STATE OF IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES IOWA MEDICAL CLASSIFICATION CENTER ELECTRICAL UPGRADES PROJECT #: 9353.00 100% CD 02/21/2025



KIM REYNOLDS, GOVERNOR

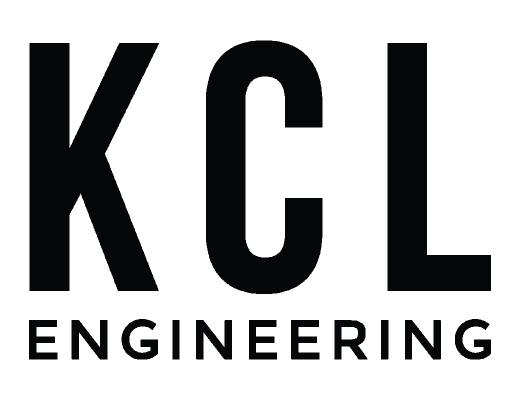
ADAM GREGG, LT. GOVERNOR

Department of **Administrative Services**

ADAM STEEN, DIRECTOR



Design Construct Furnish



OWNER IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES 109 SE 13TH STREET DES MOINES, IA 50319 **OWNER PROJECT NUMBER: 9353.00**

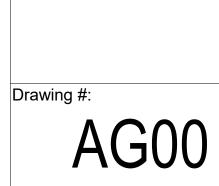
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I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that i am a duly licensed Professional Engineer under the laws of the State of lowa in 02/21/202 (signature) (date) ERIC HEYNEN, P.E License Number : P24706 My license renewal date is December 31, 2025 Pages or sheets covered by this seal: E. Sheets

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Drawing Name:

TITLE SHEET

INSTALLATION NOTES - ELECTRICAL

1.

- BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BID. INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO 2. CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
- RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE GENERAL 3. AND APPROXIMATE LOCATIONS. LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF
- INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. 4. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND
- OPERATIONAL SYSTEM.
- PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
- BALANCE PANEL LOADS DURING INSTALLATION. CIRCUIT NUMBERING SHOWN ON PLANS 6. MAY BE ADJUSTED TO ACCOMMODATE.
- EXISTING PANELS WITH CIRCUITS MODIFIED AS A RESULT OF THIS PROJECT. USE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES.

- PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND

- CONTRACTOR IS RESPONSIBLE FOR OPENINGS IN WALLS, FLOORS, CEILINGS, AND 8.
- ROOFS THAT ARE REQUIRED TO COMPLETE THEIR SCOPE OF WORK. SEAL PENETRATIONS IN ACCORDANCE WITH THE RATING OF THE AFFECTED ASSEMBLY. SEAL AND INSTALL FIRESTOPPING TO MATCH EXISTING ONSITE CONDITIONS.

DEVICE INSTALLATION AND MATERIALS - ELECTRICAL

- PROVIDE NORMAL WIRING DEVICES AS GRAY UNLESS OTHERWISE NOTED. 1.
- 2. PROVIDE DEVICES COVER PLATES AS <u>STAINLESS STEEL</u>. MATCH WIRING DEVICES COLOR.
- PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC. 3.
- INSTALL WALL MOUNTED RECEPTACLES AT +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE 4. NOTED.

INSTALLATION NOTES - LIGHTING

REQUIRED FOR OPERATION.

- UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-1. SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION. INSTALL PER EMERGENCY FIXTURE OR TRANSFER DEVICE INSTRUCTIONS.
- VERIFY CEILING TYPE (IE. GRID, GYP) WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO RELEASE OF LIGHTING FIXTURE EQUIPMENT PACKAGE. ADJUST FIXTURE TYPE, CONSTRUCTION, FLANGE, OR OTHER COORDINATION DETAILS AS REQUIRED FOR CEILING TYPE.
- LIGHTING CONTROLS SENSORS ARE SHOWN ON PLANS AT SUGGESTED LOCATIONS ONLY. VERIFY LOCATIONS WITH MANUFACTURER GUIDELINES AND INSTALLATION RECOMMENDATIONS. ADJUST LOCATIONS AS REQUIRED TO MEET MANUFACTURER
- GUIDELINES.
- PROVIDE LIGHTING CONTROLS AS A COMPLETE SYSTEM AND INCLUDE MATERIAL AND 4. INSTALLATION FOR ALL POWER PACKS, ACCESSORIES, CONTROLLERS, AND WIRING

BUILDING EQUIPMENT COORDINATION NOTES - ELECTRICAL

- PROVIDE DISCONNECTS RATED FOR EQUIPMENT AS REQUIRED AND AS INDICATED WITHIN 1 EQUIPMENT CONNECTION SCHEDULE. COORDINATE DISCONNECT MOUNTING TO ALLOW EQUIPMENT REMOVAL WITHOUT DISCONNECT REMOVAL AND TO MINIMIZE WIRING WORK REQUIRED.
- PROVIDE HEAVY DUTY TYPE DISCONNECTS RATED FOR THE INSTALLED ENVIRONMENT. PROVIDE MINIMUM NEMA 3R RATED DISCONNECTS FOR EXTERIOR INSTALLATIONS OR AS NOTED.

ALTERNATE LIST- ELECTRICAL

- 1. UPS BATTERY SYSTEM TYPE. BASE BID IS VRLA. ADD ALTERNATE FOR LITHIUM. ARC FLASH DATA COLLECTION AND LABELING FOR ENTIRE CAMPUS 2.
 - DATA COLLECTION:

 A.
 COMPILE INFORMATION ON PROJECT-SPECIFIC CHARACTERISTICS OF ACTUAL

 INSTALLED EQUIPMENT, PROTECTIVE DEVICES, FEEDERS, ETC. AS NECESSARY TO DEVELOP ASSOCIATED INPUT DATA FOR USE IN SYSTEM
 - MODELING. 1. UTILITY SOURCE DATA: INCLUDE PRIMARY VOLTAGE, MAXIMUM AND
 - MINIMUM THREE-PHASE AND LINE-TO-GROUND FAULT CURRENTS, IMPEDANCE, X/R RATIO, AND PRIMARY PROTECTIVE DEVICE
 - INFORMATION. OBTAIN UP-TO-DATE INFORMATION FROM UTILITY COMPANY.
 - TRANSFORMERS: INCLUDE PRIMARY AND SECONDARY VOLTAGE RATINGS, KVA RATING, WINDING CONFIGURATION, PERCENT IMPEDANCE, AND X/R RATIO.
 - В. PROTECTIVE DEVICES: CIRCUIT BREAKERS: INCLUDE MANUFACTURER/MODEL, TYPE (E.G. THERMAL MAGNETIC, ELECTRONIC TRIP), FRAME SIZE, TRIP RATING,
 - VOLTAGE RATING, INTERRUPTING RATING, AVAILABLE FIELD-ADJUSTABLE TRIP RESPONSE SETTINGS, AND FEATURES (E.G. ZONE SELECTIVE INTERLOCKING).
 - FUSES: INCLUDE MANUFACTURER/MODEL, TYPE/CLASS (E.G. CLASS J), SIZE/RATING, AND SPEED (E.G. TIME DELAY, FAST ACTING). PROTECTIVE RELAYS: INCLUDE MANUFACTURER/MODEL, TYPE, SETTINGS, C.
- CURRENT/POTENTIAL TRANSFORMER RATIO, AND ASSOCIATED PROTECTIVE DEVICE
- CONDUCTORS: INCLUDE FEEDER SIZE, MATERIAL (E.G. COPPER, ALUMINUM), D. INSULATION TYPE, VOLTAGE RATING, NUMBER PER PHASE, RACEWAY TYPE, AND ACTUAL LENGTH.
- LABELING A. KO KCL ENGINEERING WILL PREPARE ARC FLASH REPORT AND PROVIDE PRINTED LABELS TO CONTRACTOR FOR INSTALLATION ON ELECTRICAL EQUIPMENT.

UNIT PRICING - EXIT SIGNS

- EXIT SIGNS SHOWN ON DRAWINGS ARE IN LOCATIONS BASED OFF EXISTING DOCUMENTATION AND FIELD VERIFICATION. NOT ALL EXIT SIGNS SHOWN ON PLANS MAY BE AN EXISTING LOCATION, AND THERE MAY BE ADDITIONAL LOCATIONS NOT SHOWN ON PLANS.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXIT SIGN LOCATIONS AND REPLACE ANY EXIT SIGNS NOT SHOWN ON PLANS WITH NEW. CIRCUIT EXIT SIGN TO NEAREST LIGHTING INVERTER WITH AVAILABLE CAPACITY.

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PROVIDE SEPARATE LINE ITEM WITH UNIT PRICE FOR EXIT SIGN WITH EXPECTED 25' MC 3 CABLING WHIP.

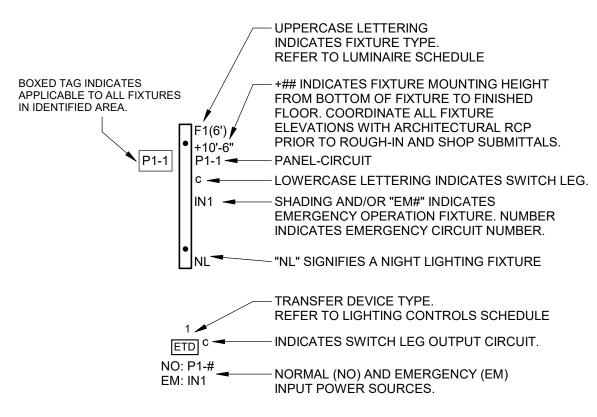
	ELEC	TRICAL ABBREVIATIONS				
	A AFF ATS C CB CT E E C E M F A C F A C F A C F A C F S D G ND K V A K W MC B MDP MLO N	DEVICE MOUNTED +8" ABOVE COUNTER TOP (VERIFY LOCATION) ABOVE FINISHED FLOOR AUTOMATIC TRANSFER SWITCH CEILING CIRCUIT BREAKER CURRENT TRANSFORMER EXISTING ITEM TO REMAIN ELECTRICAL CONTRACTOR EMERGENCY LIGHT FIXTURE NEW LOCATION OF EXISTING ITEM ROUGH IN FOR FUTURE DEVICE FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FIRE SMOKE DAMPER GROUND FAULT CIRCUIT INTERRUPTER GROUND KILO-VOLT-AMPERES KILOWATTS MECHANICAL CONTRACTOR MAIN CIRCUIT BREAKER MAIN DISTRIBUTION PANEL MAIN LUGS ONLY NEW DEVICE IN EXISTING LOCATION	NL NM NTS OC OFCI OFOI R RR RN SCCR T TCC TV TYP UPS V VA WG WP WR +24"	UNSWITCHED NIGHT LIGHTING CIRCUIT NONMETALLIC NOT TO SCALE ON CENTER OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED, OWNER INSTALLED EXISTING ITEM TO BE REMOVED EXISTING ITEM TO BE REMOVED AND RELOCATED EXISTING ITEM TO BE REMOVED AND REPLACED WITH NEW SHORT CIRCUIT CURRENT RATING TAMPER PROOF DEVICE TEMPERATURE CONTROL CONTRACTOR TELEVISION TYPICAL UNINTERRUPTIBLE POWER SUPPLY VOLTS VOLT-AMPERES WIREGUARD COVER WEATHER RESISTANT DEVICE INDICATES MOUNTING HEIGHT CENTER LINE OF DEVICE TO FINISHED FLOOR		
-	GENE	ERAL NOTES - ELECTRICAL				
	1.	COORDINATE LOCATION/INSTALLATION ELI INSTALLATION AND ROUGH-IN ONLY AFTER COORDINATE WITH EXISTING BUILDING STI METAL, ALL PIPING SYSTEMS, LIGHT FIXTUR ACCESS/CLEARANCE, ETC. REFER TO ALL THIS PROJECT.	R PROPE RUCTUF RES, CC	R AND TIMELY COORDINATION. RE, ARCHITECTURE, MECHANICAL SHEET		
	2.	NEW CONDUIT AND PATHWAYS IN EXPOSE MORE ABOVE FLOOR UNLESS SPECIFICALI				
;	3.	ELECTRICAL DRAWINGS ARE ONLY A PORT CONTRACT DOCUMENTS. THE ELECTRICAL SET OF CONTRACT DOCUMENTS. THIS INC ARCHITECTURAL PLANS FOR DIMENSIONS REQUIREMENTS, MECHANICAL PLANS FOR	LSCOPE	OF WORK IS DEFINED BY THE COMPLETE BUT IS NOT LIMITED TO REFERENCING; TAILS; EQUIPMENT PLANS FOR ROUGH-IN		
4	4.	NOTIFY OWNER BEFORE CREATING ANY SI AROUND FIRE ALARM DEVICES.	MOKE, H	IEAT, MOISTURE, STRONG FUMES OR DUST		
ł	5.	NOTIFY OWNER A MINIMUM OF 72 HOURS I TRANSFER.	N ADVA	NCE OF ANY WORK, SHUTDOWN, OR		
(6.	NEW INVERTERS WILL NEED TO BE INSTAL INSTALLED AND IN USE. NEW PANELS BRA INVERTERS.				
(CODE	E NOTES - ELECTRICAL				
	1.	PROVIDE ELECTRICAL INSTALLATION IN AC	CORDA	NCE WITH ALL STATE CODES.		
2	2.	THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH AHJ WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.				
;	3.	INSTALLATION SHALL FOLLOW REQUIREME DISABILITIES ACT.	ENTS OF	THE ADAAG -AMERICANS WITH		
<u> </u>	DEMO	DLITION AND RENOVATION NOTES	S - ELE	CTRICAL		
	1.	BASED ON FIELD OBSERVATION AND ORIG	INAL DR TIONAL	COMPONENTS MAY EXIST WHICH ARE NOT		
	2.	PROVIDE EQUIPMENT, LABOR, AND MATER CLEAR THE AREA TO RECEIVE THE NEW W				
:	3.	IN OCCUPIED AREAS BEYOND THE DEMOLI AFFECTED BY PROJECT SCOPE OPERATIO OBTAIN PERMISSION FROM OWNER'S REPI WHICH MAY AFFECT OTHER AREAS BEYON OWNER'S REPRESENTATIVE OF THE REAS ENSURE THAT THE SHUTDOWN IS MADE W AS POSSIBLE.	NAL THI RESENT ID THE L ON FOR	ROUGH THE DURATION OF THE PROJECT. ATIVE TO SHUT OFF SERVICES OR SYSTEMS IMITS OF THE DEMOLITION AREA. INFORM AND DURATION OF THE SHUTDOWN AND		
4	4.	REMOVE CONDUITS, BOXES, ETC., AS REQ COMPONENTS DEMOLITION. REMOVE EXIS				
4	5.	INSTALL NEW CONDUCTORS FOR NEW CIR SPECIFICALLY NOTED OTHERWISE. RETAIN APPROVED BY ENGINEER OR AS INDICATE	EXISTI	N REMODELED AREAS UNLESS NG CONDUITS IN GOOD CONDITION WHERE		
(6.	IDENTIFY DISCONNECTED BRANCH CIRCUI DISCONNECTION. UPDATE PANEL/EQUIPME				
-	7.	MAINTAIN CIRCUITS SERVING AREAS BEYO AND BYPASS DEMOLISHED DEVICES TO MA				
1	8.	KEEP EXISTING SYSTEMS OPERATIONAL D CUT EXISTING TELECOMMUNICATION WIRI IN-SERVICE CABLES ARE RESPONSIBLE FC	NG, CAE	LES OR CONDUIT. CONTRACTORS WHO CUT		
9	9.	INSTALL BLANK COVER PLATES OVER OPE INCLUDES BUT IS NOT LIMITED TO, CLOCKS ETC.				
	10.			ATERIALS AS REQUIRED FOR THE PROPER E INSTALLATION OF THE NEW WORK.		

- MAINTAIN FULL FUNCTIONAL AND AESTHETIC INTEGRITY OF DEVICES IDENTIFIED TO BE 11. REMOVED AND RELOCATED, AND HANDLE WITH APPROPRIATE CARE TO ALLOW FOR REINSTALLATION. REPLACE DEVICES DAMAGED DURING DEMOLITION WITH NEW AT CONTRACTOR'S EXPENSE.
- 12. EQUIPMENT AND SYSTEM THAT ARE REMOVED REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. DISPOSE OF ALL MATERIALS NOT SALVAGED BY THE OWNER.
- 13. REMOVE AND REINSTALL CEILING TILES REQUIRED FOR THE WORK BEING DONE UNDER THIS CONTRACT. REPLACE CEILING TILES DAMAGED DURING CONSTRUCTION TO MATCH EXISTING.

IGHTING	SYMBOLS
a	RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
0	ROUND LIGHT FIXTURE - SURFACE MOUNTED
	SQUARE LIGHT FIXTURE - SURFACE MOUNTED
\odot	PENDANT MOUNTED LIGHT FIXTURE
$\stackrel{ ightarrow}{ m O}$	ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH
$\stackrel{\rightarrow}{\square}$	SQUARE APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH
<u> </u>	SURFACE MOUNTED STRIP FIXTURE
••	LINEAR PENDANT MOUNTED FIXTURE
⊢∽⊣	INDUSTRIAL STRIP LIGHT FIXTURE
	WALL MOUNTED STRIP LIGHT FIXTURE.
	COVE LIGHT FIXTURE
	CONTINUOUS WALL MOUNTED FIXTURE.
	TRACK LIGHTING, ELEVATION AS NOTED.
4_+	EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED
k⊡ki	EMERGENCY LIGHT FIXTURE, CEILING MOUNT
₽	EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- ₩	EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
	COMBINATION EXIT SIGN & EMERGENCY LIGHT, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
	COMBINATION EXIT SIGN & EMERGENCY LIGHT, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
↔ CH	EXTERIOR LIGHT FIXTURE, WALL MOUNT +10', OR AS NOTED
с, С	INTERIOR LIGHT FIXTURE, WALL MOUNT
цт Ф	EXTERIOR POLE MOUNTED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
Ψ	EXTERIOR FLOOD LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
•	EMERGENCY REMOTE HEAD LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
	CEILING FAN
0	SINGLE POLE SWITCH, WALL MOUNT +48", OR AS NOTED,
\$ a	LETTER INDICATES SWITCH LEG THREE WAY SWITCH, WALL MOUNT +48", OR AS NOTED,
\$ ³ b	LETTER INDICATES SWITCH LEG PILOT LIGHT SWITCH, WALL MOUNT +48", OR AS NOTED,
\$ ^Р с	LETTER INDICATES SWITCH LEG
\$ ^D d	LETTER INDICATES SWITCH LEG
S1 e	LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
¹∳C c	OCCUPANCY SENSOR, WALL MOUNT +48" OR AS NOTED, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
2 A a	OCCUPANCY SENSOR, CEILING MOUNT, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
2	DAYLIGHTING SENSOR, CEILING MOUNT, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
۲	LIGHTING CONNECTION, REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION
ETD	EMERGENCY TRANSFER DEVICE
R	LIGHTING CONTRACTOR
	PHOTOCELL
RC	ROOM/ZONE CONTROLLER, MOUNT ABOVE ACCESSIBLE CEILING
IN ###	WALL MOUNTED INVERTERS. "###" SHOWN FOR QUANTITY.

LI

LIGHTING PLANS NOTATION KEY



GENERAL SYMBOLS			
Е∃	CONDUIT SLEEVE		
0	CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE		
•	CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE		
J	JUNCTION BOX, CEILING OR FLOOR MOUNTED.		
Ŷ	JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.		
(#)	KEYNOTE		
1 A101 SIM	DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE		
1 A101	SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE		
A101	INTERIOR ELEVATION DRAWING REFERENCE TAG		

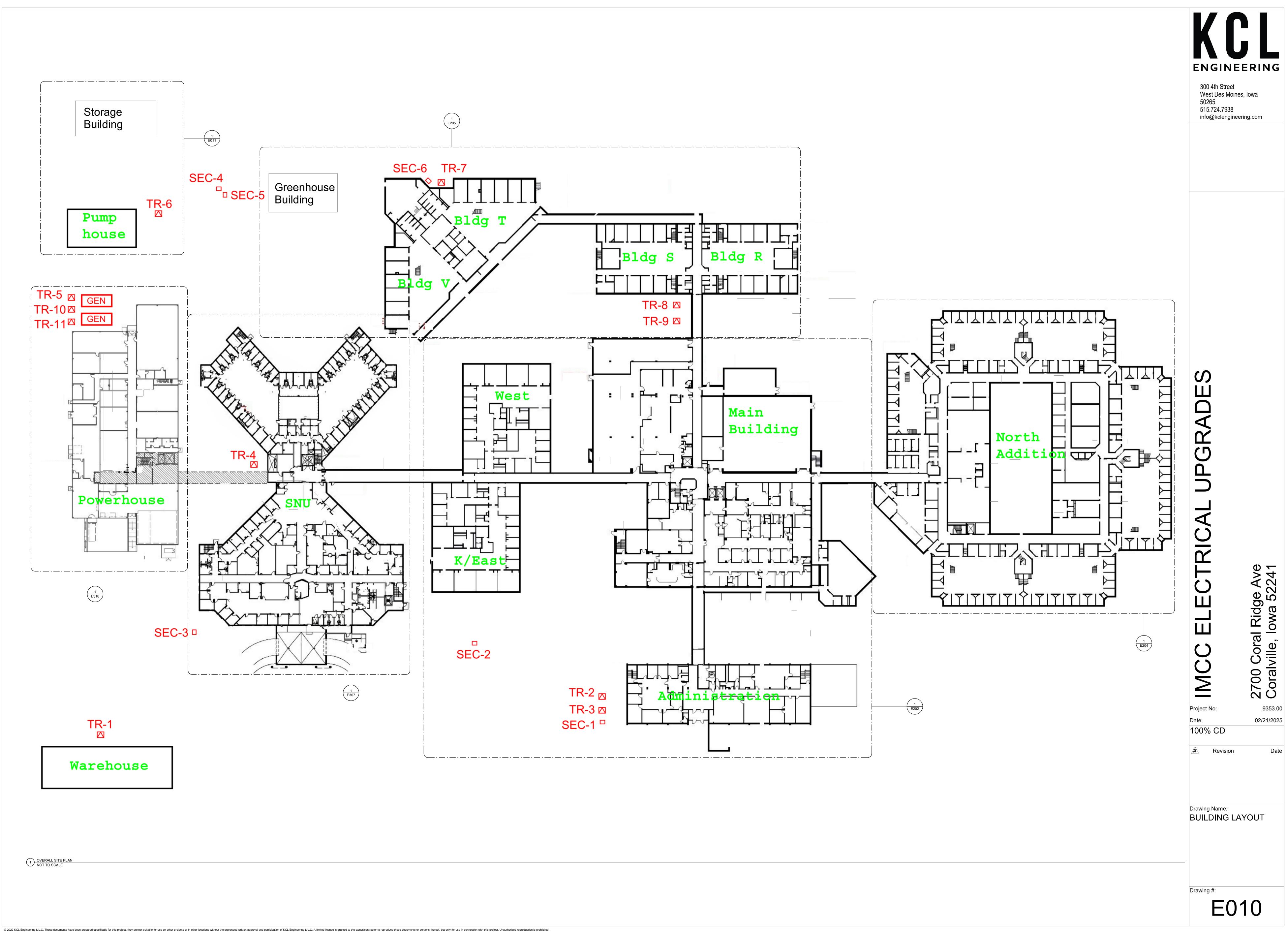
POWER SYMBOLS

	TRANSFORMER
-	PANELBOARD - SURFACE MOUNTED
	PANELBOARD - RECESSED IN WALL
	DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.
	GENERATOR
	FEEDER TAGS

CEILING I	YPE LEGEND
	2' X 2' SUSPENDED ACOUSTICAL CEILING TILE
	2' X 4' SUSPENDED ACOUSTICAL CEILING TILE
$ \begin{array}{c} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n$	SUSPENDED GYPSUM BOARD CEILING
CEILI	NGS NOT NOTED OR SHOWN ARE OPEN TO STRUCTURE AND/OR CONCRETE

NOTE: ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT





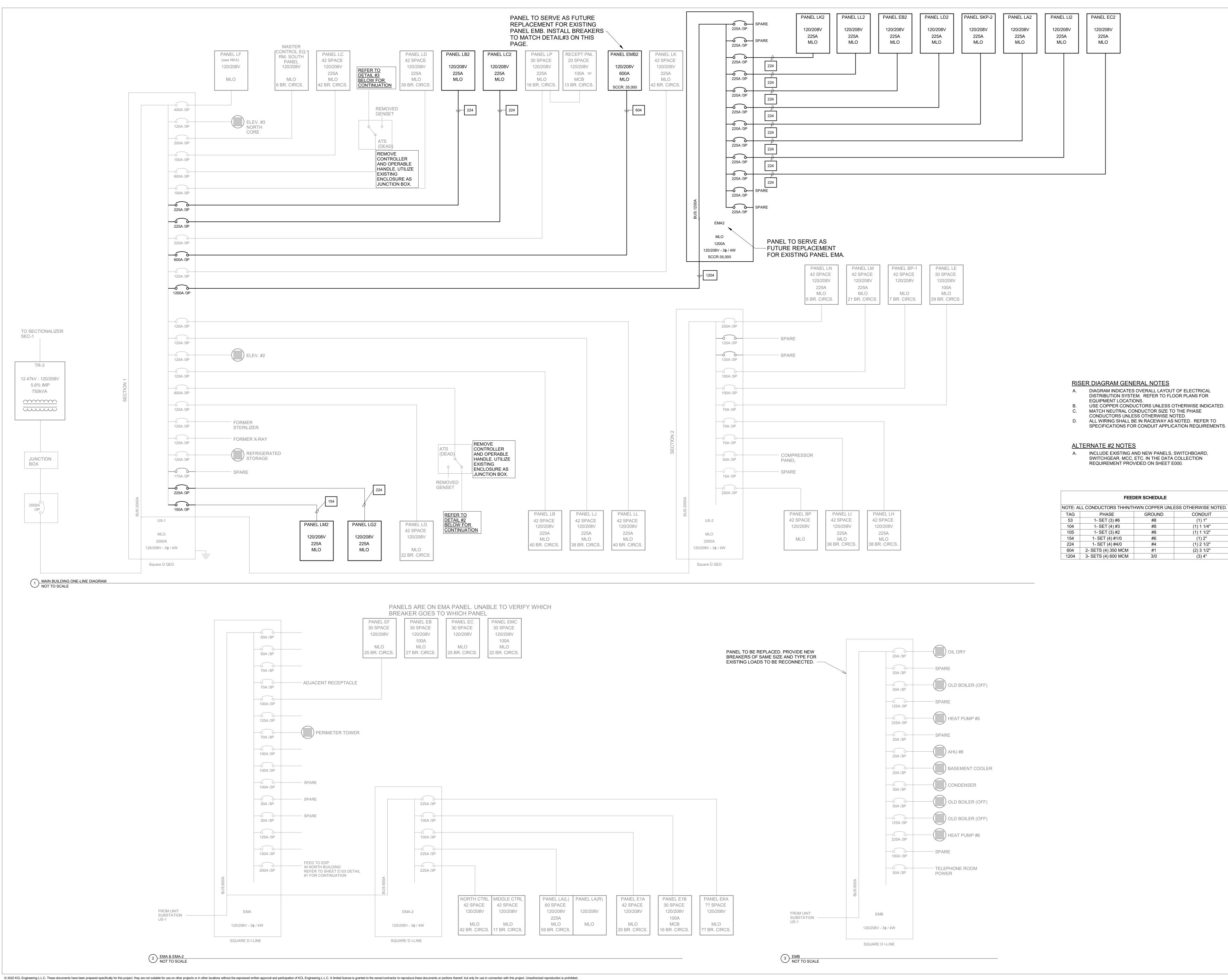


1 PUMPHOUSE AND SHED - SITE PLAN NOT TO SCALE

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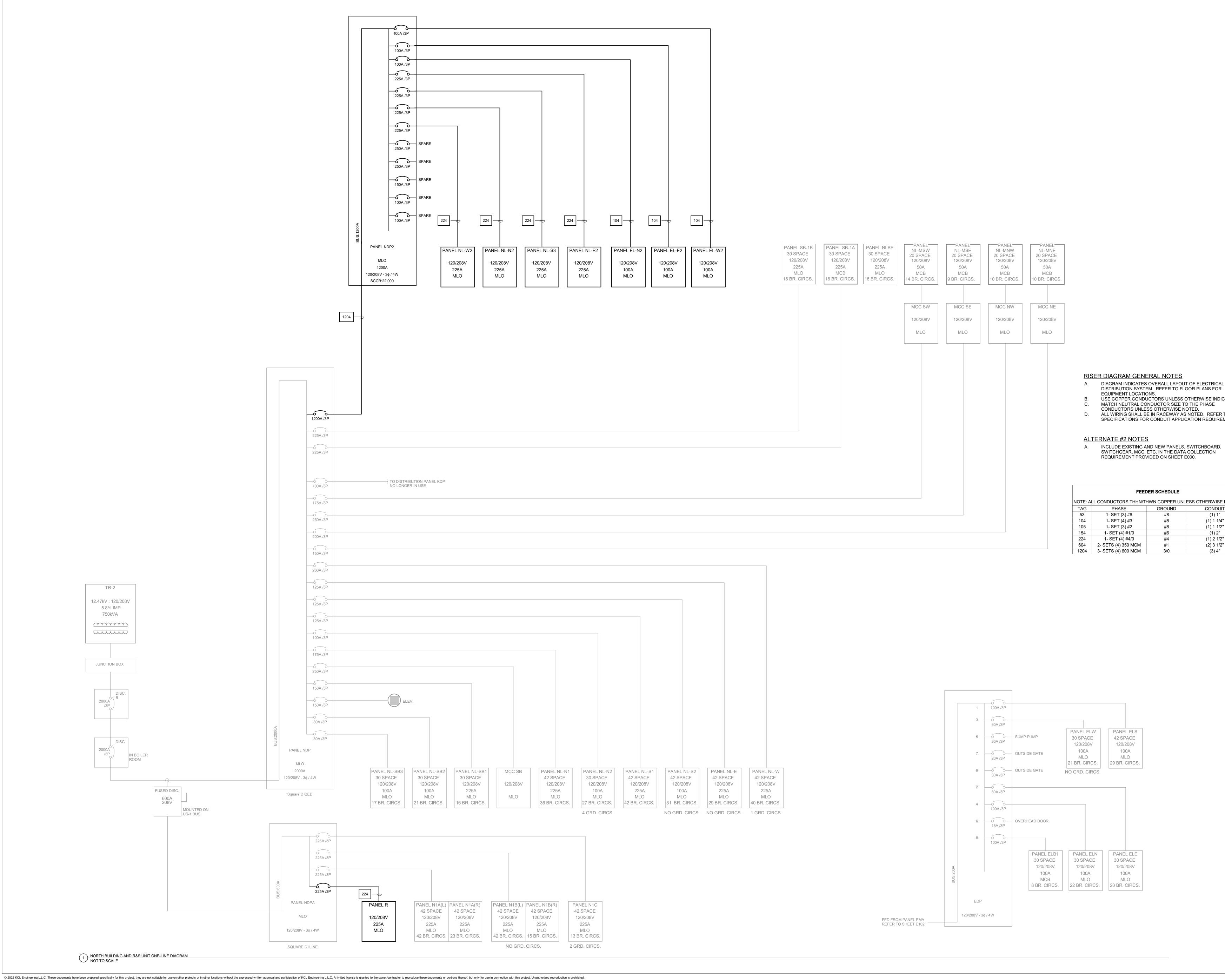


- DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR B. USE COPPER CONDUCTORS UNLESS OTHERWISE INDICATED.
- MATCH NEUTRAL CONDUCTOR SIZE TO THE PHASE CONDUCTORS UNLESS OTHERWISE NOTED. D. ALL WIRING SHALL BE IN RACEWAY AS NOTED. REFER TO

A. INCLUDE EXISTING AND NEW PANELS, SWITCHBOARD, SWITCHGEAR, MCC, ETC. IN THE DATA COLLECTION REQUIREMENT PROVIDED ON SHEET E000.

