

ELECTRICAL SYMBOLS LIST

	HOMERUN—NUMERAL WHERE USED INDICATES CIRCUIT NUMBER FOR REFERENCE ONLY. PROVIDE SEPARATE NEUTRALS FOR EACH CIRCUIT. 2#12+1#12G–3/4”C FOR ONE CKT. HOMERUN, U.O.N. 4#12+1#12G–3/4”C FOR TWO CKT. HOMERUN, U.O.N. 6#12+1#12G–3/4”C FOR THREE CKT. HOMERUN, U.O.N.
	EXISTING CONDUIT/EQUIPMENT TO REMAIN
	EXISTING CONDUIT/EQUIPMENT TO BE DISCONNECTED AND REMOVED
	NEW CONDUIT
	20A, 125V DUPLEX RECEPTACLE, MOUNTED VERTICALLY AT +18” A.F.F., U.O.N. GFI – DENOTES GROUND FAULT INTERRUPTER TYPE
	20A, 125V QUADRUPLX RECEPTACLE – FLUSH WALL MOUNTED AT 18”.
	SPECIAL PURPOSE RECEPTACLE – FLUSH MOUNTED
	DATA OUTLET LOCATION WITH 3/4” CONDUIT TERMINATED IN A 90 DEG. BEND 6” INTO NEAREST ACCESSIBLE CEILING. PROVIDE BUSHED OPENINGS.
	JUNCTION BOX
	UNFUSED DISCONNECT SWITCH SWITCH AMPS/# OF POLES, VOLTAGE RATING AS REQUIRED
	FLUSH–MOUNTED PANELBOARD
	MOTOR
	EXISTING TO REMAIN

ELECTRICAL DEMOLITION NOTES

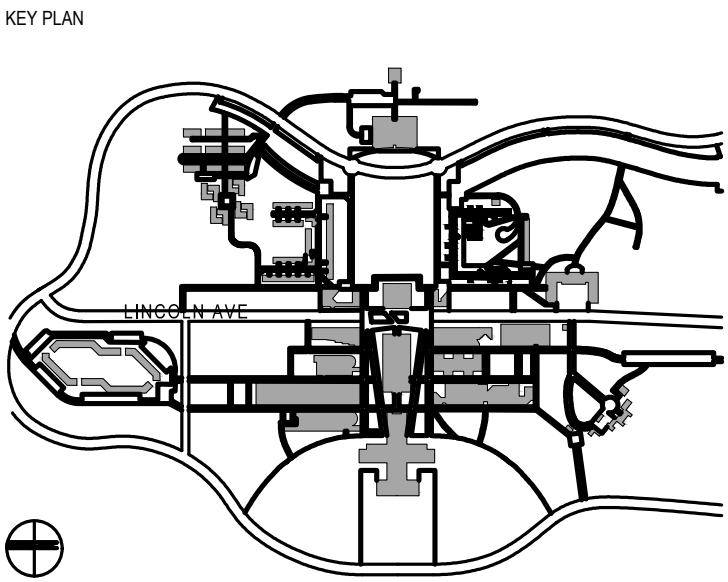
- THE CONTRACTOR SHALL INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF ELECTRICAL WORK AS DESCRIBED IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT.
- THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL AND ELECTRICAL LAYOUTS IN FULL COORDINATION WITH THE ARCHITECT’S DEMOLITION PLANS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY.
- THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING ELECTRICAL SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
- DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
- THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL OUTLETS, SWITCHES AND OTHER DEVICES, COMPLETE WITH ASSOCIATED WIRING, CONDUITS, ETC., FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO PANELBOARD.
- ALL RACEWAYS WHICH BECOME EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
- ALL UNUSED OUTLET BOXES OR CAPPED FLOOR OUTLETS SHALL BE PROVIDED WITH MATCHING BLANK COVERS.
- EXISTING PANEL DIRECTORIES AFFECTED BY THE ALTERATION WORK SHALL BE MODIFIED TO REFLECT THE BRANCH CIRCUIT WIRING CHANGES.
- PORTIONS OF FEEDER RUNS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ENERGIZED, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONES IN ALL RESPECTS, CABLE TYPE, CONDUCTOR AMPACITY, CONDUIT SIZES, ETC.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS. THE CONTRACTOR SHALL FOLLOW CLOSELY THE ARCHITECT’S DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.
- ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR, AS DIRECTED BY THE OWNER.
- ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
- THE SHUTDOWN OF EXISTING BUILDING ELECTRICAL SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.

