ELECTRICAL SYMBOLS

RECEPTACLES (MOUNTED 18" AFF UNLESS INDICATED OTHERWISE)

- DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R) MOUNT 4" ABOVE COUNTER TOP, SINK, OR BACKSPLASH (IF PRESENT)
- SINGLE RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- FLOOR RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- SINGLE RECEPTACLE OUTLET (50A, 250V, 3 POLE, 3 WIRE, NEMA 10-50R)
- SINGLE RECEPTACLE OUTLET (20A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-20R)
- SINGLE RECEPTACLE OUTLET (30A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-30R)
- SINGLE RECEPTACLE OUTLET (30A, 250V, 3 POLE, 4 WIRE, TWIST-LOCK, GROUNDING TYPE, NEMA L15-30R)
- SINGLE SPECIAL-PURPOSE RECEPTACLE OUTLET; NUMBER CORRESPONDS TO THE SPECIAL-PURPOSE RECEPTACLE SCHEDULE
- SINGLE RECEPTACLE FOR ELECTRIC RANGE (50A, 125/250V, 3 POLE, 4 WIRE, GROUNDING TYPE, NEMA 14-50R)
- DUPLEX RECEPTACLE MOUNTED IN CEILING (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- TWO (2) DUPLEX RECEPTACLES MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- TWO (2) DUPLEX RECEPTACLES FLOOR MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)

LIGHT FIXTURES (SEE FIXTURE SCHEDULE ON E-60X FOR TYPE)

- LIGHT FIXTURE, CEILING MOUNTED
- LIGHT FIXTURE, CEILING MOUNTED, ON EMERGENCY CIRCUIT
- LIGHT FIXTURE, CEILING MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, WALL MOUNTED
- LIGHT FIXTURE. INDUSTRIAL STRIP. SURFACE OR PENDANT MOUNTED
- LIGHT FIXTURE, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED, ON EMERGENCY CIRCUIT
- LIGHT FIXTURE. INDUSTRIAL STRIP. SURFACE OR PENDANT MOUNTED. WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, CEILING MOUNTED
- LIGHT FIXTURE, CEILING MOUNTED, ON EMERGENCY CIRCUIT
- LIGHT FIXTURE, CEILING MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, WALL MOUNTED
- EMERGENCY BATTERY POWERED LIGHTING UNIT, WITH SELF CONTAINED BATTERY, CHARGER, ETC. (REFER TO FIXTURE SCHEDULE FOR BATTERY TYPE, VOLTAGE, LAMP TYPE, WATTAGE, ETC.) TRIANGLES DEPICT QUANTITY AND AIMING OF LAMP HEADS
- EXIT SIGN, LIGHTED, CEILING MOUNTED. SHADED AREA INDICATES FACE. ARROW DEPICTS DIRECTIONAL ARROW ON SIGN. WHEN REQUIRED BY THE FIXTURE SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED.
- EXIT SIGN, LIGHTED, WALL MOUNTED AT 7'-6" AFF (TO BOTTOM OF SIGN) UNLESS INDICATED OTHERWISE. ARROW DEPICTS DIRECTIONAL ARROW ON SIGN. WHEN REQUIRED BY THE FIXTURE SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED.
- FLOOD LIGHT, ARROW INDICATES DIRECTION OF BEAM
- **DOCK LIGHT**
- PARKING AREA LIGHT FIXTURE, POLE MOUNTED

COLOR LEGEND:

- **EXISTING TO REMAIN**
- DEMOLISH
- NEW CONSTRUCTION

ELECTRICAL SYMBOLS

TELEPHONE/COMMUNICATIONS/DATA (OUTLETS SHALL BE MOUNTED 18" AFF UNLESS INDICATED OTHERWISE)

- TELEPHONE OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD. SUBSCRIPT: W - WALL MOUNTED AT 54" AFF;
- TELEPHONE FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- DATA OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- DATA FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- COMBINATION VOICE/DATA OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- COMBINATION VOICE/DATA FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- WIRELESS ACCESS POINT OUTLET CEILING MOUNTED. OUTLET BOX WITH 1" C STUBBED

4'-0" HIGH x 3/4" THICK FIRE-RETARDANT PLYWOOD BACKBOARD. SEE PLANS FOR LENGTH.

ABOVE ACCESS CEILING SPACE AND PULL CORD. NUMBER INDICATES QUANTITY OF DATA JACKS. ABSENCE OF A NUMBER INDICATES ONE DATA JACK

CABLE TRAY

LIGHT FIXTURE IDENTIFICATION

· LOWER CASE LETTER BESIDE FIXTURE DENOTES SWITCH CONTROL (WHERE APPLICABLE) - UPPER CASE LETTER BESIDE EACH

FIXTURE DENOTES FIXTURE TYPE.

<u>SWITCHGEAR</u>

MAGNETIC MOTOR STARTER (FURNISHED BY DIVISION 23, UNLESS NOTED OTHERWISE)

ELECTRICAL PANELBOARD, FLUSH MOUNTED ELECTRICAL PANELBOARD, SURFACE MOUNTED

EXISTING ELECTRICAL PANELBOARD, FLUSH MOUNTED

EXISTING ELECTRICAL PANELBOARD. SURFACE MOUNTED

- SAFETY SWITCH; 30A CURRENT RATING UNLESS NOTED OTHERWISE. +4'-0" TO HANDLE
- FUSIBLE SAFETY SWITCH; CURRENT RATING AND FUSE RATING NOTED. +4'-0" TO HANDLE
- CIRCUIT BREAKER IN WALL MOUNTED ENCLOSURE
 - ELECTRICAL TRANSFORMER, FLOOR MOUNTED UNLESS INDICATED OTHERWISE

<u>SWITCHES</u> (MOUNTED AT 46", UNLESS INDICATED OTHERWISE) (LOWER CASE LETTER INDICATES DEVICES CONTROLLED)

SWITCH, SINGLE POLE, 20A

- SWITCH, DOUBLE POLE, 20A SWITCH
- \$3 3-WAY, 20A SWITCH
- \$4 4-WAY, 20A SWITCH
- \$K KEY OPERATED
- SINGLE POLE SWITCH, WITH PILOT LIGHT
- SINGLE POLE MANUAL MOTOR STARTING SWITCH, WITH THERMAL OVERLOAD ELEMENT AND PROVISIONS FOR LOCKING OPEN
- SWITCH, DIMMING (COORDINATE WITH FIXTURE MANUFACTURER)
- SWITCH, MULLION SWITCH
- \$LV LOW VOLTAGE WITH MOMENTARY CONTACTS SWITCH
- OCCUPANCY SENSOR, WALL MOUNTED, DUAL TECHNOLOGY
- OCCUPANCY SENSOR, CEILING MOUNTED, DUAL TECHNOLOGY
- PHOTOCELL

MULTIPLE DEVICES LOCATED SIDE BY SIDE (OR ABOVE AND BELOW, IF DIFFERENT ELEVATIONS ARE SHOWN) AT THE LOCATION INDICATED)

ELECTRICAL SYMBOLS

WALL MOUNTED VISUAL DEVICES TO BE LOCATED SUCH THAT THE ENTIRE LENS OF THE STROBE IS BETWEEN 80" AND 96" AFF. ALL WALL MOUNTED NOTIFICATION

SHALL BE MOUNTED AT THE SAME HEIGHT AFF TO ACHIEVE A UNIFORM APPEARANCE OR AS DIRECTED BY THE A/E.

MISCELLANEOUS

- JUNCTION BOX, WALL MOUNT AS INDICATED
- JUNCTION BOX, CEILING MOUNT AS INDICATED
 - CLOCK OUTLET, WALL MOUNTED 7'-6" AFF
- 10' BARE #6 COILED & EXOTHERMICALLY WELDED TO COLUMN
- CABLE TELEVISION OUTLET BOX MOUNTED 18" AFF WITH CONDUIT STUBBED ABOVE CEILING. PROVIDE PULL CORD.

CONDUIT RUN, EXPOSED

CONDUIT RUN, CONCEALED

FLEXIBLE CONDUIT

<u>CIRCUIT</u> **INFORMATION** HOMERUN DESIGNATION PHASE CONDUCTOR(S) EQUIPMENT GROUND (PROVIDE EQUIPMENT GROUND FOR ALL BRANCH CIRCUITS AND FEEDERS, WHETHER SHOWN OR NOT. WHERE SHOWN TO SHARE A CONDUIT, BRANCH CIRCUITS SHALL SHARE EQUIPMENT GROUND UNLESS INDICATED OTHERWISE) - NEUTRAL CONDUIT SIZE · WIRE SIZE CIRCUIT DESIGNATION

- CIRCUIT DESIGNATION INDICATES PANELBOARD AND CIRCUIT(S) TO WHICH HOMERUN IS CONNECTED.
- WIRE SIZE SHALL BE NO. 12, UNLESS INDICATED OTHERWISE
- O CONDUIT SIZE SHALL BE MINIMUM ALLOWED BY SPECIFICATIONS FOR NO. 12 SIZE WIRE, 3/4" FOR NO. 10, UNLESS INDICATED OTHERWISE.
- CIRCUIT INFORMATION PROVIDED AT THE HOMERUN SYMBOL SHALL APPLY THE ENTIRE LENGTH OF THE CIRCUIT (FROM PANELBOARD TO LAST LOAD).
- WHEN NO PHASE CONDUCTOR OR NEUTRAL IS INDICATED AT THE HOMERUN SYMBOL, PROVIDE ONE PHASE CONDUCTOR AND ONE NEUTRAL, BOTH NO. 12.
- SWITCHING CONDUCTORS, CONDUCTORS FOR NIGHT LIGHT CIRCUITS (UNSWITCHED), ETC. ARE NOT SHOWN, BUT SHALL BE PROVIDED AS NECESSARY.
- WIRE SIZE INDICATED ON THESE DOCUMENTS AS INDICATED BY "NO." OR "#" HAS THE SAME MEANING AS "AWG" (N.E.C. NOMENCLATURE). (I.E."NO. 12" OR "# 12" MEANS "12AWG" IN N.E.C. NOMENCLATURE.)

ELECTRICAL SYMBOLS

ABBREVIATIONS:

AFF = ABOVE FINISHED FLOOR AFL = ABOVE FINISHED LANDING GFI = GROUND FAULT INTERRUPTER IG = ISOLATED GROUND UIO = UNLESS INDICATED OTHERWISE WP = WEATHERPROOF CONSTRUCTION OF/OI = OWNER FURNISHED / OWNER INSTALLED CF/CI = CONTRACTOR FURNISHED / CONTRACTOR INSTALLED TYP = TYPICAL

GENERAL SYMBOLS NOTES

NIC = NOT IN CONTRACT

- 1. ALL SYMBOLS MAY NOT BE USED.
- 2. MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR OR GRADE TO THE CENTER LINE OF THE OUTLET, DEVICE, ETC. UNLESS INDICATED OTHERWISE.
- 3. LARGE AMPACITY CIRCUIT DESIGNATION EXAMPLE: 4 SETS OF 3#500, #250, #1/0G, 4"C MEANS IN EACH OF FOUR 4" CONDUITS INSTALL THREE 500 kCM CONDUCTORS, ONE 250 kCM NEUTRAL AND ONE #1/0 GROUND.
- 4. FOR CONCRETE SLAB PENETRATIONS WITH PVC, SEE DETAIL x, SHEET E-50x.