	FEEDER SCHEDULE				
NOTE: A	NOTE: ALL CONDUCTORS THHN/THWN COPPER UNLESS OTHERWISE NOTED.				
TAG	PHASE	GROUND	CONDUIT		
53	1- SET (3) #6	#8	(1) 1"		
104	1- SET (4) #3	#8	(1) 1 1/4"		
105	1- SET (3) #2	#8	(1) 1 1/2"		
154	1- SET (4) #1/0	#6	(1) 2"		
224	1- SET (4) #4/0	#4	(1) 2 1/2"		
604	2- SETS (4) 350 MCM	#1	(2) 3 1/2"		
1204	3- SETS (4) 600 MCM	3/0	(3) 4"		



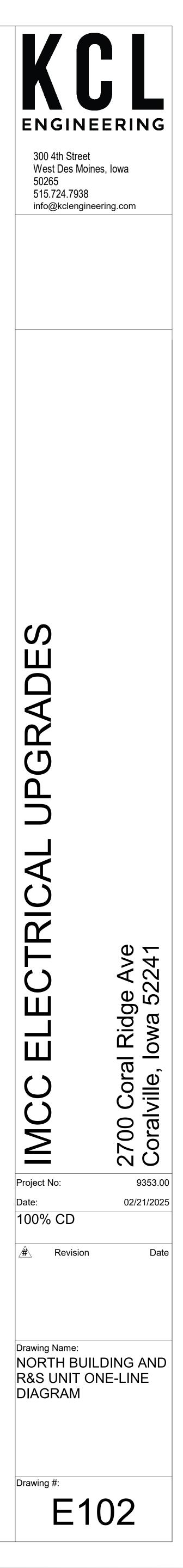


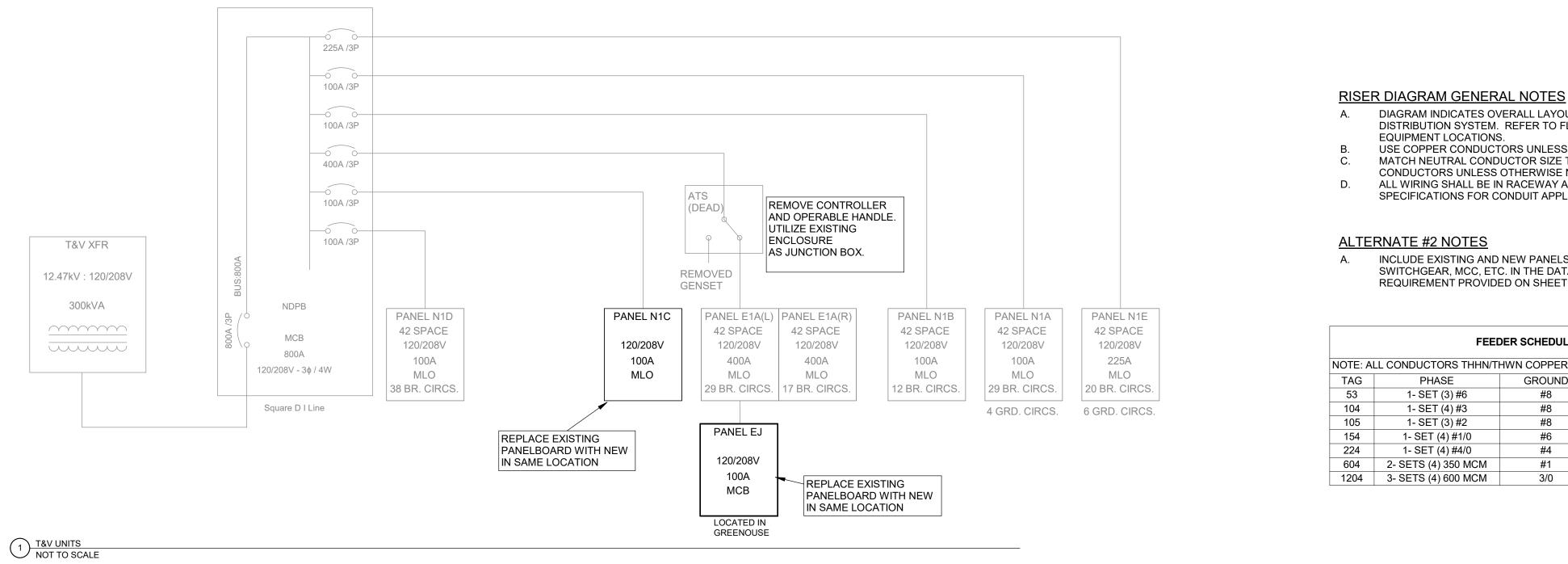


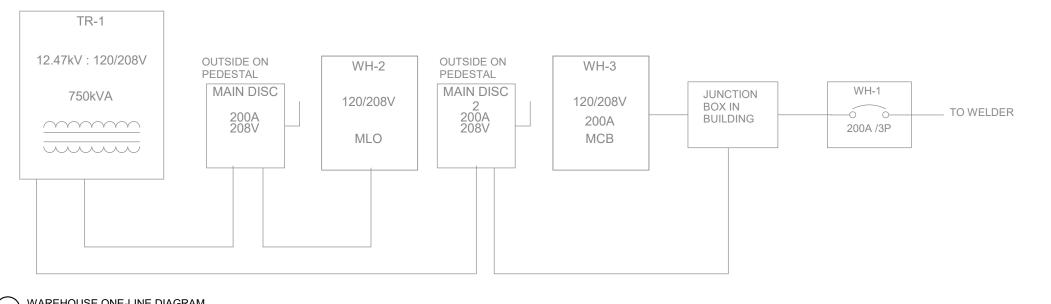
- A. DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS. B. USE COPPER CONDUCTORS UNLESS OTHERWISE INDICATED.
- MATCH NEUTRAL CONDUCTOR SIZE TO THE PHASE CONDUCTORS UNLESS OTHERWISE NOTED.
- D. ALL WIRING SHALL BE IN RACEWAY AS NOTED. REFER TO SPECIFICATIONS FOR CONDUIT APPLICATION REQUIREMENTS.

A. INCLUDE EXISTING AND NEW PANELS, SWITCHBOARD, SWITCHGEAR, MCC, ETC. IN THE DATA COLLECTION REQUIREMENT PROVIDED ON SHEET E000.

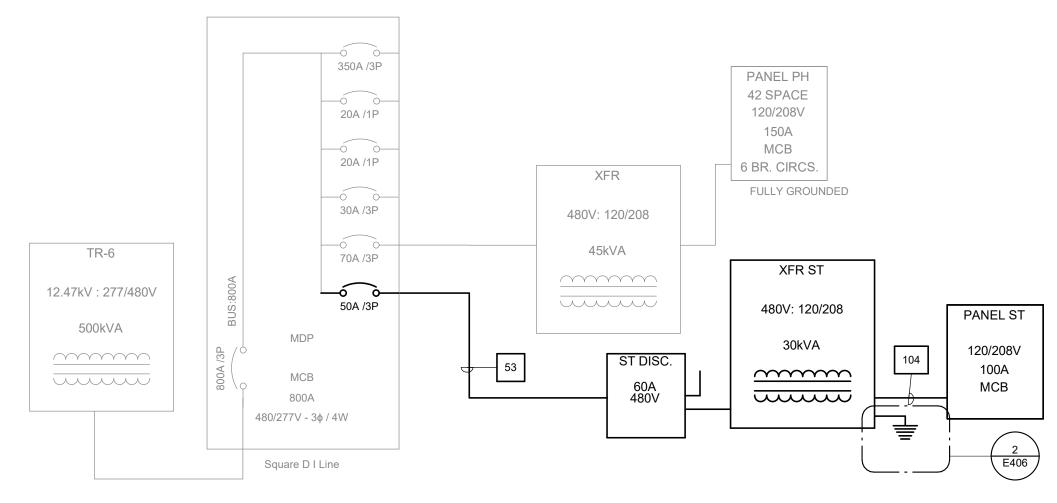
FEEDER SCHEDULE				
NOTE: ALL CONDUCTORS THHN/THWN COPPER UNLESS OTHERWISE NOTED.				
TAG PHASE GROUND CONDUIT				
53	1- SET (3) #6	#8	(1) 1"	
104	1- SET (4) #3	#8	(1) 1 1/4"	
105	1- SET (3) #2	#8	(1) 1 1/2"	
154	1- SET (4) #1/0	#6	(1) 2"	
224	1- SET (4) #4/0	#4	(1) 2 1/2"	
604	2- SETS (4) 350 MCM	#1	(2) 3 1/2"	
1204	3- SETS (4) 600 MCM	3/0	(3) 4"	







2 WAREHOUSE ONE-LINE DIAGRAM NOT TO SCALE



3 PUMPHOUSE ONE-LINE-DIAGRAM NOT TO SCALE

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A. DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR USE COPPER CONDUCTORS UNLESS OTHERWISE INDICATED. MATCH NEUTRAL CONDUCTOR SIZE TO THE PHASE CONDUCTORS UNLESS OTHERWISE NOTED. ALL WIRING SHALL BE IN RACEWAY AS NOTED. REFER TO SPECIFICATIONS FOR CONDUIT APPLICATION REQUIREMENTS.

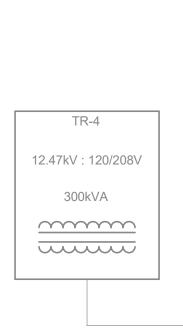
INCLUDE EXISTING AND NEW PANELS, SWITCHBOARD, SWITCHGEAR, MCC, ETC. IN THE DATA COLLECTION REQUIREMENT PROVIDED ON SHEET E000.

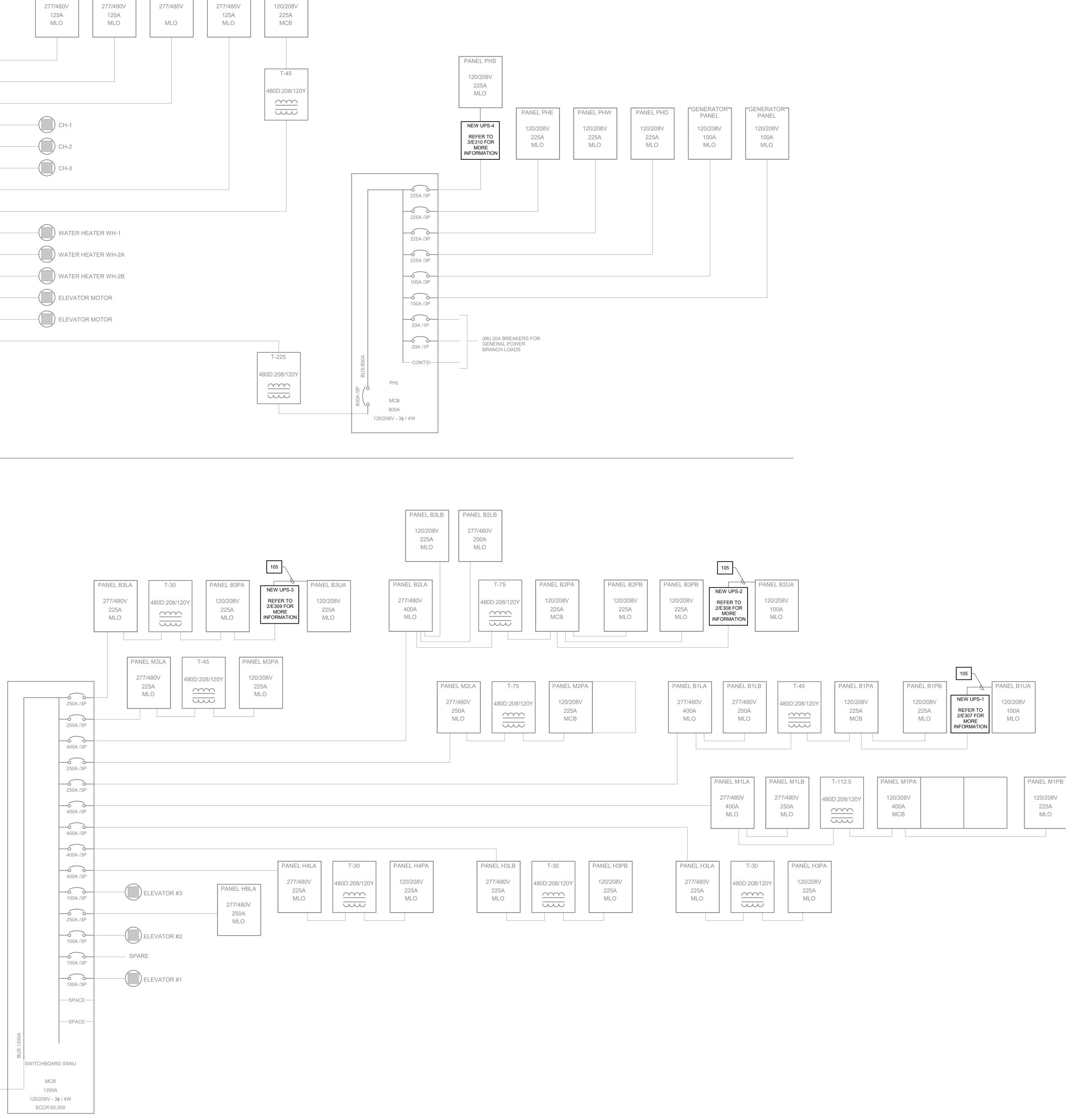
FEEDER SCHEDULE

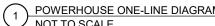
RS THHN/THWN COPPER UNLESS OTHERWISE NOTED.				
E	GROUND	CONDUIT		
3) #6	#8	(1) 1"		
) #3	#8	(1) 1 1/4"		
3) #2	#8	(1) 1 1/2"		
#1/0	#6	(1) 2"		
#4/0	#4	(1) 2 1/2"		
50 MCM	#1	(2) 3 1/2"		
00 MCM	3/0	(3) 4"		

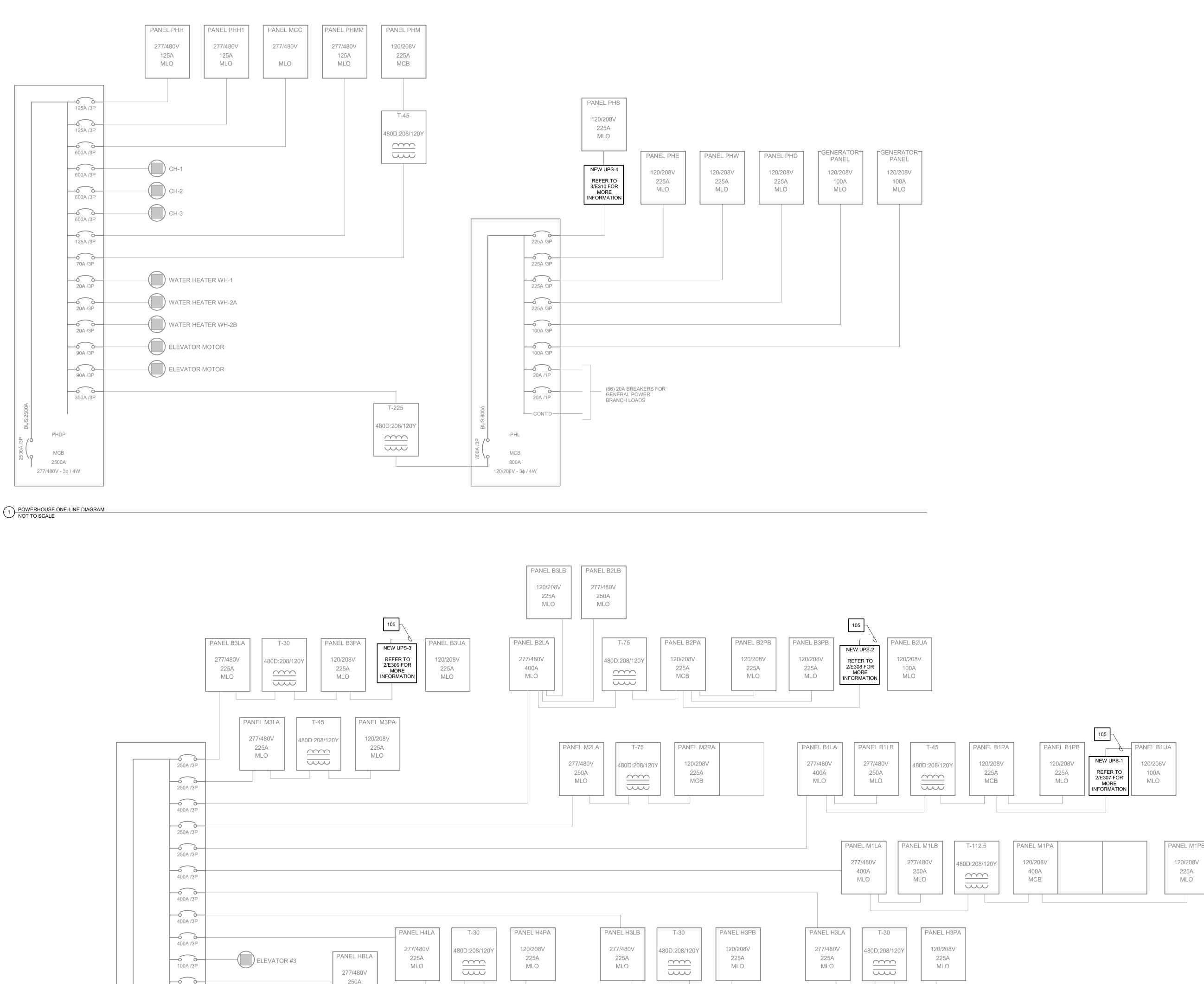


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RISER DIAGRAM GENERAL NOTES

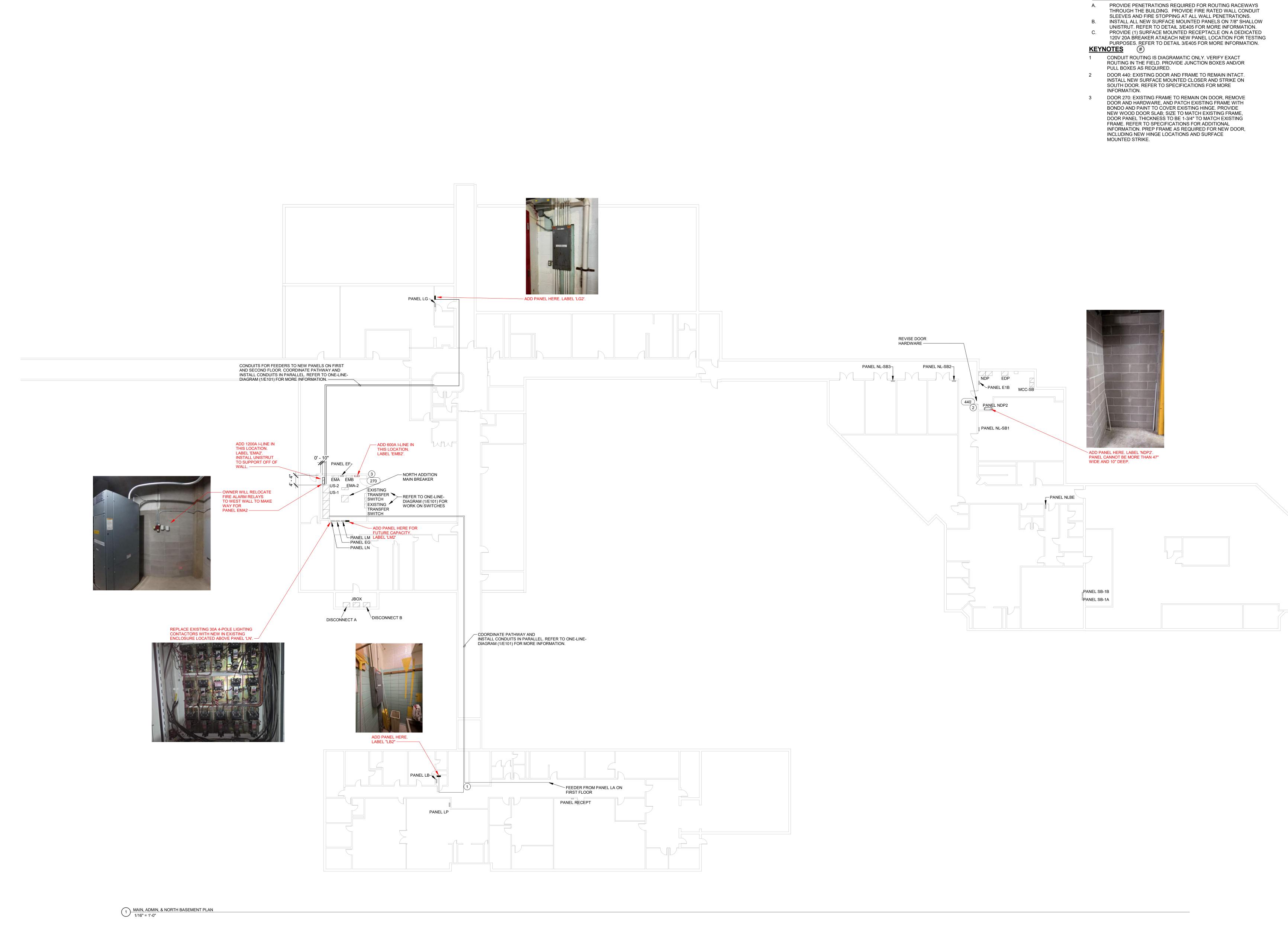
- A. DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS. USE COPPER CONDUCTORS UNLESS OTHERWISE INDICATED. В.
- MATCH NEUTRAL CONDUCTOR SIZE TO THE PHASE CONDUCTORS UNLESS OTHERWISE NOTED. ALL WIRING SHALL BE IN RACEWAY AS NOTED. REFER TO D.
- SPECIFICATIONS FOR CONDUIT APPLICATION REQUIREMENTS.

ALTERNATE #2 NOTES

A. INCLUDE EXISTING AND NEW PANELS, SWITCHBOARD, SWITCHGEAR, MCC, ETC. IN THE DATA COLLECTION REQUIREMENT PROVIDED ON SHEET E000.

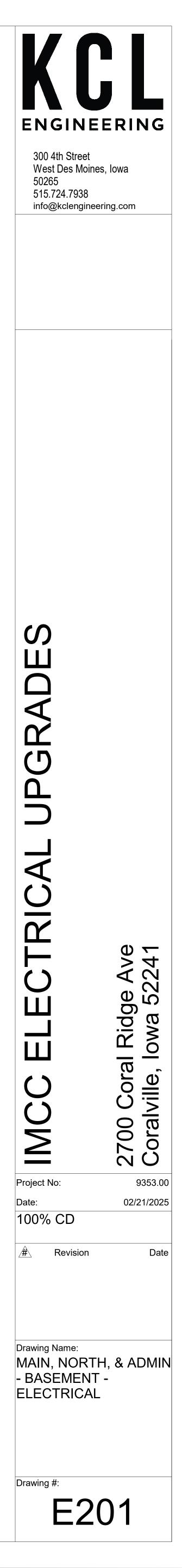
FEEDER SCHEDULE					
NOTE: ALL CONDUCTORS THHN/THWN COPPER UNLESS OTHERWISE NOTED.					
TAG	PHASE	GROUND	CONDUIT		
53	1- SET (3) #6	#8	(1) 1"		
104	1- SET (4) #3	#8	(1) 1 1/4"		
105	1- SET (3) #2	#8	(1) 1 1/2"		
154	1- SET (4) #1/0	#6	(1) 2"		
224	1- SET (4) #4/0	#4	(1) 2 1/2"		
604	2- SETS (4) 350 MCM	#1	(2) 3 1/2"		
1204	3- SETS (4) 600 MCM	3/0	(3) 4"		





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POWER GENERAL NOTES





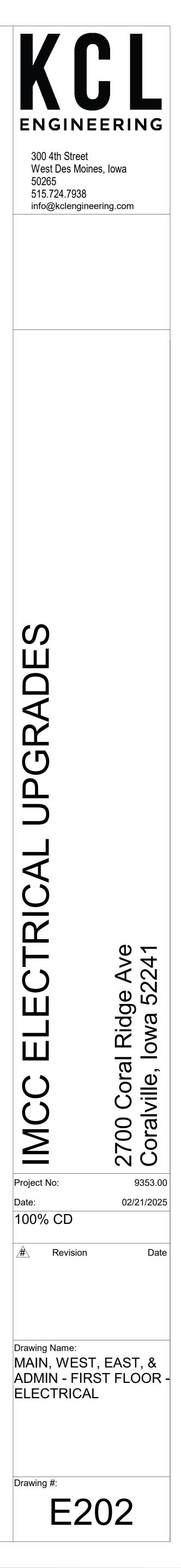
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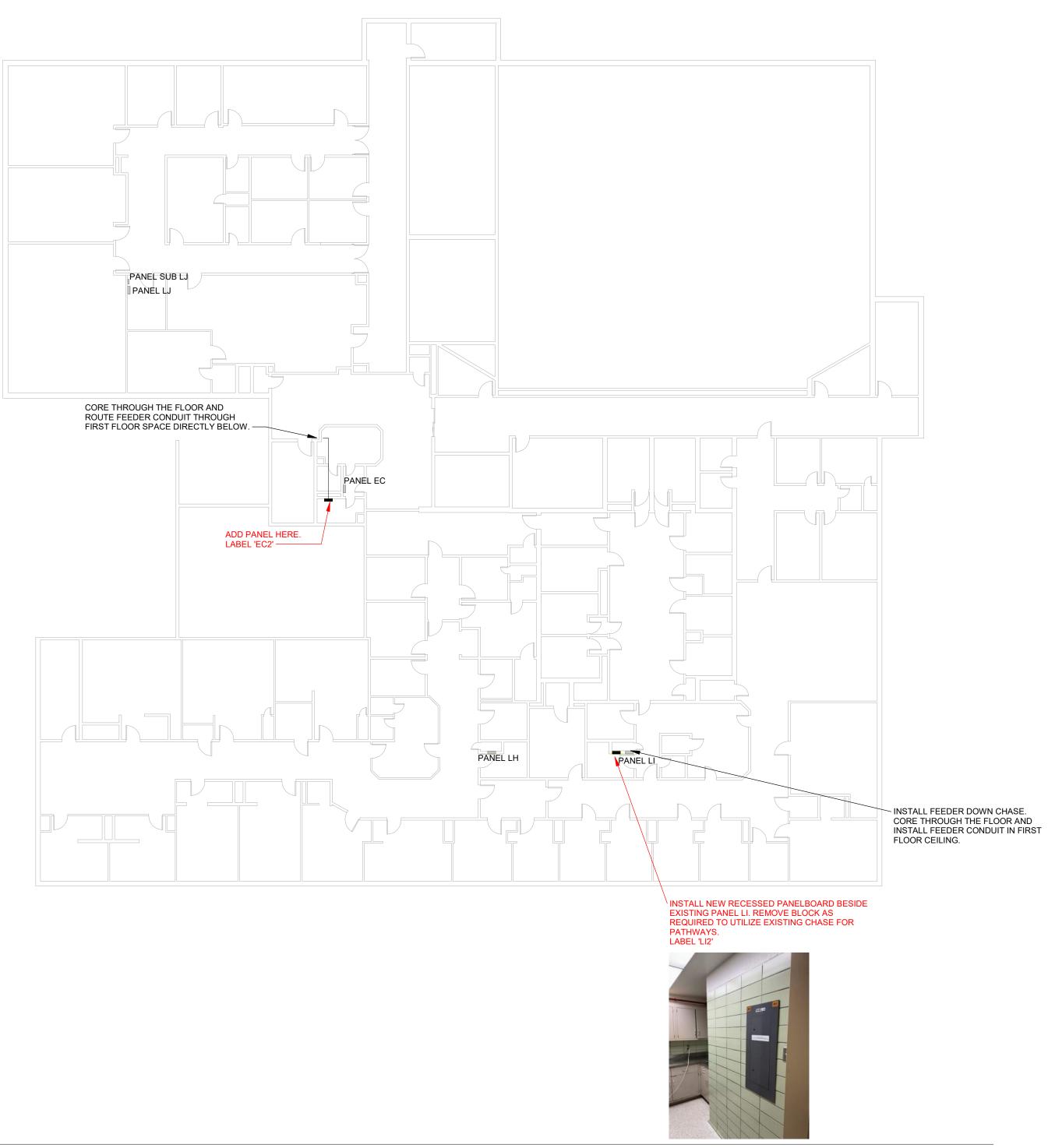
1 MAIN, WEST, EAST & ADMIN FIRST FLOOR PLAN 1/16" = 1'-0"

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POWER GENERAL NOTES

 A. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. PROVIDE FIRE RATED WALL CONDUIT SLEEVES AND FIRE STOPPING AT ALL WALL PENETRATIONS.
 B. INSTALL ALL NEW SURFACE MOUNTED PANELS ON 7/8" SHALLOW UNISTRUT. REFER TO DETAIL 3/E405 FOR MORE INFORMATION.
 C. PROVIDE (1) SURFACE MOUNTED RECEPTACLE ON A DEDICATED 120V 20A BREAKER ATAEACH NEW PANEL LOCATION FOR TESTING PURPOSES. REFER TO DETAIL 3/E405 FOR MORE INFORMATION.
 MORE INFORMATION.
 MORDUIT ROUTING IS DIAGRAMATIC ONLY. VERIFY EXACT ROUTING IN THE FIELD. PROVIDE JUNCTION BOXES AND/OR PULL BOXES AS REQUIRED.



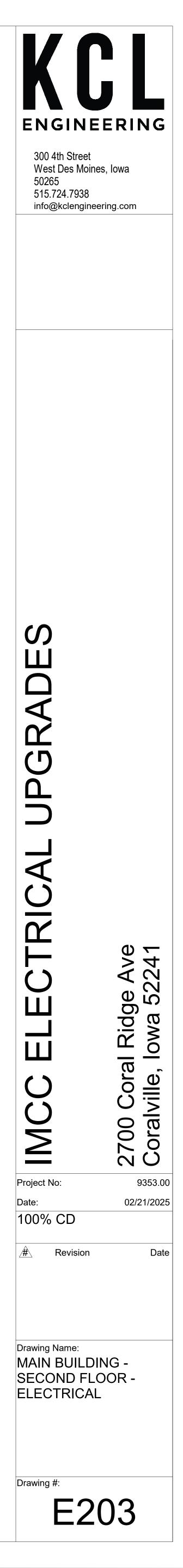


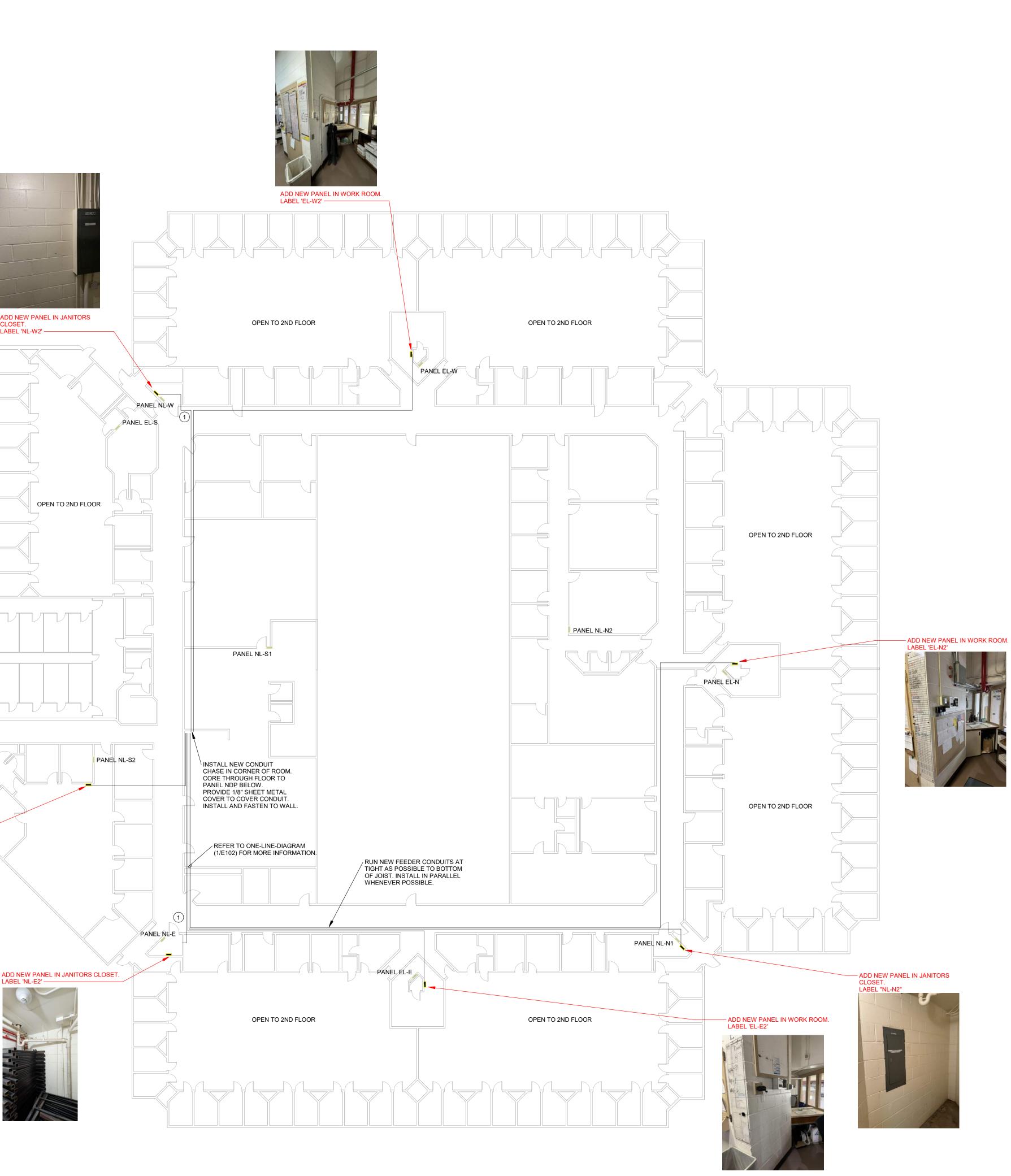
1 MAIN BUILDING SECOND FLOOR PLAN 1/16" = 1'-0"