ELECTRICAL GENERAL NOTES

- GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL ELECTRICAL DRAWINGS.
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
- SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
- CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREAD OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.
- HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED. DO NOT RUN CONDUIT IN PRECAST ROOF SLABS, IN 2 INCH SLABS OR IN TERRAZZO FLOOR FINISH.
- LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. RACEWAYS OVER 10 FT LONG IN WHICH WIRING IS NOT INSTALLED: FURNISH FISH WIRE.
- SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
- VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
- LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECT AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
- COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.
- JUNCTION AND PULLBOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT.
- ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
- CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT (MINIMUM 18 IN. LENGTH AND 50% SLACK). DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.
- WIRE COLOR CODING: AS PER CODE. WHERE COLOR–CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6”) IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.
- INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS: ONLY WITH WRITTEN CONSENT OF OWNER. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES. ALARM AND EMERGENCY SYSTEMS ARE NOT TO BE INTERRUPTED.
- FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONTROL WIRING REQUIREMENTS WITH THE MECHANICAL CONTRACTOR TO ENSURE A COMPLETE WORKING SYSTEM. WHERE REQUIRED, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL CONTROL WIRING NOT IN MECHANICAL CONTRACTOR’S SCOPE.

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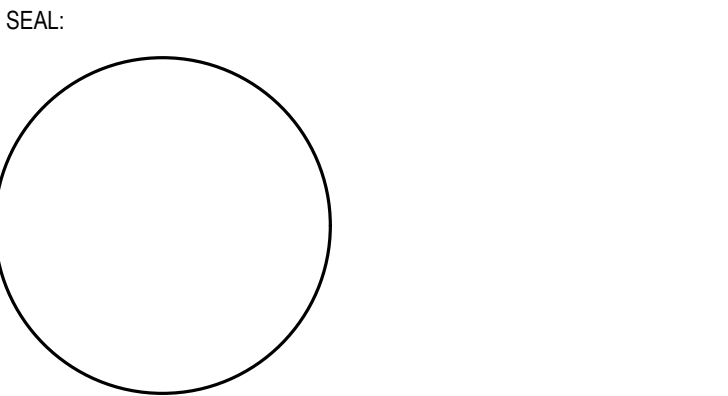


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02	05.14.2024	ISSUED FOR BID
01	04.26.2024	ISSUED FOR CLIENT REVIEW
NO	DATE	DESCRIPTION

ISSUES



ISSUE:
ISSUED FOR BID

SCALE:	AS NOTED	PROJECT NO:	2403	DATE:	03.25.2024
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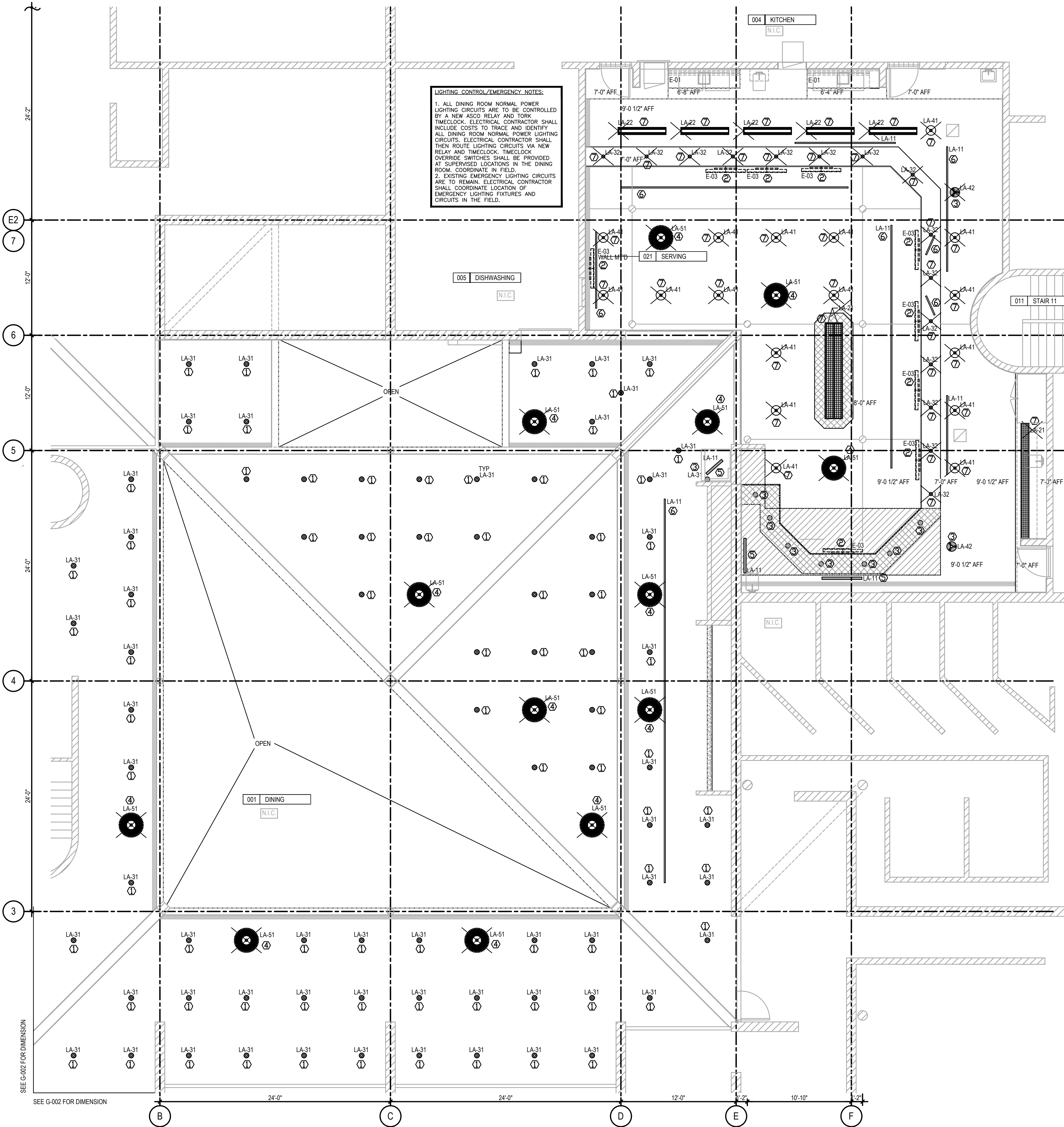
DRAWING TITLE:
**ELECTRICAL SYMBOLS
AND NOTES**