SINGLE LINE

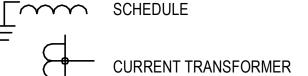
CIRCUIT BREAKER, TRIP RATING AS INDICATED, 3 POLE OR AS INDICATED

DISCONNECT SWITCH OR LOAD INTERRUPTER SWITCH CURRENT RATING AS INDICATED, 3 POLE OR AS INDICATED

TRANSFORMER, DESCRIPTION AS NOTED OR PER

SWITCH WITH GROUND FAULT INTERRUPTER

F30 FRS FUSE, CURRENT RATING AND TYPE WHEN INDICATED



POTENTIAL TRANSFORMER

SS PHASE SELECTOR SWITCH

A **AMMETER VOLTMETER**

 $\overline{}$

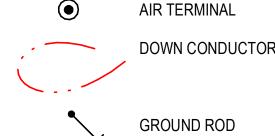
WH WATT-HOUR METER

SPD SURGE PROTECTIVE DEVICE AUTOMATIC TRANSFER SWITCH

GENERATOR

LIGHTNING PROTECTION LEGEND:

— - - — SURFACE MOUNTED LIGHTNING PROTECTION MAIN CONDUCTOR



GROUND ROD

__ - - COUNTERPOISE CONDUCTOR

BOND

C R O M W E L L

501.372.2900 9 9

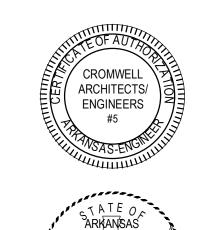
1300 East 6th Street Little Rock, AR 72202

 Δ Ш $\mathbf{\Omega}$ Ш Ш \triangle

CONSTRUCTION DOCUMENTS

Design Phase

Date Description Stamp



ENGINEER * * * No. 22761 07-31-2024

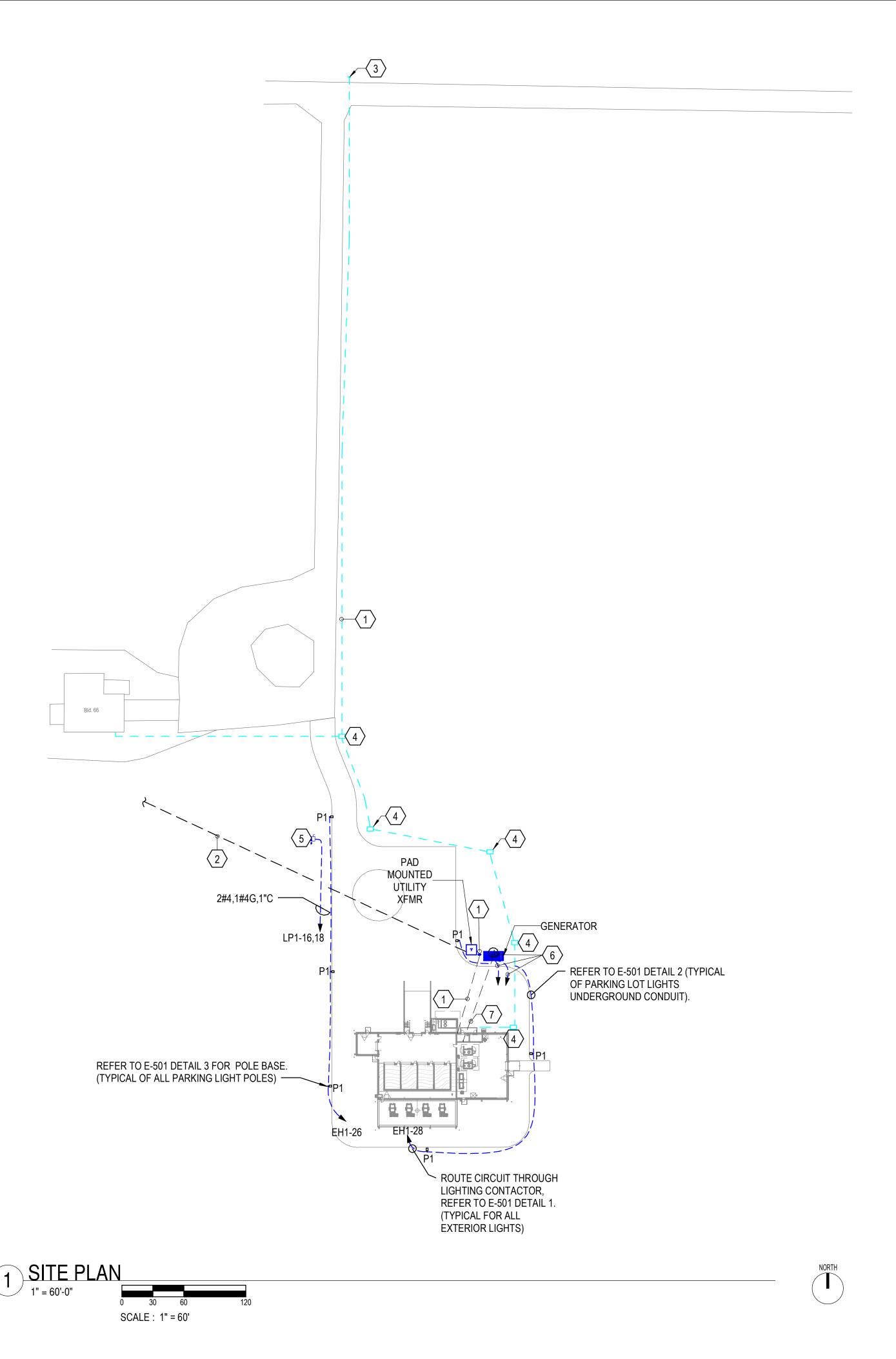
1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED

2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING. Project Number -

2024-045 Issue Date 07-31-2024 Sheet Title

ELECTRICAL LEGEND

Sheet Number





- A. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT CONTRACTORS EXPENSE
- B. COORDINATE WITH EACH LOCAL UTILITY COMPANY FOR CONNECTION OF NEW LINES AND METERS. PAY COSTS IF ANY.
- C. ALL UTILITIES ROUTED UNDERGROUND MAY REQUIRE SAW CUTTING EXISTING PAVEMENTS AND ROAD. PATCH ALL PAVEMENTS AND ROAD TO MATCH EXISTING.
- D. DASHED LINES IN CONDUIT INDICATE THAT THE CONDUITS ARE BURIED UNDERGROUND. CONDUITS SHALL BE BURIED NO LESS THAN 3'-0" UNDERGROUND.
- E. GENERATOR PAD SHALL BE LOCATED NO LESS THAN 50'-00" FROM BUILDING. REFER TO E-503 DETAIL 4 FOR PAD DETAIL.

KEYED NOTES:

- ROUTE (3) 4" PVC SCHEDULE 80 CONDUIT BURIED 3'-0" MINIMUM UNDERGROUND FOR UTILITY POWER. TRANSITION TO 4" RIGID METAL CONDUIT APPROXIMATELY 52'-0" FROM BUILDING. ONE CONDUIT IS SPARE.
- 3" SCHEDULE 80 PVC PIPE ROUTED UNDERGROUND TO UTILITY TIE IN POINT FOR PRIMARY SERVICE, PROVIDE A PULL STRING AND ELBOWS ON BOTH ENDS. COORDINATE WITH UTILITY AND PROVIDE ALL REQUIREMENTS.
- TIE IN TO EXISTING FIBER PATCH PANEL. LOCATION INDICATED BY THIS KEYNOTE IS APPROXIMATE, FIELD VERIFY EXACT LOCATION OF EXISTING FIBER HUT.
- PROVIDE AN INGROUND WEATHER PROOF BOX.
- 240V,3POLE,60A,NF WEATHERPROOF DISCONNECT BOX TO POWER LIFT STATION CONTROL PANEL. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH INSTALLER.
- JUNCTION BOX POWERS GENERATOR BATTERY AND BLOCK HEATER. COORDINATE EXACT LOCATION WITH GENERATOR. POWER FROM ELP1-23, ELP1-25.
- ROUTE ONE 4" AND THREE 1" PVC SCHEDULE 80 CONDUIT BURIED 3'-0" MINIMUM UNDERGROUND FOR GENERATOR BATTERY CHARGER, BLOCK HEATER AND CONTROLS. TRANSITION TO 4" RIGID METAL CONDUIT APPROXIMATELY 52'-0" FROM BUILDING.



. .

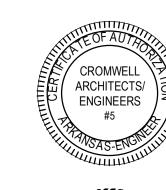
EROJET BUILDING 66 URE OVEN BUILDING AST CAMDEN,