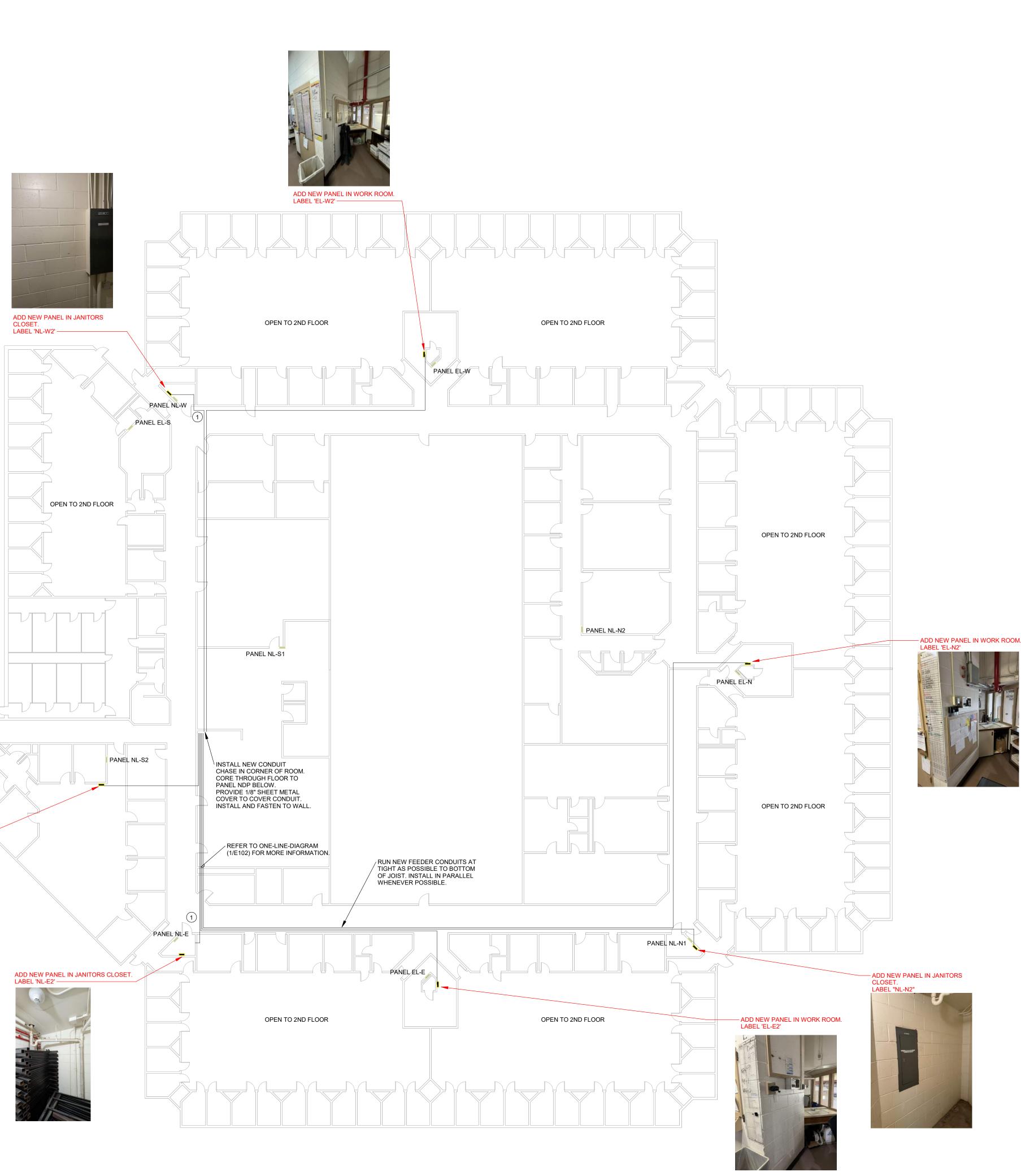
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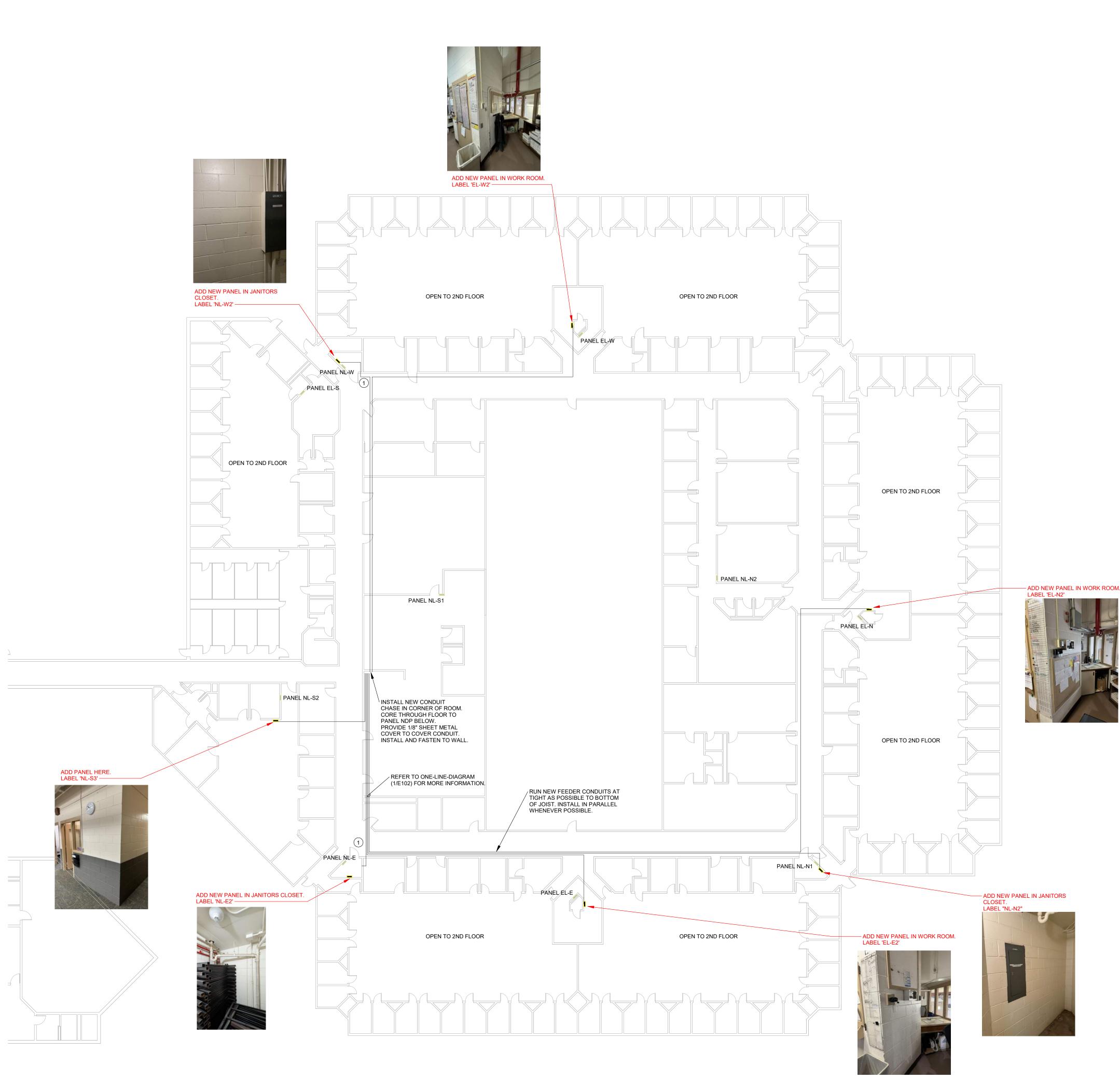
POWER GENERAL NOTES

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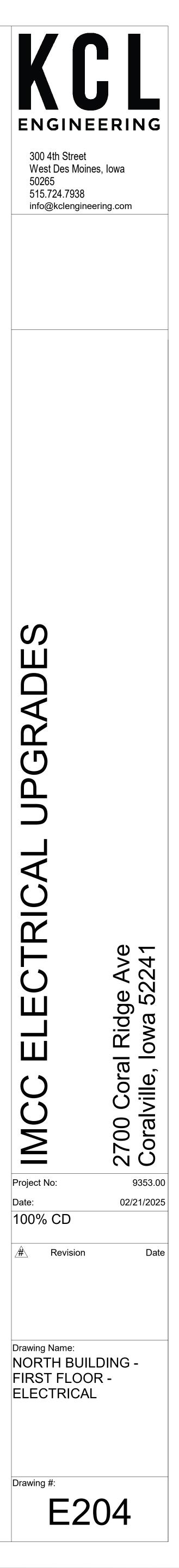
1 NORTH BUILDING FIRST FLOOR PLAN 1/16" = 1'-0"

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POWER GENERAL NOTES

A. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. PROVIDE FIRE RATED WALL CONDUIT SLEEVES AND FIRE STOPPING AT ALL WALL PENETRATIONS. B. INSTALL ALL NEW SURFACE MOUNTED PANELS ON 7/8" SHALLOW UNISTRUT. REFER TO DETAIL 3/E405 FOR MORE INFORMATION. C. PROVIDE (1) SURFACE MOUNTED RECEPTACLE ON A DEDICATED 120V 20A BREAKER ATAEACH NEW PANEL LOCATION FOR TESTING PURPOSES. REFER TO DETAIL 3/E405 FOR MORE INFORMATION. KEYNOTES #

CONDUIT ROUTING IS DIAGRAMATIC ONLY. VERIFY EXACT ROUTING IN THE FIELD. PROVIDE JUNCTION BOXES AND/OR 1 PULL BOXES AS REQUIRED.

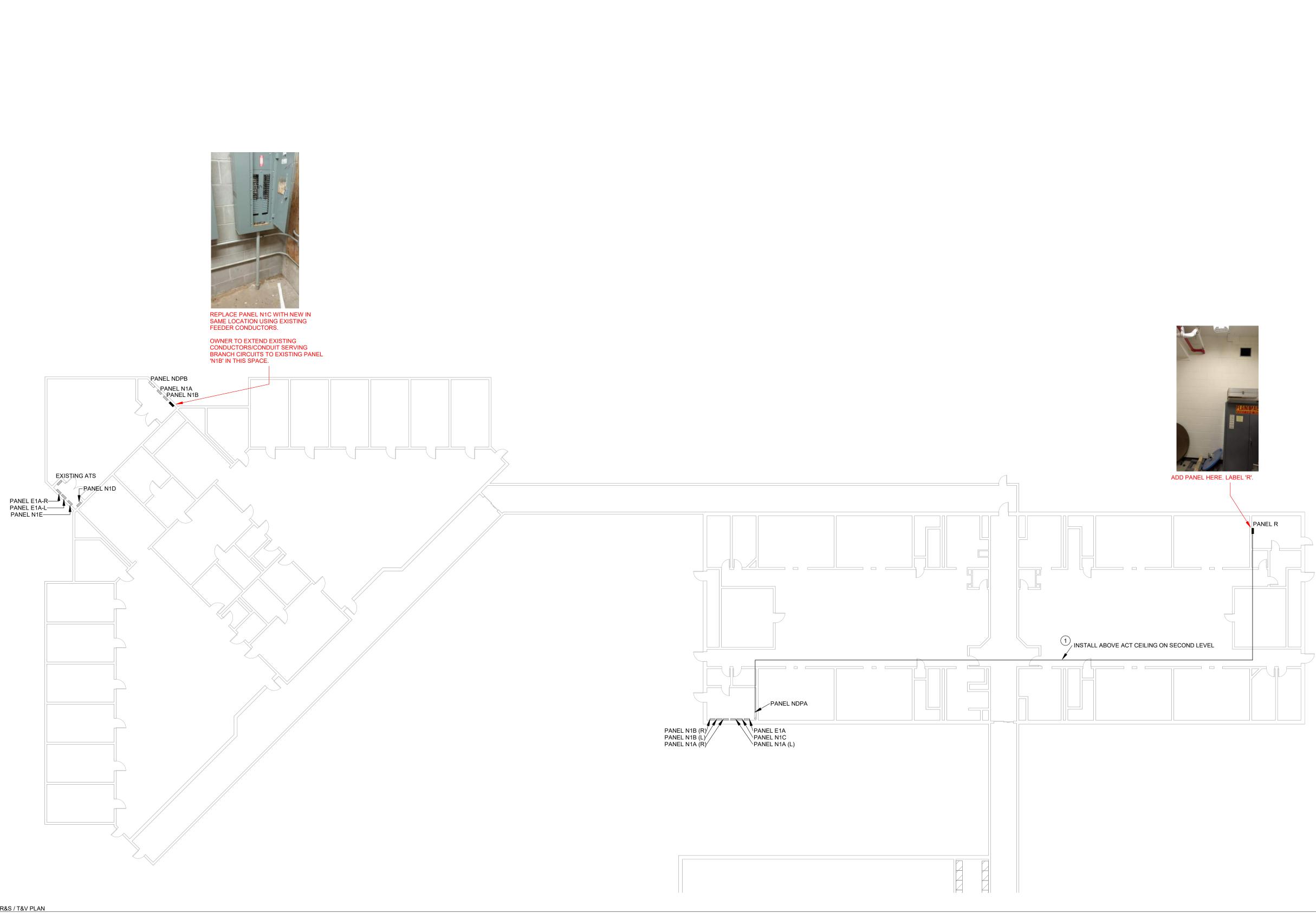




2 GREENHOUSE BUILDING 1/16" = 1'-0"

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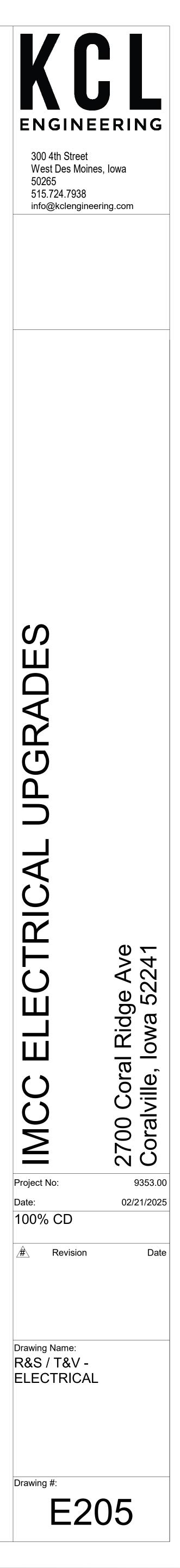
1 FIRST FLOOR R&S / T&V PLAN 1/16" = 1'-0"

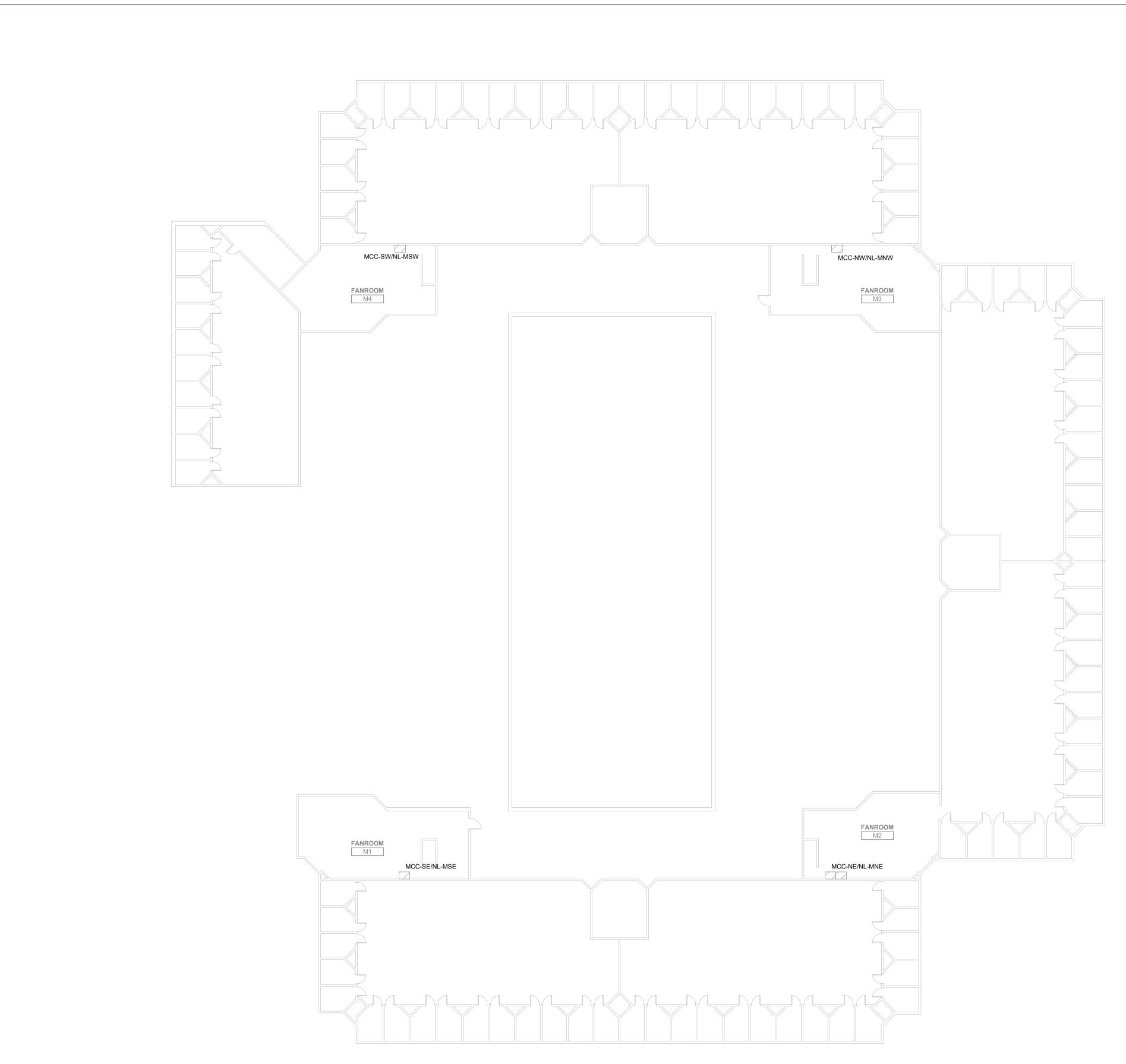


POWER GENERAL NOTES

A.	PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS
	THROUGH THE BUILDING. PROVIDE FIRE RATED WALL CONDUIT
	SLEEVES AND FIRE STOPPING AT ALL WALL PENETRATIONS.
В.	INSTALL ALL NEW SURFACE MOUNTED PANELS ON 7/8" SHALLOW
	UNISTRUT. REFER TO DETAIL 3/E405 FOR MORE INFORMATION.
C.	PROVIDE (1) SURFACE MOUNTED RECEPTACLE ON A DEDICATED
	120V 20A BREAKER ATAEACH NEW PANEL LOCATION FOR TESTING
	DUDDOOFO DEEED TO DETAIL OF LOS FOD MODE INFORMATION

PURPOSES. REFER TO DETAIL 3/E405 FOR MORE INFORMATION.

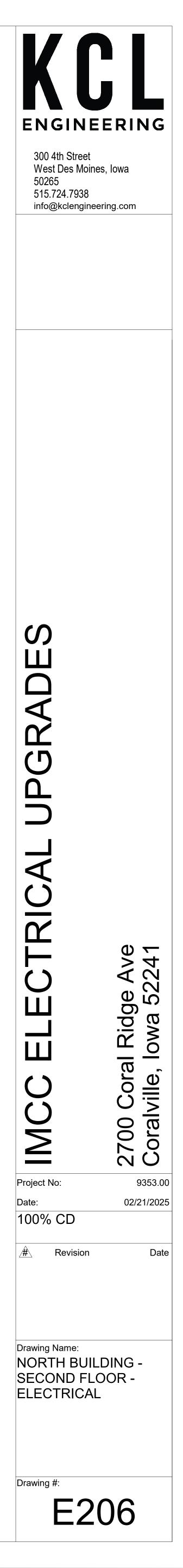


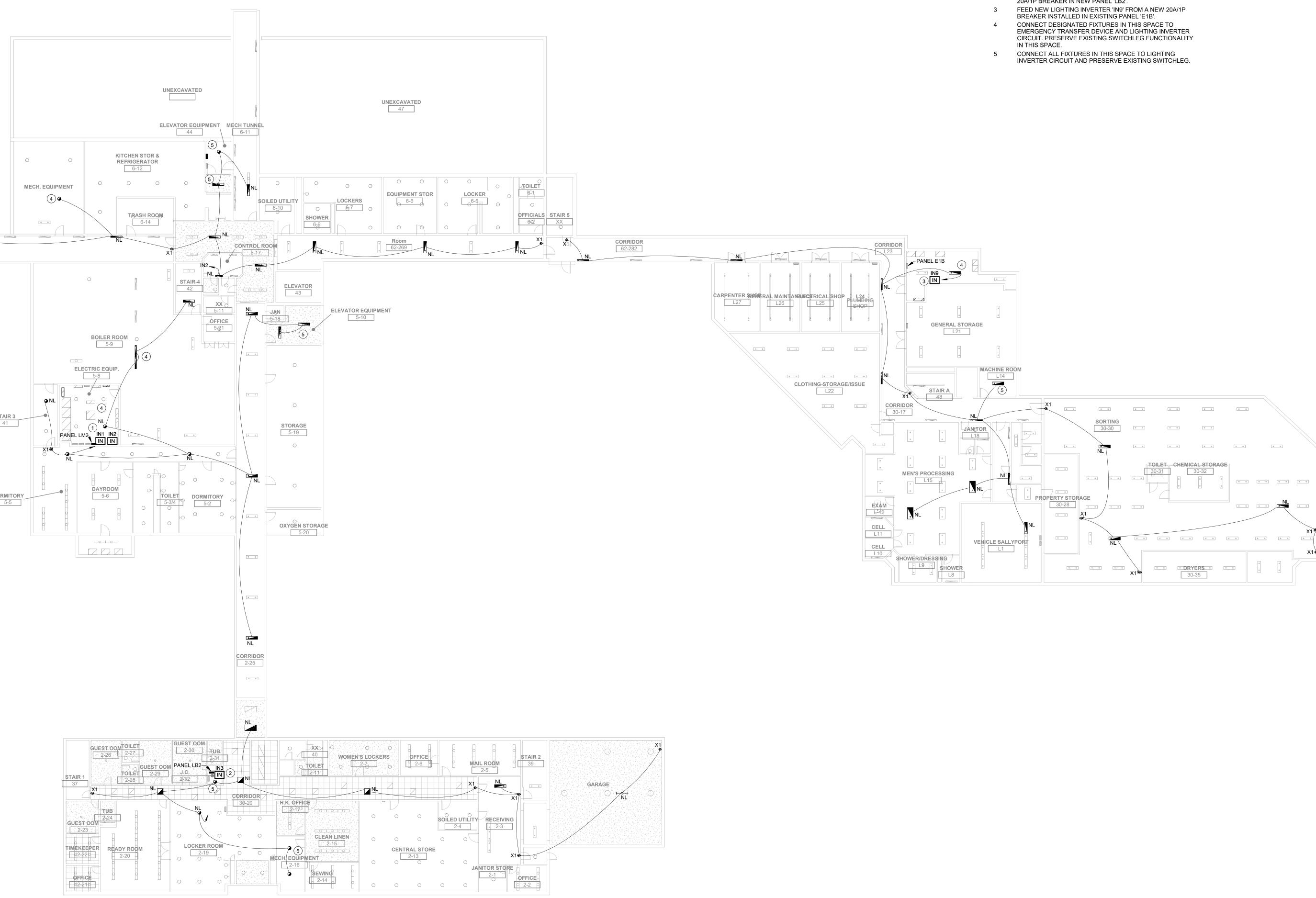


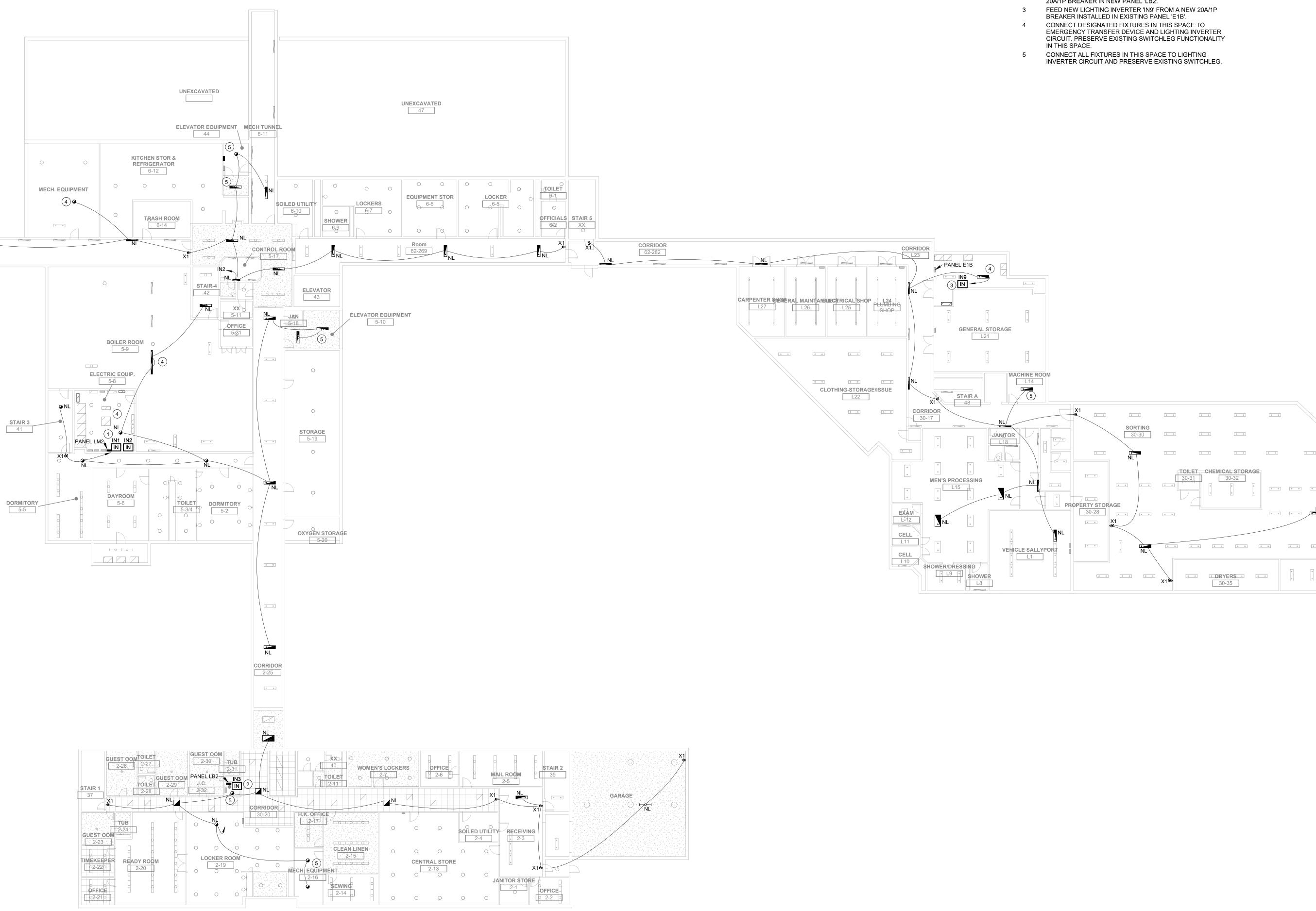
1 NORTH BUILDING SECOND FLOOR PLAN 1/16" = 1'-0"

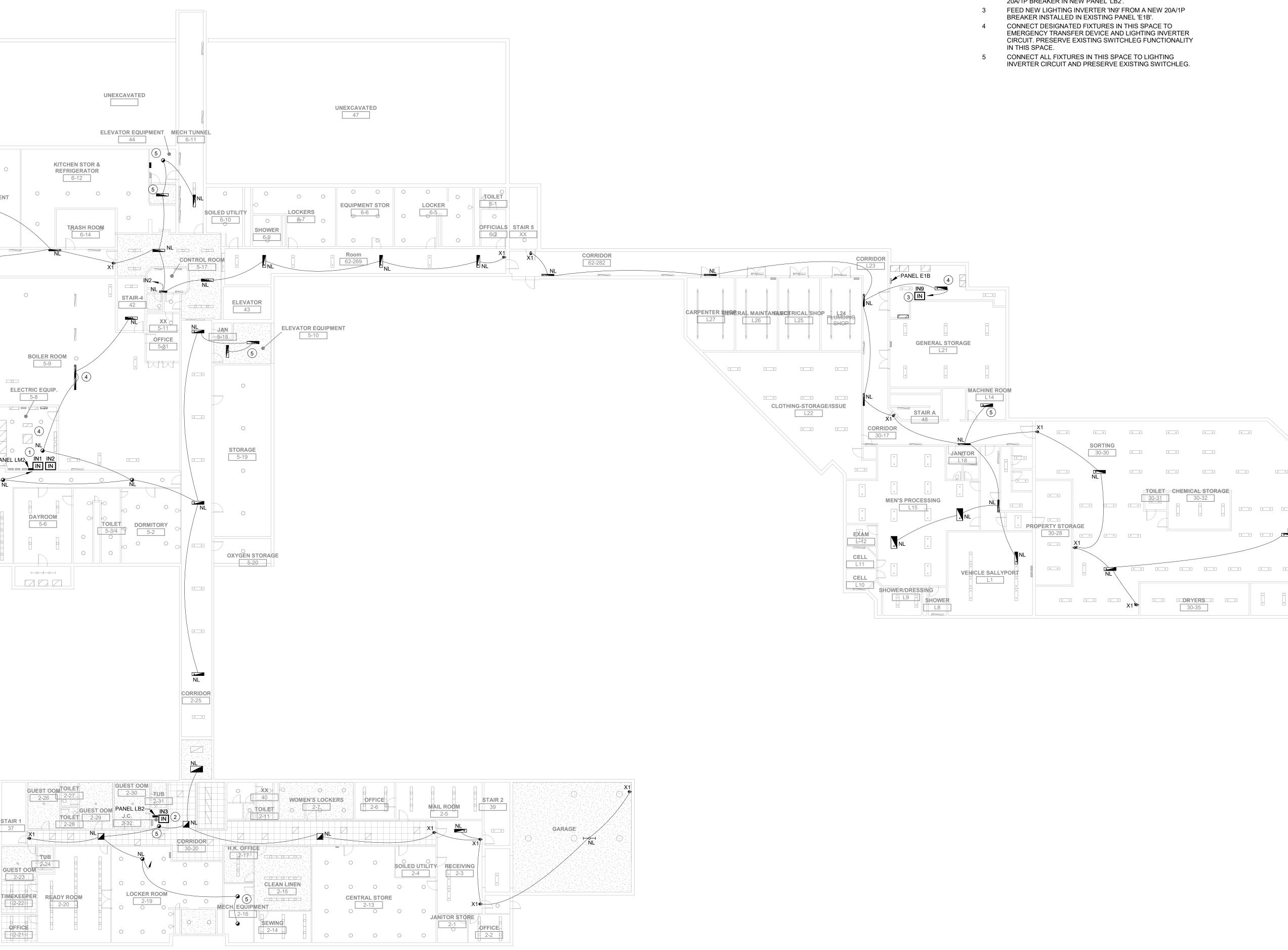
FLOOR PLAN PROVIDED FOR REFERENCE TO PANEL LOCATIONS. REFER TO PLAN FOR ALTERNATE #2.

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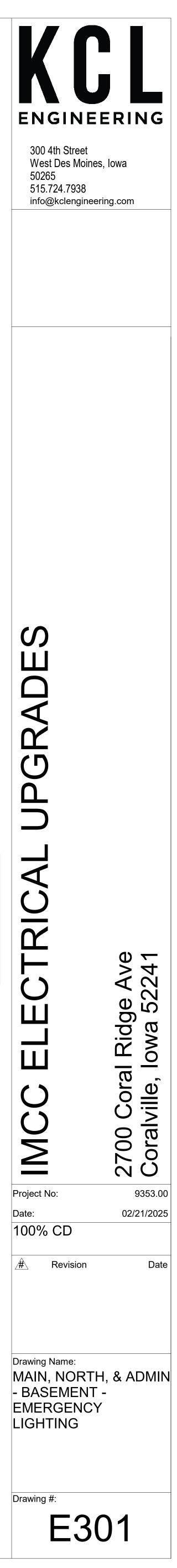
1/16" = 1'-0"

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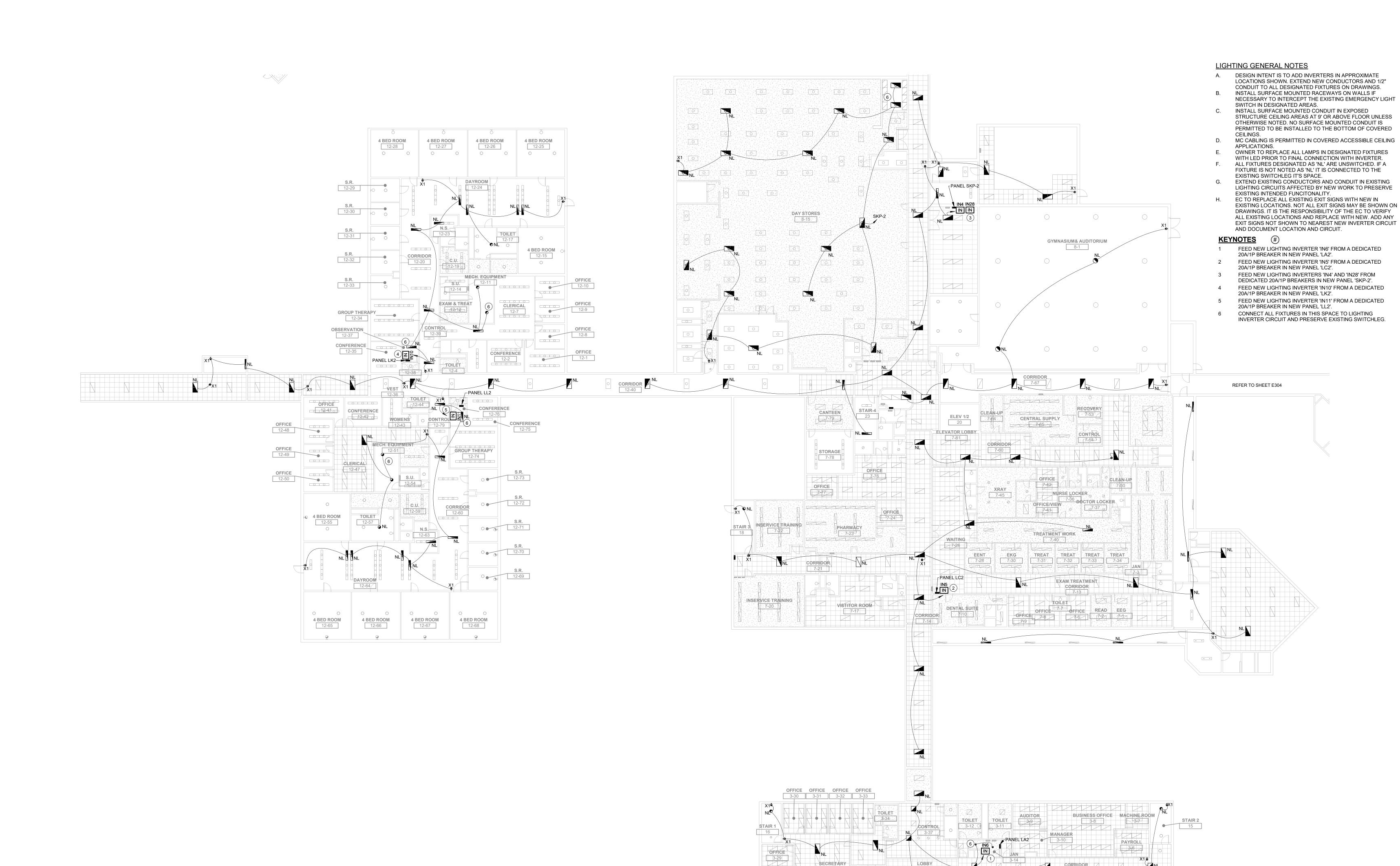
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LIGHTING GENERAL NOTES

- A. DESIGN INTENT IS TO ADD INVERTERS IN APPROXIMATE LOCATIONS SHOWN. EXTEND NEW CONDUCTORS AND 1/2" CONDUIT TO ALL DESIGNATED FIXTURES ON DRAWINGS.
- B. INSTALL SURFACE MOUNTED RACEWAYS ON WALLS IF NECESSARY TO INTERCEPT THE EXISTING EMERGENCY LIGHT SWITCH IN DESIGNATED AREAS. INSTALL SURFACE MOUNTED CONDUIT IN EXPOSED C.
- STRUCTURE CEILING AREAS AT 9' OR ABOVE FLOOR UNLESS OTHERWISE NOTED. NO SURFACE MOUNTED CONDUIT IS PERMITTED TO BE INSTALLED TO THE BOTTOM OF COVERED CEILINGS.
- MC CABLING IS PERMITTED IN COVERED ACCESSIBLE CEILING D. APPLICATIONS.
- OWNER TO REPLACE ALL LAMPS IN DESIGNATED FIXTURES WITH LED PRIOR TO FINAL CONNECTION WITH INVERTER. ALL FIXTURES DESIGNATED AS 'NL' ARE UNSWITCHED. IF A F. FIXTURE IS NOT NOTED AS 'NL' IT IS CONNECTED TO THE
- EXISTING SWITCHLEG IT'S SPACE. G. EXTEND EXISTING CONDUCTORS AND CONDUIT IN EXISTING
- LIGHTING CIRCUITS AFFECTED BY NEW WORK TO PRESERVE EXISTING INTENDED FUNCITONALITY. EC TO REPLACE ALL EXISTING EXIT SIGNS WITH NEW IN Н. EXISTING LOCATIONS. NOT ALL EXIT SIGNS MAY BE SHOWN ON DRAWINGS. IT IS THE RESPONSIBILITY OF THE EC TO VERIFY
- ALL EXISTING LOCATIONS AND REPLACE WITH NEW. ADD ANY EXIT SIGNS NOT SHOWN TO NEAREST NEW INVERTER CIRCUIT AND DOCUMENT LOCATION AND CIRCUIT. KEYNOTES (#)
- FEED NEW LIGHTING INVERTERS 'IN1' AND 'IN2' FROM (2) 1 INDIVIDUAL DEDICATED 20A/1P BREAKERS IN NEW PANÉL
- 'LM2'. FEED NEW LIGHTING INVERTER 'IN3' FROM A DEDICATED 2
- 20A/1P BREAKER IN NEW PANEL 'LB2'.