DRAWING NUMBER
E-001.00

DRAWING 01 OF XX

DATE: 05/14/2024 10:00 AM

DATE: 05/14/2024 10:00 AM



LIGHTING CONTROL/EMERGENCY NOTES:
1. ALL DINING ROOM NORMAL POWER LIGHTING CIRCUITS ARE TO BE CONTROLLED BY A NEW ASCO RELAY AND TIMECLOCK. ELECTRICAL CONTRACTOR SHALL INCLUDE COSTS TO TRACE AND IDENTIFY ALL DINING ROOM NORMAL POWER LIGHTING CIRCUITS. ELECTRICAL CONTRACTOR SHALL THEN ROUTE LIGHTING CIRCUITS VIA NEW RELAY AND TIMECLOCK. TIMECLOCK OVERRIDE SWITCHES SHALL BE PROVIDED AT SUPERVISED LOCATIONS IN THE DINING ROOM. COORDINATE IN FIELD.
2. EXISTING EMERGENCY LIGHTING CIRCUITS ARE TO REMAIN. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF EMERGENCY LIGHTING FIXTURES AND CIRCUITS IN THE FIELD.

- LIGHTING DEMO NOTES:**
- ① EXISTING LIGHTING FIXTURES TO REMAIN. CLEAN, REFURBISH AND RELAMP AS REQUIRED. MAINTAIN EXISTING CIRCUITING. COORDINATE IN FIELD.
 - ② EXISTING TV MONITORS TO BE DISCONNECTED, REMOVED AND STORED FOR FUTURE USE. MAINTAIN EXISTING CIRCUITING AND TV CABLING. COORDINATE IN FIELD.
 - ③ DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE, ALONG WITH ASSOCIATED CONDUIT AND WIRING. COORDINATE IN FIELD.
 - ④ EXISTING CEILING FAN/LIGHT TO BE DISCONNECTED, REMOVED AND REPLACED WITH NEW FAN/LIGHT. MAINTAIN EXISTING CIRCUITING FOR CONNECTION TO NEW FAN/LIGHT. COORDINATE IN FIELD.
 - ⑤ EXISTING TRACK LIGHTING/FIXTURES TO BE DISCONNECTED AND REMOVED. COORDINATE IN FIELD.
 - ⑥ EXISTING TRACK LIGHTING/FIXTURES TO REMAIN. CLEAN REFURBISH AND RELAMP AS REQUIRED. MAINTAIN EXISTING CIRCUITING. COORDINATE IN FIELD.
 - ⑦ EXISTING LIGHTING FIXTURES TO BE DISCONNECTED, REMOVED, AND REPLACED WITH NEW FIXTURE. MAINTAIN EXISTING CIRCUIT FOR CONNECTION TO NEW FIXTURE. COORDINATE IN FIELD.

- GENERAL NOTES:**
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 - REFER TO ARCHITECT'S PLANS FOR LIGHTING FIXTURE SPECIFICATIONS AND EXACT LOCATION OF ALL LIGHTING FIXTURES.
 - UPDATE ALL PANEL SCHEDULES/DIRECTORIES AT COMPLETION OF WORK TO REFLECT AS-BUILT CONDITIONS.

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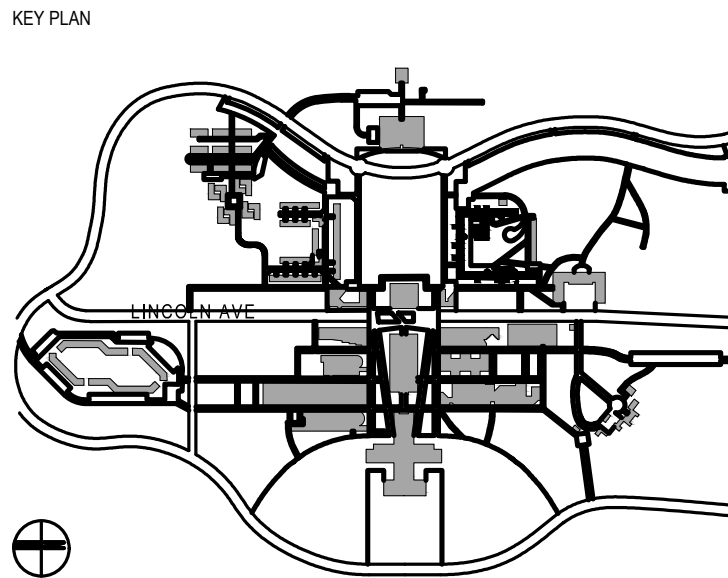
RESIDENTIAL COMPLEX A