CONSTRUCTION DOCUMENTS

Revis	ions ———	
	Date	Description

Stamp —

Design Phase





lotes ___

CROMWELL ARCHITECTS ENGINEERS, INC.
 ALL RIGHTS RESERVED

2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

2024-045

07-31-2024

Project Number —

Issue Date —

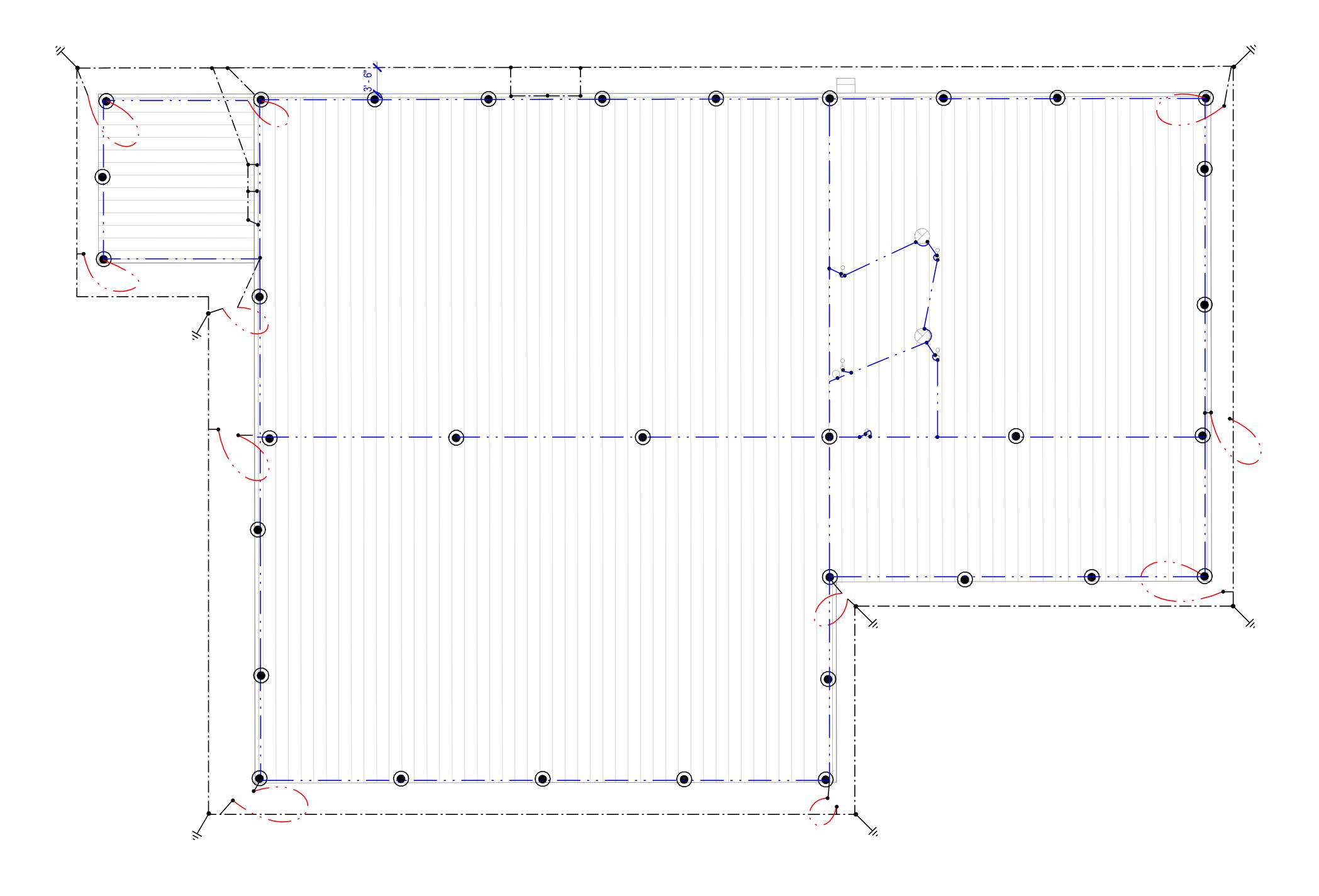
Sheet Title -

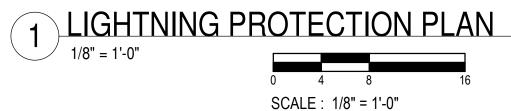
ELECTRICAL SITE

PLAN

Sheet Number

ES101







- A. LIGHTNING PROTECTION DESIGN IS TO SHOW INTENT ONLY, CONTRACTOR SHALL ENGAGE A THIRD PARTY LIGHTNING PROTECTION DESIGNER / ENGINEER WHOSE SOLE PURPOSE IS DESIGNING AND CERTIFYING LIGHTNING PROTECTION SYSTEMS TO PROVIDE A COMPLETE SYSTEM WITH UL MASTER LABEL. THE DESIGN SHALL MEET OR EXCEED REQUIREMENTS PRESCRIBED IN NFPA 780 CHAPTER 8.
- B. ALL MATERIALS SHALL BE CLASS II, UNDERWRITERS LABORATORIES LISTED AND LABELED. LABELS TO BE ON ALL AIR TERMINALS AND AT 10' INTERVALS ON CONDUCTOR CABLE.
- C. LOCATE AIR TERMINALS AS SHOWN AND AS REQUIRED BY NFPA 780. ENSURE THAT ALL AIR TERMINALS ARE WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, OUTSIDE CORNER. ENSURE AIR TERMINAL PROJECTS 10" ABOVE OBJECT PROTECTED AND THAT SPACING DOES NOT EXCEED 20'-0". AIR TERMINALS 2'-0" ABOVE OBJECT PROTECTED SHALL NOT EXCEED SPACING OF 25'-0".
- D. MAINTAIN DOWNWARD OR HORIZONTAL COURSING OF MAIN CONDUCTOR CABLE AND ENSURE THAT ALL BENDS HAVE AT LEAST AN 8" RADIUS AND DO NOT EXCEED 90 DEGREES.
- E. SUPPORT ALL EXPOSED CONDUCTOR CABLE AT 3'-0" ON CENTER MAXIMUM.
- F. BOND TO WATER SERVICE AND OTHER PIPING SYSTEMS AS REQUIRED BY CODE(S).
- G. INTERCONNECT LIGHTNING PROTECTION GROUND WITH OTHER BUILDING GROUND SYSTEMS AS REQUIRED BY CODE(S).
- H. BOND METAL BODIES ON ROOF THAT ARE OUTSIDE THE ZONE OF PROTECTION THAT ARE SUBJECT TO A DIRECT LIGHTNING STRIKE OR WHICH EXCEED THE HEIGHT OF ADJACENT AIR TERMINALS WITH MAIN SIZE CONDUCTOR CABLE. TYPICAL METAL BODIES INCLUDE BUT ARE NOT LIMITED TO: EXHAUST FANS, VENTS, HANDRAILS, AIR HANDLING UNITS, LADDERS, ANTENNAS, COOLING TOWERS, SKYLIGHTS, ETC.
- I. ACTUAL JOBSITE CONDITIONS MAY ALTER SOME AIR TERMINAL AND GROUNDING LOCATIONS.
- J. INSTALL GROUND ELECTRODES AS SHOWN AND AS REQUIRED BY CODE(S) BUT IN NO INSTANCE SHALL THEY BE LESS THAN 1'-0" BELOW GRADE AND 2'-0" FROM FOUNDATION WALL. ELECTRODES SHALL PENETRATE EARTH AT LEAST 10'-0".
- K. STRUCTURAL STEEL MAY BE USED AS A DOWN CONDUCTOR WHERE PERMITTED BY NFPA 780. MAKE ADDITIONAL CONNECTIONS AS REQUIRED BY NFPA 780.
- L. ADJUST LOCATIONS IN FIELD AS REQUIRED TO COMPLY WITH NFPA 780 BASED ON ACTUAL CONDITIONS.
- M. PROVIDE SURGE PROTECTION DEVICES MEETING THE REQUIREMENTS OF NFPA 780 FOR ALL POWER SERVICE ENTRANCES AND CONDUCTIVE COMMUNICATIONS SYSTEMS, AND ANTENNA SYSTEMS. MAKE ALL CONNECTIONS.
- N. PROTECT DOWN CONDUCTORS IN CONDUIT, ENTIRE VERTICAL ROUTING ON EXTERIOR OF BUILDING. PAINT TO MATCH ADJACENT SURFACE.
- O. REPAIR AREAS DISTURBED FOR GROUND ROD INSTALLATION TO EXISTING OR BETTER CONDITIONS AND GRADE PRIOR TO INSTALLATION. CUT CONCRETE AT EXISTING JOINTS WHERE APPLICABLE.

LIGHTNING PROTECTION LEGEND:

— - - — SURFACE MOUNTED LIGHTNING PROTECTION MAIN CONDUCTOR

•

AIR TERMINAL



GROUND ROD

DOWN CONDUCTOR



___ - - _ COUNTERPOISE CONDUCTOR

BOND

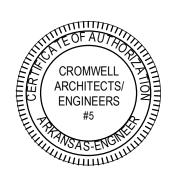


1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com



CONSTRUCTION DOCUMENTS

110 113	10113		
No.	Date	Description	





1 CDOMWELL ADOLLITECTS ENGINEE

CROMWELL ARCHITECTS ENGINEERS, INC.
 ALL RIGHTS RESERVED

2. THIS SHEET DESIGNED FOR COLOR PRINTING.
CRITICAL INFORMATION MAY BE LOST WITH
BLACK AND WHITE PRINTING.

Project Number ———

Issue Date

Sheet Title — 07-31-2024

2024-045

LIGHTNING PROTECTION PLAN

Sheet Number –

EG101



- A. ALL EXIT LIGHTS AND EMERGENCY LIGHTING UNIT TYPE EL SHALL BE POWERED FROM UNSWITCHED LIGHTING CIRCUIT INDICATED.
- MOUNT ALL EXIT LIGHTS 1' ABOVE DOOR JAMB.
- C. MOUNT TYPE W1 & W1E 8'-0" ABOVE FINISHED GRADE.
- D. MOUNT FIXTURE TYPE A & AE AT 14'-6" AFF. COORDINATE WITH OTHER DISCIPLINES ON FIXTURE PLACEMENT.
- E. ALL EXTERIOR LIGHTING SHALL BE POWERED THROUGH A LIGHTING CONTACTOR. REFER TO E-501 DETAIL 1.

KEYED NOTES:

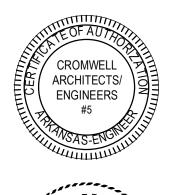
- JUNCTION BOX POWERS OVEN LIGHT FIXTURE, COORDINATE EXACT LOCATION WITH OVEN LIGHT LOCATION.
- 2 SURFACE MOUNT FIXTURES UNDERNEATH ROOF STRUCTURE.
- 3 MOUNT FIXTURES 8'-6" AFF IN THIS SPACE.
- MOUNT FIXTURES 11'-0" AFF IN THIS SPACE.