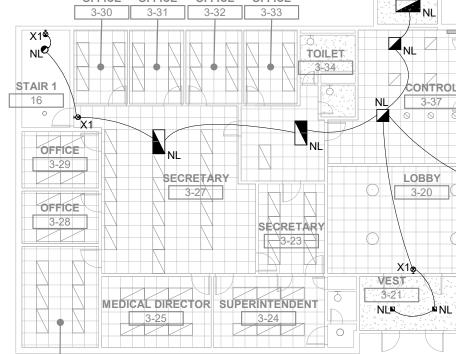




 FIRST FLOOR CEILING PLAN - MAIN, WEST, EAST, & ADMIN BUILDINGS

 1/16" = 1'-0"

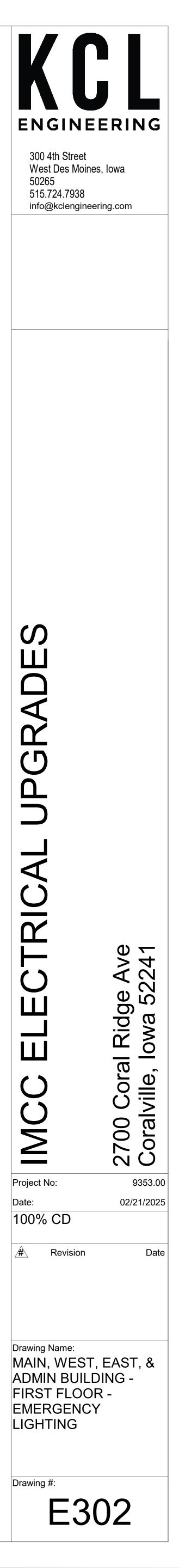
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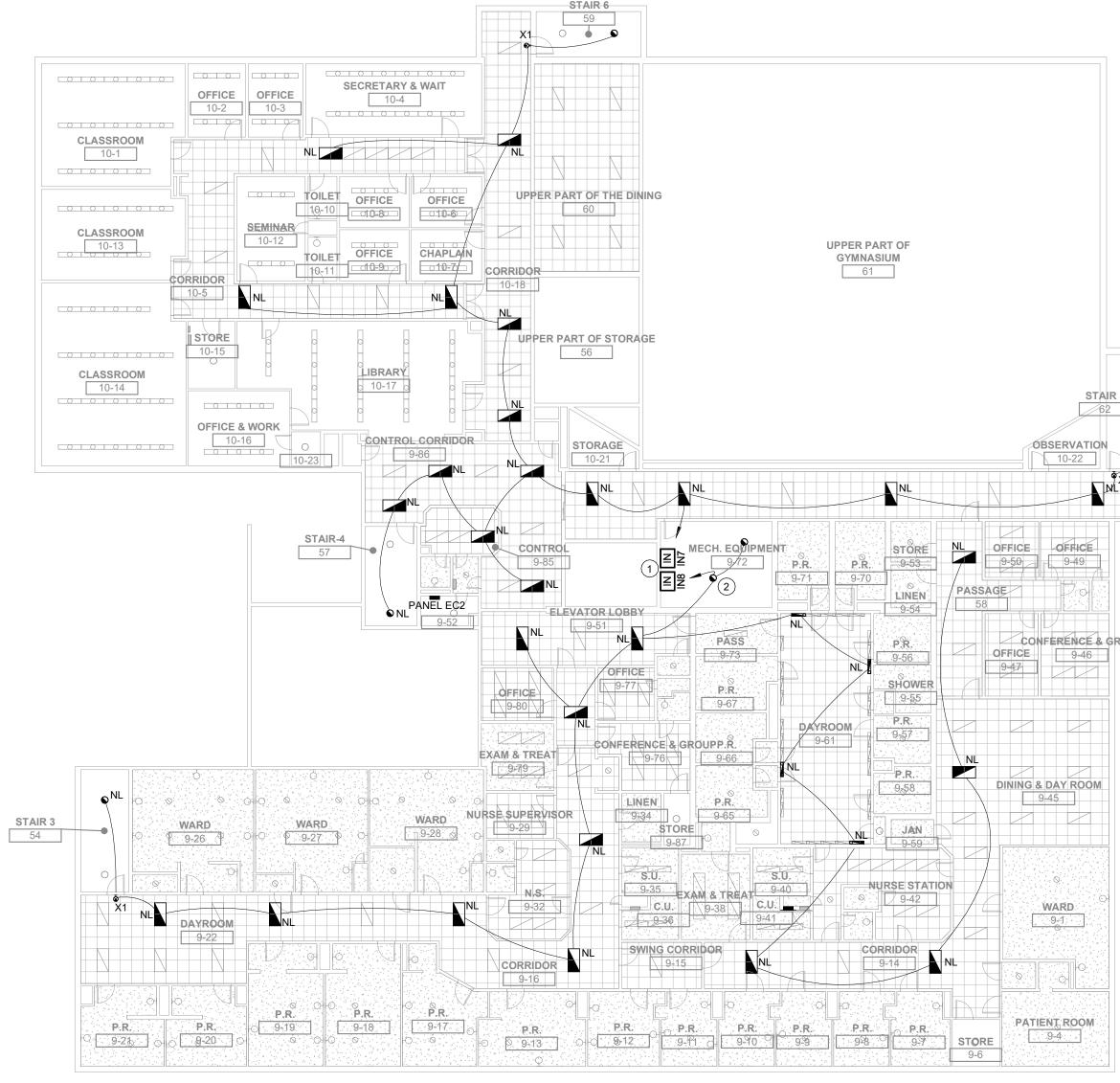
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1 SECOND FLOOR CEILING PLAN - MAIN BUILDING 1/16" = 1'-0"

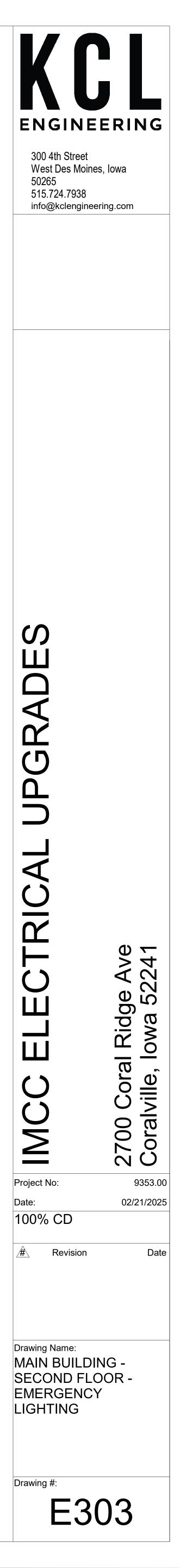
LIGHTING GENERAL NOTES

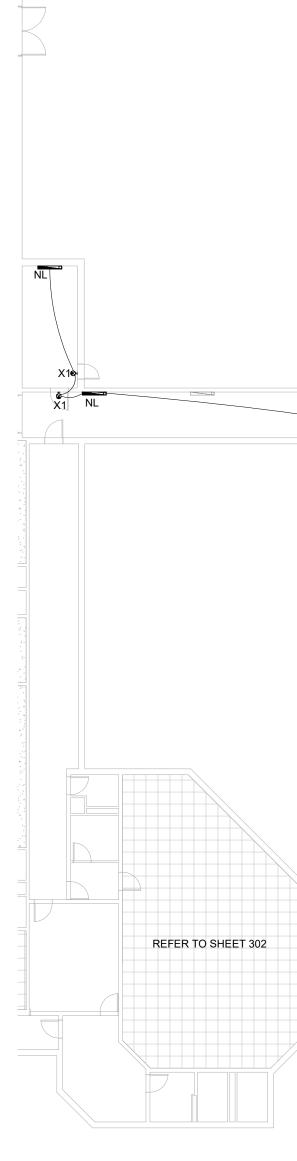
- A. DESIGN INTENT IS TO ADD INVERTERS IN APPROXIMATE LOCATIONS SHOWN. EXTEND NEW CONDUCTORS AND 1/2" CONDUIT TO ALL DESIGNATED FIXTURES ON DRAWINGS.
- B. INSTALL SURFACE MOUNTED RACEWAYS ON WALLS IF NECESSARY TO INTERCEPT THE EXISTING EMERGENCY LIGHT SWITCH IN DESIGNATED AREAS. C. INSTALL SURFACE MOUNTED CONDUIT IN EXPOSED STRUCTURE CEILING AREAS AT 9' OR ABOVE FLOOR UNLESS
- OTHERWISE NOTED. NO SURFACE MOUNTED CONDUIT IS PERMITTED TO BE INSTALLED TO THE BOTTOM OF COVERED CEILINGS. MC CABLING IS PERMITTED IN COVERED ACCESSIBLE CEILING APPLICATIONS. D.
- OWNER TO REPLACE ALL LAMPS IN DESIGNATED FIXTURES Ε. WITH LED PRIOR TO FINAL CONNECTION WITH INVERTER.
- ALL FIXTURES DESIGNATED AS 'NL' ARE UNSWITCHED. IF A F. FIXTURE IS NOT NOTED AS 'NL' IT IS CONNECTED TO THE EXISTING SWITCHLEG IT'S SPACE.
- G. EXTEND EXISTING CONDUCTORS AND CONDUIT IN EXISTING LIGHTING CIRCUITS AFFECTED BY NEW WORK TO PRESERVE EXISTING INTENDED FUNCITONALITY. H. EC TO REPLACE ALL EXISTING EXIT SIGNS WITH NEW IN EXISTING LOCATIONS. NOT ALL EXIT SIGNS MAY BE SHOWN ON
- DRAWINGS. IT IS THE RESPONSIBILITY OF THE EC TO VERIFY ALL EXISTING LOCATIONS AND REPLACE WITH NEW. ADD ANY EXIT SIGNS NOT SHOWN TO NEAREST NEW INVERTER CIRCUIT AND DOCUMENT LOCATION AND CIRCUIT.

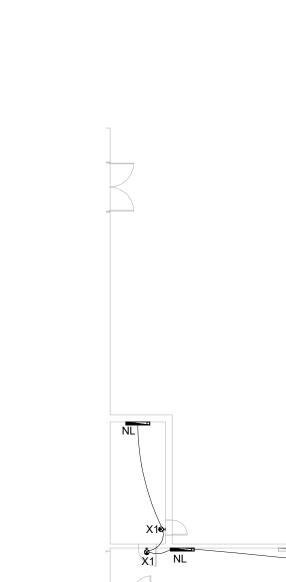
FEED NEW LIGHTING INVERTER 'IN7' AND 'IN8' FROM A 1

DEDICATED 20A/1P BREAKERS IN NEW PANEL 'EC2'. CONNECT ALL FIXTURES IN THIS SPACE TO LIGHTING 2 INVERTER CIRCUIT AND PRESERVE EXISTING SWITCHLEG.





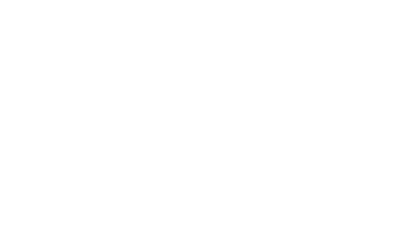




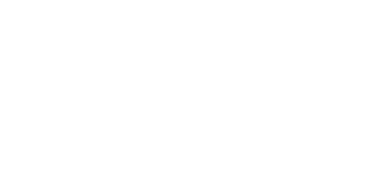
















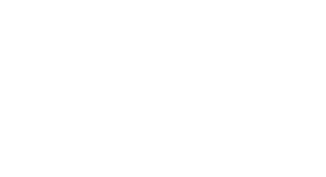












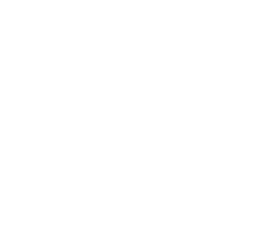




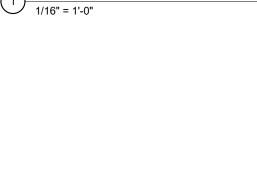




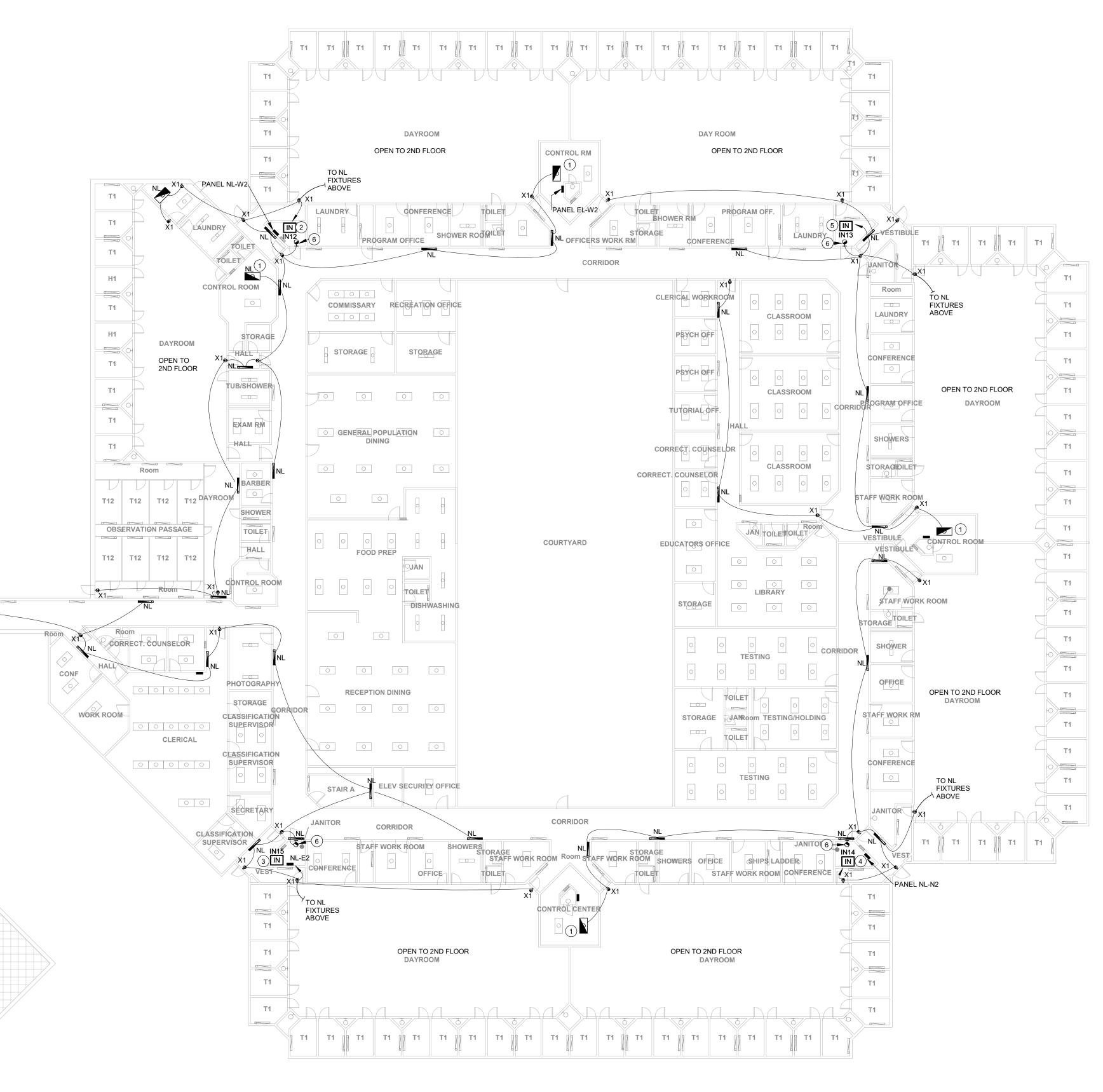






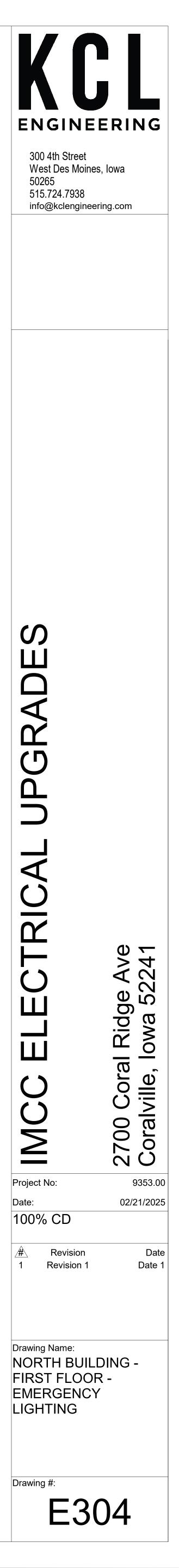


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LIGHTING GENERAL NOTES

- A. DESIGN INTENT IS TO ADD INVERTERS IN APPROXIMATE LOCATIONS SHOWN. EXTEND NEW CONDUCTORS AND 1/2"
- CONDUIT TO ALL DESIGNATED FIXTURES ON DRAWINGS. B. INSTALL SURFACE MOUNTED RACEWAYS ON WALLS IF NECESSARY TO INTERCEPT THE EXISTING EMERGENCY LIGHT SWITCH IN DESIGNATED AREAS. INSTALL SURFACE MOUNTED CONDUIT IN EXPOSED
- STRUCTURE CEILING AREAS AT 9' OR ABOVE FLOOR UNLESS OTHERWISE NOTED. NO SURFACE MOUNTED CONDUIT IS PERMITTED TO BE INSTALLED TO THE BOTTOM OF COVERED CEILINGS.
- MC CABLING IS PERMITTED IN COVERED ACCESSIBLE CEILING APPLICATIONS. OWNER TO REPLACE ALL LAMPS IN DESIGNATED FIXTURES
- WITH LED PRIOR TO FINAL CONNECTION WITH INVERTER. ALL FIXTURES DESIGNATED AS 'NL' ARE UNSWITCHED. IF A
- FIXTURE IS NOT NOTED AS 'NL' IT IS CONNECTED TO THE EXISTING SWITCHLEG IT'S SPACE. EXTEND EXISTING CONDUCTORS AND CONDUIT IN EXISTING G.
- LIGHTING CIRCUITS AFFECTED BY NEW WORK TO PRESERVE EXISTING INTENDED FUNCITONALITY. H. EC TO REPLACE ALL EXISTING EXIT SIGNS WITH NEW IN EXISTING LOCATIONS. NOT ALL EXIT SIGNS MAY BE SHOWN ON DRAWINGS. IT IS THE RESPONSIBILITY OF THE EC TO VERIFY ALL EXISTING LOCATIONS AND REPLACE WITH NEW. ADD ANY
- EXIT SIGNS NOT SHOWN TO NEAREST NEW INVERTER CIRCUIT AND DOCUMENT LOCATION AND CIRCUIT. KEYNOTES (#)
- 1 CONNECT (1) NEW LED LAMP IN THIS FIXTURE TO UNSWITCHED INVERTER CIRCUIT TO SERVE AS NIGHT
- LIGHT. FEED NEW LIGHTING INVERTER 'IN12' FROM A DEDICATED 2
- 20A/1P BREAKER IN NEW PANEL 'NL-W2'. FEED NEW LIGHTING INVERTER 'IN15' FROM A DEDICATED
- 20A/1P BREAKER IN NEW PANEL 'NL-E2'. FEED NEW LIGHTING INVERTER 'IN14' FROM A DEDICATED
- 20A/1P BREAKER IN NEW PANEL 'NL-N2'. FEED NEW LIGHTING INVERTER 'IN13' FROM A DEDICATED
- 20A/1P BREAKER IN NEW PANEL 'EL-W2'. CONNECT ALL FIXTURES IN THIS SPACE TO LIGHTING INVERTER CIRCUIT AND PRESERVE EXISTING SWITCHLEG.

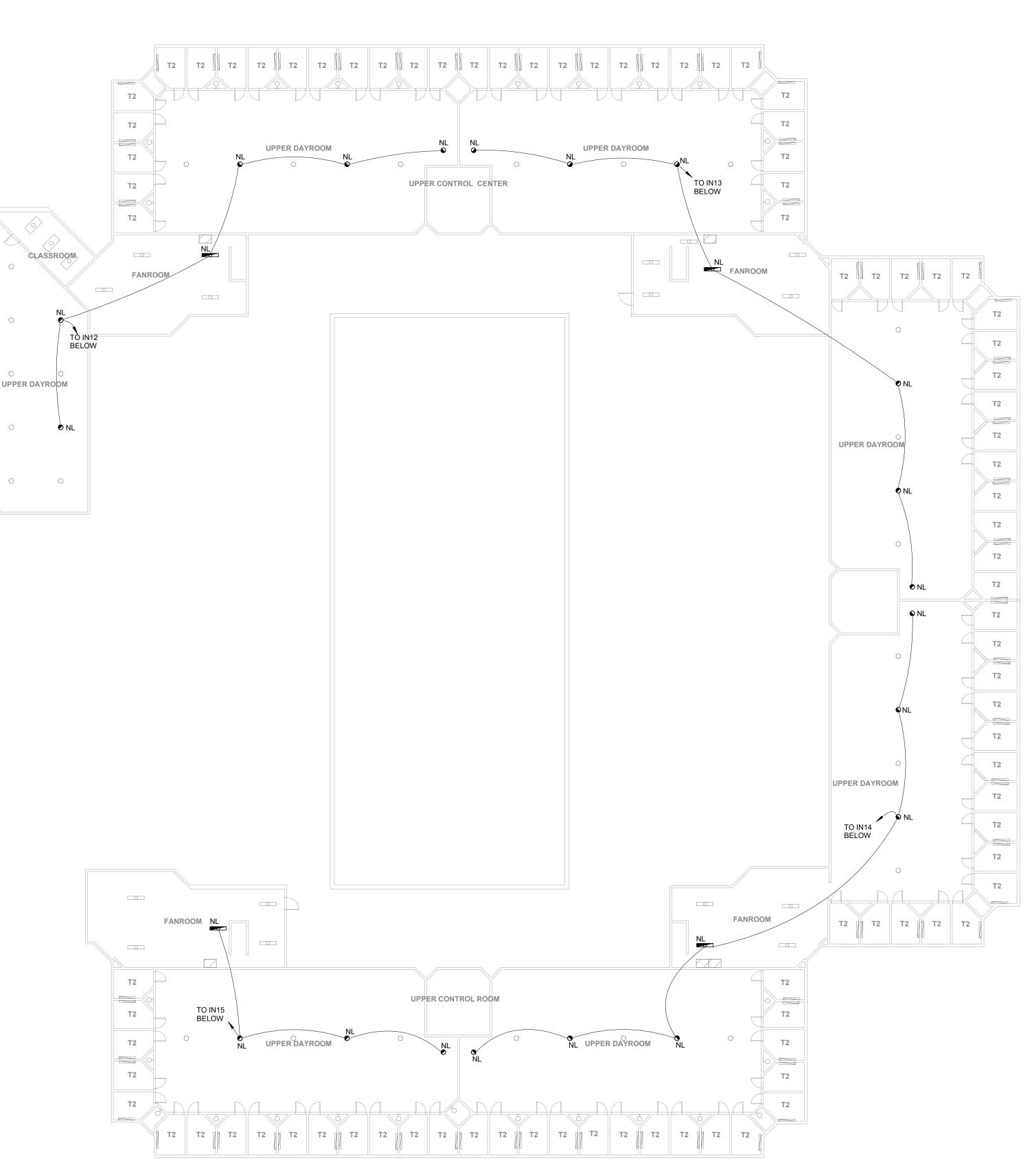


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1) SECOND FLOOR CEILING PLAN - NORTH BUILDING 1/16" = 1'-0"

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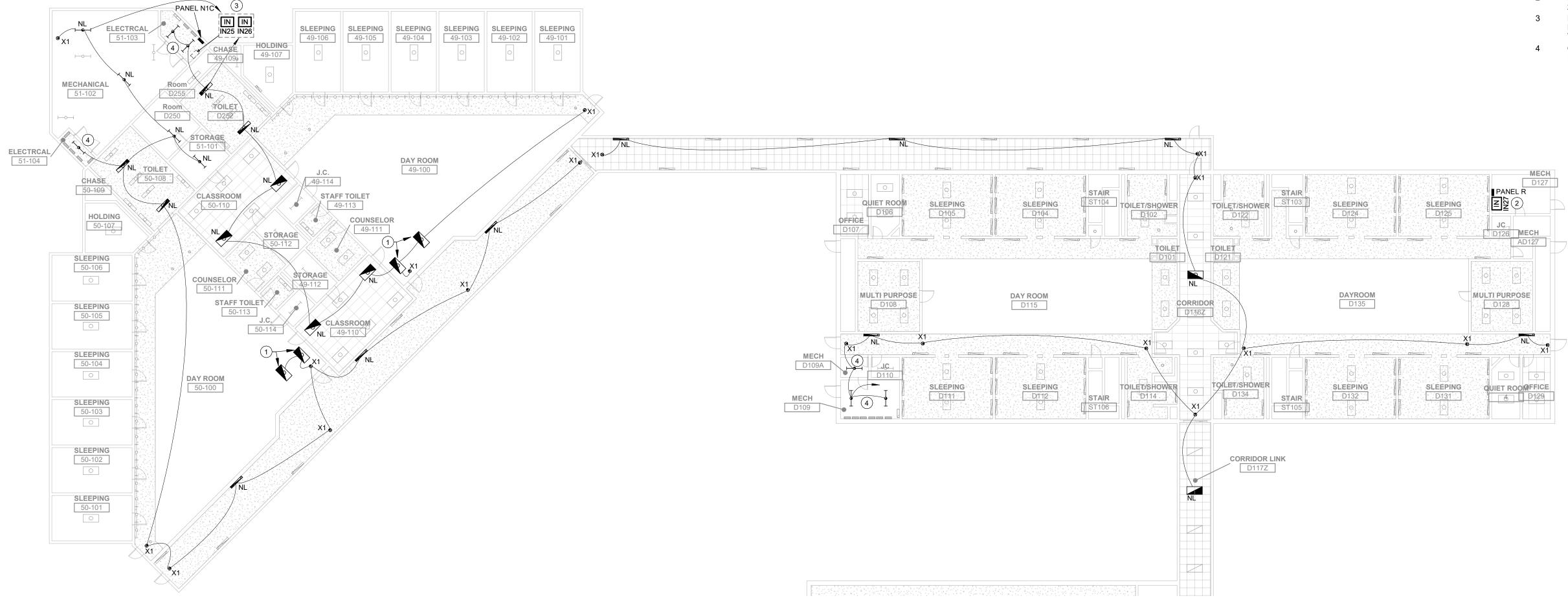
LIGHTING GENERAL NOTES

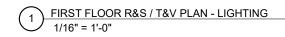
- A. DESIGN INTENT IS TO ADD INVERTERS IN APPROXIMATE LOCATIONS SHOWN. EXTEND NEW CONDUCTORS AND 1/2" CONDUIT TO ALL DESIGNATED FIXTURES ON DRAWINGS.
 B. INSTALL SURFACE MOUNTED RACEWAYS ON WALLS IF
- B. INSTALL SURFACE MOUNTED RACEWAYS ON WALLS IF NECESSARY TO INTERCEPT THE EXISTING EMERGENCY LIGHT SWITCH IN DESIGNATED AREAS.
 C. INSTALL SURFACE MOUNTED CONDUIT IN EXPOSED
- STRUCTURE CEILING AREAS AT 9' OR ABOVE FLOOR UNLESS
 OTHERWISE NOTED. NO SURFACE MOUNTED CONDUIT IS
 PERMITTED TO BE INSTALLED TO THE BOTTOM OF COVERED
 CEILINGS.
 MC CABLING IS PERMITTED IN COVERED ACCESSIBLE CEILING
- D. MC CABLING IS PERMITTED IN COVERED ACCESSIBLE CEILING APPLICATIONS.
 E. OWNER TO REPLACE ALL LAMPS IN DESIGNATED FIXTURES WITH LED PRIOR TO FINAL CONNECTION WITH INVERTER.
- WITH LED PRIOR TO FINAL CONNECTION WITH INVERTER.
 F. ALL FIXTURES DESIGNATED AS 'NL' ARE UNSWITCHED. IF A FIXTURE IS NOT NOTED AS 'NL' IT IS CONNECTED TO THE
- EXISTING SWITCHLEG IT'S SPACE. G. EXTEND EXISTING CONDUCTORS AND CONDUIT IN EXISTING LIGHTING CIRCUITS AFFECTED BY NEW WORK TO PRESERVE

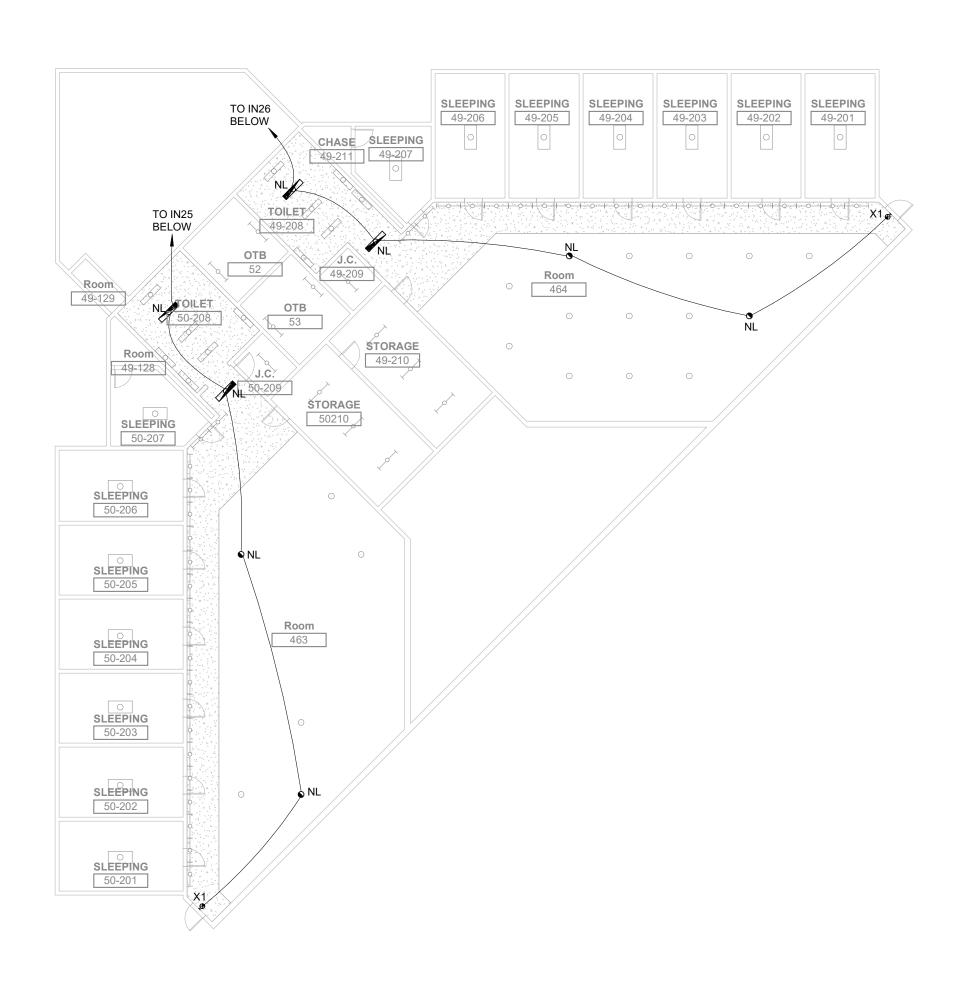
AND DOCUMENT LOCATION AND CIRCUIT.

