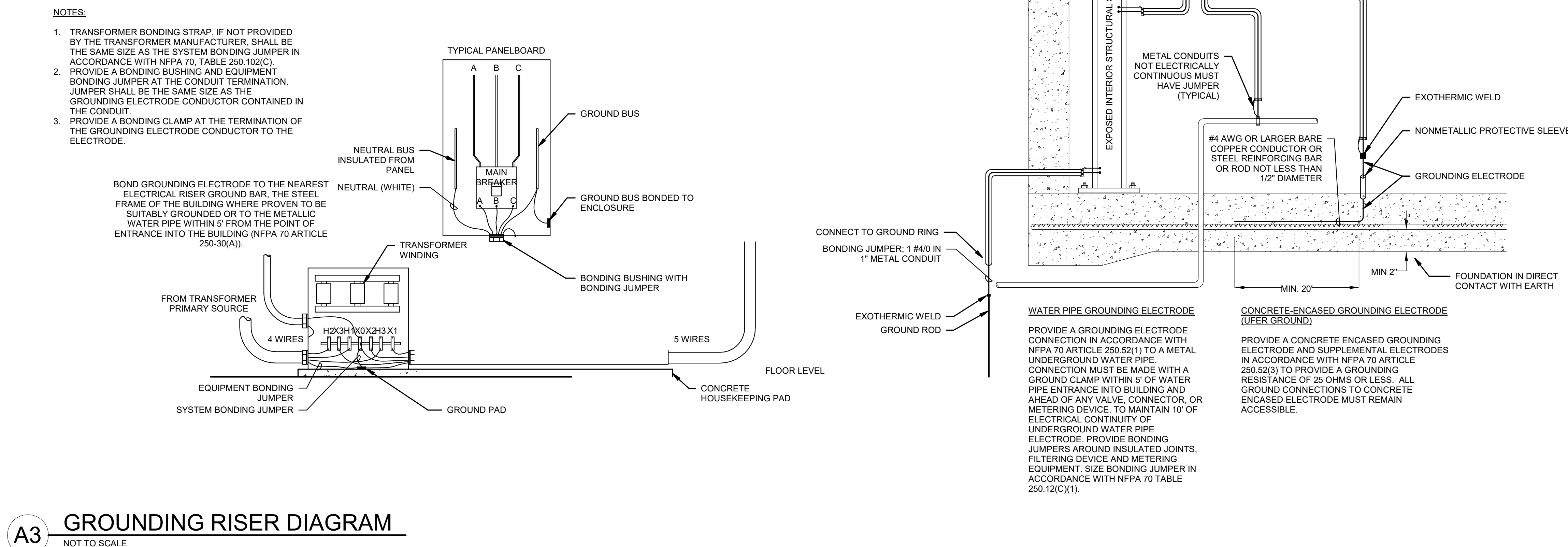
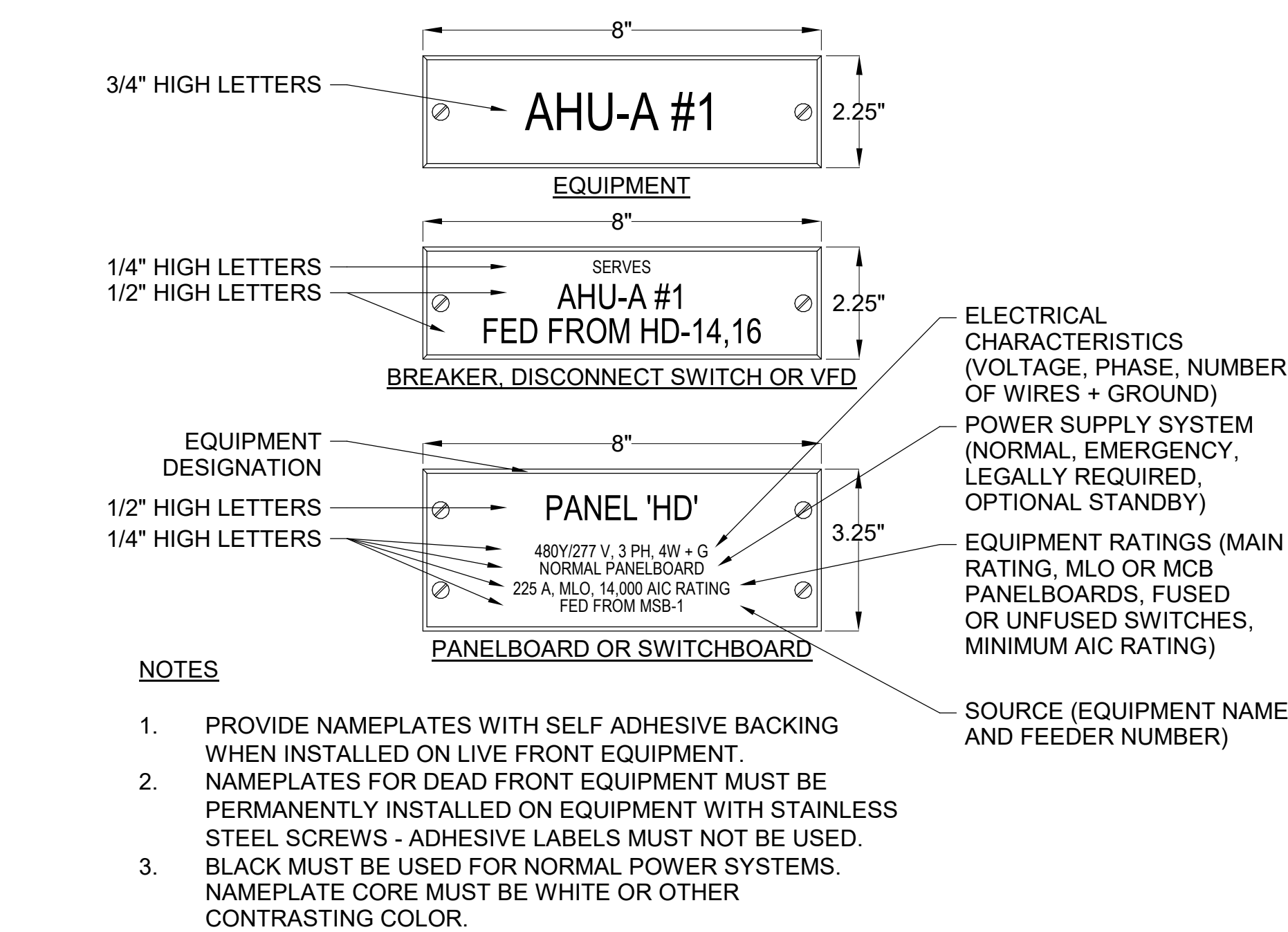