Project —

JET BUILDING 66B OVEN BUILDING CAMDEN,

CONSTRUCTION DOCUMENTS

evis	ions ——		
٧٥.	Date	Description	
tam	- a		





Notes __

CROMWELL ARCHITECTS ENGINEERS, INC.
 ALL RIGHTS RESERVED

2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

2024-045

Project Number ——

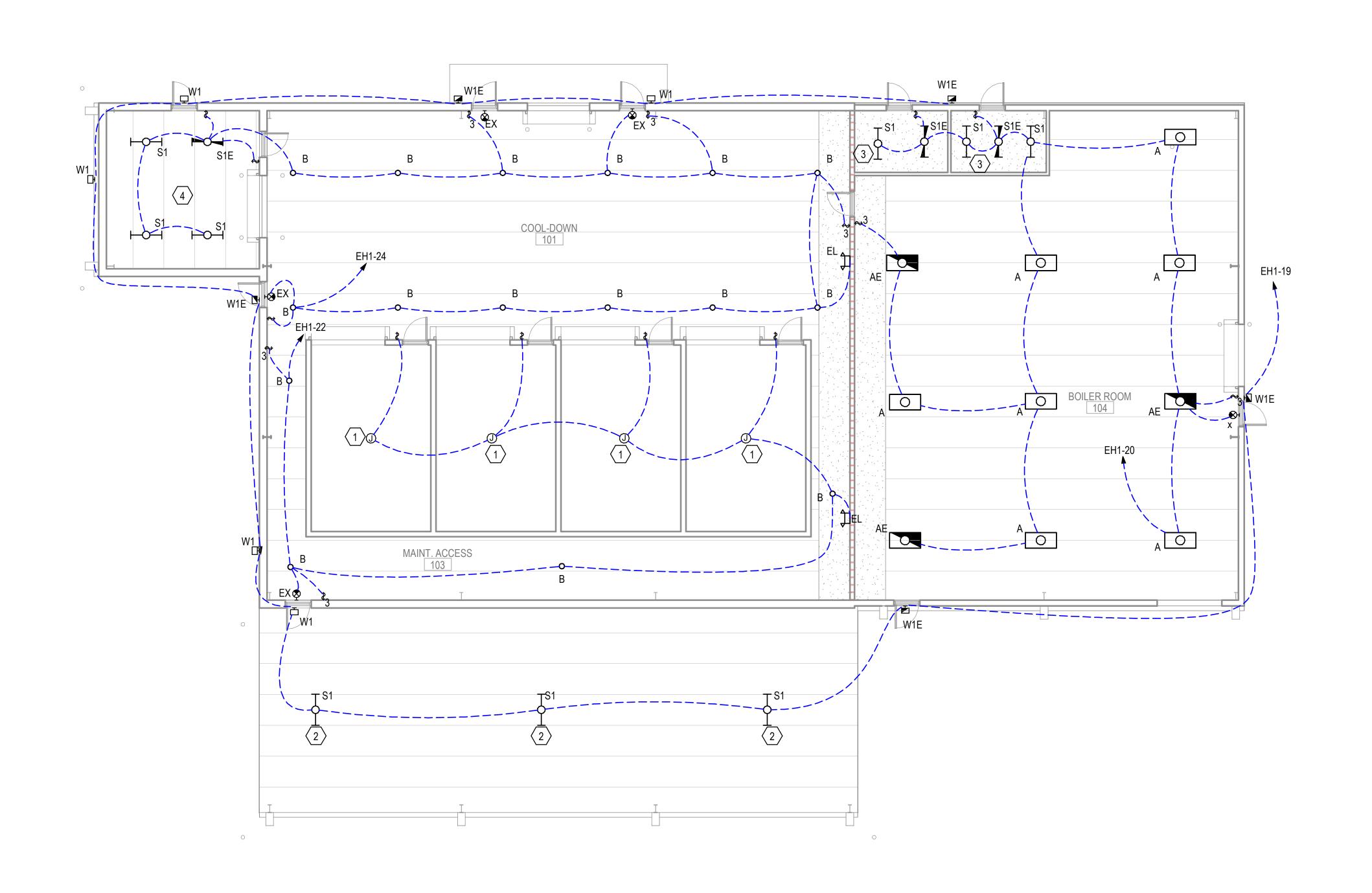
Issue Date —

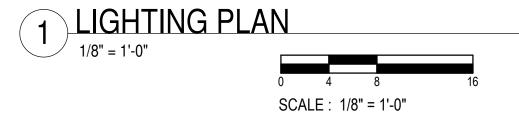
07-31-2024Sheet Title _____

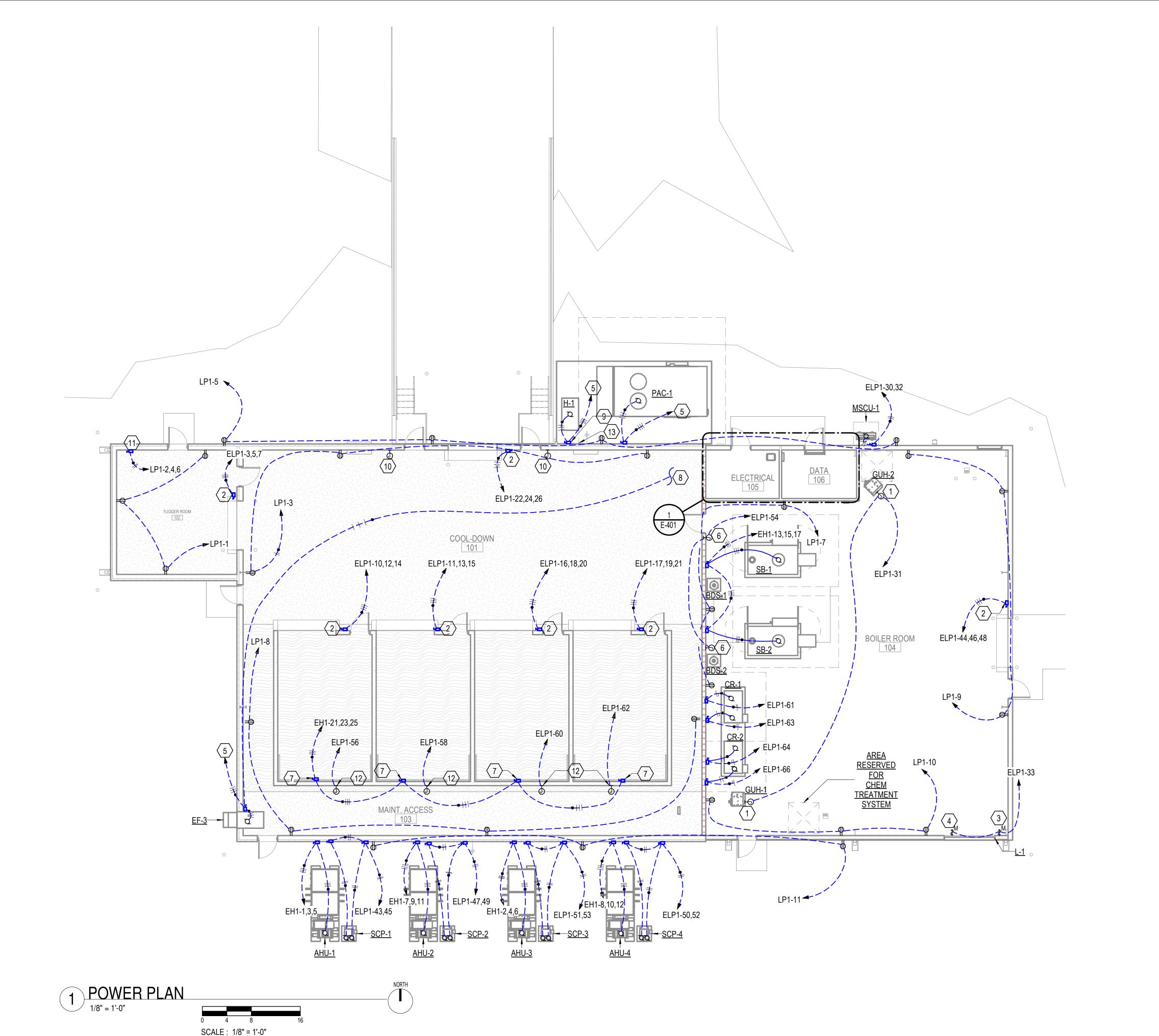
LIGHTING PLAN

Sheet Number —

EL101







- A. COORDINATE EXACT LOCATION OF DISCONNECTS POWERING MECHANICAL EQUIPMENT WITH INSTALLER. MAKE FINAL CONNECTIONS TO EQUIPMENT.
- B. CONTRACTOR SHALL WIRE EQUIPMENT PER MANUFACTURER INSTRUCTIONS. ALL WIRING AND CONNECTIONS SHALL BE PER MANUFACTURERS RECOMMENDATIONS.
- C. COORDINATE ALL CONDUIT LOCATIONS WITH OTHER DISCIPLINES.
- D. ALL EXTERIOR RECEPTACLES SHALL BE GFI TYPE WITH HEAVY DUTY WEATHERPROOF IN USE COVER.
- E. POWER INDICATED ON PLANS IS BASED ON BASIS OF DESIGN. IF DIFFERENT EQUIPMENT IS USED CONTRACTOR SHALL PROVIDE POWER PER MANUFACTURER'S RECOMMENDATIONS AT NO EXTRA

KEYED NOTES:

- JUNCTION BOX POWERS GAS HEATER. COORDINATE EXACT LOCATION WITH INSTALLER
- 240V,30A,3PHASE DISCONNECT POWERS OVER HEAD DOOR COORDINATE EXACT LOCATION WITH INSTALLER. COORDINATE AND PROVIDE EXACT POWER REQUIREMENTS WITH DOOR MANUFACTURER.
- MOTOR STARTER POWERS LOUVERS, COORDINATE EXACT LOCATION
- MOTOR STARTER POWERS EXHAUST FAN. COORDINATE EXACT LOCATION WITH INSTALLER.
- REFER TO SINGLE-LINE FOR POWER INFORMATION.
- JUNCTION BOX POWERS BOILER CONTROL PANEL. COORDINATE EXACT LOCATION WITH INSTALLER.
- DISCONNECT POWERS COOL DOWN FANS. COORDINATE EXACT LOCATION WITH COOL DOWN FAN INSTALLER.
- PARTIAL CIRCUIT, SEE E-401 FOR CONTINUATION.
- PROVIDE A 480V,3POLE,200A NON-FUSED DISCONNECT IN A NEMA 3R
- JUNCTION BOX POWERS ACCESS CONTROL, COORDINATE EXACT LOCATION WITH INSTALLER. POWER FROM ELP1-65.
- DISCONNECT POWERS TUGGER CHARGER, COORDINATE EXACT LOCATION WITH OWNER. POWER REQUIREMENTS ARE APPROXIMATE, FIELD VERIFY AND PROVIDE EXACT POWER REQUIREMENTS FROM EXISTING TUGGER.
- JUNCTION BOX TO POWER OVEN CONTROL PANEL, COORDINATE EXACT LOCATION WITH INSTALLER.
- JUNCTION BOX SERVES HEAT TRACE, ROUTE CONDUIT FROM ELECTRICAL ROOM TO THIS LOCATION, REFER TO E-401 KEYNOTE 9 FOR APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH HEAT TRACE INSTALLER.



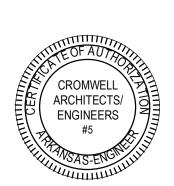
1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com