EXISTING INTENDED FUNCITONALITY. H. EC TO REPLACE ALL EXISTING EXIT SIGNS WITH NEW IN EXISTING LOCATIONS. NOT ALL EXIT SIGNS MAY BE SHOWN ON DRAWINGS. IT IS THE RESPONSIBILITY OF THE EC TO VERIFY ALL EXISTING LOCATIONS AND REPLACE WITH NEW. ADD ANY EXIT SIGNS NOT SHOWN TO NEAREST NEW INVERTER CIRCUIT



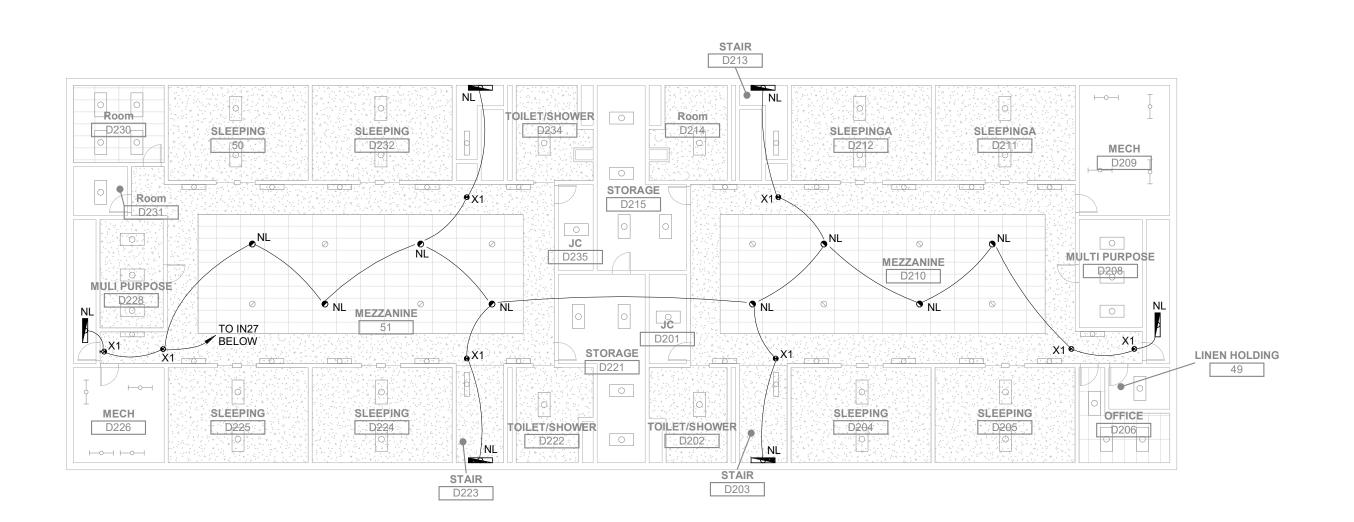






2 SECOND FLOOR CEILING PLAN - R&S / T&V BUILDINGS 1/16" = 1'-0"

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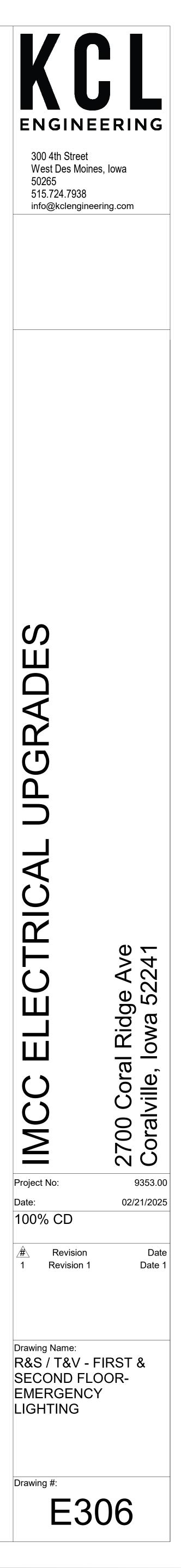


LIGHTING GENERAL NOTES

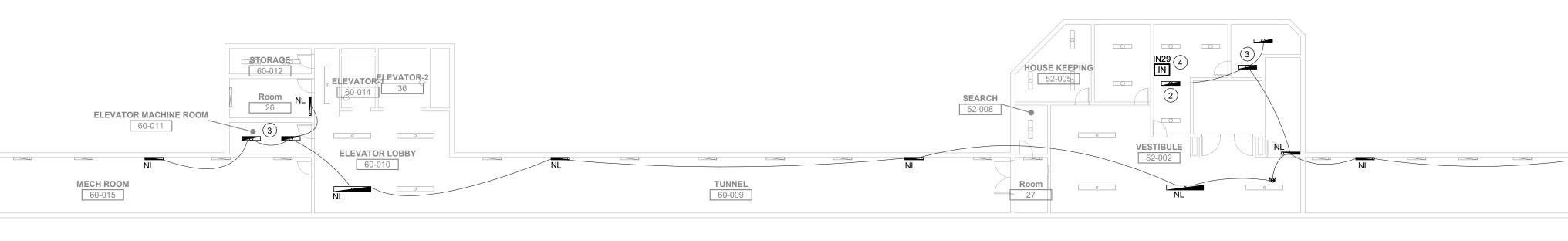
- A. DESIGN INTENT IS TO ADD INVERTERS IN APPROXIMATE LOCATIONS SHOWN. EXTEND NEW CONDUCTORS AND 1/2" CONDUIT TO ALL DESIGNATED FIXTURES ON DRAWINGS.
 B. INSTALL SURFACE MOUNTED RACEWAYS ON WALLS IF
- INSTALL SURFACE MOUNTED RACEWATS ON WALLS IF
 NECESSARY TO INTERCEPT THE EXISTING EMERGENCY LIGHT
 SWITCH IN DESIGNATED AREAS.
 C. INSTALL SURFACE MOUNTED CONDUIT IN EXPOSED
- STRUCTURE CEILING AREAS AT 9' OR ABOVE FLOOR UNLESS OTHERWISE NOTED. NO SURFACE MOUNTED CONDUIT IS PERMITTED TO BE INSTALLED TO THE BOTTOM OF COVERED CEILINGS.
- D. MC CABLING IS PERMITTED IN COVERED ACCESSIBLE CEILING APPLICATIONS.
 E. OWNER TO REPLACE ALL LAMPS IN DESIGNATED FIXTURES
- WITH LED PRIOR TO FINAL CONNECTION WITH INVERTER.
 F. ALL FIXTURES DESIGNATED AS 'NL' ARE UNSWITCHED. IF A FIXTURE IS NOT NOTED AS 'NL' IT IS CONNECTED TO THE
- EXISTING SWITCHLEG IT'S SPACE. G. EXTEND EXISTING CONDUCTORS AND CONDUIT IN EXISTING LIGHTING CIRCUITS AFFECTED BY NEW WORK TO PRESERVE EXISTING INTENDED FUNCITONALITY.
- H. EC TO REPLACE ALL EXISTING EXIT SIGNS WITH NEW IN EXISTING LOCATIONS. NOT ALL EXIT SIGNS MAY BE SHOWN ON DRAWINGS. IT IS THE RESPONSIBILITY OF THE EC TO VERIFY ALL EXISTING LOCATIONS AND REPLACE WITH NEW. ADD ANY EXIT SIGNS NOT SHOWN TO NEAREST NEW INVERTER CIRCUIT AND DOCUMENT LOCATION AND CIRCUIT.

KEYNOTES (#)

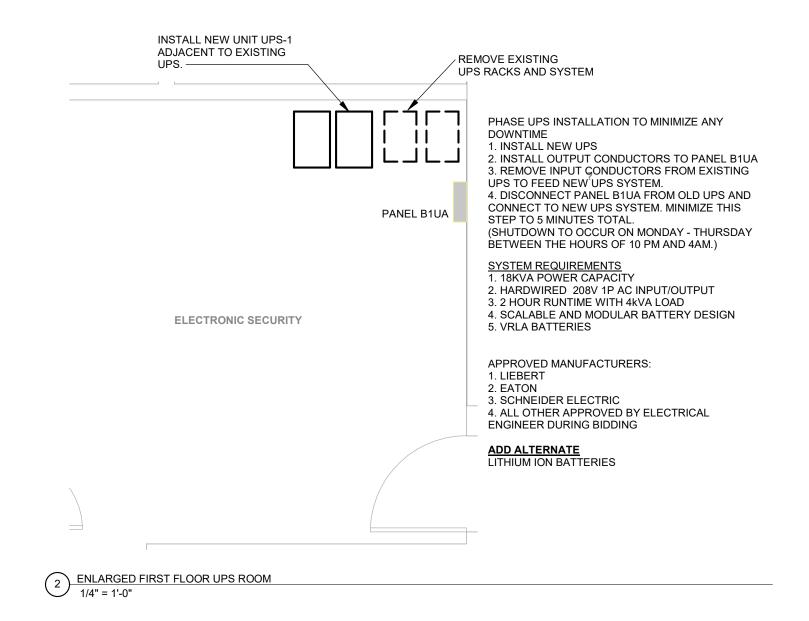
- 1 CONNECT (1) NEW LED LAMP IN THIS FIXTURE TO UNSWITCHED INVERTER CIRCUIT TO SERVE AS NIGHT LIGHT.
- 2 FEED NEW LIGHTING INVERTER 'IN27' FROM A DEDICATED 20A/1P BREAKER IN NEW PANEL 'R'.
- 3 FEED NEW LIGHTING INVERTER 'IN25' AND 'IN26' FROM DEDICATED 20A/1P BREAKERS IN NEW PANEL 'N1C'. MOUNT TO WALL IN LOCATION SHOWN BY ARROW.
- 4 CONNECT ALL FIXTURES IN THIS SPACE TO LIGHTING INVERTER CIRCUIT AND PRESERVE EXISTING SWITCHLEG.

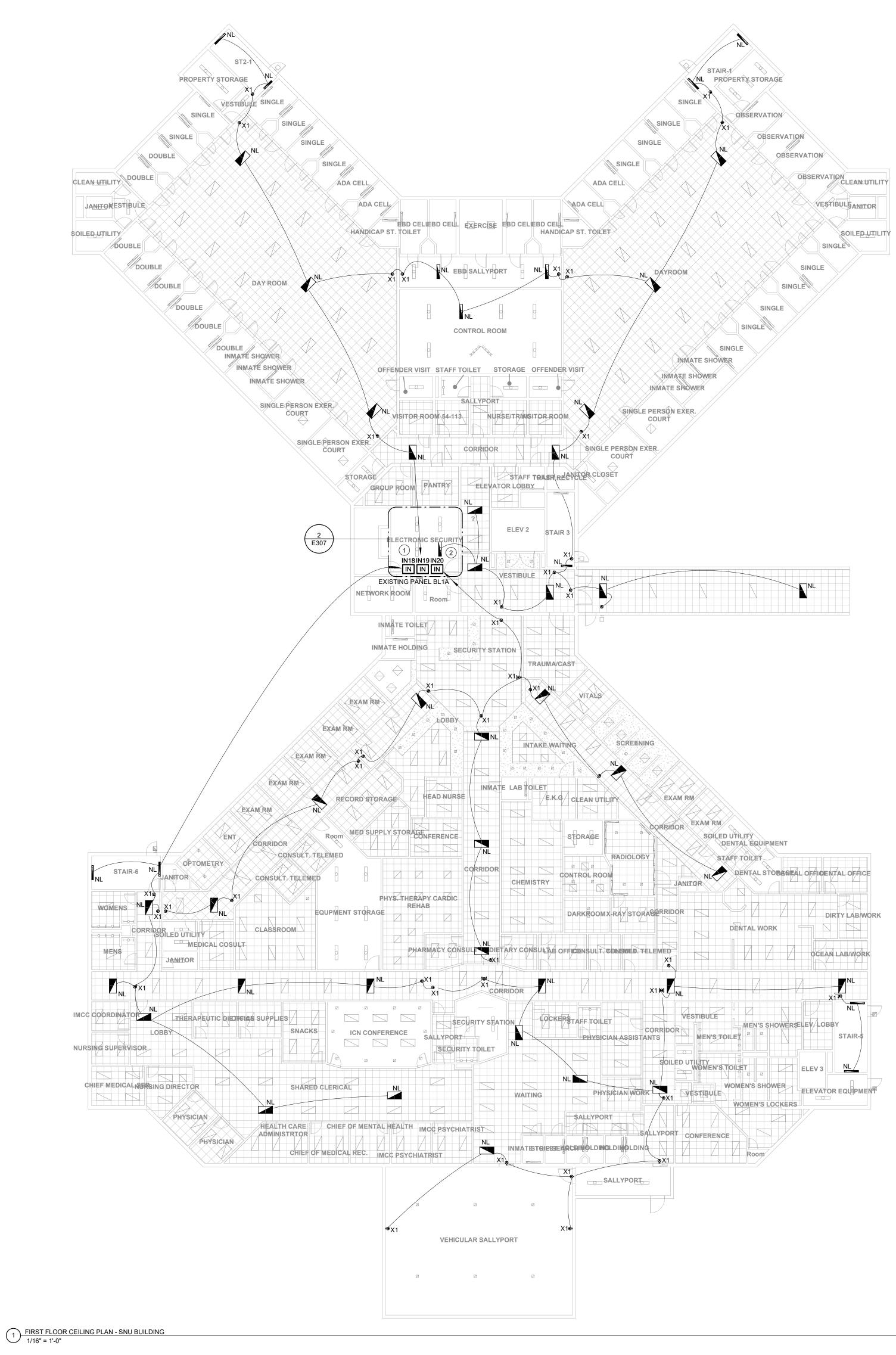


3 BASEMENT CEILING PLAN - SNU BUILDING AND POWERHOUSE 1/16" = 1'-0"



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LIGHTING GENERAL NOTES

- A. DESIGN INTENT IS TO ADD INVERTERS IN APPROXIMATE LOCATIONS SHOWN. EXTEND NEW CONDUCTORS AND 1/2" CONDUIT TO ALL DESIGNATED FIXTURES ON DRAWINGS.
- INSTALL SURFACE MOUNTED RACEWAYS ON WALLS IF Β. NECESSARY TO INTERCEPT THE EXISTING EMERGENCY LIGHT SWITCH IN DESIGNATED AREAS. INSTALL SURFACE MOUNTED CONDUIT IN EXPOSED С.
- STRUCTURE CEILING AREAS AT 9' OR ABOVE FLOOR UNLESS OTHERWISE NOTED. NO SURFACE MOUNTED CONDUIT IS PERMITTED TO BE INSTALLED TO THE BOTTOM OF COVERED CEILINGS. MC CABLING IS PERMITTED IN COVERED ACCESSIBLE CEILING D.
- APPLICATIONS. OWNER TO REPLACE ALL LAMPS IN DESIGNATED FIXTURES WITH LED PRIOR TO FINAL CONNECTION WITH INVERTER.
- ALL FIXTURES DESIGNATED AS 'NL' ARE UNSWITCHED. IF A FIXTURE IS NOT NOTED AS 'NL' IT IS CONNECTED TO THE EXISTING SWITCHLEG IT'S SPACE. G. EXTEND EXISTING CONDUCTORS AND CONDUIT IN EXISTING
- LIGHTING CIRCUITS AFFECTED BY NEW WORK TO PRESERVE EXISTING INTENDED FUNCITONALITY. EC TO REPLACE ALL EXISTING EXIT SIGNS WITH NEW IN Η. EXISTING LOCATIONS. NOT ALL EXIT SIGNS MAY BE SHOWN ON DRAWINGS. IT IS THE RESPONSIBILITY OF THE EC TO VERIFY ALL EXISTING LOCATIONS AND REPLACE WITH NEW. ADD ANY

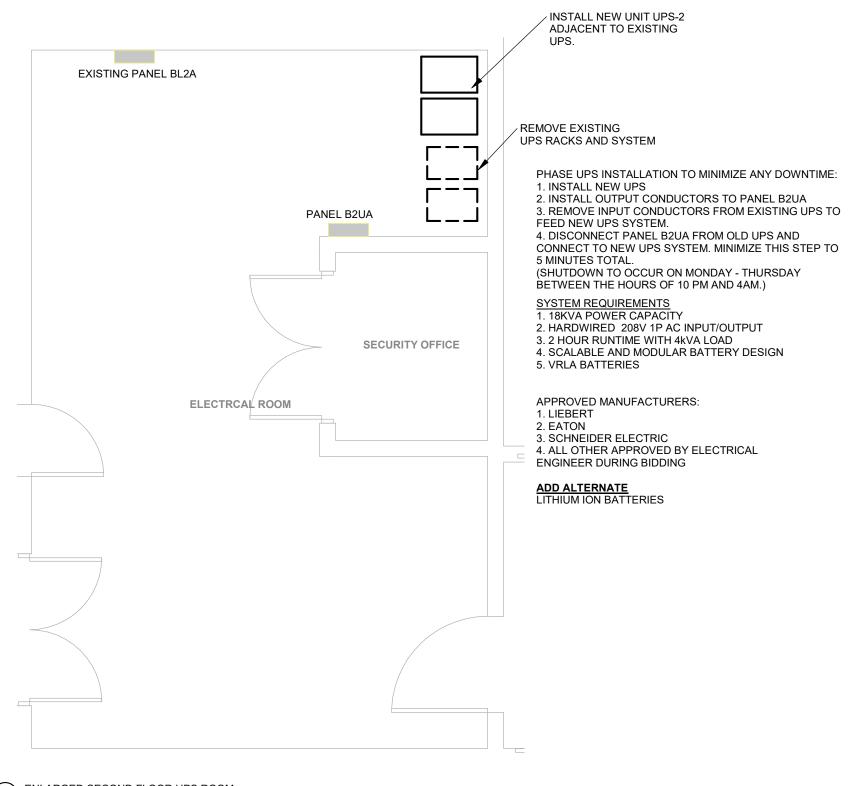
EXIT SIGNS NOT SHOWN TO NEAREST NEW INVERTER CIRCUIT

AND DOCUMENT LOCATION AND CIRCUIT. KEYNOTES (#)

- FEED NEW LIGHTING INVERTER 'IN18','IN19', AND 'IN20' FROM DEDICATED 20A/1P SPARE BREAKERS IN EXISTING PANEL 'BL1A'.
- CONNECT DESIGNATED FIXTURES IN THIS SPACE TO 2 EMERGENCY TRANSFER DEVICE AND LIGHTING INVERTER CIRCUIT. PRESERVE EXISTING SWITCHLEG FUNCTIONALITY IN THIS SPACE.
- CONNECT ALL FIXTURES IN THIS SPACE TO LIGHTING INVERTER CIRCUIT AND PRESERVE EXISTING SWITCHLEG.
- FEED NEW LIGHTING INVERTER 'IN29' FROM A DEDICATED 20A/1P BREAKER IN PANEL 'B1LA'. VERIFY VOLTAGES FOR ALL DESIGNATED FIXTURES IN THE BASEMENT LEVEL BEFORE CONNECTION TO LIGHTING INVERTER.

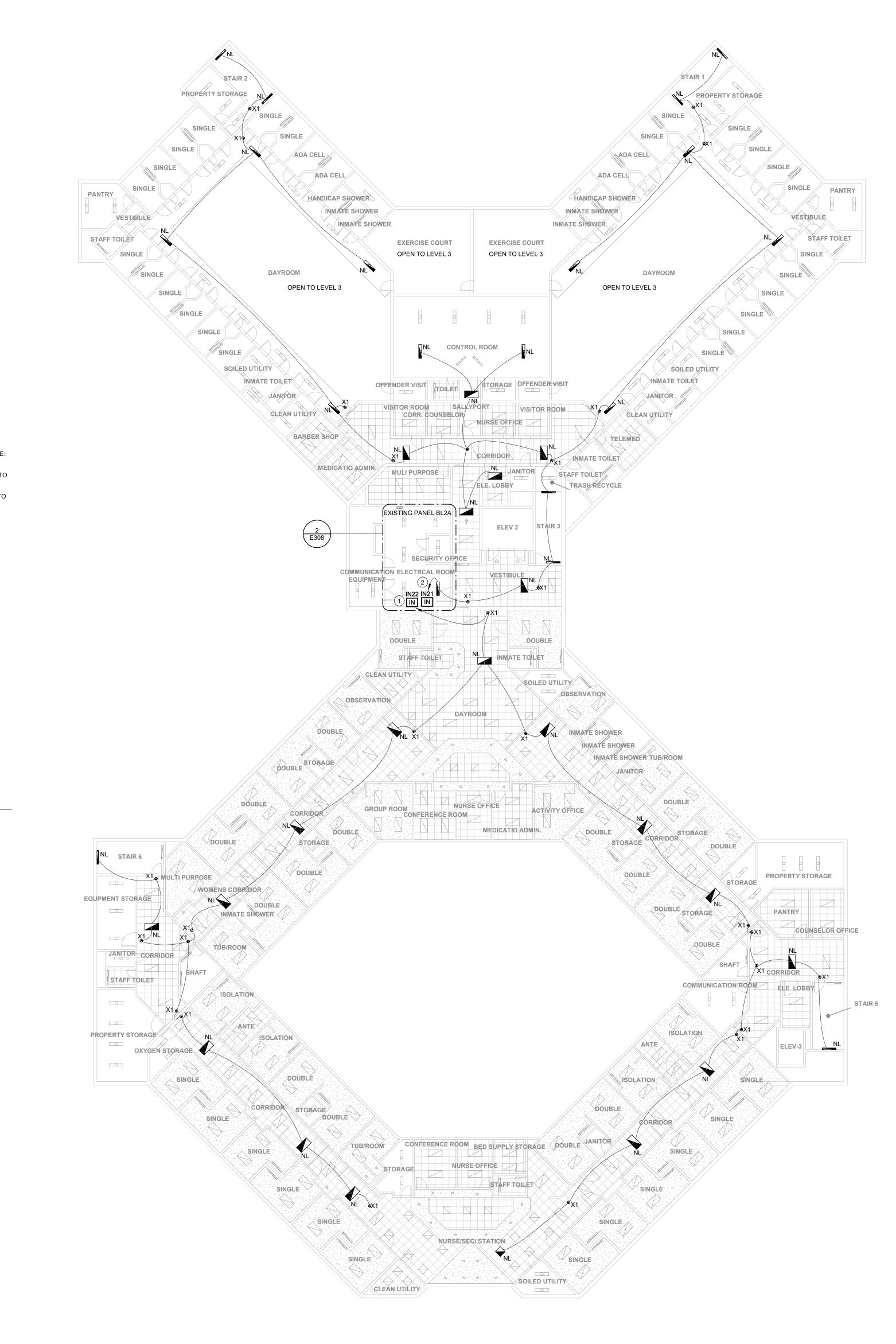
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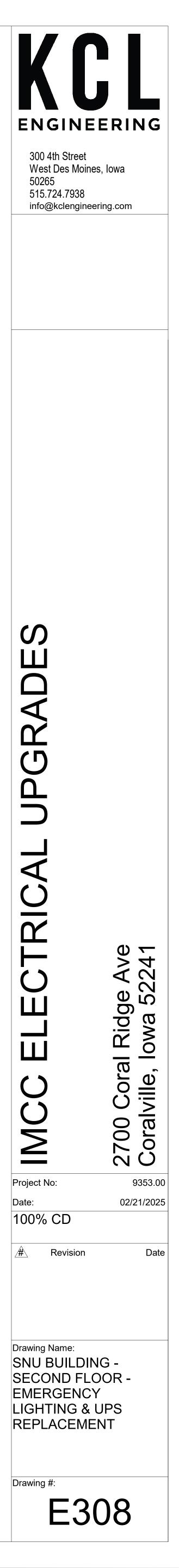
1 SECOND FLOOR CEILING PLAN - SNU BUILDING 1/16" = 1'-0" LIGHTING GENERAL NOTES

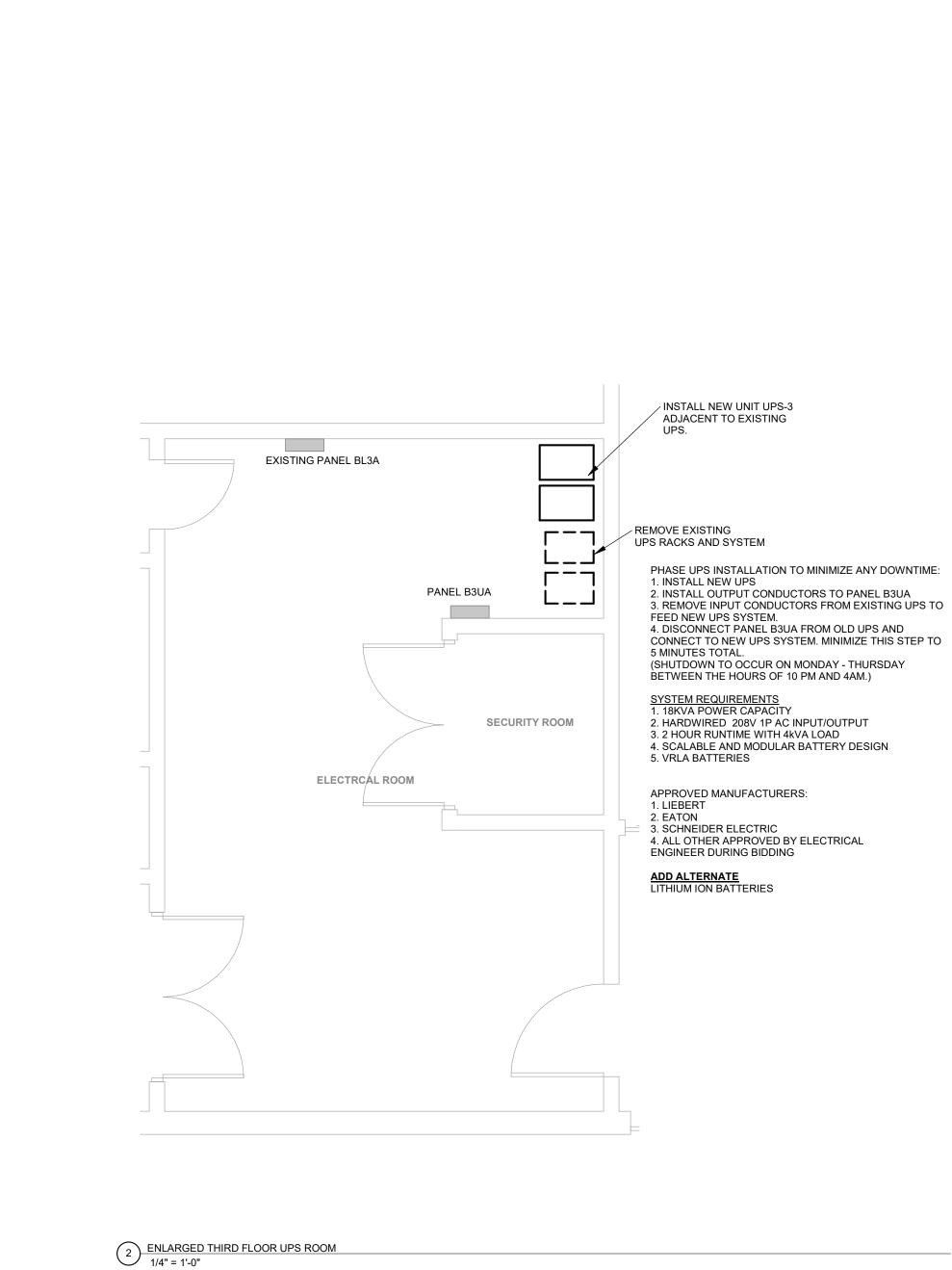
- A. DESIGN INTENT IS TO ADD INVERTERS IN APPROXIMATE LOCATIONS SHOWN. EXTEND NEW CONDUCTORS AND 1/2" CONDUIT TO ALL DESIGNATED FIXTURES ON DRAWINGS.
- B. INSTALL SURFACE MOUNTED RACEWAYS ON WALLS IF NECESSARY TO INTERCEPT THE EXISTING EMERGENCY LIGHT SWITCH IN DESIGNATED AREAS.
 C. INSTALL SURFACE MOUNTED CONDUIT IN EXPOSED
- STRUCTURE CEILING AREAS AT 9' OR ABOVE FLOOR UNLESS OTHERWISE NOTED. NO SURFACE MOUNTED CONDUIT IS PERMITTED TO BE INSTALLED TO THE BOTTOM OF COVERED CEILINGS.
- D. MC CABLING IS PERMITTED IN COVERED ACCESSIBLE CEILING APPLICATIONS.
 E. OWNER TO REPLACE ALL LAMPS IN DESIGNATED FIXTURES
- WITH LED PRIOR TO FINAL CONNECTION WITH INVERTER.
 F. ALL FIXTURES DESIGNATED AS 'NL' ARE UNSWITCHED. IF A FIXTURE IS NOT NOTED AS 'NL' IT IS CONNECTED TO THE EXISTING SWITCHLEG IT'S SPACE.
- G. EXTEND EXISTING CONDUCTORS AND CONDUIT IN EXISTING LIGHTING CIRCUITS AFFECTED BY NEW WORK TO PRESERVE EXISTING INTENDED FUNCITONALITY.
 H. EC TO REPLACE ALL EXISTING EXIT SIGNS WITH NEW IN EXISTING LOCATIONS. NOT ALL EXIT SIGNS MAY BE SHOWN ON DRAWINGS. IT IS THE RESPONSIBILITY OF THE EC TO VERIFY ALL EXISTING LOCATIONS AND REPLACE WITH NEW. ADD ANY

EXIT SIGNS NOT SHOWN TO NEAREST NEW INVERTER CIRCUIT

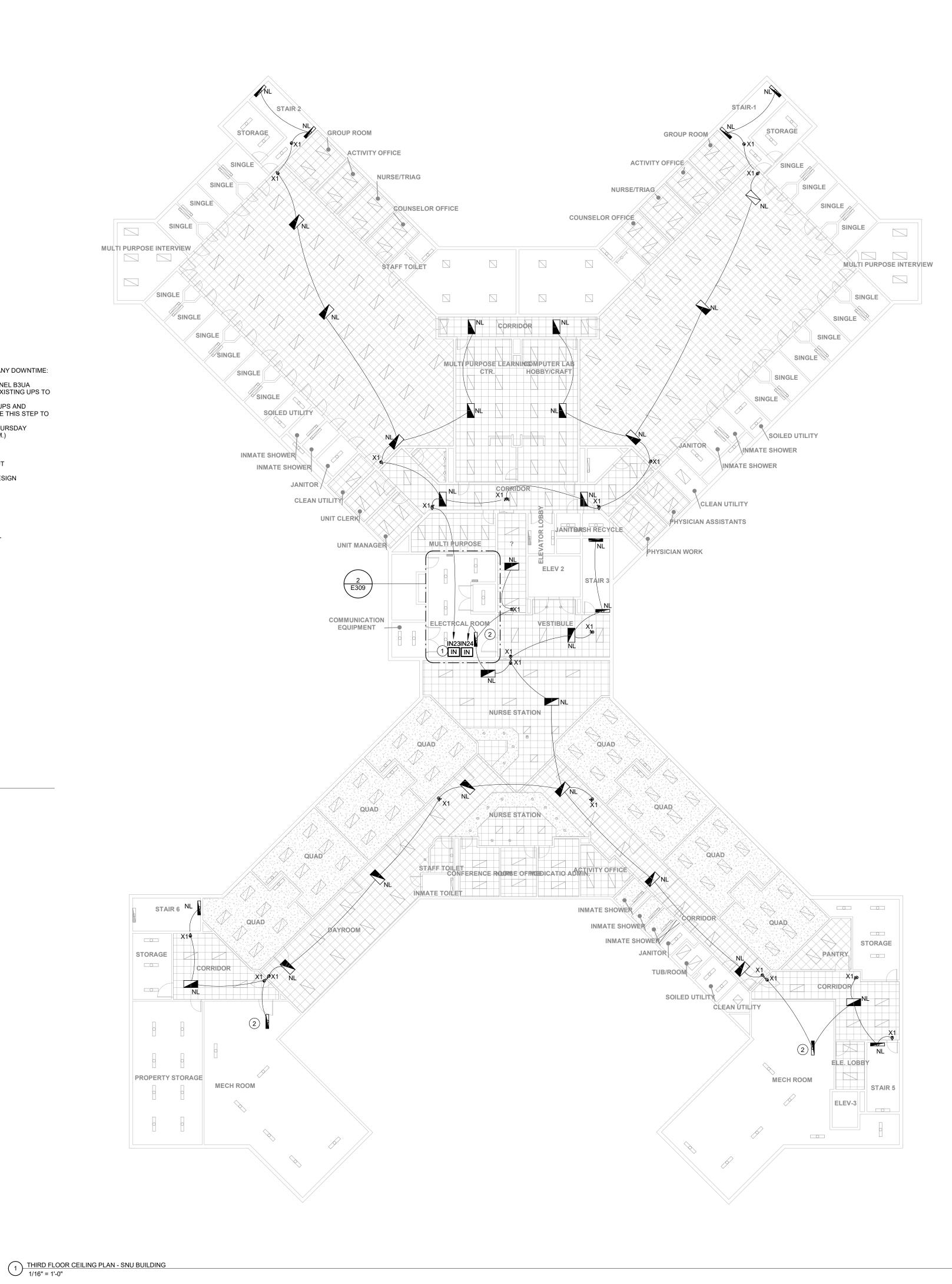
AND DOCUMENT LOCATION AND CIRCUIT.