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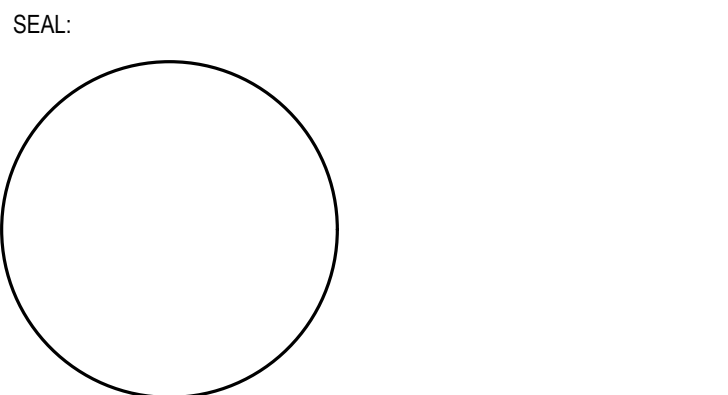


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NO	DATE	DESCRIPTION

ISSUES



ISSUE: **ISSUED FOR BID**

SCALE: AS NOTED PROJECT NO: 2403 DATE: 03.25.2024

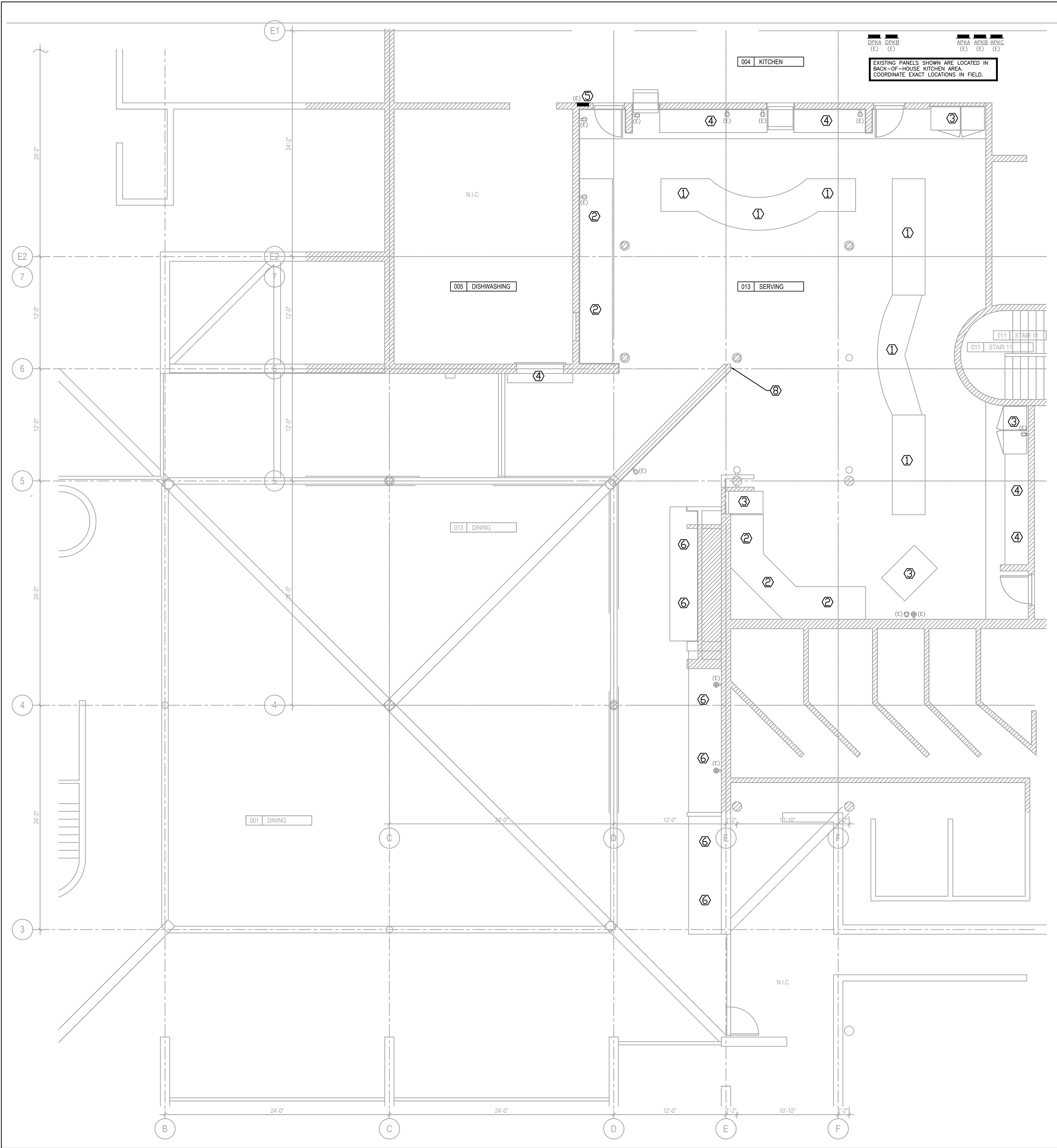
DRAWING TITLE: **GROUND FLOOR DEMOLITION LIGHTING**