66B

DING. BUILI Z W BUIL

CONSTRUCTION **DOCUMENTS**

evisions ——————									
٧٥.		Description							





2024-045

07-31-2024

1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED

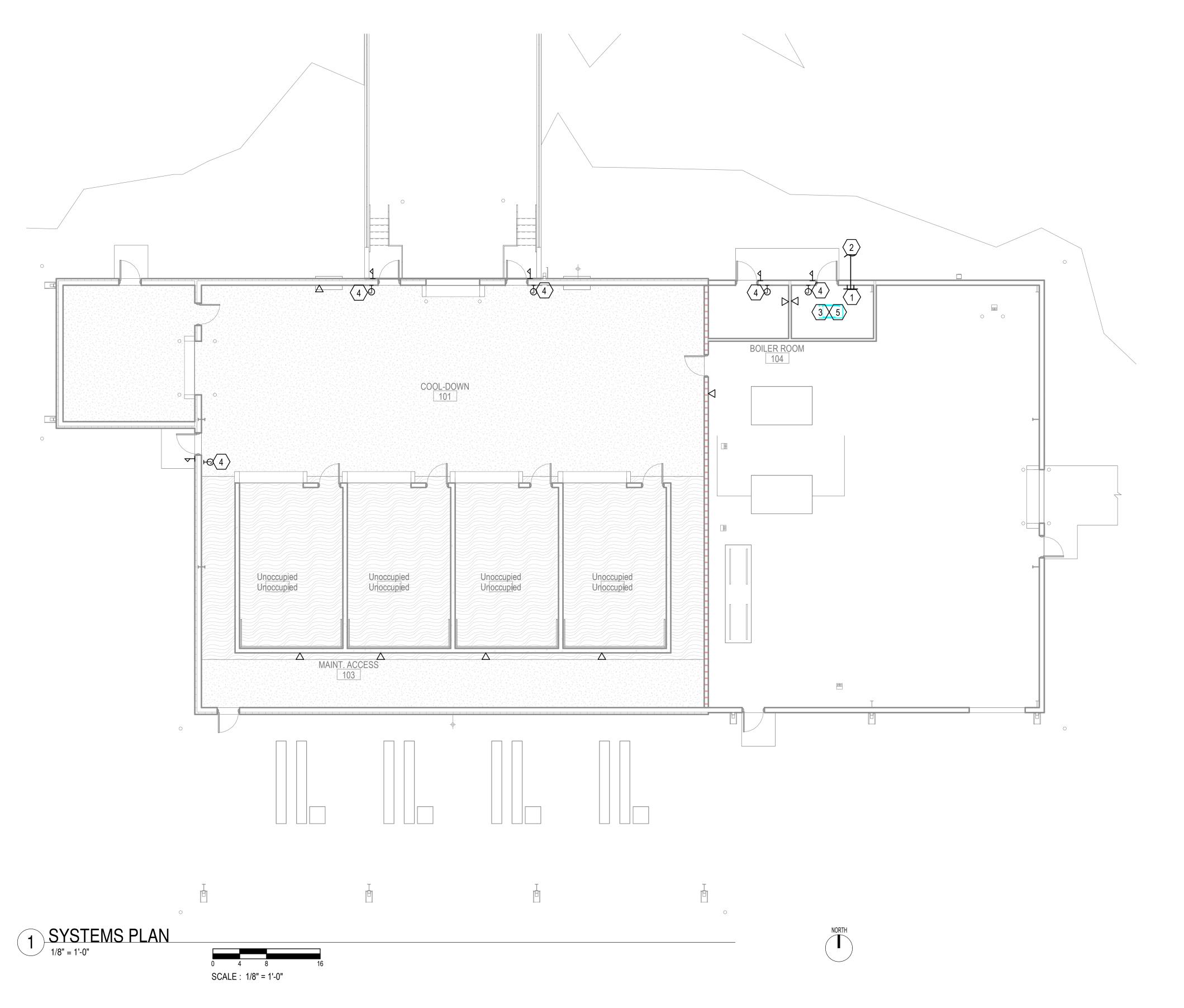
2. THIS SHEET DESIGNED FOR COLOR PRINTING.
CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

Project Number -

Sheet Title

POWER PLAN

Sheet Number



- A. REFER TO E-502 FOR ACCESS CONTROL DOOR DETAIL. PROVIDE ALL REQUIREMENTS.
- B. PROVIDE 1" CONDUIT FOR ALL DATA DEVICES AND SECURITY INDICATED, ROUTE CONDUIT TO TELECOMMUNICATIONS ROOM.
- C. PROVIDE CAT 6 CABLE TO DATA LOCATIONS, AND TERMINATE AT PATCH PANEL AND AT THE COMMUNICATIONS DATA OUTLET LOCATION.

KEYED NOTES:

- 1 TELECOMMUNICATIONS GROUND BUS BAR. GROUND RACK TO GROUND BUS BAR.
- CONNECT COMMUNICATIONS GROUND BUS BAR TO COUNTERPOISE USING A #4/0 CU BARE CONDUCTOR.
- PROVIDE 4 POST RACK PER OWNERS IT STANDARDS.
- ACCESS CONTROL JUNCTION BOX, COORDINATE EXACT LOCATION WITH INSTALLER.
- PROVIDE 24 PORT PATCH PANEL, USE PATCH PANEL TO PATCH INCOMING FIBER, PROVIDE 24 PORT COPPER PATCH PANEL AND PATCH ALL CAT6 LOW VOLTAGE WIRING TO THIS PATCH PANEL. REFER TO AEROJET IT STANDARDS FOR EQUIPMENT SPECIFICATION, REQUIRED WIRE MANAGERS AND OTHER LOW VOLTAGE REQUIREMENTS.



1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com

oject ———

AEROJET BUILDING 66B CURE OVEN BUILDING EAST CAMDEN,

CONSTRUCTION DOCUMENTS

No.	Date	Description
	·	
Stamp		

CROMWELL ARCHITECTS/ ENGINEERS #5



Notes

CROMWELL ARCHITECTS ENGINEERS, INC.
 ALL RIGHTS RESERVED

2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

2024-045

07-31-2024

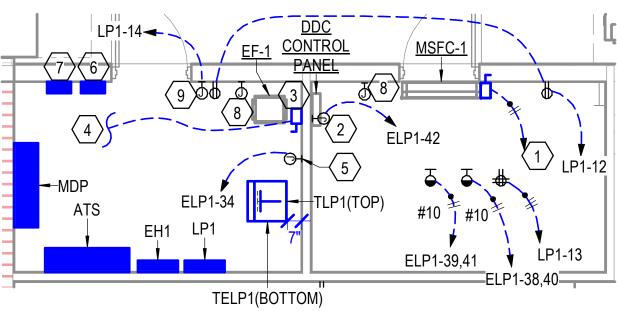
Project Number ——

Sheet Title ———

SYSTEMS PLAN

Sheet Number —

ET101



SCALE: 1/4" = 1'-0"

ENLARGED ELECTRICAL AND COMMUNICATIONS ROOM





KEYED NOTES:

- DISCONNECT POWERS INDOOR SPLIT UNIT. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
- JUNCTION BOX POWERS DDC CONTROL PANEL. COORDINATE EXACT LOCATION WITH INSTALLER.
- DISCONNECT POWERS EXHAUST FAN. COORDINATE EXACT LOCATION WITH INSTALLER.
- PARTIAL CIRCUIT, REFER TO CIRCUIT EP101 FOR CIRCUIT CONTINUATION.
- JUNCTION BOX POWERS FIRE ALARM CONTROL PANEL. COORDINATE EXACT LOCATION WITH INSTALLER.
- EXTERIOR LIGHTING CONTACTOR.
- REMOTE GENERATOR ANNOUNCIATOR PANEL. ROUTE 1" CONDUIT TO GENERATOR LOCATION. USE MANUFACTURER RECOMMENDED CABLE TYPE AND SIZE.
- JUNCTION BOX POWERS ACCESS CONTROL, COORDINATE EXACT LOCATION WITH INSTALLER. POWER FROM ELP1-65.
- JUNCTION BOX POWERS HEAT TRACE CONTROLLER, COORDINATE EXACT LOCATION WITH INSTALLER. ROUTE 1" CONDUIT TO LOCATION INDICATED BY KEYNOTE 13 ON EP101.

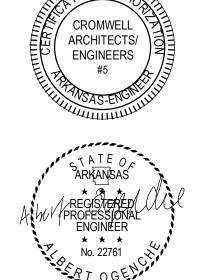
Project -

66B EN BUILDIN BUILDING Z 山 ERO URE

CONSTRUCTION **DOCUMENTS**

Design Phase

No.	Date	Description



- CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED
- 2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