- 1 FEED NEW LIGHTING INVERTER 'IN21' AND 'IN22' FROM DEDICATED 20A/1P SPARE BREAKERS IN EXISTING PANEL 'BL2A'.
- 2 CONNECT DESIGNATED FIXTURES IN THIS SPACE TO EMERGENCY TRANSFER DEVICE AND LIGHTING INVERTER CIRCUIT. PRESERVE EXISTING SWITCHLEG FUNCTIONALITY IN THIS SPACE.





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LIGHTING GENERAL NOTES

- A. DESIGN INTENT IS TO ADD INVERTERS IN APPROXIMATE LOCATIONS SHOWN. EXTEND NEW CONDUCTORS AND 1/2" CONDUIT TO ALL DESIGNATED FIXTURES ON DRAWINGS.
- B. INSTALL SURFACE MOUNTED RACEWAYS ON WALLS IF NECESSARY TO INTERCEPT THE EXISTING EMERGENCY LIGHT SWITCH IN DESIGNATED AREAS. INSTALL SURFACE MOUNTED CONDUIT IN EXPOSED C.
- STRUCTURE CEILING AREAS AT 9' OR ABOVE FLOOR UNLESS OTHERWISE NOTED. NO SURFACE MOUNTED CONDUIT IS PERMITTED TO BE INSTALLED TO THE BOTTOM OF COVERED CEILINGS.
- D. MC CABLING IS PERMITTED IN COVERED ACCESSIBLE CEILING APPLICATIONS. OWNER TO REPLACE ALL LAMPS IN DESIGNATED FIXTURES
- WITH LED PRIOR TO FINAL CONNECTION WITH INVERTER. ALL FIXTURES DESIGNATED AS 'NL' ARE UNSWITCHED. IF A FIXTURE IS NOT NOTED AS 'NL' IT IS CONNECTED TO THE
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KEYNOTES (#)

- FEED NEW LIGHTING INVERTER 'IN23' AND 'IN24' FROM 1 DEDICATED 20A/1P SPARE BREAKERS IN EXISTING PANEL 'BL3A'.
- CONNECT DESIGNATED FIXTURES IN THIS SPACE TO EMERGENCY TRANSFER DEVICE AND LIGHTING INVERTER CIRCUIT. PRESERVE EXISTING SWITCHLEG FUNCTIONALITY IN THIS SPACE.



1 FIRST FLOOR CEILING PLAN - POWERHOUSE 1/16" = 1'-0"

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SECURITY PANEL 61-136

PANEL PHS

INSTALL NEW UNIT UPS-4 ADJACENT TO

EXISTING UPS. -



2. HARDWIRED 208V 1P AC INPUT/OUTPUT 3. 2 HOUR RUNTIME WITH 4kVA LOAD 4. SCALABLE AND MODULAR BATTERY DESIGN 5. VRLA BATTERIES

SYSTEM REQUIREMENTS 1. 18KVA POWER CAPACITY

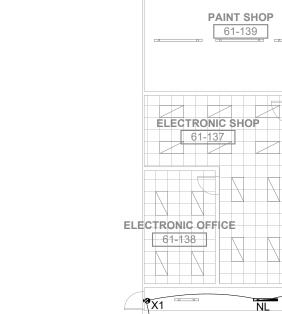
1. INSTALL NEW UPS 2. INSTALL OUTPUT CONDUCTORS TO PANEL PHS 3. REMOVE INPUT CONDUCTORS FROM EXISTING UPS TO FEED NEW UPS SYSTEM. 4. DISCONNECT PANEL PHS FROM OLD UPS AND CONNECT TO NEW UPS SYSTEM. MINIMIZE THIS STEP TO 5 MINUTES TOTAL. (SHUTDOWN TO OCCUR ON MONDAY - THURSDAY BETWEEN THE HOURS OF 10 PM AND 4AM.)

- REMOVE EXISTING UPS RACKS AND SYSTEM. PHASE UPS INSTALLATION TO MINIMIZE ANY DOWNTIME





NEW IN EXISTING ENCLOSURE. -

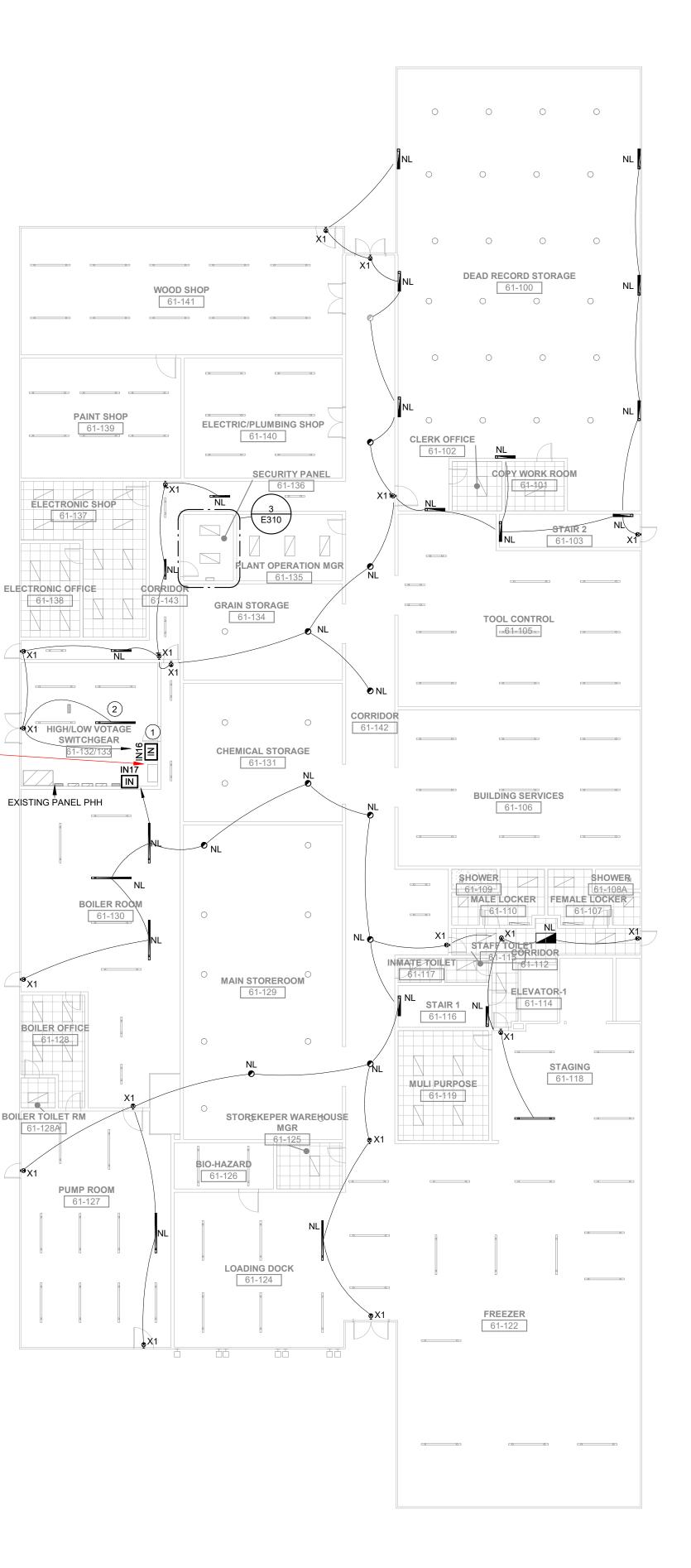


BOILER OFFICE

61-128

BOILER TOILET RM

™X1



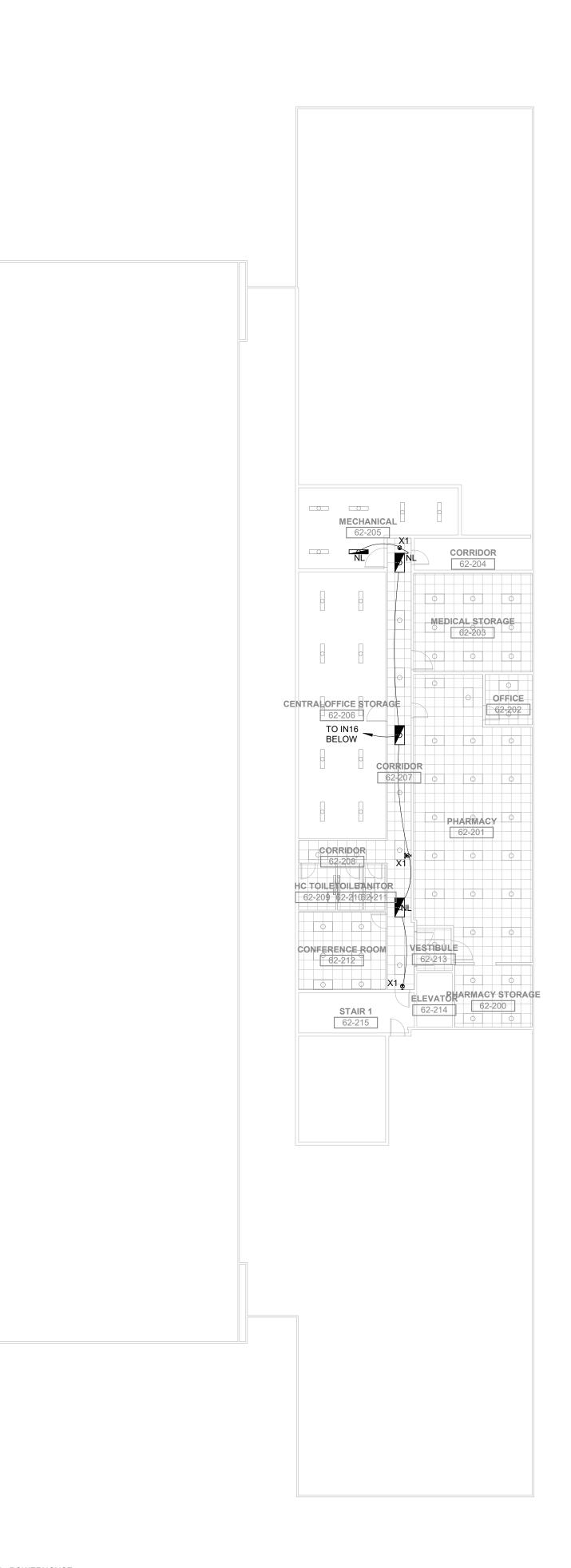
2 SECOND FLOOR CEILING PLAN - POWERHOUSE 1/16" = 1'-0"

LIGHTING GENERAL NOTES

- A. DESIGN INTENT IS TO ADD INVERTERS IN APPROXIMATE LOCATIONS SHOWN. EXTEND NEW CONDUCTORS AND 1/2" CONDUIT TO ALL DESIGNATED FIXTURES ON DRAWINGS. B. INSTALL SURFACE MOUNTED RACEWAYS ON WALLS IF
- NECESSARY TO INTERCEPT THE EXISTING EMERGENCY LIGHT SWITCH IN DESIGNATED AREAS. INSTALL SURFACE MOUNTED CONDUIT IN EXPOSED C. STRUCTURE CEILING AREAS AT 9' OR ABOVE FLOOR UNLESS
- OTHERWISE NOTED. NO SURFACE MOUNTED CONDUIT IS PERMITTED TO BE INSTALLED TO THE BOTTOM OF COVERED CEILINGS. D. MC CABLING IS PERMITTED IN COVERED ACCESSIBLE CEILING
- APPLICATIONS. OWNER TO REPLACE ALL LAMPS IN DESIGNATED FIXTURES Ε. WITH LED PRIOR TO FINAL CONNECTION WITH INVERTER.
- ALL FIXTURES DESIGNATED AS 'NL' ARE UNSWITCHED. IF A FIXTURE IS NOT NOTED AS 'NL' IT IS CONNECTED TO THE EXISTING SWITCHLEG IT'S SPACE.
- G. EXTEND EXISTING CONDUCTORS AND CONDUIT IN EXISTING LIGHTING CIRCUITS AFFECTED BY NEW WORK TO PRESERVE EXISTING INTENDED FUNCITONALITY. H. EC TO REPLACE ALL EXISTING EXIT SIGNS WITH NEW IN EXISTING LOCATIONS. NOT ALL EXIT SIGNS MAY BE SHOWN ON DRAWINGS. IT IS THE RESPONSIBILITY OF THE EC TO VERIFY
- ALL EXISTING LOCATIONS AND REPLACE WITH NEW. ADD ANY EXIT SIGNS NOT SHOWN TO NEAREST NEW INVERTER CIRCUIT AND DOCUMENT LOCATION AND CIRCUIT.

KEYNOTES (#)

- FEED NEW LIGHTING INVERTER 'IN16' AND 'IN17' FROM 1 DEDICATED 20A/1P SPARE BREAKERS IN EXISTING PANEL 'PHH'. CONNECT DESIGNATED FIXTURES IN THIS SPACE TO 2
- EMERGENCY TRANSFER DEVICE AND LIGHTING INVERTER CIRCUIT. PRESERVE EXISTING SWITCHLEG FUNCTIONALITY IN THIS SPACE.





	7	A 0 A	0 A	
LEGEND:				
'G" INDICATES GFCI TYPE BREAKE 'F" INDICATES RED LOCK-ON HASF		ABLE HASP		
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOT
LIGHTING	820 VA	125.00%	1025 VA	
				TOTAL CONN. LOAD: 820 V
				TOTAL EST. DEMAND: 1025
				TOTAL CONN.: 2 A
				TOTAL EST. DEMAND: 3 A

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	CIRCUIT DESCRIPTION	Р	AMP	CKT NO		A		3	c	;	CKT NO	AMP	Р	CIRCUIT DESCRIPTION
	SPARE	1	20 A	1	0	0					2	20 A	1	SPARE
	SPARE	1	20 A	3			0	0			4	20 A	1	SPARE
	SPARE	1	20 A	5					0	0	6	20 A	1	SPARE
	SPARE	1	20 A	7	0	0					8	20 A	1	SPARE
	SPARE	1	20 A	9			0	0			10	20 A	1	SPARE
	SPARE	1	20 A	11					0	0	12	20 A	1	SPARE
	SPARE	1	20 A	13	0	0					14	20 A	1	SPARE
	SPARE	1	20 A	15			0	0			16	20 A	1	SPARE
	SPARE	1	20 A	17					0	0	18	20 A	1	SPARE
	SPARE	1	20 A	19	0	0					20	20 A	1	SPARE
	SPARE	1	20 A	21			0	0			22	20 A	1	SPARE
	SPARE	1	20 A	23					0	0	24	20 A	1	SPARE
	SPARE	1	20 A	25	0	0					26	20 A	1	SPARE
	SPARE	1	20 A	27			0	0			28	20 A	1	SPARE
	SPARE	1	20 A	29					0	0	30	20 A	1	SPARE
	SPARE	1	20 A	31	0	0					32	20 A	1	SPARE
	SPARE	1	20 A	33			0	0			34	20 A	1	SPARE
	SPARE	1	20 A	35					0	0	36	20 A	1	SPARE
	SPARE	1	20 A	37	0	0					38	20 A	1	SPARE
	SPARE	1	20 A	39			0	0			40	20 A	1	SPARE
	SPARE	1	20 A	41					0	0	42	20 A	1	SPARE
	LIGHTING INVERTER 'IN11'	1	20 A	43	820						44			
				45							46			
				47							48			
				49							50			
				51							52			
	RECEPTACLE	1	20 A	53					0		54			
				1	820) VA	0	VA	0 \	/A				
1														

NOTES:

LEGEND:

"F" INDICATES RED LOCK-ON HASP

BRANCH PANEL: LL2	

SUPPLY FROM: EMA2

MOUNTING: SURFACE

ENCLOSURE: TYPE 1

LOCATION: CONFERENCE 12-76

"G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP

VOLTAGE: 120/208 WYE PHASES: 3

WIRES: 4

SCCR RATING: 10,000 MAINS TYPE: MLO MAINS RATING: 225 A

SCCR RATING: 10,000

MAINS RATING: 225 A

P

CIRCUIT DESCRIPTION

СКТ

С

NO AMP

MAINS TYPE: MLO

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
IGHTING	390 VA	125.00%	488 VA	
				TOTAL CONN. LOAD: 390 VA
				TOTAL EST. DEMAND: 488 VA
				TOTAL CONN.: 1 A
				TOTAL EST. DEMAND: 1 A
NOTES:	1	1	1	

0 A

0 A

3 A

		-		-		_	-	-	-		-	
SPARE	1 20 A	1	0	0					2	20 A	1	SPARE
SPARE	1 20 A	3			0	0			4	20 A	1	SPARE
SPARE	1 20 A	5					0	0	6	20 A	1	SPARE
SPARE	1 20 A	7	0	0					8	20 A	1	SPARE
SPARE	1 20 A	9			0	0			10	20 A	1	SPARE
SPARE	1 20 A	11					0	0	12	20 A	1	SPARE
SPARE	1 20 A	13	0	0					14	20 A	1	SPARE
SPARE	1 20 A	15			0	0			16	20 A	1	SPARE
SPARE	1 20 A	17					0	0	18	20 A	1	SPARE
SPARE	1 20 A	19	0	0					20	20 A	1	SPARE
SPARE	1 20 A	21			0	0			22	20 A	1	SPARE
SPARE	1 20 A	23					0	0	24	20 A	1	SPARE
SPARE	1 20 A	25	0	0					26	20 A	1	SPARE
SPARE	1 20 A	27			0	0			28	20 A	1	SPARE
SPARE	1 20 A	29					0	0	30	20 A	1	SPARE
SPARE	1 20 A	31	0	0					32	20 A	1	SPARE
SPARE	1 20 A	33			0	0			34	20 A	1	SPARE
SPARE	1 20 A	35					0	0	36	20 A	1	SPARE
SPARE	1 20 A	37	0	0					38	20 A	1	SPARE
SPARE	1 20 A	39			0	0			40	20 A	1	SPARE
SPARE	1 20 A	41					0	0	42	20 A	1	SPARE
IN3	1 20 A	43	390						44			
		45							46			
		47							48			
		49							50			
		51							52			
RECEPTACLE	1 20 A	53					0		54			
			390	AV C	0	VA	0 \	/A				
						-						

VOLTAGE: 120/208 WYE

В

PHASES: 3

WIRES: 4

NOTES:

MOUNTING: SURFACE ENCLOSURE: TYPE 1

CIRCUIT DESCRIPTION

BRANCH PANEL: LB2

LOCATION: J.C. 2-32

СКТ

Α

AMP NO

P

SUPPLY FROM: US-1

BRANCH PANEL: LG2

LOCATION: ELEVATOR EQUIPMENT 44 SUPPLY FROM: US-1 MOUNTING: SURFACE ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4

SCCR RATING: 10,000 MAINS TYPE: MLO MAINS RATING: 225 A

NOTES:

CIRCUIT DESCRIPTION	Р	AMP	CKT NO		A	В			•	CKT NO	AMP	P	CIRCUIT DESCRIPTION
SPARE	1	20 A	1	0	0					2	20 A	1	SPARE
SPARE	1	20 A	3			0	0			4	20 A	1	SPARE
SPARE	1	20 A	5					0	0	6	20 A	1	SPARE
SPARE	1	20 A	7	0	0					8	20 A	1	SPARE
SPARE	1	20 A	9			0	0			10	20 A	1	SPARE
SPARE	1	20 A	11					0	0	12	20 A	1	SPARE
SPARE	1	20 A	13	0	0					14	20 A	1	SPARE
SPARE	1	20 A	15			0	0			16	20 A	1	SPARE
SPARE	1	20 A	17					0	0	18	20 A	1	SPARE
SPARE	1	20 A	19	0	0					20	20 A	1	SPARE
SPARE	1	20 A	21			0	0			22	20 A	1	SPARE
SPARE	1	20 A	23					0	0	24	20 A	1	SPARE
SPARE	1	20 A	25	0	0					26	20 A	1	SPARE
SPARE	1	20 A	27			0	0			28	20 A	1	SPARE
SPARE	1	20 A	29					0	0	30	20 A	1	SPARE
SPARE	1	20 A	31	0	0					32	20 A	1	SPARE
SPARE	1	20 A	33			0	0			34	20 A	1	SPARE
SPARE	1	20 A	35					0	0	36	20 A	1	SPARE
SPARE	1	20 A	37	0	0					38	20 A	1	SPARE
SPARE	1	20 A	39			0	0			40	20 A	1	SPARE
SPARE	1	20 A	41					0	0	42	20 A	1	SPARE
			43							44			
			45							46			
			47							48			
			49							50			
			51							52			
RECEPTACLE	1	20 A	53					0		54			
				0	VA	0 V.	A	0	/A				
			L	() A	0 A	۸	0	A	-			

"G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP "F" INDICATES RED LOCK-ON HASP

BRANCH PANEL: LD2

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANE	_ TOTALS
				TOTAL CONN. LOAD:	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

LOCATION: SUPPLY FROM: MOUNTING: ENCLOSURE:	EMA2 SURFA(OLTAGE: PHASES: WIRES:	3	WYE			MAIN	SΤ	ING: 22,000 (PE: MLO ING: 225 A
OTES:													
CIRCUIT DESCRIPTION	Р	AMP	CKT NO		A		В	(.	CKT NO	AMP	Р	CIRCUIT DESCRIPTION
SPARE	1	20 A	1	0	0					2	20 A	1	SPARE
SPARE	1	20 A	3			0	0			4	20 A	1	SPARE
SPARE	1	20 A	5					0	0	6	20 A	1	SPARE
SPARE	1	20 A	7	0	0					8	20 A	1	SPARE
SPARE	1	20 A	9			0	0			10	20 A	1	SPARE
SPARE	1	20 A	11					0	0	12	20 A	1	SPARE
SPARE	1	20 A	13	0	0					14	20 A	1	SPARE
SPARE	1	20 A	15			0	0			16	20 A	1	SPARE
SPARE	1	20 A	17					0	0	18	20 A	1	SPARE
SPARE	1	20 A	19	0	0					20	20 A	1	SPARE
SPARE	1	20 A	21			0	0			22	20 A	1	SPARE
SPARE	1	20 A	23					0	0	24	20 A	1	SPARE
SPARE	1	20 A	25	0	0					26	20 A	1	SPARE
SPARE	1	20 A	27			0	0			28	20 A	1	SPARE
SPARE	1	20 A	29					0	0	30	20 A	1	SPARE
SPARE	1	20 A	31	0	0					32	20 A	1	SPARE
SPARE	1	20 A	33			0	0			34	20 A	1	SPARE
SPARE	1	20 A	35					0	0	36	20 A	1	SPARE
SPARE	1	20 A	37	0	0					38	20 A	1	SPARE
SPARE	1	20 A	39			0	0			40	20 A	1	SPARE
SPARE	1	20 A	41					0	0	42	20 A	1	SPARE
			43							44			
			45							46			
			47							48			
			49							50			
			51							52			
RECEPTACLE	1	20 A	53					0		54			
				0	VA	0	VA	0 \	VA				
			-	0	А	C	A	0	A				
EGEND: G" INDICATES GFCI TYPE BREAKER F" INDICATES RED LOCK-ON HASP	r, "L" IN	IDICATES F	PROVII	DE LOCI	(ABLE H	ASP							
OAD CLASSIFICATION		CONNE	CTED	LOAD	DEN	IAND FAC	TOR	ESTIMAT		IAND			PANEL TOTALS

TOTAL CONN. LOAD: 0 VA TOTAL EST. DEMAND: 0 VA TOTAL CONN.: 0 A TOTAL EST. DEMAND: 0 A NOTES:

LEGEND: G" INDICATES GFCI TYPE BREAKER F" INDICATES RED LOCK-ON HASP LOAD CLASSIFICATION	₹, "L" IN		PROVI			ASP AND FAC	FOR	ESTIMAT	ED DEM.	AND			PANE	L TOTALS
G" INDICATES GFCI TYPE BREAKER	₹, "L" IN	NDICATES	PROVI	IDE LOCI	KABLE HA	ASP								
					VA 0 A	0		0 \						
RECEPTACLE	1	20 A	53					0		54				
			51							52				
			49							50				
			47							48				
			45							46				
			43							44				
SPARE	1	20 A	41					0	0	42	20 A	1		SPARE
SPARE	1	20 A	39			0	0			40	20 A	1		SPARE
SPARE	1	20 A	37	0	0			0	0	38	20 A	1		SPARE
SPARE SPARE	1	20 A	33 35			0	0	0	0	34 36	20 A 20 A	1		SPARE
SPARE	1	20 A	31	0	0		-			32	20 A	1		SPARE
	1	20 A	29					0	0	30	20 A	1		SPARE
SPARE						-				20		'		
SPARE	1	20 A	27			0	0			28	20 A	1		SPARE

BRANCH PANEL: EB2 LOCATION: CONTOL CORRIDOR 7-69 SUPPLY FROM: EMA2 MOUNTING: SURFACE ENCLOSURE: TYPE 1

CIRCUIT DESCRIPTION

SPARE

P AMP NO

1 -- 20 A 5

1 -- 20 A 11

1 -- 20 A 15

1 -- 20 A 17

1 -- 20 A 23

1 -- 20 A 3

1 -- 20 A 9

1 -- 20 A 1 0 0

1 -- 20A 7 0 0

1 -- 20 A 13 0 0

1 -- 20 A 19 0 0

1 -- 20 A 25 0 0

Δ

1 -- 20 A 21 0 0

VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4

В

0 0

0 0

0 0

SCCR RATING: 22,000 MAINS TYPE: MLO MAINS RATING: 225 A

CIRCUIT DESCRIPTION

SPARE

CKT

4 20 A -- 1

10 20 A ---

0 0 6 20 A --

0 0 12 20 A --

0 0 18 20 A -- 1

0 0 24 20 A -- 1

С

NO AMP

2 20 A --

8 20 A --

14 20 A --

20 20 A --

16 20 A --

22 20 A --

26 20 A -- 1

NOTES:

NOTES:

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TO	TALS
LIGHTING	560 VA	125.00%	700 VA		
				TOTAL CONN. LOAD: 560	VA
				TOTAL EST. DEMAND: 700	VA
				TOTAL CONN.: 2 A	
				TOTAL EST. DEMAND: 2 A	

CIRCUIT DESCRIPTION	Р	AMP	CKT NO		Α		В			CKT NO	AMP	Р	CIRCUIT DESCRIPTION
SPARE	1	20 A	1	0	0					2	20 A	1	SPARE
SPARE	1	20 A	3			0	0			4	20 A	1	SPARE
SPARE	1	20 A	5					0	0	6	20 A	1	SPARE
SPARE	1	20 A	7	0	0					8	20 A	1	SPARE
SPARE	1	20 A	9			0	0			10	20 A	1	SPARE
SPARE	1	20 A	11					0	0	12	20 A	1	SPARE
SPARE	1	20 A	13	0	0					14	20 A	1	SPARE
SPARE	1	20 A	15			0	0			16	20 A	1	SPARE
SPARE	1	20 A	17					0	0	18	20 A	1	SPARE
SPARE	1	20 A	19	0	0					20	20 A	1	SPARE
SPARE	1	20 A	21			0	0			22	20 A	1	SPARE
SPARE	1	20 A	23					0	0	24	20 A	1	SPARE
SPARE	1	20 A	25	0	0					26	20 A	1	SPARE
SPARE	1	20 A	27			0	0			28	20 A	1	SPARE
SPARE	1	20 A	29					0	0	30	20 A	1	SPARE
SPARE	1	20 A	31	0	0					32	20 A	1	SPARE
SPARE	1	20 A	33			0	0			34	20 A	1	SPARE
SPARE	1	20 A	35					0	0	36	20 A	1	SPARE
SPARE	1	20 A	37	0	0					38	20 A	1	SPARE
SPARE	1	20 A	39			0	0			40	20 A	1	SPARE
SPARE	1	20 A	41					0	0	42	20 A	1	SPARE
LIGHTING INVERTER 'IN10'	1	20 A	43	560						44			
			45							46			
			47							48			
			49							50			
			51							52			
RECEPTACLE	1	20 A	53					0		54			
				56	0 VA	0	VA	0	/A				

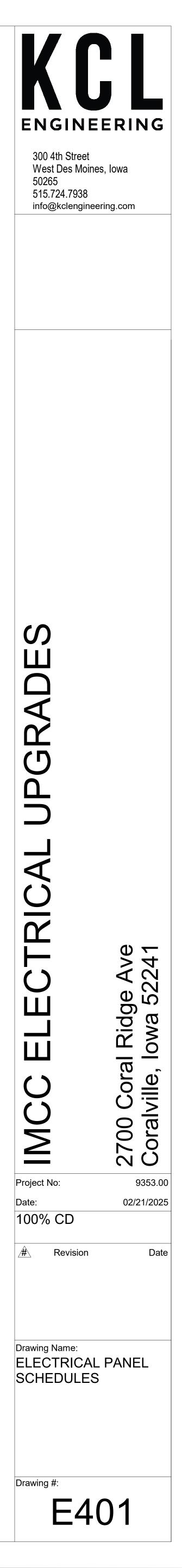
NOTES:

BRANCH PANEL: LK2 LOCATION: OBSERVATION 12-37 SUPPLY FROM: EMA2 MOUNTING: SURFACE

ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE **PHASES**: 3 WIRES: 4

SCCR RATING: 10,000 MAINS TYPE: MLO MAINS RATING: 225 A



	7,	A 7 A	0 A		
LEGEND:					
G" INDICATES GFCI TYPE BREAKE F" INDICATES RED LOCK-ON HASF	ER, "L" INDICATES PROVIDE LOCK	ABLE HASP			
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEI	L TOTALS
LIGHTING	1445 VA	125.00%	1806 VA		
				TOTAL CONN. LOAD:	1445 VA
				TOTAL EST. DEMAND:	1806 VA
				TOTAL CONN.:	4 A
				TOTAL EST. DEMAND:	5 A

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SPARE SPARE SPARE SPARE SPARE SPARE SPARE	1 1 1 1 1 1 1	 20 A 	1 3 5 7	0	0	0				2		4	
SPARE SPARE SPARE SPARE	1 1 1 1	20 A 20 A	5			0				2 ×	20 A	1	SPARE
SPARE SPARE SPARE	1 1 1	20 A					0			4	20 A	1	SPARE
SPARE SPARE	1		7					0	0	6	20 A	1	SPARE
SPARE	1	20 A		0	0					8	20 A	1	SPARE
			9			0	0			10	20 A	1	SPARE
SPARE		20 A	11					0	0	12	20 A	1	SPARE
	1	20 A	13	0	0					14	20 A	1	SPARE
SPARE	1	20 A	15			0	0			16	20 A	1	SPARE
SPARE	1	20 A	17					0	0	18	20 A	1	SPARE
SPARE	1	20 A	19	0	0					20	20 A	1	SPARE
SPARE	1	20 A	21			0	0			22	20 A	1	SPARE
SPARE	1	20 A	23					0	0	24	20 A	1	SPARE
SPARE	1	20 A	25	0	0					26	20 A	1	SPARE
SPARE	1	20 A	27			0	0			28	20 A	1	SPARE
SPARE	1	20 A	29					0	0	30	20 A	1	SPARE
SPARE	1	20 A	31	0	0					32	20 A	1	SPARE
SPARE	1	20 A	33			0	0			34	20 A	1	SPARE
SPARE	1	20 A	35					0	0	36	20 A	1	SPARE
SPARE	1	20 A	37	0	0					38	20 A	1	SPARE
SPARE	1	20 A	39			0	0			40	20 A	1	SPARE
SPARE	1	20 A	41					0	0	42	20 A	1	SPARE
LIGHTING INVERTER 'IN7'	1	20 A	43	730						44			
LIGHTING INVERTER 'IN8'	1	20 A	45			715				46			
			47							48			
			49							50			
			51							52			
RECEPTACLE	1	20 A	53					0		54			

NOTES:

BRANCH PANEL: EC2
LOCATION: 9-52
SUPPLY FROM: EMA2
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE **PHASES:** 3 WIRES: 4

SCCR RATING: 10,000 MAINS TYPE: MLO MAINS RATING: 225 A

NOTES:

LEGEND:

"G" INDICATES GFCI TYPE BREAKE "F" INDICATES RED LOCK-ON HASF	•	ABLE HASP			
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANE	L TOTALS
LIGHTING	1780 VA	125.00%	2225 VA		
				TOTAL CONN. LOAD:	1780 VA
				TOTAL EST. DEMAND:	2225 VA
				TOTAL CONN.:	5 A
				TOTAL EST. DEMAND:	6 A