DRAWING NUMBER: **ED-100.00** DRAWING 01 OF XX

DEMOLITION PLAN - LIGHTING

SCALE: 3/16" = 1'-0"

1



GENERAL NOTES:

- REFER TO DRAWING E-001.00 FOR ELECTRICAL SYMBOLS AND NOTES.
- REFER TO ED SERIES DRAWINGS FOR DEMOLITION PLANS.
- REFER TO E SERIES DRAWINGS FOR LIGHTING AND POWER PLANS.
- REFER TO 200 SERIES DRAWINGS FOR SPECIFICATIONS.
- REFER TO ARCHITECT'S PLANS FOR LIGHTING FIXTURE SPECIFICATIONS AND EXACT LOCATION OF ALL LIGHTING FIXTURES.
- UPDATE ALL PANEL SCHEDULES/DIRECTORIES AT COMPLETION OF WORK TO REFLECT AS-BUILT CONDITIONS.

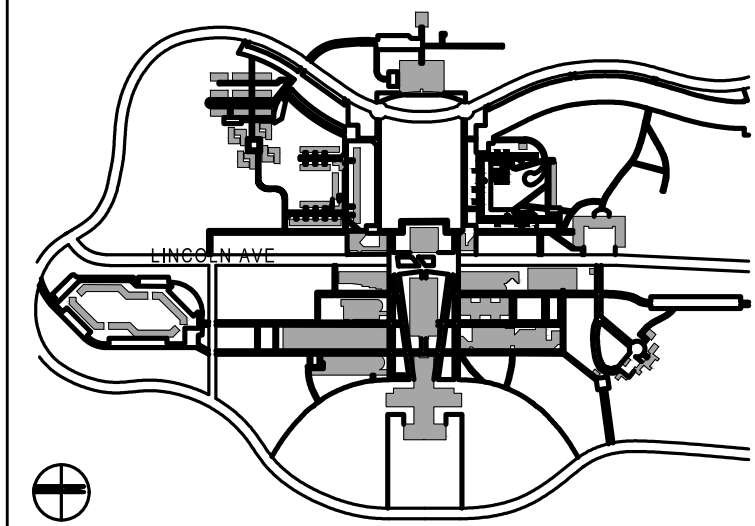
POWER & TEL/DATA DEMO NOTES:

- DISCONNECT AND REMOVE ALL WIRING EXISTING SERVING ELECTRICAL KITCHEN EQUIPMENT LOCATED ON COUNTERS BEING DEMOLISHED. MAINTAIN ELECTRICAL FEEDS LOCATED IN CONCRETE BASE FOR POSSIBLE RECONNECTION TO NEW EQUIPMENT. COORDINATE IN FIELD.
- DISCONNECT AND REMOVE ALL WIRING AND CONDUIT TO ALL EXISTING ELECTRICAL KITCHEN EQUIPMENT LOCATED ON COUNTERS BEING DEMOLISHED. MAINTAIN CIRCUITING FOR CONNECTION TO NEW EQUIPMENT. COORDINATE IN FIELD.
- EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED. MAINTAIN CIRCUITING FOR CONNECTION TO NEW EQUIPMENT. COORDINATE IN FIELD.
- EXISTING EQUIPMENT AND CIRCUITING TO REMAIN. COORDINATE IN FIELD.
- EXISTING KITCHEN ELECTRICAL PANEL TO REMAIN. MAINTAIN EXISTING FEEDER. COORDINATE IN FIELD.
- ALL EXISTING RECEPTACLES SERVING COUNTERTOP EQUIPMENT ARE TO REMAIN. EXISTING EQUIPMENT SHALL BE DISCONNECTED, REMOVED, REINSTALLED AND/OR RELOCATED. MAINTAIN CIRCUITING. COORDINATE IN FIELD.
- EXISTING KITCHEN EQUIPMENT PANELS DEKA, DEKB, APRCA, REKB, AND REKD ARE ALL LOCATED ON REAR WALL IN THE KITCHEN. COORDINATE EXACT LOCATIONS IN FIELD.
- DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED SPECIAL EVENTS RECEPTACLE, ALONG WITH ASSOCIATED CONDUIT AND WIRING IN THEIR ENTIRETY BACK TO SOURCE PANEL. COORDINATE IN FIELD.