2024-045

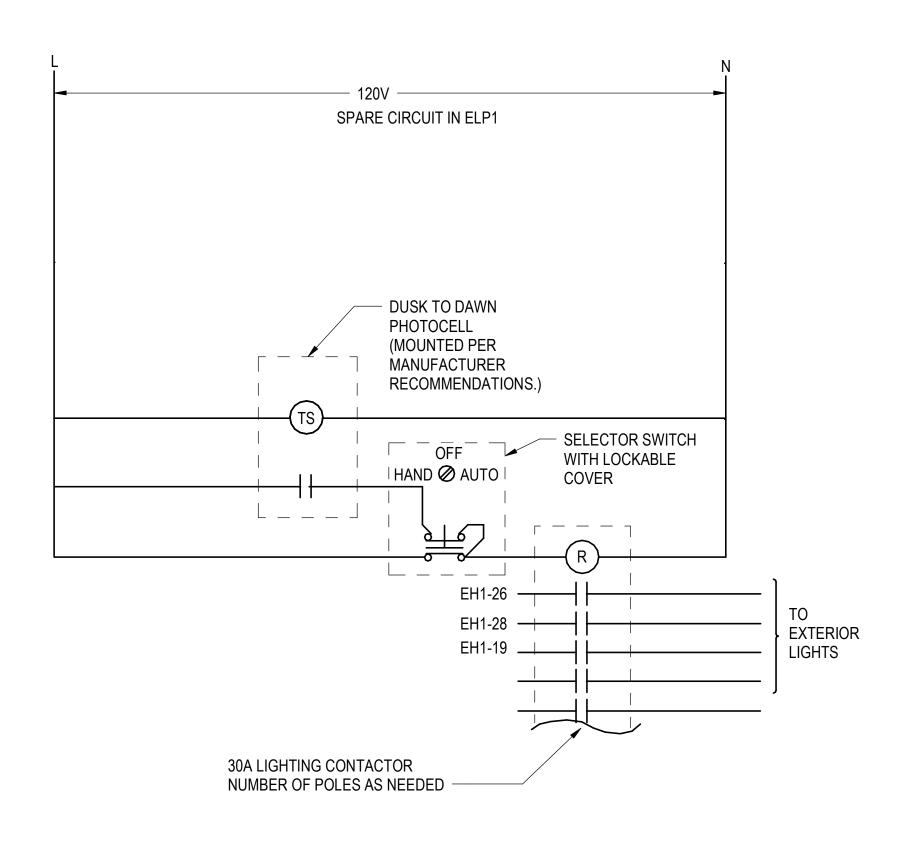
07-31-2024

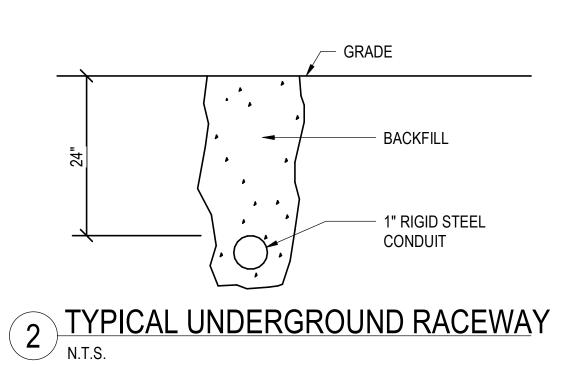
Project Number —

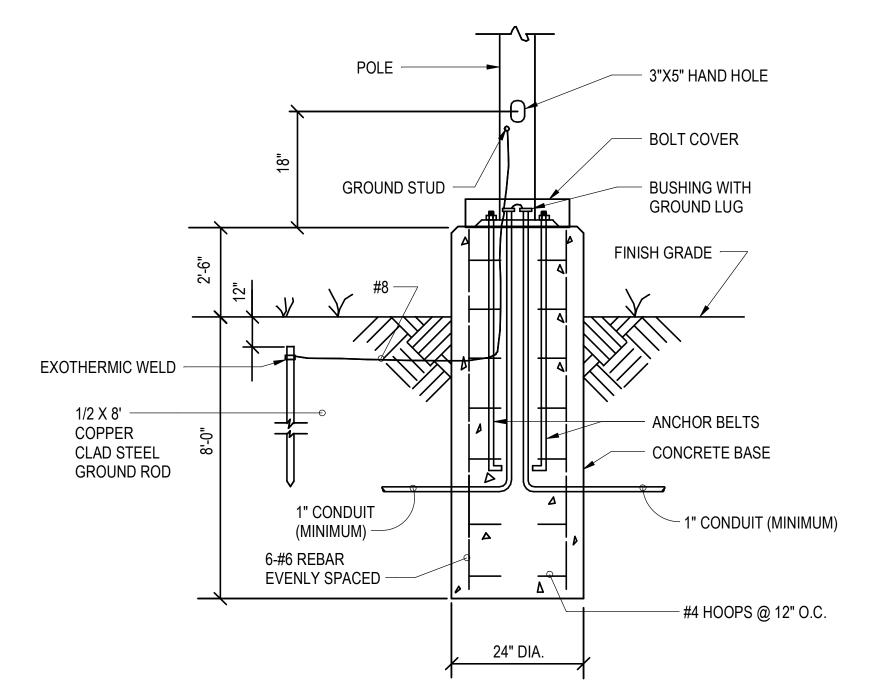
Sheet Title —

ENLARGED ELECTRICAL PLANS

Sheet Number —

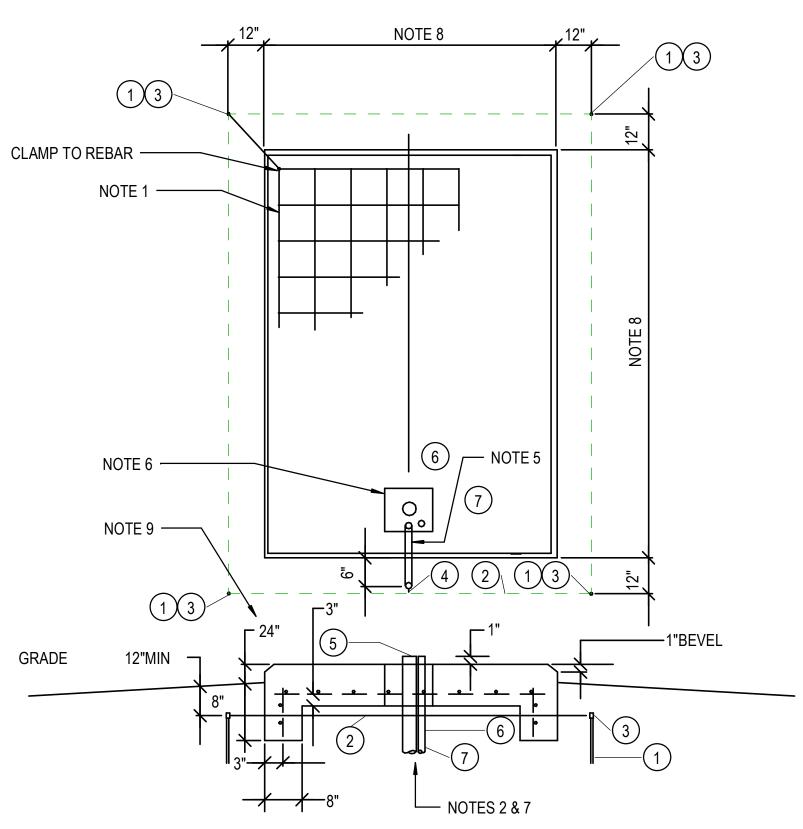






3 LIGHTING POLE BASE TYPE N.T.S.

1 TIME SWITCH SCHEMATIC DIAGRAM N.T.S.



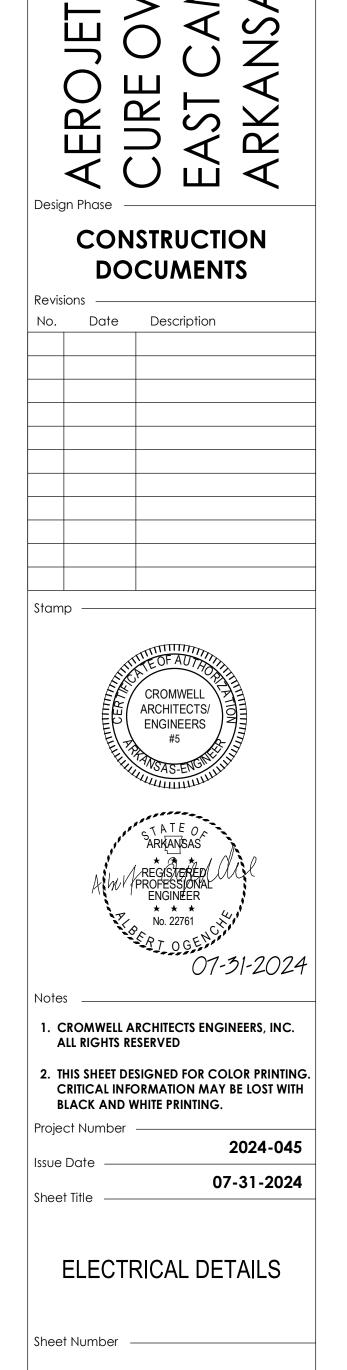
SECTIONAL VIEW

NOTES:

- 1. #4 REINFORCING BARS, 12" CENTER TO CENTER BOTH WAYS.
- 2. WHEN INTALLING CONDUIT, DISTURB GROUND IN FOUNDATION AREA AS LITTLE AS POSSIBLE.
- 3. TOP OF FOUNDATION TO BE SMOOTH AND LEVEL. FINAL GRADE SHALL SLOPE AWAY
- 4. CONCRETE SHALL BE 3500 PSI AT 28 DAYS.
- 5. CONTRACT OR SHALL FURNISH 1" CONDUIT UNDER PAD FOR GROUND WIRE.
- 6. OPENING SHALL BE PROVIDED FOR CONDUIT AS SHOWN. CONDUIT SHALL NOT BE CONCRETED IN. CONTRACTOR SHALL VERIFY DIMENSIONS OF OPENINGS AND REQUIRED LOCATIONS.
- 7. STUB OUT 2'-0" BEYOND PAD.
- 8. PAD TO BE 4'-0" GREATER IN WIDTH AND LENGTH THAN OUTSIDE DIMENSIONS OF GENERATOR HOUSING. VERIFY DIMENSIONS OF GENERATOR HOUSING WITH EQUIPMENT MANUFACTURER.
- 9. PAD TO BE RAISED TO PREVENT FLOODING IN CASE OF PUMP FAILURE. DIMENSION SHOULD BE MEASURED ABOVE TOP OF RIM OF DRAIN BASIN.

ROD, GROUND,3/4" X 10'-0"	4
CONDUCTOR, COPPER #1/0 BARE	
CLAMP GROUND ROD	4
CONNECTOR, COMPRESSION #1/0 COPPER	1
CONDUIT BUSHING	7
CONDUIT, 2" RGS	1
CONDUIT, 3/4" RGS	1
	CONDUCTOR, COPPER #1/0 BARE CLAMP GROUND ROD CONNECTOR, COMPRESSION #1/0 COPPER CONDUIT BUSHING CONDUIT, 2" RGS





CROMWELL

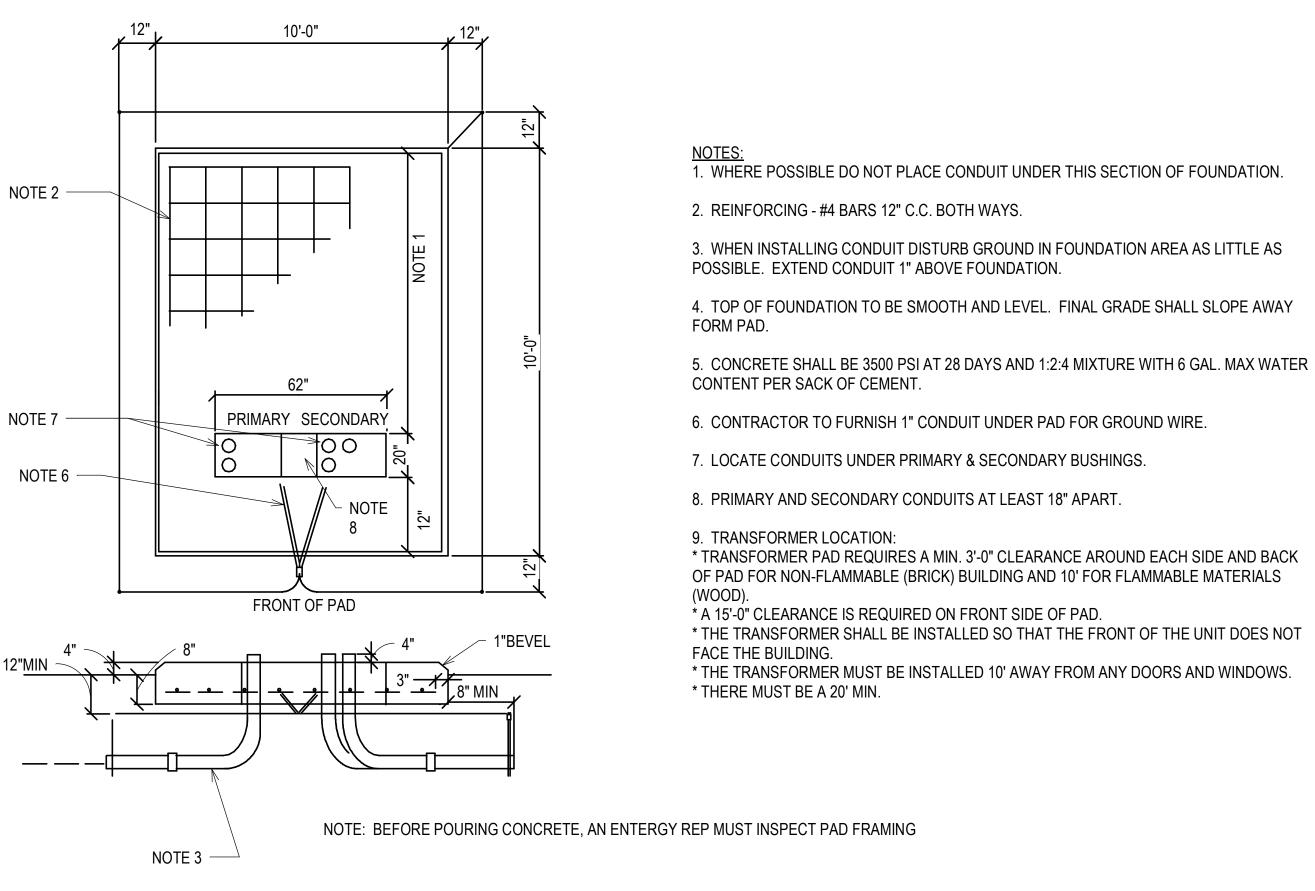
1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com

66B

BUILDING

EN BUILDING

ADEN,



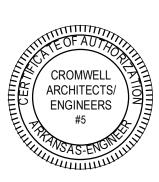
1 DT161 - THREE PHASE TRANSFORMER PAD FOUNDATION 150KVA - 2500KVA N.T.S.