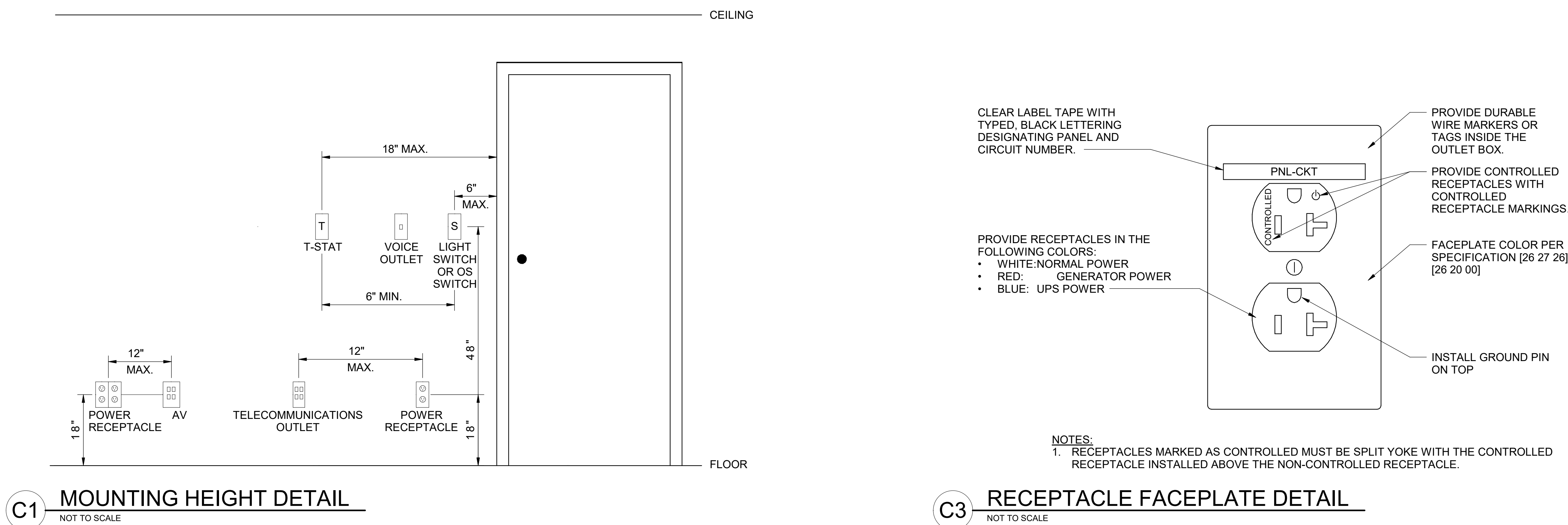
SHEET TITLE