CIRCUIT DESCRIPTION	Р	AMP	CKT NO		A		3		с	CKT NO	AMP	Р	CIRCUIT DESCRIPTIO
SPARE	1	20 A	1	0	0					2	20 A	1	SPARE
SPARE	1	20 A	3			0	0			4	20 A	1	SPARE
SPARE	1	20 A	5					0	0	6	20 A	1	SPARE
SPARE	1	20 A	7	0	0					8	20 A	1	SPARE
SPARE	1	20 A	9			0	0			10	20 A	1	SPARE
SPARE	1	20 A	11					0	0	12	20 A	1	SPARE
SPARE	1	20 A	13	0	0					14	20 A	1	SPARE
SPARE	1	20 A	15			0	0			16	20 A	1	SPARE
SPARE	1	20 A	17					0	0	18	20 A	1	SPARE
SPARE	1	20 A	19	0	0					20	20 A	1	SPARE
SPARE	1	20 A	21			0	0			22	20 A	1	SPARE
SPARE	1	20 A	23					0	0	24	20 A	1	SPARE
SPARE	1	20 A	25	0	0					26	20 A	1	SPARE
SPARE	1	20 A	27			0	0			28	20 A	1	SPARE
SPARE	1	20 A	29					0	0	30	20 A	1	SPARE
SPARE	1	20 A	31	0	0					32	20 A	1	SPARE
SPARE	1	20 A	33			0	0			34	20 A	1	SPARE
SPARE	1	20 A	35					0	0	36	20 A	1	SPARE
SPARE	1	20 A	37	0	0					38	20 A	1	SPARE
SPARE	1	20 A	39			0	0			40	20 A	1	SPARE
SPARE	1	20 A	41					0	0	42	20 A	1	SPARE
LIGHTING INVERTER 'IN4'	1	20 A	43	845						44			
LIGHTING INVERTER 'IN28'	1	20 A	45			935				46			
			47							48			
			49							50			
			51							52			
RECEPTACLE	1	20 A	53					0		54			
				84!	5 VA	935	VA	0	VA				

NOTES:

SUPPLY FROM: EMA2 MOUNTING: SURFACE ENCLOSURE: TYPE 1

BRANCH PANEL: SKP-2

LOCATION:

VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4

SCCR RATING: 10,000 MAINS TYPE: MLO MAINS RATING: 225 A

BRANCH PANEL: LA2

NOTES:

LOCATION: CORRIDOR 30-20 SUPPLY FROM: EMA2 MOUNTING: SURFACE

ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE **PHASES:** 3 **WIRES:** 4

SCCR RATING: 10,000 MAINS TYPE: MLO MAINS RATING: 225 A

RIPTION

CIRCUIT DESCRIPTION	P	AN	CKT P NO		Α		В		C	CKT NO	AMP	Р	CIRCUIT DESCRIPTION
SPARE	1	20	. 1	0	0					2	20 A	1	SPARE
SPARE	1	20	. 3			0	0			4	20 A	1	SPARE
SPARE	1	20	5					0	0	6	20 A	1	SPARE
SPARE	1	20	. 7	0	0					8	20 A	1	SPARE
SPARE	1	20	. 9			0	0			10	20 A	1	SPARE
SPARE	1	20	. 11					0	0	12	20 A	1	SPARE
SPARE	1	20	13	0	0					14	20 A	1	SPARE
SPARE	1	20	15			0	0			16	20 A	1	SPARE
SPARE	1	20	. 17					0	0	18	20 A	1	SPARE
SPARE	1	20	. 19	0	0					20	20 A	1	SPARE
SPARE	1	20	21			0	0			22	20 A	1	SPARE
SPARE	1	20	23					0	0	24	20 A	1	SPARE
SPARE	1	20	25	0	0					26	20 A	1	SPARE
SPARE	1	20	27			0	0			28	20 A	1	SPARE
SPARE	1	20	29					0	0	30	20 A	1	SPARE
SPARE	1	20	. 31	0	0					32	20 A	1	SPARE
SPARE	1	20	. 33			0	0			34	20 A	1	SPARE
SPARE	1	20	35					0	0	36	20 A	1	SPARE
SPARE	1	20	. 37	0	0					38	20 A	1	SPARE
SPARE	1	20	. 39			0	0			40	20 A	1	SPARE
SPARE	1	20	41					0	0	42	20 A	1	SPARE
LIGHTING INVERTER 'IN6'	1	20 /	43	470						44			
			45							46			
			47							48			
			49							50			
			51							52			
RECEPTACLE	1	20	53					0		54			
				47	0 VA	0	VA	0	VA				
				4	4 A	() A	0	А				

"G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP "F" INDICATES RED LOCK-ON HASP

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANE	L TOTALS
LIGHTING	470 VA	125.00%	588 VA		
				TOTAL CONN. LOAD:	470 VA
				TOTAL EST. DEMAND:	588 VA
				TOTAL CONN.:	1 A
				TOTAL EST. DEMAND:	2 A

BRANCH PANEL: LI2 LOCATION: C.U. 9-41 SUPPLY FROM: EMA2 MOUNTING: RECESSED ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE **PHASES**: 3 WIRES: 4

SCCR RATING: 10,000 MAINS TYPE: MLO MAINS RATING: 225 A

NOTES:

CIRCUIT DESCRIPTION	Р	AMP	CKT NO		A		3		C	CKT NO	AMP	P	CIRCUIT DESCRIPTION
SPARE	1	20 A	1	0	0					2	20 A	1	SPARE
SPARE	1	20 A	3			0	0			4	20 A	1	SPARE
SPARE	1	20 A	5					0	0	6	20 A	1	SPARE
SPARE	1	20 A	7	0	0					8	20 A	1	SPARE
SPARE	1	20 A	9			0	0			10	20 A	1	SPARE
SPARE	1	20 A	11					0	0	12	20 A	1	SPARE
SPARE	1	20 A	13	0	0					14	20 A	1	SPARE
SPARE	1	20 A	15			0	0			16	20 A	1	SPARE
SPARE	1	20 A	17					0	0	18	20 A	1	SPARE
SPARE	1	20 A	19	0	0					20	20 A	1	SPARE
SPARE	1	20 A	21			0	0			22	20 A	1	SPARE
SPARE	1	20 A	23					0	0	24	20 A	1	SPARE
SPARE	1	20 A	25	0	0					26	20 A	1	SPARE
SPARE	1	20 A	27			0	0			28	20 A	1	SPARE
SPARE	1	20 A	29					0	0	30	20 A	1	SPARE
SPARE	1	20 A	31	0	0					32	20 A	1	SPARE
SPARE	1	20 A	33			0	0			34	20 A	1	SPARE
SPARE	1	20 A	35					0	0	36	20 A	1	SPARE
SPARE	1	20 A	37	0	0					38	20 A	1	SPARE
			39							40			
RECEPTACLE	1	20 A	41					0		42			

LEGEND:

"G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS				
				TOTAL CONN. LOAD:	0 VA			
				TOTAL EST. DEMAND:	0 VA			
				TOTAL CONN.:	0 A			
				TOTAL EST. DEMAND:	0 A			

0 A 0 A

0 A

NOTES:

NOTES:

LEGEND:						
"G" INDICATES GFCI TYPE BREAKER, "L" IN "F" INDICATES RED LOCK-ON HASP	IDICATES PROVIDE LOCK	ABLE HASP				
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANE	L TOTALS	
LIGHTING	1200 VA	125.00%	1500 VA			
				TOTAL CONN. LOAD:	1200 VA	
				TOTAL EST. DEMAND:	1500 VA	
				TOTAL CONN.:	3 A	
				TOTAL EST. DEMAND:	4 A	

CIRCUIT DESCRIPTION	Р		AMP	CKT NO		Α		В		С	CKT NO	AMP	F	CIRCUIT DESCRIPTION
SPARE	1		20 A	1	0	0					2	20 A ·	- 1	SPARE
SPARE	1		20 A	3			0	0			4	20 A ·	- 1	SPARE
SPARE	1		20 A	5					0	0	6	20 A ·	- 1	SPARE
SPARE	1		20 A	7	0	0					8	20 A ·	- 1	SPARE
SPARE	1		20 A	9			0	0			10	20 A ·	- 1	SPARE
SPARE	1		20 A	11					0	0	12	20 A ·	- 1	SPARE
SPARE	1		20 A	13	0	0					14	20 A ·	- 1	SPARE
SPARE	1		20 A	15			0	0			16	20 A ·	- 1	SPARE
SPARE	1		20 A	17					0	0	18	20 A ·	- 1	SPARE
SPARE	1		20 A	19	0	0					20	20 A ·	- 1	SPARE
SPARE	1		20 A	21			0	0			22	20 A ·	- 1	SPARE
SPARE	1		20 A	23					0	0	24	20 A ·	- 1	SPARE
SPARE	1		20 A	25	0	0					26	20 A ·	- 1	SPARE
SPARE	1		20 A	27			0	0			28	20 A ·	- 1	SPARE
SPARE	1		20 A	29					0	0	30	20 A ·	- 1	SPARE
SPARE	1		20 A	31	0	0					32	20 A ·	- 1	SPARE
SPARE	1		20 A	33			0	0			34	20 A ·	- 1	SPARE
SPARE	1		20 A	35					0	0	36	20 A ·	- 1	SPARE
SPARE	1		20 A	37	0	0					38	20 A ·	- 1	SPARE
LIGHTING INVERTER 'IN26'	1		20 A	39			555	645			40	20 A	1	LIGHTING INVERTER 'IN25'
RECEPTACLE	1		20 A	41					0		42			
	·	-			0	VA	120	0 VA	0	VA			·	
				L	() A	1() A		A				

NOTES:

BRANCH PANEL:	N1C
LOCATION:	ELECTRCAL 51-103
SUPPLY FROM:	NDPB
MOUNTING:	SURFACE
ENCLOSURE:	TYPE 1

VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4

SCCR RATING: 22,000 MAINS TYPE: MLO MAINS RATING: 100 A

NOTES:

"G" INDICATES GFCI TYPE BREAKE "F" INDICATES RED LOCK-ON HASF		ABLE HASP			
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANE	L TOTALS
LIGHTING	864 VA	125.00%	1080 VA		
				TOTAL CONN. LOAD:	864 VA
				TOTAL EST. DEMAND:	1080 VA
				TOTAL CONN.:	2 A
				TOTAL EST. DEMAND:	3 A

LEGEND:		
"G" INDICATES GFCI TYPE BREAKER.	"L" INDICATES PROVIDE LOCKABLE HASP	

CIRCUIT DESCRIPTION	Р	AMP	CKT NO		A		в		C	CKT NO	AMP	Р	CIRCUIT DESCRIPTION
SPARE	1	20 A	1	0	0					2	20 A	1	SPARE
SPARE	1	20 A	3			0	0			4	20 A	1	SPARE
SPARE	1	20 A	5					0	0	6	20 A	1	SPARE
SPARE	1	20 A	7	0	0					8	20 A	1	SPARE
SPARE	1	20 A	9			0	0			10	20 A	1	SPARE
SPARE	1	20 A	11					0	0	12	20 A	1	SPARE
SPARE	1	20 A	13	0	0					14	20 A	1	SPARE
SPARE	1	20 A	15			0	0			16	20 A	1	SPARE
SPARE	1	20 A	17					0	0	18	20 A	1	SPARE
SPARE	1	20 A	19	0	0					20	20 A	1	SPARE
SPARE	1	20 A	21			0	0			22	20 A	1	SPARE
SPARE	1	20 A	23					0	0	24	20 A	1	SPARE
SPARE	1	20 A	25	0	0					26	20 A	1	SPARE
SPARE	1	20 A	27			0	0			28	20 A	1	SPARE
SPARE	1	20 A	29					0	0	30	20 A	1	SPARE
SPARE	1	20 A	31	0	0					32	20 A	1	SPARE
SPARE	1	20 A	33			0	0			34	20 A	1	SPARE
SPARE	1	20 A	35					0	0	36	20 A	1	SPARE
SPARE	1	20 A	37	0	0					38	20 A	1	SPARE
SPARE	1	20 A	39			0	0			40	20 A	1	SPARE
SPARE	1	20 A	41					0	0	42	20 A	1	SPARE
LIGHTING INVERTER 'IN5'	1	20 A	43	864						44			
			45							46			
			47							48			
			49							50			
			51							52			
RECEPTACLE	1	20 A	53					0		54			
	1			86	4 VA	0	VA	0	VA				·

NOTES:

LOCATION: WAITING 7-26 SUPPLY FROM: US-1 MOUNTING: SURFACE ENCLOSURE: TYPE 1

BRANCH PANEL: LC2

VOLTAGE: 120/208 WYE **PHASES:** 3 **WIRES:** 4

SCCR RATING: 22,000 MAINS TYPE: MLO MAINS RATING: 225 A



LOAD CLASSIFICATION LIGHTING NOTES:

SPARE SPARE 1 -- 20 A 11 0 0 12 20 A --SPARE 1 -- 20 A 13 0 0 14 20 A -- 1 SPARE 16 20 A --SPARE SPARE 1 -- 20 A 15 0 0 SPARE 1 -- 20 A 17 0 0 18 20 A -- 1 SPARE SPARE 1 -- 20 A 19 0 0 20 20 A -- 1 SPARE 1 -- 20 A 21 22 20 A --SPARE SPARE 0 0 SPARE 1 -- 20 A 23 0 0 24 20 A -- 1 SPARE 1 -- 20 A 25 0 0 SPARE 26 20 A -- 1 SPARE 1 -- 20 A 27 SPARE 0 0 28 20 A --SPARE SPARE 1 -- 20 A 29 0 0 30 20 A -- 1 SPARE SPARE 1 -- 20 A 31 0 0 32 20 A -- 1 SPARE SPARE 1 -- 20 A 33 0 0 34 20 A --SPARE 0 | 0 | 36 | 20 A -- | 1 | SPARE 1 -- 20 A 35 SPARE SPARE 1 -- 20 A 37 0 0 SPARE 38 | 20 A -- | 1 | LIGHTING INVERTER 'IN12' 1 20 A 39 690 40 RECEPTACLE 1 -- 20 A 41 0 42 0 VA 690 VA 0 VA 0 A 6 A 0 A LEGEND: "G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP "F" INDICATES RED LOCK-ON HASP CONNECTED LOAD DEMAND FACTOR ESTIMATED DEMAND PANEL TOTALS 690 VA 125.00% 863 VA TOTAL CONN. LOAD: 690 VA

CIRCUIT DESCRIPTION

SPARE

SPARE

SPARE

SPARE

SPARE

NOTES:

BRANCH PANEL:	NL-W2
LOCATION:	JAN 174
SUPPLY FROM:	NDP2
MOUNTING:	SURFACE
ENCLOSURE:	TYPE 1

CKT

1 -- 20 A 1 0 0

1 -- 20 A 7 0 0

Δ

AMP NO

1 -- 20 A 3

1 -- 20 A 9

1 -- 20 A 5

P

VOLTAGE: 120/208 WYE **PHASES:** 3 **WIRES:** 4

В

0 0

0 0

SCCR RATING: 10,000 MAINS TYPE: MLO MAINS RATING: 225 A

P

TOTAL EST. DEMAND: 863 VA

TOTAL EST. DEMAND: 2 A

TOTAL CONN.: 2 A

CIRCUIT DESCRIPTION

SPARE

SPARE

SPARE

SPARE

SPARE

СКТ

0 0 6 20 A -- 1

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С

NO AMP

2 20 A --

4 20 A -- 1

8 20 A -- 1

10 20 A -- 1

"F" INDICATES RED LOCK-ON HASP		
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR
LIGHTING	605 VA	125.00%

SPARE	1		20 A	23					0	0	24	20 A	1	SPARE
SPARE	1		20 A	25	0	0					26	20 A	1	SPARE
SPARE	1		20 A	27			0	0			28	20 A	1	SPARE
SPARE	1		20 A	29					0	0	30	20 A	1	SPARE
SPARE	1		20 A	31	0	0					32	20 A	1	SPARE
SPARE	1		20 A	33			0	0			34	20 A	1	SPARE
SPARE	1		20 A	35					0	0	36	20 A	1	SPARE
SPARE	1		20 A	37	0	0					38	20 A	1	SPARE
LIGHTING INVERTER 'IN15'	1		20 A	39			605				40			
RECEPTACLE	1		20 A	41					0		42			
					0	VA	605	5 VA	0 \	/A				
					C) A	5	A	0	A	1			
LEGEND:														
"G" INDICATES GFCI TYPE BREAKER, "L "F" INDICATES RED LOCK-ON HASP	." IN	IDIC	CATES F	PROVI	DE LOCI	KABLE HA	NSP							

NOTES:

BRANCH PANEL: NL-E2 LOCATION: JANITOR 144 SUPPLY FROM: NDP2 MOUNTING: SURFACE ENCLOSURE: TYPE 1

CIRCUIT DESCRIPTION

SPARE

P AMP NO

1 -- 20 A 3

1 -- 20 A 5

1 -- 20 A 9

1 -- 20 A 11

1 -- 20 A 15

1 -- 20 A 21

1 -- 20 A 1 0 0

1 -- 20 A 7 0 0

1 -- 20 A 13 0 0

1 -- 20 A | 19 | 0 | 0

1 -- 20 A 17

Α

VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4

В

0 0

0 0

0 0

0 0

SCCR RATING: 22,000 MAINS TYPE: MLO MAINS RATING: 225 A

CIRCUIT DESCRIPTION

SPARE

PANEL TOTALS

TOTAL CONN. LOAD: 605 VA

TOTAL CONN.: 2 A

TOTAL EST. DEMAND: 756 VA

TOTAL EST. DEMAND: 2 A

CKT NO AMP

0 0 6 20A --

0 0 12 20 A --

0 0 18 20 A -- 1

2 20 A --

4 20 A -- 1

8 20 A -- 1

10 20 A -- 1

14 20 A -- 1

16 20 A -- 1

20 20 A -- 1

22 20 A -- 1

С

ESTIMATED DEMAND

756 VA

BRANCH PANEL: NL-N2 LOCATION: JANITOR 136 SUPPLY FROM: NDP2 MOUNTING: SURFACE ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4

SCCR RATING: 10,000 MAINS TYPE: MLO MAINS RATING: 225 A

NOTES:

CIRCUIT DESCRIPTION	Р	AMP	CKT NO		A		В		С	CKT NO	AMP	Р	CIRCUIT DESCRIPTION
SPARE	1	20 A	1	0	0	•				2	20 A	1	SPARE
SPARE	1	20 A	3	0	Ŭ	0	0			4	20 A	1	SPARE
						0	0						
SPARE	1	20 A	5					0	0	6	20 A	1	SPARE
SPARE	1	20 A	7	0	0					8	20 A	1	SPARE
SPARE	1	20 A	9			0	0			10	20 A	1	SPARE
SPARE	1	20 A	11					0	0	12	20 A	1	SPARE
SPARE	1	20 A	13	0	0					14	20 A	1	SPARE
SPARE	1	20 A	15			0	0			16	20 A	1	SPARE
SPARE	1	20 A	17					0	0	18	20 A	1	SPARE
SPARE	1	20 A	19	0	0					20	20 A	1	SPARE
SPARE	1	20 A	21			0	0			22	20 A	1	SPARE
SPARE	1	20 A	23					0	0	24	20 A	1	SPARE
SPARE	1	20 A	25	0	0					26	20 A	1	SPARE
SPARE	1	20 A	27			0	0			28	20 A	1	SPARE
SPARE	1	20 A	29					0	0	30	20 A	1	SPARE
SPARE	1	20 A	31	0	0					32	20 A	1	SPARE
SPARE	1	20 A	33			0	0			34	20 A	1	SPARE
SPARE	1	20 A	35					0	0	36	20 A	1	SPARE
SPARE	1	20 A	37	0	0					38	20 A	1	SPARE
LIGHTING INVERTER 'IN14'	1	20 A	39			605				40			
RECEPTACLE	1	20 A	41					0		42			
				0	VA	605	5 VA	0	VA				
				() A	5	A		A	_			

LEGEND:

"G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP "F" INDICATES RED LOCK-ON HASP

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANE	L TOTALS
LIGHTING	605 VA	125.00%	756 VA		
				TOTAL CONN. LOAD:	605 VA
				TOTAL EST. DEMAND:	756 VA
				TOTAL CONN.:	2 A
				TOTAL EST. DEMAND:	2 A

BRANCH PANEL: EL-E2 LOCATION: SORTING 30-30 SUPPLY FROM: NDP2 MOUNTING: SURFACE ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE PHASES: 3 **WIRES:** 4

SCCR RATING: 10,000 MAINS TYPE: MLO MAINS RATING: 100 A

NOTES

CIRCUIT DESCRIPTION	Р	AMP	CKT NO		A		В		C	CKT NO	AMP	P	CIRCUIT DESCRIPTION
SPARE	1	 20 A	1	0	0					2	20 A	1	SPARE
SPARE	1	 20 A	3			0	0			4	20 A	1	SPARE
SPARE	1	 20 A	5					0	0	6	20 A	1	SPARE
SPARE	1	 20 A	7	0	0					8	20 A	1	SPARE
SPARE	1	 20 A	9			0	0			10	20 A	1	SPARE
SPARE	1	 20 A	11					0	0	12	20 A	1	SPARE
SPARE	1	 20 A	13	0	0					14	20 A	1	SPARE
SPARE	1	 20 A	15			0	0			16	20 A	1	SPARE
SPARE	1	 20 A	17					0	0	18	20 A	1	SPARE
SPARE	1	 20 A	19	0	0					20	20 A	1	SPARE
SPARE	1	 20 A	21			0	0			22	20 A	1	SPARE
SPARE	1	 20 A	23					0	0	24	20 A	1	SPARE
SPARE	1	 20 A	25	0	0					26	20 A	1	SPARE
SPARE	1	 20 A	27			0	0			28	20 A	1	SPARE
SPARE	1	 20 A	29					0	0	30	20 A	1	SPARE
SPARE	1	 20 A	31	0	0					32	20 A	1	SPARE
SPARE	1	 20 A	33			0	0			34	20 A	1	SPARE
SPARE	1	 20 A	35					0	0	36	20 A	1	SPARE
SPARE	1	 20 A	37	0	0					38	20 A	1	SPARE
			39							40			
RECEPTACLE	1	 20 A	41					0		42			
		 		C	VA	0	VA	0 '	VA				
					0 A	0	A	0	A				

"G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANE		
				TOTAL CONN. LOAD:	0 VA	
				TOTAL EST. DEMAND:	0 VA	
				TOTAL CONN.:	0 A	
				TOTAL EST. DEMAND:	0 A	

BRANCH PANEL: NL-S3 LOCATION: CLERICAL 158 SUPPLY FROM: NDP2 MOUNTING: SURFACE ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE PHASES: 3 **WIRES**: 4

SCCR RATING: 22,000 MAINS TYPE: MLO MAINS RATING: 225 A

CIRCUIT DESCRIPTION	P AMP	CKT NO		A		в		с	CKT NO	AMP	F	5	CIRCUIT DESCRIPTION
SPARE	1 20 A	1	0	0					2	20 A	1		SPARE
SPARE	1 20 A	3			0	0			4	20 A	1		SPARE
SPARE	1 20 A	5					0	0	6	20 A	1		SPARE
SPARE	1 20 A	7	0	0					8	20 A	1		SPARE
SPARE	1 20 A	9			0	0			10	20 A	1		SPARE
SPARE	1 20 A	11					0	0	12	20 A	1		SPARE
SPARE	1 20 A	13	0	0					14	20 A	1		SPARE
SPARE	1 20 A	15			0	0			16	20 A	1		SPARE
SPARE	1 20 A	17					0	0	18	20 A	1		SPARE
SPARE	1 20 A	19	0	0					20	20 A	1		SPARE
SPARE	1 20 A	21			0	0			22	20 A	1		SPARE
SPARE	1 20 A	23					0	0	24	20 A	1		SPARE
SPARE	1 20 A	25	0	0					26	20 A	1		SPARE
SPARE	1 20 A	27			0	0			28	20 A	1		SPARE
SPARE	1 20 A	29					0	0	30	20 A	1		SPARE
SPARE	1 20 A	31	0	0					32	20 A	1		SPARE
SPARE	1 20 A	33			0	0			34	20 A	1		SPARE
SPARE	1 20 A	35					0	0	36	20 A	1		SPARE
SPARE	1 20 A	37	0	0					38	20 A	1		SPARE
		39							40				
RECEPTACLE	1 20 A	41					0		42				
			() VA	0	VA	0	VA					

LEGEND:

NOTES:

"G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP "F" INDICATES RED LOCK-ON HASP

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANE	_ TOTALS		
				TOTAL CONN. LOAD:	0 VA		
				TOTAL EST. DEMAND:	0 VA		
				TOTAL CONN.:	0 A		
				TOTAL EST. DEMAND:	0 A		

		TOTAL CONN. LOAD:	0 VA
		TOTAL EST. DEMAND:	0 VA
		TOTAL CONN.:	0 A
		TOTAL EST. DEMAND:	0 A
NOTES:			

BRANCH PANEL: EL-N2
LOCATION: CONTROL ROOM CD1
SUPPLY FROM: NDP2
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE **PHASES:** 3 **WIRES:** 4

SCCR RATING: 10,000 MAINS TYPE: MLO MAINS RATING: 100 A

NOTES:

CIRCUIT DESCRIPTION	Р	AMP	CKT NO		A		В	C	2	CKT NO	AMP	P	CIRCUIT DESCRIPTION
SPARE	1	20 A	1	0	0					2	20 A -	- 1	SPARE
SPARE	1	20 A	3			0	0			4	20 A -	- 1	SPARE
SPARE	1	20 A	5					0	0	6	20 A	- 1	SPARE
SPARE	1	20 A	7	0	0					8	20 A	- 1	SPARE
SPARE	1	20 A	9			0	0			10	20 A -	- 1	SPARE
SPARE	1	20 A	11					0	0	12	20 A	- 1	SPARE
SPARE	1	20 A	13	0	0					14	20 A	- 1	SPARE
SPARE	1	20 A	15			0	0			16	20 A	- 1	SPARE
SPARE	1	20 A	17					0	0	18	20 A	- 1	SPARE
SPARE	1	20 A	19	0	0					20	20 A -	- 1	SPARE
SPARE	1	20 A	21			0	0			22	20 A -	- 1	SPARE
SPARE	1	20 A	23					0	0	24	20 A	- 1	SPARE
SPARE	1	20 A	25	0	0					26	20 A	- 1	SPARE
SPARE	1	20 A	27			0	0			28	20 A	- 1	SPARE
SPARE	1	20 A	29					0	0	30	20 A -	- 1	SPARE
SPARE	1	20 A	31	0	0					32	20 A -	- 1	SPARE
SPARE	1	20 A	33			0	0			34	20 A	- 1	SPARE
SPARE	1	20 A	35					0	0	36	20 A	- 1	SPARE
SPARE	1	20 A	37	0	0					38	20 A	- 1	SPARE
			39							40			
RECEPTACLE	1	20 A	41					0		42			
				0	VA	0	VA	0 \	/A				

LEGEND:

"G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP "F" INDICATES RED LOCK-ON HASP

CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANE	L TOTALS	
			TOTAL CONN. LOAD:	0 VA	
			TOTAL EST. DEMAND:	0 VA	
			TOTAL CONN.:	0 A	
			TOTAL EST. DEMAND:	0 A	
				Contracted code Demand Proton Contracted Demand Image: Contracted code TOTAL CONN. LOAD: TOTAL EST. DEMAND: TOTAL EST. DEMAND: TOTAL CONN.: TOTAL EST. DEMAND: Image: Contracted code TOTAL EST. DEMAND:	

NOTES:



BRANCH PANEL: EJ LOCATION: GREENHOUSE

VOLTAGE: 120/208 SINGLE

SCCR RATING: 10,000

		-				PHASES:		•				YPE: MCB				
SUPPLY FROM: E																
MOUNTING: S						WIRES:	3					FING: 100 A				
ENCLOSURE: T	YPE 3R								MCB RATING: 60 A							
:S: ALLED IN GREENHOUSE, LOAD C TING. VERIFY VERBIAGE AND BR								Main Bre	AKER W	/ITH FEEDEF	R FRO	M EL1(A), LOADS SHOWN ON PAN				
CIRCUIT DESCRIPTION	Р		AMP	CKT NO		4		3	CKT NO	AMP	Р	CIRCUIT DESCRIPTION				
WEST OUTLETS (GFCI)	1		20 A	1	0	0			2	20 A	1	EAST OUTLETS (GFCI)				
				3			0	0	4	4 20 A		EXIT LIGHTS				
WATER HEATER	2		20 A	5	0	0			6	20 A	1	FLOOD LIGHTS				
SPARE	1		20 A	7			0	0	8	20 A	1	CIRCULATING FANS				
VENT WINDOW	1		20 A	9	0	0			10	40.4						
24V AC POWER	1		20 A	11			0	0	12	40 A	2	WATER HEATER				
LTS PANEL POWER	1		20 A	13	0	0			14	00.4						
FAN JET MOTOR	1		20 A	15			0	0	16	20 A	2	EXHAUST FAN 1				
FAN JET LOUVER	1		20 A	17	0	0			18	20.4	_					
LOUVER #2 & 3	1		20 A	19			0	0	20	20 A	2	EXHAUST FAN 2 EAST				
COOLING SUMP PUMP	1		20 A	21	0	0			22	20 A	2					
HEATER FANS	1		20 A	23			0	0	24	20 A	2	EXHAUST FAN 3 WEST				
OUTSIDE CAMERA	1		20 A	25	0	0			26	20 A	1	SPARE				
TANK HEATER (GFCI)	1		20 A	27			0	0	28	20 A	1	CORD REEL				
SHADE SYSTEM	1		20 A	29	0	0			30	20 A	1	OFFICE LIGHTS AND OUTLETS				
SPARE	1		20 A	31			0	0	32	20 A	1	SPARE (GFCI)				
SPARE	1		20 A	33	0	0			34	20 A	1	SPARE (GFCI)				
SPARE	1		20 A	35			0	0	36	20 A	1	SPARE (GFCI)				
SPARE	1		20 A	37	0	0			38	20 A	1	SPARE (GFCI)				
SPARE	1		20 A	39			0	0	40	20 A	1	SPARE (GFCI)				
SPARE	1		20 A	41	0	0			42	20 A	1	SPARE (GFCI)				
					0	VA	0	VA								
				_	0	A	0	A								

LEGEND:

"G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP "F" INDICATES RED LOCK-ON HASP

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANE	L TOTAL
				TOTAL CONN. LOAD:	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A
NOTES:					

BRANCH PANEL:	R
LOCATION:	MECH D12
SUPPLY FROM:	NDPA
MOUNTING:	SURFACE

LOCATION: SUPPLY FROM: MOUNTING: ENCLOSURE:	NDPA SURFAC					OLTAGE: PHASES: WIRES:	3	8 WYE			MAIN	S TYI	NG: 10,000 PE: MLO NG: 225 A	
DTES:														
CIRCUIT DESCRIPTION	Р	AMP	CKT NO		A		В	(CKT NO	AMP	Р	CIRCUIT DESCRIPTION	
SPARE	1	20 A	1	0	0					2	20 A	1	SPARE	
SPARE	1	20 A	3			0	0			4	20 A	1	SPARE	
SPARE	1	20 A	5					0	0	6	20 A	1	SPARE	
SPARE	1	20 A	7	0	0					8	20 A	1	SPARE	
SPARE	1	20 A	9			0	0			10	20 A	1	SPARE	
SPARE	1	20 A	11					0	0	12	20 A	1	SPARE	
SPARE	1	20 A	13	0	0					14	20 A	1	SPARE	
SPARE	1	20 A	15			0	0			16	20 A	1	SPARE	
SPARE	1	20 A	17					0	0	18	20 A	1	SPARE	
SPARE	1	20 A	19	0	0					20	20 A	1	SPARE	
SPARE	1	20 A	21			0	0			22	20 A	1	SPARE	
SPARE	1	20 A	23					0	0	24	20 A	1	SPARE	
SPARE	1	20 A	25	0	0					26	20 A	1	SPARE	
SPARE	1	20 A	27			0	0			28	20 A	1	SPARE	
SPARE	1	20 A	29					0	0	30	20 A	1	SPARE	
SPARE	1	20 A	31	0	0					32	20 A	1	SPARE	
SPARE	1	20 A	33			0	0			34	20 A	1	SPARE	
SPARE	1	20 A	35					0	0	36	20 A	1	SPARE	
LIGHTING	1	20 A	37	865						38				
			39							40				
RECEPTACLE	1	20 A	41					0		42				
				86	5 VA	0	VA	0	VA					
					7 A	0	А	0	A					
EGEND: " INDICATES GFCI TYPE BREAKEF " INDICATES RED LOCK-ON HASP	r, "L" in	IDICATES I	PROVI	DE LOC	KABLE H	ASP								
OAD CLASSIFICATION		CONNE	CTED	LOAD	DEN		TOR	ESTIMAT		ND			PANEL TOTALS	
IGHTING		8	65 VA			125.00%		10	081 VA					
													NN. LOAD: 865 VA	
											TOTAL		DEMAND: 1081 VA	
											TOTAL CONN.: 2 A TOTAL EST. DEMAND: 3 A			

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANE	L TOTA
LIGHTING	865 VA	125.00%	1081 VA		
				TOTAL CONN. LOAD:	865 VA
				TOTAL EST. DEMAND:	1081 V
				TOTAL CONN.:	2 A
				TOTAL EST. DEMAND:	3 A
NOTES:		•			