66B EN BUILDIN BUILDING Z 山

CONSTRUCTION **DOCUMENTS**

No.	Date	Description
Stamp		





CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED

2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

2024-045

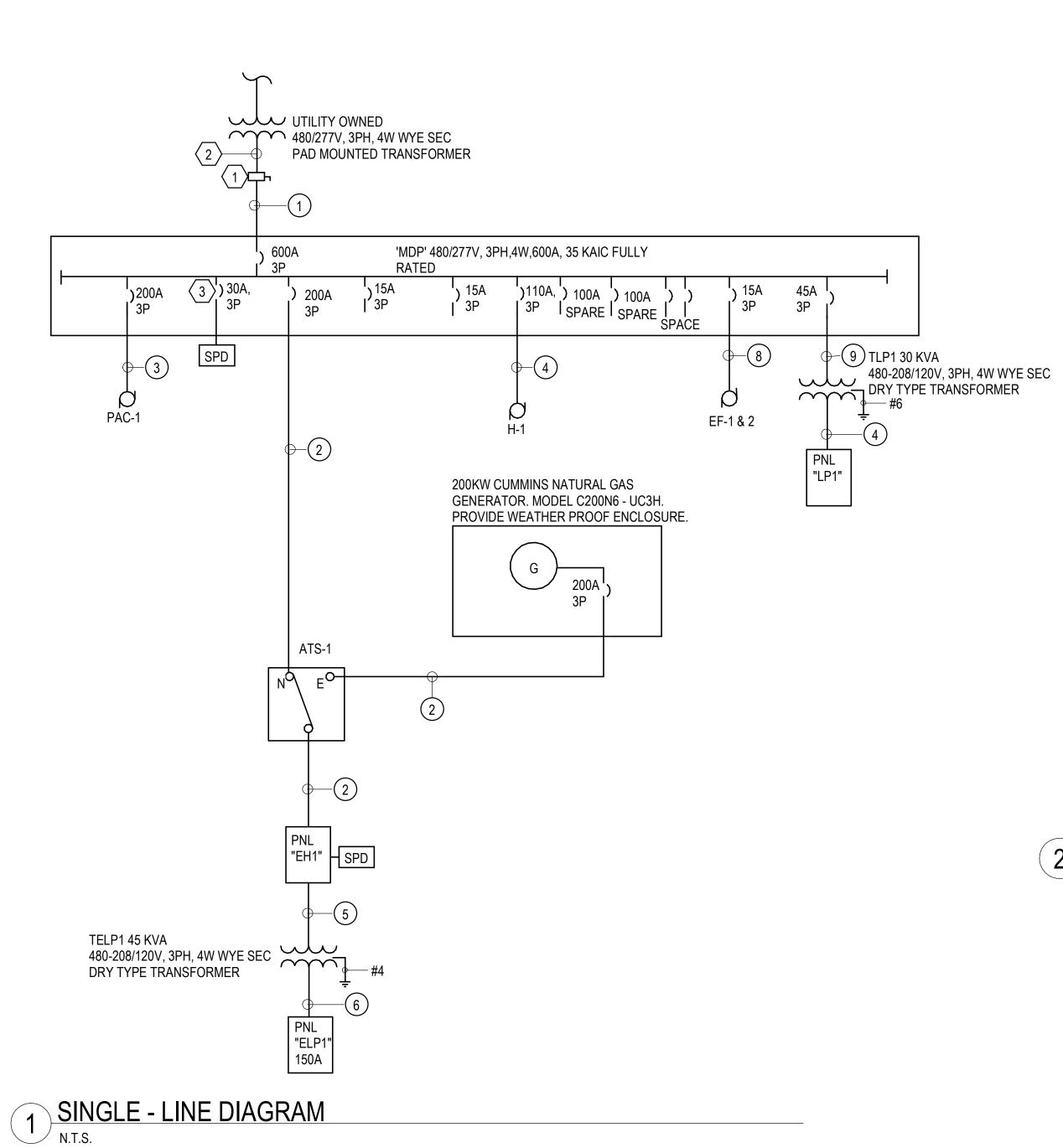
07-31-2024

Project Number —

Sheet Title

ELECTRICAL DETAILS

Sheet Number -



		FEEDER	SCHEDU	LE		
NUMBER	SETS	PHASE CONDUCTOR S (PER SET)	NEUTRAL CONDUCTOR S (PER SET)	GROUND CONDUCTOR S (PER SET)	CONDUIT SIZE (PER SET)	NOTES
1	2	3-#350	1-#350	1-#2/0	4"	
2	1	3-#3/0	1-#3/0	1-#6	2"	
3	1	3-#3/0	-	1-#6	2"	
4	1	3-#1	-	1-#6	1.25"	
5	1	3-#4	-	1-#8	1"	
6	1	3-#1/0	1-#1/0	1-#6	2"	
7	1	3-#4	1-#4	1-#8	1"	
8	1	3-#12	1-#12	1-#12	0.75"	
9	1	3-#6	1-#6	1-#6	0.75"	

- 1. ELECTRICAL CONTRACTOR TO COORDINATE THE MAXIMUM NO. OF SETS OF SERVICE ENTRANCE CONDUCTORS WITH UTILITY AND SWITCHBOARD EQUIPMENT PROVIDER.
- 2. ELECTRICAL CONTRACTOR TO COORDINATE AND PROVIDE APPROPRIATE LUG SETS AS REQUIRED FOR ALL TERMINATIONS SUITABLE TO CONDUCTOR TYPE, WIRE SPACE, AND ALL OTHER REQUIREMENTS.
- 3. FIELD CONDITIONS OF ACTUAL INSTALLATION MAY REQUIRE ELECTRICAL CONTRACTOR TO ADJUST CONDUCTOR AND CONDUIT SIZES UPWARD PER NEC REQUIREMENTS FOR DERATINGS, VOLTAGE DROP, ETC.
- 4. ALL RACEWAY SIZES (EMT/GRSC/PVC 400 ARE TO BE BASED ON THE NEC TABLE 4 (CHAPTER 9), 40% FILL COLUMN.

2 FEEDER SCHEDULE N.T.S.

GENERAL NOTES:

- A. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL HAVE A NEMA 3R ENCLOSURE.
- B. SPD'S CABLE SIZES SHALL BE PER MANUFACTURER RECOMMENDATIONS.
- C. PROVIDE CONCRETE PADS FOR ALL GROUND MOUNTED ELECTRICAL EQUIPMENT.
- D. PROVIDE ARC FLASH LABELS ON ALL PANELBOARDS, ALL SAFETY SWITCHES AND TRANSFORMERS.

KEYED NOTES:

- PROVIDE 480V,600AMP, 3PHASE, NEMA 3R DISCONNECT SWITCH TO DISCONNECT POWER PER UTILITY REQUIREMENTS.
- PROVIDE TWO SETS OF 4#350 KCMIL IN 4" CONDUIT. PROVIDE A SPARE 4" CONDUIT.
- SIZE PER MANUFACTURERS RECOMMENDATIONS.



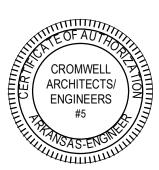
Project

EROJET BUILDING 66B URE OVEN BUILDING AST CAMDEN, RKANSAS

CONSTRUCTION DOCUMENTS

Design Phase

Revis	Revisions ————————————————————————————————————										
No.	Date	Description									
			_								





lotes ___

CROMWELL ARCHITECTS ENGINEERS, INC.
 ALL RIGHTS RESERVED

THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

2024-045

07-31-2024

Project Number -

Issue Date —

ELECTRICAL SINGLE-LINE DIAGRAM

Sheet Number -

E-601

	LIGHTING FIXTURE SCHEDULE												
TYPE	MANUFACTURER	CATALOG NUMBER	VOLTAGE	SOURCE	TOTAL FIXTURE LUMENS	MAXIMUM FIXTURE WATTAGE	DESCRIPTION	KEYED NOTES					
А	COOPER METALUX	LHBS-1218-UNV-L84050-LHBS-PMK	UNV	LED	12000	85	2X4 LENS						
AE	COOPER METALUX	LHBS-1218-UNV-L84050-EL20W-REMLHBS-PMK	UNV	LED	12000	85	2X4 LENS	1					
В	HOLOPHANE LIGHTING	HPLED-84LED-L5-MVOLT-40K-UNM-700MA-40C-DGXD	UNV	LED	21400	195	14" ROUND PENDANT LIGHT	2					
EX	ENVOY LIGHTING	XPEH-1-R-DT-2-2-W	UNV	LED	420 PER HEAD	10	CLASS 1 / CLASS II EXIT EMERGENCY LIGHT COMBO	2					
S1	COOPER LIGHTING	4VT3-LD5-5-W-UNV-L835-CD1	UNV	LED	5000	44	STRIP LIGHT						
S1E	COOPER LIGHTING	4VT3-LD5-5-W-UNV-EL10W-L835-CD1	UNV	LED	5000	44	STRIP LIGHT	1					
EL	ENVOY LIGHTING	XPEL-U-2-2-W	120/277V	LED	N/A	11	EMERGENCY LIGHTING UNIT	1,2					
W1	COOPER LIGHTING	PRV-P-PA1B-740-U-T4W-WM-BK	UNV	LED	4000	59	EXTERIOR WALL PACK						
P1	BEACON LIGHTING	(1) VP-4-720L-565-4K7-4W-UNV-DBT	UNV	LED	75000	565	PARKING LOT LIGHTING						
P-POLE	BEACON LIGHTING	RSS-B-30-60-C-XX-DBT	-	-	-	-	30'-0" SQUARE POLE						
W1	COOPER LIGHTING	PRV-P-PA1B-740-U-T4W-WM-BK	UNV	LED	4000	59	EXTERIOR WALL PACK						
X	COOPER LIGHTING	EDG-1-R-EL	120/277	LED	N/A	3.1	EXIT LIGHT, ARROWS AND FACES PER PLANS	1					

LIGHTING FIXTURE SCHEDULE GENERAL NOTES: 1. PROVIDE FLANGE KIT AS REQUIRED

LIGHTING FIXTURE SCHEDULE KEYED NOTES: 1. BATTERY BACK UP. ARROWS AND FACES PER PLANS 2. CLASS 1 DIV2 & CLASS 2 DIV 1 RATED FIXTURE