**ELECTRICAL**  
**DETAILS**

SHEET NUMBER

**E-501**

ORIGINAL SHEET SIZE:  
36" X 42"





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E	D	C	B	A	<div>DIVISION 26 - ELECTRICAL GENERAL</div> <div>1. ALL ELECTRICAL WORK MUST BE IN ACCORDANCE WITH 2020 NATIONAL ELECTRICAL CODE.</div> <div>2. CONTRACTOR MUST PAY AND OBTAIN ALL PERMITS REQUIRED BY THE LOCAL BUILDING CODE.</div> <div>3. CONTRACTOR MUST COORDINATE ELECTRICAL SERVICE WITH THE LOCAL ELECTRICAL UTILITY COMPANY. COMPLY WITH LOCAL ELECTRICAL UTILITY COMPANY STANDARDS FOR PROVISION OF: PRIMARY DUCTS AND CONDUCTORS, TRANSFORMERS, PADS, REVENUE METERING; SECONDARY CONDUIT, CONDUCTORS, AND GROUNDING. ALL FEES ASSOCIATED WITH PROVISION OF ELECTRICAL SERVICE MUST BE PAID BY THE CONTRACTOR.</div> <div>4. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. WHAT IS CALLED FOR BY ONE MUST BE PROVIDED AS IF CALLED FOR IN BOTH. IN THE EVENT THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, PROVIDE THE MORE STRICT OR HIGHER QUALITY.</div> <div>5. CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS PRIOR PURCHASING EQUIPMENT.</div> <div>6. ELECTRICAL MATERIALS AND EQUIPMENT MUST MEET THE REQUIREMENTS OF UL, WHERE UL STANDARDS ARE ESTABLISHED FOR THOSE ITEMS.</div> <div>7. ALL ELECTRICAL WORK MUST BE INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) NATIONAL ELECTRICAL INSTALLATION STANDARDS (NEIS). WORK WHICH DOES NOT COMPLY WITH NEIS WILL BE GROUNDS FOR REJECTION OF WORK. THE OWNER AND ENGINEER RESERVE THE RIGHT TO INSPECT ALL WORK AND HAVE CONTRACTOR TEST AND DEMONSTRATE FUNCTIONALITY OF ALL ELECTRICAL WORK.</div> <div>8. DISCONNECT, REMOVE FROM THE SITE, AND DEPOSE OF ALL ITEMS INDICATED TO BE DEMOLISHED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS AND CODES. CONTRACTOR MUST NOT REUSE DEMOLISHED ITEMS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS. REMOVE ALL USED MATERIAL AND SCRAP RELATIVE TO THE ELECTRICAL INSTALLATION AND LEAVE THE AREAS IN CLEAN AND ORDERLY CONDITION. WHERE ITEMS ARE NOT INDICATED TO BE DEMOLISHED, THE ASSOCIATED CIRCUITRY AND CONDUIT MUST BE REWORKED TO MAINTAIN CIRCUIT CONTINUITY TO ITEMS TO REMAIN.</div> <div>9. CONTRACTOR MUST WARRANTY ALL ELECTRICAL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE TO INCLUDE ALL PARTS AND LABOR.</div> <div>FIRE STOPPING</div> <div>1. FIRE STOP ALL ELECTRICAL PENETRATIONS OF RATED FLOORS AND WALLS. PROVIDE FIRESTOPPING MATERIALS, SUPPLIED FROM A SINGLE DOMESTIC MANUFACTURER, CONSISTING OF COMMERCIALY MANUFACTURED, ASBESTOS-FREE, NONTOXIC PRODUCTS FM APP GUIDE APPROVED, OR UL LISTED, FOR USE WITH APPLICABLE CONSTRUCTION AND PENETRATING ITEMS.</div> <div>2. PROVIDE MATERIALS WITH A FLAME SPREAD OF 25 OR LESS, AND A SMOKE DEVELOPED RATING OF 50 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723. MATERIAL MUST BE AN APPROVED FIRESTOPPING MATERIAL AS LISTED IN UL FIRE RESISTANCE OR BY A NATIONALLY RECOGNIZED TESTING LABORATORY.</div> <div>3. MATERIAL MUST BE NONTOXIC AND CARCINOGEN FREE TO HUMANS AT ALL STAGES OF APPLICATION OR DURING FIRE CONDITIONS AND MUST NOT CONTAIN HAZARDOUS CHEMICALS OR REQUIRE HARMFUL CHEMICALS TO CLEAN MATERIAL OR EQUIPMENT.</div> <div>4. FIRESTOP SYSTEMS MUST BE UL FIRE RESISTANCE LISTED OR FM APP GUIDE APPROVED WITH "F" RATING AT LEAST EQUAL TO FIRE-RATING OF FIRE WALL OR FLOOR IN WHICH PENETRATED OPENINGS ARE TO BE PROTECTED. WHERE REQUIRED, FIRESTOP SYSTEMS MUST ALSO HAVE "T" RATING AT LEAST EQUAL TO THE FIRE-RATED FLOOR IN WHICH THE OPENINGS ARE TO BE PROTECTED.</div> <div>5. FIRESTOPPING MATERIALS FOR THROUGH-PENETRATIONS MUST PROVIDE "F", "T" AND "L" FIRE RESISTANCE RATINGS IN ACCORDANCE WITH ASTM E814 OR UL 1479.</div> <div>SUBMITTALS FOR APPROVAL</div> <div>1. PRODUCT DATA:<div>A. SUBMIT PRODUCT DATA FOR THE FOLLOWING ITEMS:<div>a. CONDUIT</div><div>b. CONDUCTORS</div><div>c. WIRING DEVICES</div><div>d. PANELBOARDS</div><div>e. DRY TYPE TRANSFORMERS</div><div>f. INTERIOR LIGHTING</div><div>g. EXTERIOR LIGHTING</div></div></div>
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