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KEY PLAN



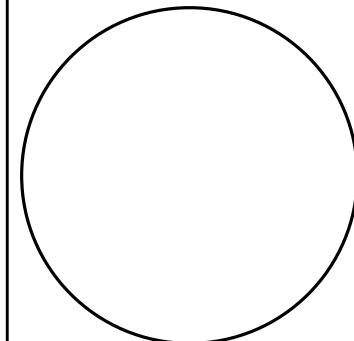
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ISSUES

SEAL:



ISSUE:

ISSUED FOR BID

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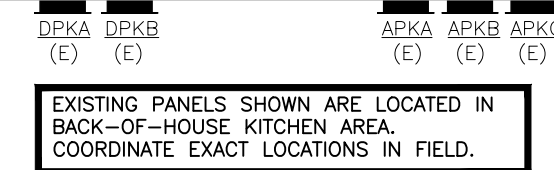
DRAWING TITLE:

GROUND FLOOR DEMOLITION
PLAN - POWER

DRAWING NUMBER

DRAWING 01 OF XX

ED-101.00



LIGHTING CONTROL/EMERGENCY NOTES:

1. ALL DINING ROOM NORMAL POWER LIGHTING CIRCUITS ARE TO BE CONTROLLED BY A NAY AND TORY TIMECLOCK. ELECTRICAL CONTRACTOR SHALL INCLUDE COSTS TO TRACE AND IDENTIFY ALL DINING ROOM NORMAL POWER LIGHTING CIRCUITS. ELECTRICAL CONTRACTOR SHALL THEN ROUTE LIGHTING CIRCUITS VIA NEW RELAY AND TIMECLOCK. TIMECLOCK OVERRIDE SWITCHES SHALL BE PROVIDED AT SUPERVISED LOCATIONS IN THE DINING ROOM. COORDINATE IN FIELD.

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LIGHTING PLAN NOTES:

- ① EXISTING LIGHTING FIXTURE TO REMAIN. CLEAN, REFURBISH AND RELAMP AS REQUIRED. MAINTAIN EXISTING CIRCUIT. COORDINATE IN FIELD.
- ② EXISTING CEILING FAN/LIGHT TO BE REPLACED WITH NEW FAN/LIGHT. CONNECT TO EXISTING CIRCUIT. COORDINATE IN FIELD.
- ③ TV MONITOR PROVIDED BY OWNER. CONNECT TO EXISTING CIRCUITING AND TV CABLEING. COORDINATE IN FIELD.
- ④ TV MONITOR PROVIDED BY OWNER ON NEW SOFFIT. CONNECT TO EXISTING TV POWER CIRCUITING. COORDINATE IN FIELD.
- ⑤ NEW LIGHTING FIXTURES. CONNECT TO EXISTING LIGHTING CIRCUITING. PROVIDE AND INSTALL NEW WIRING AND CONDUIT AS REQUIRED. COORDINATE IN FIELD.
- ⑥ EXISTING TRACK LIGHTING/FIXTURES TO REMAIN. CLEAN, REFURBISH AND RELAMP AS REQUIRED. MAINTAIN EXISTING CIRCUITING. COORDINATE IN FIELD.

GENERAL NOTES:

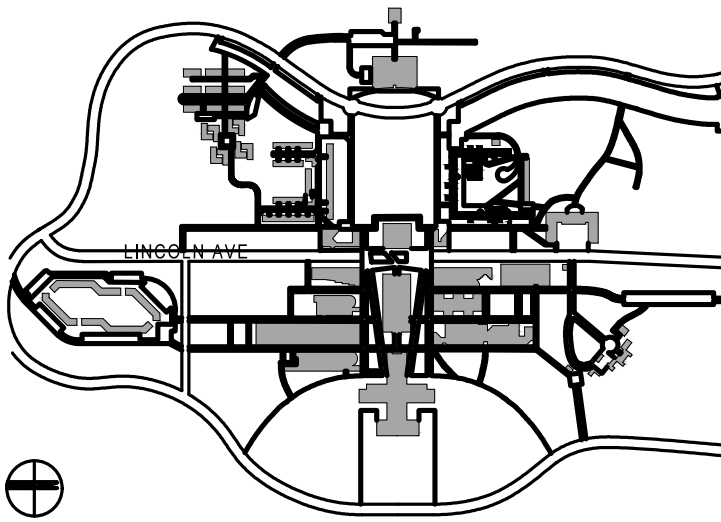
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ISSUES

SEAL:



ISSUE:

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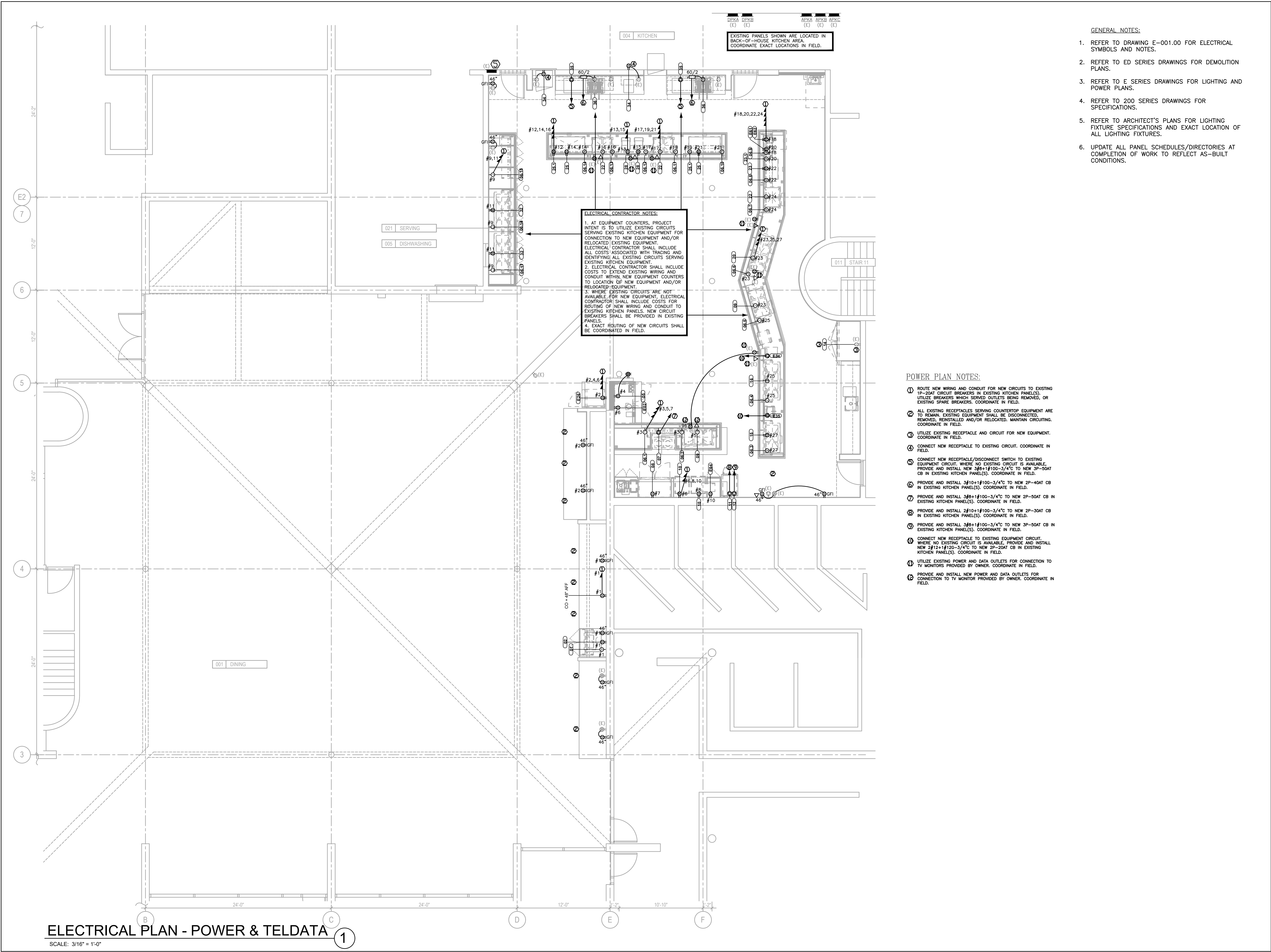
SCALE: AS NOTED	PROJECT NO: 2403	DATE: 03.25.2024
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DRAWING TITLE:

**GROUND FLOOR ELECTRICAL
PLAN - LIGHTING**

DRAWING NUMBER DRAWING 01 OF XX

E-100.00



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 - UPDATE ALL PANEL SCHEDULES/DIRECTORIES AT COMPLETION OF WORK TO REFLECT AS-BUILT CONDITIONS.

ELECTRICAL CONTRACTOR NOTES:

- AT EQUIPMENT COUNTERS, PROJECT INTENT IS TO UTILIZE EXISTING CIRCUITS SERVING EXISTING KITCHEN EQUIPMENT FOR CONNECTION TO NEW EQUIPMENT AND/OR RELOCATED EXISTING EQUIPMENT. ELECTRICAL CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH TRACING AND IDENTIFYING ALL EXISTING CIRCUITS SERVING EXISTING KITCHEN EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL INCLUDE COSTS TO EXTEND EXISTING WIRING AND CONDUIT WITHIN NEW EQUIPMENT COUNTERS TO LOCATION OF NEW EQUIPMENT AND/OR RELOCATED EQUIPMENT.
- WHERE EXISTING CIRCUITS ARE NOT AVAILABLE FOR NEW EQUIPMENT, ELECTRICAL CONTRACTOR SHALL INCLUDE COSTS FOR ROUTING OF NEW WIRING AND CONDUIT TO EXISTING KITCHEN PANELS. NEW CIRCUIT BREAKERS SHALL BE PROVIDED IN EXISTING PANELS.
- EXACT ROUTING OF NEW CIRCUITS SHALL BE COORDINATED IN FIELD.