AEROJET BUILDING 66B CURE OVEN BUILDING CONSTRUCTION **DOCUMENTS** Date Description CROMWELL ARCHITECTS/ ENGINEERS

CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED

2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING. Project Number —

2024-045

07-31-2024

Sheet Title — ELECTRICAL

Sheet Number —

SCHEDULES

	PANEL MAIN	El-C		MOUNTING POLES		ACE	-	CATION_ 200		RM TRIP	200	MAIN BUS RATING	S 22	25	AMPS	
VC	DLTAGE			PHASE	-	-	I IVAIVIL _	200				ER INTERRUPTING CAPACITY	′ 10k	ζ۸		
٧٠				SN + EQP GND					IVIIIN	IIVIOIVI	DINLAIN	IN INTENNOL TING OALAGITE		V	-	
	DEVICE			BRANCH CIRCUIT			PH	ASE LOAI)			BRANCH CIRCUIT			DEVICE	<u> </u>
MPS					VOLT	NO	+	OLT AMPS	+	NO	VOLT					ΔМР
ΓRIP	POLES	IYPE	LOAD	DESCRIPTION	AMPS	NO	Α	В	С	NO	AMPS	DESCRIPTION	LOAD	IYPE	POLES	TRIF
15	3		Н	SUPPLY FAN OVEN1	2106	1	4212			2	2106	SUPPLY FAN OVEN 3	Н		3	15
-			Н	-	2106	3		4212		4	2106		Н			-
_			Н	-	2106	5			4212	6	2106	-	Н			-
15	3		Н	SUPPLY FAN OVEN2	2106	7	4212			8	2106	SUPPLY FAN OVEN 4	Н		3	15
-			Н	-	2106	9		4212		10	2106	-	Н			-
-			Н	-	2106	11			4212	12	2106	-	Н			-
15	3		Н	SB-1 & SB-2	942	13	942			14		SPARE			3	15
-			Н	-	942	15		942		16		-				-
-			Н	-	942	17			942	18		-				-
20	1		L	EXT LIGHTS	722	19	1882			20	1160	LIGHTS BLR, ELEC & COM	L		1	20
15	3		Н	COOL DOWN FAN OV 1-4	1220	21		2372		22	1152	LIGHTS OVEN	L		1	20
-			Н	-	1220	23			2416	24	1196	LIGHTS CLDOWN & TUG	L		1	20
-			Н	-	1220	25	2945			26	1725	PARKING LOT LIGHTING	L		1	20
20	1			SPARE		27		1726		28	1726	PARKING LOT LIGHTING	L		1	20
20	1			SPARE		29				30						-
20	1			SPARE		31				32		SPARE			3	15
20	1			SPARE		33				34		-				-
20	1			SPARE		35				36		-				-
70	3		М	TLP1	15000	37	15000			38		SPARE			3	15
-			М	-	15000	39		15000		40		-				-
-			М	-	15000	41			15000	42		-				-
20	1					43				44		SPARE			3	15
20	1					45				46		-				_
20	1					47				48		-				-
20	1					49				50		SPARE			3	15
20	1					51				52		-				-
20	1					53				54		-				-
		1			TOTAL		29193	28464	26782			KVA (CONNECTED) KVA (DEMAND)			(CONN (DEMA	

PANEL_		ELP1	_	SURFACE		_	_		ELEC RM MAIN BUS RATING 225 AMP						3
	MAIN	СВ	POLES		-	FRAME _	150								
VOI	LTAGE		_ PHASE	3	-			MIN	IMUM	I BREAKE	ER INTERRUPTING CAPACITY	10	KA	-	
			SN + EQP GND			T			<u> </u>				Ì		
			BRANCH CIRCUIT	T		PHASE LOAD					BRANCH CIRCUIT			DEVICE	
AMPS	POLES	TYPE		VOLT	NO		OLT AMPS		NO	VOLT		T	TYPE	POLES	AMF
IRIP		LOAD		AMPS		Α	В	С		AMPS	DESCRIPTION	LOAD			IRI
20	1		SPARE		1				2		SPARE			3	30
15	3	M	OVERHEAD DOOR TUGRM		3				4		-				-
-		M	-		5				6		-				-
-		M	-		7				8		SPARE			1	20
20	1	R	SPARE	1080			1780		10		OVEN-2 OVERHEAD DOOR	M		3	15
15	3	M	OVEN -1 OVERHEAD DOOR	700				1400		700		M			-
-		M	-	700	13	1400			14	700		M			-
-		M	-	700	15		1400		16		OVEN-3 OVERHEAD DOOR	M		3	15
15	3	M	OVEN -2 OVERHEAD DOOR	700	17			1400		700		M			-
-		M	-	700	19	1400			20	700	-	M			-
-		M	-	700	21		1400		22		OVERHEAD	M		3	15
20	1	M	BLOCK HEATER	500	23			1200		700	-	М			-
20	1	M	BATTERY CHARGER	500	25	1200			26	700	-	М			-
20			SPARE		27				28		SPARE			1	20
20	1		SPARE		29			1976	30	1976	MSCU-1	Н		2	30
20	1	M	GAS FIRED MECH RM	300	31	2276			32	1976	-	Н			-
15	1	М	LV1 , LV2 & EF-1	500	33		1500		34	1000	FACP PANEL	М		1	20
20	1		SPARE		35				36					1	20
20	1	R	QUADRAPLEX COMM	360	37	1860			38	1500	L630R COMM ROOM	М		2	30
30	2	М	L630R COMM ROOM	1500	39		3000		40	1500	-	М			-
-		М	-	1500	41			2500	42	1000	DDC CONTROL	М		1	20
15	2	Н	SCP1-PUMP 1 & PUMP 2	832	43	1458			44		MECH OVERHEAD	М		3	15
-		Н	-	832	45		1458		46	626	-	М			-
15	2	Н	SCP2-PUMP 1 & PUMP 2	832	47			1458	48	626	-	М			-
-		Н	-	832	49	1664			50	832	SCP4- PUMP1 & 2	М		2	15
15	2	Н	SCP3-PUMP 1 & PUMP 2	832	51		1664		52	832	-	М			_
-		Н	-	832	53			1032	54	200	SB1 & SB2 CONTROL PNL	Н		1	20
20	1		SPARE		55	500			56		OVEN CONTROL PANEL	Н		1	20
20	1		SPARE		57		500		58		OVEN CONTROL PANEL	Н		1	20
20	1		SPARE		59			500	60		OVEN CONTROL PANEL	Н		1	20
20	1	Н	CR-1 PUMP 1	1176	61	1676			62		OVEN CONTROL PANEL	H		1	20
20	1	H	CR-1 PUMP 2	1173	63		2349		64		CR2 PUMP-1	H		1	20
20	1		SPARE		65		-	1176			CR2 PUMP-2	H		1	20
20	1		SPARE		67				68		SPARE	1		1	20
20	1		SPARE		69				70		SPARE			1	20
20	1		SPARE		71				72		SPARE			1	20
	ı		J. 7 11 tim		73				74		J. 7 II C			1	
					75				76						
					77				78						
					79				80						
					81				82						
					83				84						
				TOTAL	00	13434	15051	12642		/1	KVA (CONNECTED)	11/		(CONN	L FCTE
						10-70-7	10001	12072			KVA (DEMAND)			(DEMA	

	PANEL	LF	P1	MOUNTING			-	CATION			_	MAIN BUS RATING	G1(00	AMPS	
	MAIN		В	POLES	3		FRAME	100								
VO	LTAGE				3				MIN	IIMUN	1 BREAKE	ER INTERRUPTING CAPACITY	Y <u>10</u>	KA		
		CESS	ORIES	SN + EQP GND										1	-	
DEVICE BRANCH CIRCUIT					PHASE LOAI					BRANCH CIRCUIT		DEVICE				
AMPS	POLES	TYPE			VOLT	NO		OLT AMPS		NO	VOLT		1	TYPE	POLES	AMPS
IRIP			LOAD		AMPS		A	В	С		AMPS	DESCRIPTION	LOAD			TRIP
20	1			RECEPT TUGGER	540	1	3340	2222		2		TUG CHARGER	M		3	30
20	1		R	RECEPT COOL DOWN	1080	3		3880		4	2800		M			-
20	1	G	R	RECEPTACLE EXT NORTH	720		1000		3520		2800		M			-
20	1	G	R	RECEPT MECH RM	540	7	1260			8		RECEPTS MAINT ACCESS	R		1	20
20	1	G	R	RECEPT MECH RM	540	9		1080		10		RECEPTS MECH ROOM	R	G	1	20
20	1	G	R	RECEPTACLE EXT SOUTH	540				900			RECEPTS COMM RM	R		1	20
20	1		R	QUADRAPLEX COMM	360	13	560			14		HEAT TRACE	M		1	20
20	1			SPARE		15		2746		16		LIFT STATION	M		2	45
20	1			SPARE		17			2746		2746		M			-
20	1			SPARE		19				20		SPARE			1	20
20	1			SPARE		21				22		SPARE			1	20
20	1			SPARE		23				24		SPARE			1	20
20	1			SPARE		25				26		SPARE			1	20
20	1			SPARE		27				28		SPARE			1	15
20	1			SPARE		29				30		SPARE			1	15
						31				32						
						33				34						
						35				36						
						37				38						
						39				40						
						41				42						
						43				44						
						45				46						
						47				48						
						49				50						
						51				52						
						53				54						
			ı	1	TOTAL		5160	7706	7166		20	KVA (CONNECTED)	56	AMPS	(CONNE	ECTED)
												KVA (DEMAND)			(DEMAI	



1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com

EN BUILDING

Z W

PANEL SCHEDULE LEGEND

MAIN
CB = CIRCUIT BREAKER

S = SHUNT TRIP

V = VARIABLE (ADJUSTABLE TRIP)

E = EQUIPMENT GROUND FAULT PROTECTION L = LOCKOUT DEVICE

H = HVAC

M = MISCELLANEOUS

S = SUBFED

SN = SOLID NEUTRAL EQP GND = EQUIPMENT GROUND BUS

ELP1

KAIC = KILO AMPERE INTERRUPTING CAPACITY

66B

BUILDING

ERO

Design Phase

LO = LUGS ONLY

BRANCH CIRCUIT BREAKER TYPE
A = ARC FAULT CIRCUIT INTERRUPTER G = GROUND FAULT CIRCUIT INTERRUPTER

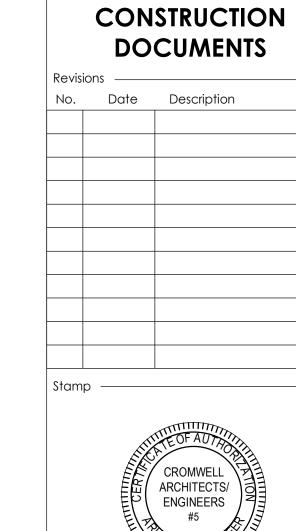
O = LOCK ON DEVICE OR BREAKER R = RED MARKING ON BREAKER

<u>LOAD TYPE</u> L = LIGHTING R = RECEPTACLE

V = VARIOUS

MISCELLANEOUS

IG = INSULATED GROUND BUS SPD = SURGE PROTECTIVE DEVICE AIC = AMPERE INTERRUPTING CAPACITY





CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED

2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

Project Number — 2024-045

07-31-2024 Sheet Title —

> **ELECTRICAL** SCHEDULES

Sheet Number —