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TALS ._____

					скт							СКТ				
CIRCUIT DESCRIPTION	P		AMP	NO		Α		В		C	NO	AMP		Ρ	CIRCUIT DESCRIPT	
SPARE	1	3	20 A	1	0	0					2	20 A		1	SPARE	
SPARE	1	:	20 A	3			0	0			4	20 A		1	SPARE	
SPARE	1	:	20 A	5					0	0	6	20 A		1	SPARE	
SPARE	1	:	20 A	7	0	0					8	20 A		1	SPARE	
SPARE	1	3	20 A	9			0	0			10	20 A		1	SPARE	
SPARE	1	:	20 A	11					0	0	12	20 A		1	SPARE	
SPARE	1	:	20 A	13	0	0					14	20 A		1	SPARE	
SPARE	1	:	20 A	15			0	0			16	20 A		1	SPARE	
SPARE	1	:	20 A	17					0	0	18	20 A		1	SPARE	
SPARE	1	:	20 A	19	0	0					20	20 A		1	SPARE	
SPARE	1	:	20 A	21			0	0			22	20 A		1	SPARE	
SPARE	1	:	20 A	23					0	0	24	20 A		1	SPARE	
SPARE	1	:	20 A	25	0	0					26	20 A		1	SPARE	
00405			00 A	27			0	0			28	20 A		1	SPARE	
SPARE	2	:	30 A	29					0	0	30	20 A		1	SPARE	
00405				31	0	0					32	20 A		1	SPARE	
SPARE	2	:	20 A	33			0	0			34	20 A		1	SPARE	
SPARE	1	:	20 A	35					0	0	36					
SPARE	1	:	20 A	37	0	0					38	20 A		3	SPARE	
IN1	1		20 A	39			495	0			40					
RECEPTACLE	1	:	20 A	41					0	540	42	20 A		1	IN2	
	I				0	VA	495	5 VA	540) VA		1				
				I	C	A	5	A	5	А	_					
E ND: IDICATES GFCI TYPE BREAKER, DICATES RED LOCK-ON HASP	, "L" IN	IDICA	ATES F	PROVI	DE LOCI	KABLE HA	ASP									
CLASSIFICATION		CC	ONNE	CTED	LOAD	DEM	AND FAC	TOR	ESTIMA		IAND	D PANEL TOTALS				
TING			10)35 VA			125.00%		11	294 VA						

1035 VA	125.00%	1294 VA		
		1201 011		
			TOTAL CONN. LOAD:	1035 VA
			TOTAL EST. DEMAND:	1294 VA
			TOTAL CONN.:	3 A
			TOTAL EST. DEMAND:	4 A
_				TOTAL EST. DEMAND: TOTAL CONN.: TOTAL CONN.: TOTAL EST. DEMAND:

BRANCH PANEL: EL-W2 LOCATION: CONTROL RM AB1 SUPPLY FROM: NDP2 MOUNTING: SURFACE

VOLTAGE: 120/208 WYE **PHASES:** 3 WIRES: 4

SCCR RATING: 10,000 MAINS TYPE: MLO MAINS RATING: 100 A

ENCLOSURE: TYPE 1

NOTES:

CIRCUIT DESCRIPTION	Р	AMP	CKT NO		A	E	3		с	CKT NO	AMP	Р	CIRCUIT DESCRIPTION
SPARE	1	20 A	1	0	0					2	20 A	1	SPARE
SPARE	1	20 A	3			0	0			4	20 A	1	SPARE
SPARE	1	20 A	5					0	0	6	20 A	1	SPARE
SPARE	1	20 A	7	0	0					8	20 A	1	SPARE
SPARE	1	20 A	9			0	0			10	20 A	1	SPARE
SPARE	1	20 A	11					0	0	12	20 A	1	SPARE
SPARE	1	20 A	13	0	0					14	20 A	1	SPARE
SPARE	1	20 A	15			0	0			16	20 A	1	SPARE
SPARE	1	20 A	17					0	0	18	20 A	1	SPARE
SPARE	1	20 A	19	0	0					20	20 A	1	SPARE
SPARE	1	20 A	21			0	0			22	20 A	1	SPARE
SPARE	1	20 A	23					0	0	24	20 A	1	SPARE
SPARE	1	20 A	25	0	0					26	20 A	1	SPARE
SPARE	1	20 A	27			0	0			28	20 A	1	SPARE
SPARE	1	20 A	29					0	0	30	20 A	1	SPARE
SPARE	1	20 A	31	0	0					32	20 A	1	SPARE
SPARE	1	20 A	33			0	0			34	20 A	1	SPARE
SPARE	1	20 A	35					0	0	36	20 A	1	SPARE
SPARE	1	20 A	37	0	0					38	20 A	1	SPARE
LIGHTING INVERTER 'IN13'	1	20 A	39			560				40			
RECEPTACLE	1	20 A	41					0		42			
	560	VA	0	VA									
			I	0	А	5	A	0	A	-			

LEGEND: "G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP

OAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL	TOTALS
LIGHTING	560 VA	125.00%	700 VA		
				TOTAL CONN. LOAD: 5	560 VA
				TOTAL EST. DEMAND: 7	700 VA
				TOTAL CONN.: 2	2 A
				TOTAL EST. DEMAND: 2	2 A
NOTES:	1		-	L	

BRANCH PANEL: LM2 SUPPLY FROM: US-1

ENCLOSURE: TYPE 1

LOCATION: ELECTRIC EQUIP. 5-8 MOUNTING: SURFACE

VOLTAGE: 120/208 WYE PHASES: 3

WIRES: 4

SCCR RATING: 22,000 MAINS TYPE: MLO MAINS RATING: 225 A

BRANCH PANEL: ST LOCATION: PUMPHOUSE SUPPLY FROM: ST

MOUNTING: SURFACE ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4

SCCR RATING: 10,000 MAINS TYPE: MCB MAINS RATING: 100 A MCB RATING: 100 A

NOTES: INTEGRAL SPD, STORAGE SHED BUILDING PANEL

CIRCUIT DESCRIPTION	Р	AMP	CKT NO		A	E	3	C	;	CKT NO	AMP	Р	CIRCUIT DESCRIPTION
SPARE (GFCI)	1	 20 A	1	0	0					2	20 A	1	SPARE (GFCI)
SPARE (GFCI)	1	 20 A	3			0	0			4	4 20 A 1		SPARE (GFCI)
SPARE (GFCI)	1	 20 A	5					0	0	6	20 A	1	SPARE (GFCI)
SPARE (GFCI)	1	 20 A	7	0	0					8	20 A	1	SPARE (GFCI)
SPARE (GFCI)	1	 20 A	9			0	0			10	20 A	1	SPARE (GFCI)
SPARE (GFCI)	1	 20 A	11					0	0	12	20 A	1	SPARE (GFCI)
SPARE (GFCI)	1	 20 A	13	0	0					14	20 A	1	SPARE
SPARE (GFCI)	1	 20 A	15			0	0			16	20 A	1	SPARE
SPARE (GFCI)	1	 20 A	17					0	0	18	20 A	1	SPARE
SPARE (GFCI)	1	 20 A	19	0	0					20	20 A	1	SPARE
SPARE (GFCI)	1	 20 A	21			0	0			22	00.4		
SPARE (GFCI)	1	 20 A	23					0	0	24	20 A	2	SPARE
			25							26			
			27							28			
RECEPTACLE (GFCI)	1	 20 A	29					0		30			
		-		0	VA	0	VA	0 \	/A				
			L	C	A	0	A	0	A				

LEGEND:

"G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP "F" INDICATES RED LOCK-ON HASP

OAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TO	TALS
				TOTAL CONN. LOAD: 0 V	A
				TOTAL EST. DEMAND: 0 V	A
				TOTAL CONN.: 0 A	
				TOTAL EST. DEMAND: 0 A	
NOTES:					



	LOCATION: SUPPLY FROM: MOUNTING: ENCLOSURE:	SURFACE	VOLTAGE: 120/20 PHASES: 3 WIRES: 4	8 WYE		CCR RATING MAINS TYPE AINS RATING	: MLO
NOTES:							
СКТ					TRIP RATING	Lood	REMARKS
1	LK2	RCUIT DESCRIPTION	3	400 A	225 A	Load 560 VA	REIVIARNO
2	LL2		3	400 A 400 A	225 A 225 A	820 VA	
3	LD2		3	400 A 400 A	225 A	0 VA	
4	SKP-2		3	400 A	225 A	1780 VA	
5	EB2		3	400 A	225 A	0 VA	
6	EC2		3	400 A	225 A	1445 VA	
7	LI2		3	400 A	225 A	0 VA	
8	LA2		3	400 A	225 A	470 VA	
9	SPARE		1	400 A	225 A	0 VA	
10	SPARE		1	400 A	225 A	0 VA	
11	SPACE		1				
12	SPACE		1				
13	SPACE		1				
14	SPACE		1				
				TOTAL	CONN. LOAD:	5075 VA	
					TOTAL AMPS:	14 A	
EGEND	ASSIFICATION		DEMAND FACTOR	ESTIMATE	Đ		PANEL TOTALS
LIGHTING		5075 VA	125.00%	6344 VA			
						TOTAL CONN	I. LOAD: 5075 VA
							EMAND: 6344 VA
							. CONN.: 14 A
					Т		EMAND: 18 A

1	CIRCUIT DESCRIPTION		# OF POLES	FRAME SIZE	TRIP RATING	Load	REMARI	ĸs
1	NL-S3		3	400 A	225 A	0 VA		
2	NL-E2		3	400 A	225 A	605 VA		
3	EL-E2		3	200 A	100 A	0 VA		
4	NL-N2		3	400 A	225 A	605 VA		
5	EL-N2		3	200 A	100 A	0 VA		
6	EL-W2		3	200 A	100 A	560 VA		
7	NL-W2		3	400 A	225 A	690 VA		
8	SPARE		1	400 A	250 A	0 VA		
9	SPARE		1	400 A	250 A	0 VA		
10	SPARE		1	200 A	150 A	0 VA		
11	SPARE		1	200 A	100 A	0 VA		
12	SPARE		1	200 A	100 A	0 VA		
13	SPACE		1					
14	SPACE		1					
					CONN. LOAD:	2460 VA		
					TOTAL AMPS:	7 A		
EGEND:					TOTAL AMPS:	7 A		
	ASSIFICATION CONNECTED		MAND FACTOR	ESTIMATE			PANEL TO	JIALS
IGHTING	2460 V/	\	125.00%	3075 VA				
						TOTAL CONN		
						DTAL EST. DI		
							CONN.: 7	
					T	OTAL EST. DI	EMAND: 9	A
				1	1			

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BRANCH PANEL: EN															
LOCATION: ELECTRIC EQUIP. 5-8 SUPPLY FROM: US-1 MOUNTING: SURFACE ENCLOSURE: TYPE 1						VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4					MAIN	ST	ING: 35,000 YPE: MLO ING: 600 A		
NOTES:															
CIRCUIT DESCRIPTION	Р		AMP	CKT NO		A		В		;	CKT NO	AMP	Р	CIR	
SPARE	1		20 A	1	0	0					2	20 A	1		SPARE
SPARE	1		20 A	3			0	0			4	30 A	1		SPARE
SPARE	1		50 A	5					0	0	6	50 A	1		SPARE
SPARE	1		125 A	7	0	0					8	125 A	1		SPARE
SPARE	1		225 A	9			0	0			10	225 A	1		SPARE
SPARE	1		20 A	11					0	0	12	100 A	1		SPARE
SPARE	1		20 A	13	0	0					14	50 A	1		SPARE
					0	VA	0	VA	0 \	/A					
					() A	0	A	0	A	_				
LEGEND: "G" INDICATES GFCI TYPE BREAKER, " "F" INDICATES RED LOCK-ON HASP	L" IN	IDIC	ATES I	PROVI	DE LOC	KABLE HA	ASP								
LOAD CLASSIFICATION		C	CONNE	CTED	LOAD	DEM	AND FAC	TOR	ESTIMAT	ED DEN	IAND			PANEL	_ TOTALS
												τοτα		ONN. LOAD:	Ο ΜΔ
														T. DEMAND:	
														TAL CONN.:	
												TOTAL	ES	F. DEMAND:	0 A
NOTES:															

BRANCH PANEL: EI	MB2	2														
LOCATION: ELECTRIC EQUIP. 5-8 SUPPLY FROM: US-1 MOUNTING: SURFACE ENCLOSURE: TYPE 1						VOLTAGE: 120/208 WYE PHASES: 3 WIRES: 4						MA	INS	5 ТY	NG: 35,000 'PE: MLO NG: 600 A	
NOTES:																
CIRCUIT DESCRIPTION	Р		AMP	CKT NO		A		В		C	CKT NO	AMP		Р	CIRC	
SPARE	1		20 A	1	0	0					2	20 A -		1		SPARE
SPARE	1		20 A	3			0	0			4	30 A -		1		SPARE
SPARE	1		50 A	5					0	0	6	50 A -		1		SPARE
SPARE	1		125 A	7	0	0					8	125 A -		1		SPARE
SPARE	1		225 A	9			0	0			10	225 A ·		1		SPARE
SPARE	1		20 A	11					0	0	12	100 A ·		1		SPARE
SPARE	1		20 A	13	0	0					14	50 A -		1		SPARE
					0	VA	0	VA	0	VA						
					() A	C) A	0	А						
EGEND: G" INDICATES GFCI TYPE BREAKER, F" INDICATES RED LOCK-ON HASP	"L" IN											1				
		⊢	CONNE	CTED	LOAD	D	EMAND FAC	TOR	ESTIMA	ED DEN	IAND				PANEL	TOTALS
		1				1			1						NN. LOAD: 0	
		+										TOT	AL	CO		VA
		<u> </u>													. DEMAND: 0	
													AL E	EST		VA
												ΤΟΤΑ	AL E	EST FOT	. DEMAND: 0	VA A
												ΤΟΤΑ	AL E	EST FOT	. DEMAND: 0 AL CONN.: 0	VA A



LIGHTING FIXTURE SCHEDULE

NOTES:

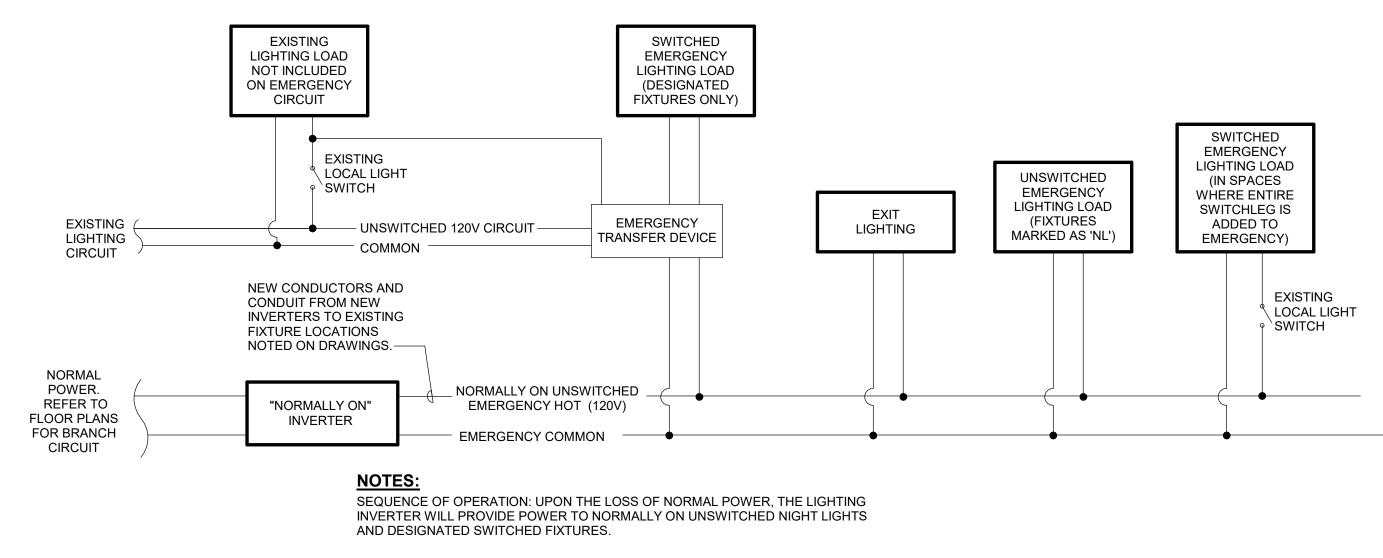
- 1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED. 2. INCLUDE A MINIMUM 1 YEAR WARRANTY FOR LIGHTING FIXTURES, WHERE NOT OTHERWISE SPECIFIED.
- 3. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING
- LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN. 4. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.
- 5. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES. 6. AIM AND TARGET ADJUSTABLE INTERIOR AND EXTERIOR LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT.
- INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT. 7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

							DESIGN	ED BY: MICHAEL LORTZ
<u>TYPE</u>	MANUFACTURER	MODEL	DESCRIPTION	FINISH	SOURCE-CCT	VOLTAGE	LOAD-VA	APPROVED EQUALS
X1		LQM-S-W-3-R-120/277- M6	THERMOPLASTIC EXIT SIGN, UNIVERSAL MOUNTING. PROVIDE SEPERATE LINE ITEM WITH UNIT PRICE FOR EXIT SIGN WITH 25' MC CABLING WHIP TO NEAREST LIGHTING INVERTER CIRCUIT.	WHITE	RED LED	120 V	5 VA	DUAL-LITE, OR AS APPROVED BY ENGINEER

LIGHTING INVERTER SCHEDULE

- NOTES: 1. PRODUCTS SHALL BE U.L. OR SIMILARLY LISTED. PRODUCTS MUST BE UL 924 LISTED.
- 2. PROVIDE PRODUCT WITH MINIMUM 3 YEAR FULL WARRANTY. 3. BATTERIES SHALL BE SIZED TO PROVIDE A MINIMUM 90 MINUTE RUN TIME FOR THE RATED LOAD LISTED.
- 4. CONTRACTOR IS RESPONSIBLE FOR ALL MISC. HARDWARE NECESSARY TO INSTALL AND SUPPORT THE EQUIPMENT.

<u>TYPE</u>	MANUFACTURER	MODEL	DESCRIPTION
IN1-29	HUBBELL DUAL-LITE	LG-1150-S-I	1150W SINGLE PHASE EMERGENCY CENTRAL INVERTER. NORMALLY ON OPERATION. DELIVE RATED OUTPUT 120VAC POWER FOR A MINIMUM 90 MINUTES OF OPERATION. NEAR INSTANTANEOUS TRANSFER TIME. INTEGRAL 20A/1P OUTPUT CIRCUIT BREAKER. INTEGRAL PUSH TO TEST BUTTON. VRLA LEAD CALCIUM BATTERIES WITH 10 YEAR TYPICAL BATTERY LI PROVIDE WITH A TOTAL OF (2) EXTRA COMPLETE BATTERY REPLACEMENTS TO SERVE AS OWNER MAINTENANCE INVENTORY.

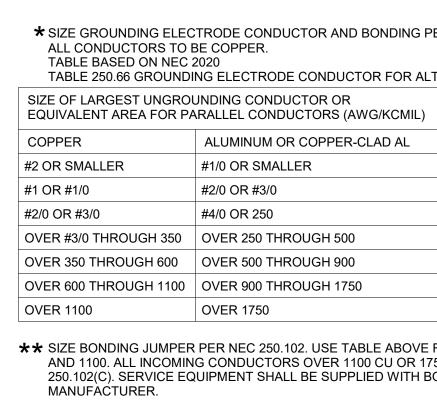


1 LIGHTING INVERTER - EMERGENCY LIGHTING DETAIL NOT TO SCALE

ESCUTCHEON PLATE IN FINISHED SPACES (OTHERWISE CAULK)-FIRE BARRIER PUTTY AND PACKING SUFFICIENT TO MAINTAIN RATING OF - WALL, VERIFY TYPE FILL PACKING (TYP.)-OF CONSTRUCTION STEEL SLEEVE REQUIRED IN STUD WALL CONSTRUCTION -WALL SECTION 4 CONDUIT FIREWALL PENETRATION DETAIL NOT TO SCALE

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			DE	SIGNED BY: MAL
	NORMAL ON / NORMAL OFF	VOLTAGE	LOAD-VA	APPROVED EQUALS
IVERS AL Y LIFE. S	NORMAL ON	120 V	1150 VA	LIGHTALARMS, IOTA, OR AS APPROVED BY ENGINEER

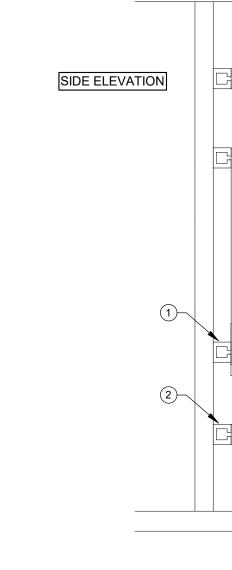


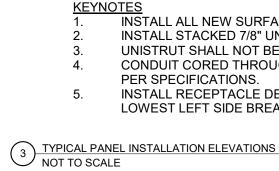
#2/0 OR #3/0

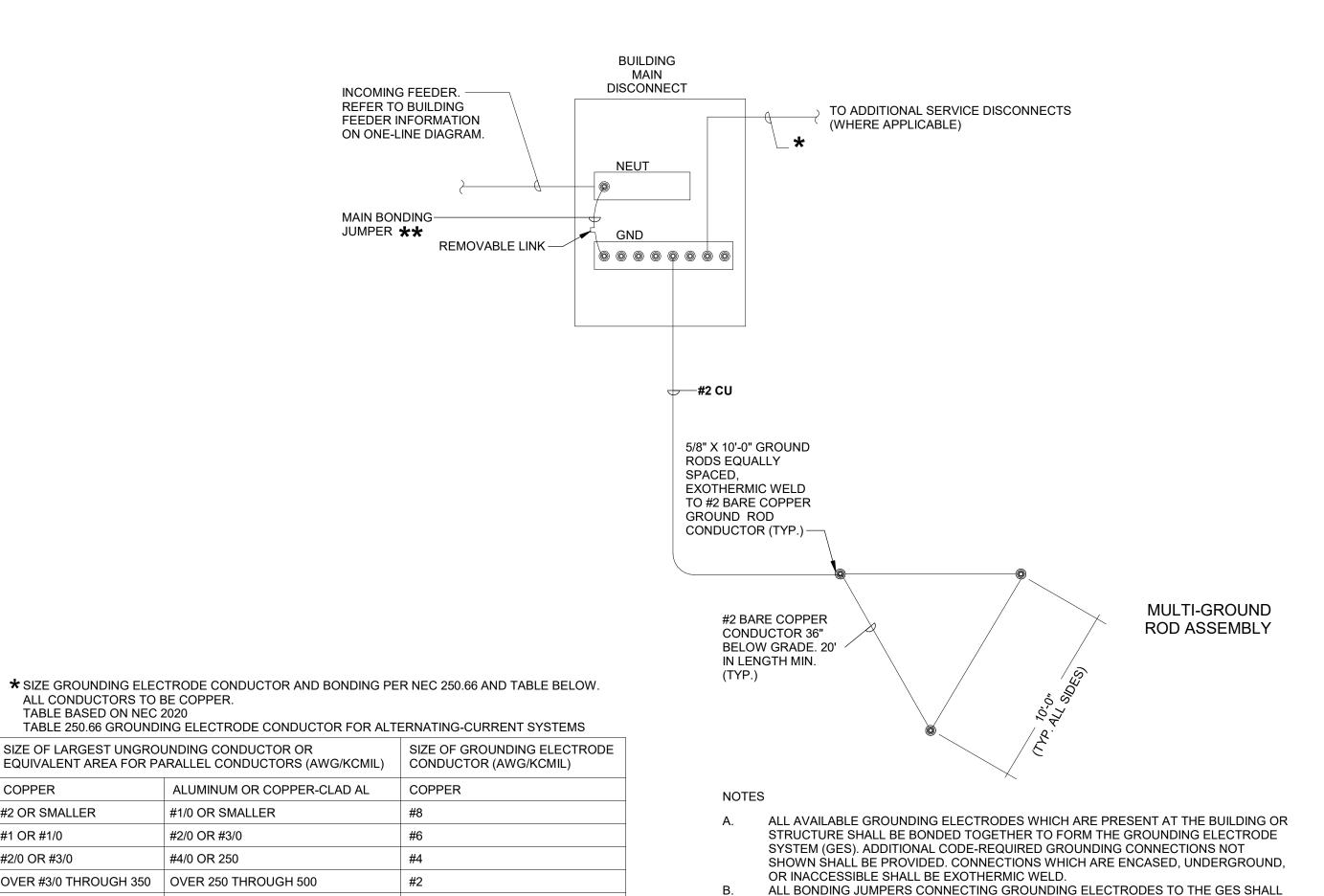
#4/0 OR 250

OVER 1750

2 WAREHOUSE GROUNDING ELECTRODE SYSTEM NOT TO SCALE







BE SIZED EQUAL TO THE GROUNDING ELECTRODE CONDUCTOR (GEC) IN

REFER TO SPECIFICATIONS FOR ADDITIONAL PRODUCT AND MATERIAL

COPPER UNLESS OTHERWISE NOTED.

COMPLY WITH NEC ARTICLE 250.

C.

OTHERWISE DESCRIBED IN NEC ARTICLE 250. CONDUCTORS SHALL BE BARE

REQUIREMENTS. GROUNDING AND BONDING METHODS AND MATERIALS SHALL

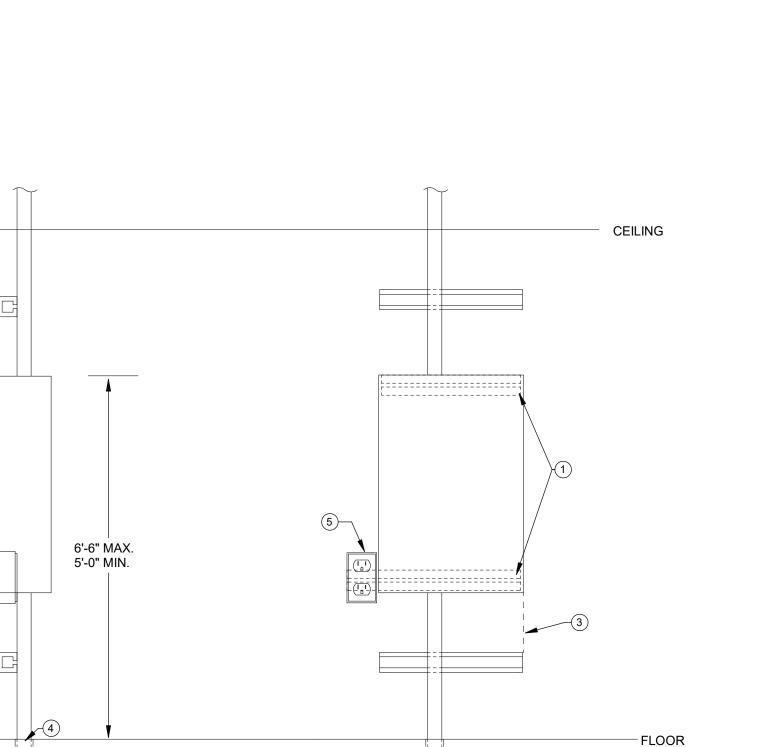
ACCORDANCE WITH NEC 250.53(C). OTHER BONDING JUMPERS SHALL BE SIZED AS

★★ SIZE BONDING JUMPER PER NEC 250.102. USE TABLE ABOVE FOR ALL CONDUCTORS BETWEEN #2 AND 1100. ALL INCOMING CONDUCTORS OVER 1100 CU OR 1750 AL SHALL BE SIZED PER THE TABLE 250.102(C). SERVICE EQUIPMENT SHALL BE SUPPLIED WITH BONDING JUMPER FROM THE MANUFACTURER.

#1/0

#2/0

#3/0



INSTALL ALL NEW SURFACE MOUNTED PANELS ON 7/8" UNISTRUT. INSTALL STACKED 7/8" UNISTRUT OR 1-1/4" UNISTRUT FOR CONDUIT OFFSET.

UNISTRUT SHALL NOT BE WIDER THAN THE PANELBOARD ON OPPOSITE SIDE OF RECEPTACLE. CONDUIT CORED THROUGH FLOOR. ASSUME ALL PENETRATIONS ARE 2 HOURS AND PROVIDE FIRESTOPPING PER SPECIFICATIONS. INSTALL RECEPTACLE DEVICE ADJACENT TO NEW PANELBOARDS ON UNISTRUT. INSTALL 20A 1P BREAKER IN LOWEST LEFT SIDE BREAKER SPACE TO FEED RECEPTACLE.



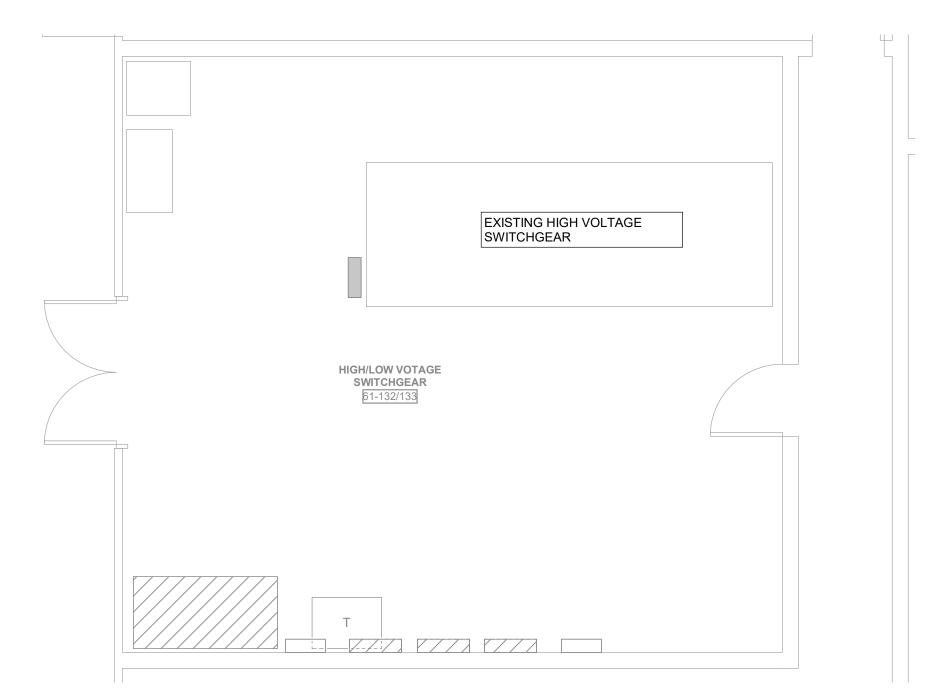


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1 POWERHOUSE BUILDING 1/16" = 1'-0"

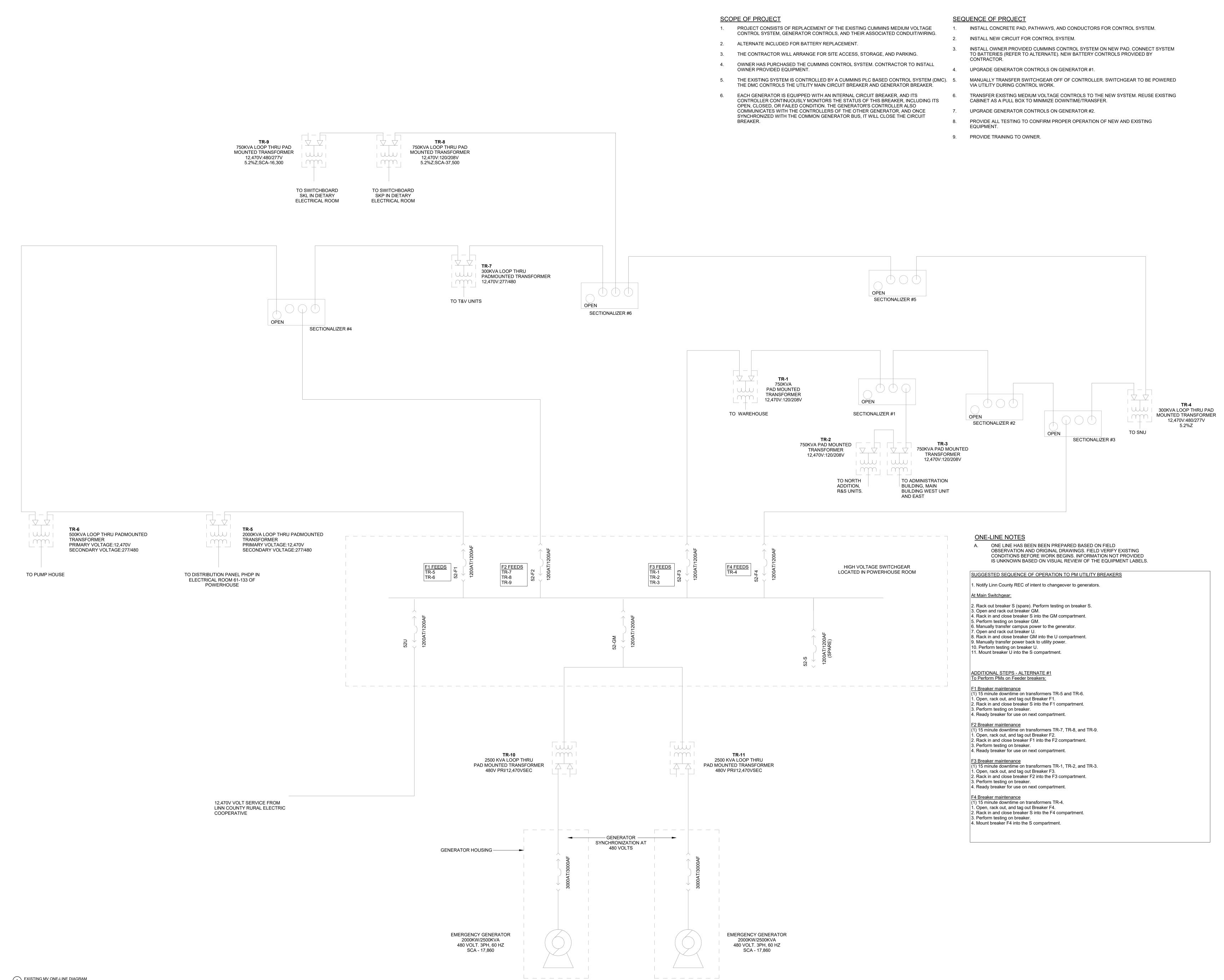


A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. B. THE OWNER SHALL HAVE THE FIRST CHOICE TO ACCEPT EXISTING DEVICES AND EQUIPMENT BEING REMOVED AND NOT REUSED.



3 EXISTING SWITCHGEAR ROOM 1/4" = 1'-0"





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