POWER PLAN NOTES:

- ROUTE NEW WIRING AND CONDUIT FOR NEW CIRCUITS TO EXISTING 1P-20AT CIRCUIT BREAKERS IN EXISTING KITCHEN PANEL(S). UTILIZE BREAKERS WHICH SERVED OUTLETS BEING REMOVED, OR EXISTING SPARE BREAKERS. COORDINATE IN FIELD.
- ALL EXISTING RECEPTACLES SERVING COUNTERTOP EQUIPMENT ARE TO REMAIN. EXISTING EQUIPMENT SHALL BE DISCONNECTED, REMOVED, REINSTALLED AND/OR RELOCATED. MAINTAIN CIRCUITING. COORDINATE IN FIELD.
- UTILIZE EXISTING RECEPTACLE AND CIRCUIT FOR NEW EQUIPMENT. COORDINATE IN FIELD.
- CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT. COORDINATE IN FIELD.
- CONNECT NEW RECEPTACLE/DISCONNECT SWITCH TO EXISTING EQUIPMENT CIRCUIT. WHERE NO EXISTING CIRCUIT IS AVAILABLE, PROVIDE AND INSTALL NEW 3#8+1#10G-3/4" TO NEW 3P-50AT CB IN EXISTING KITCHEN PANEL(S). COORDINATE IN FIELD.
- PROVIDE AND INSTALL 3#10+1#10G-3/4" TO NEW 2P-40AT CB IN EXISTING KITCHEN PANEL(S). COORDINATE IN FIELD.
- PROVIDE AND INSTALL 3#8+1#10G-3/4" TO NEW 2P-50AT CB IN EXISTING KITCHEN PANEL(S). COORDINATE IN FIELD.
- PROVIDE AND INSTALL 2#10+1#10G-3/4" TO NEW 2P-30AT CB IN EXISTING KITCHEN PANEL(S). COORDINATE IN FIELD.
- PROVIDE AND INSTALL 3#8+1#10G-3/4" TO NEW 3P-50AT CB IN EXISTING KITCHEN PANEL(S). COORDINATE IN FIELD.
- CONNECT NEW RECEPTACLE TO EXISTING EQUIPMENT CIRCUIT. WHERE NO EXISTING CIRCUIT IS AVAILABLE, PROVIDE AND INSTALL NEW 2#12+1#12G-3/4" TO NEW 2P-20AT CB IN EXISTING KITCHEN PANEL(S). COORDINATE IN FIELD.
- UTILIZE EXISTING POWER AND DATA OUTLETS FOR CONNECTION TO TV MONITORS PROVIDED BY OWNER. COORDINATE IN FIELD.
- PROVIDE AND INSTALL NEW POWER AND DATA OUTLETS FOR CONNECTION TO TV MONITOR PROVIDED BY OWNER. COORDINATE IN FIELD.

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KEY PLAN

CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS & DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUANTITY OF WORK. NO ALLOWANCES SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

BUILDING DEPARTMENT NOTE:
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

02	05.14.2024	ISSUED FOR BID
01	04.26.2024	ISSUED FOR CLIENT REVIEW
NO	DATE	DESCRIPTION

ISSUES

SEAL:

ISSUE:

ISSUED FOR BID

SCALE:	AS NOTED	PROJECT NO:	2403	DATE:	03.25.2024
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DRAWING TITLE:

**GROUND FLOOR ELECTRICAL
PLAN - POWER & TELDATA**

DRAWING NUMBER

E-101.00

DRAWING 01 OF XX

DATE: 05/14/2024

DATE: 05/14/2024

DATE: 05/24/2024 10:29 AM

FILE NAME:

ELECTRICAL WORK

1. GENERAL:

- A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE ARE PART OF THIS CONTRACT.
- B. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIAL WHICH VIOLATES ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.
- C. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED, WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.
- D. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF CONDUIT TO AVOID OBSTRUCTIONS. COORDINATION WITH EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES, IS REQUIRED. MAINTAIN HEADROOM AND SPACE CONDITIONS.
- E. INSTALL WORK TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES THAT INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- F. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK MAY BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. NOT ALL EXISTING CONDITIONS CAN BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES AND CHARGES IN MAKING UP THE WORK PROPOSAL.
- G. CONNECTIONS TO EXISTING WORK: INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES/TEMPORARY SHUTDOWNS OF EXISTING SERVICES SHALL BE PERFORMED AT NO ADDITIONAL CHARGES, AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES AND ONLY WITH WRITTEN CONSENT OF OWNER. FIRE ALARM AND EMERGENCY SYSTEMS SHALL NOT BE INTERRUPTED. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.
- H. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW WORK.
- I. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIALS AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR ON THE EXTERIOR.
- J. SEAL OPENINGS THROUGH PARTITIONS, WALLS AND FLOORS WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL. ALL PENETRATIONS THROUGH NEW AND EXISTING RATED FIRE AND SMOKE PARTITIONS AND/OR FLOORS SHALL BE COMPLETELY SEALED USING MATERIALS AND METHODS DESCRIBED IN SUBSEQUENT FIRE STOPPING SPECIFICATIONS SECTIONS.
- K. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THE BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF CONDUIT AND EQUIPMENT.
- L. PROVIDE 4-INCH HIGH EQUIPMENT CONCRETE PADS FOR ALL FLOOR-MOUNTED ELECTRICAL EQUIPMENT AS INDICATED ON THE DRAWINGS AND AS APPLICABLE: EXAMPLE 45KVA AND 75 KVA TRANSFORMERS; 15KVA TRANSFORMERS SHALL BE CEILING MOUNTED.
- M. ALL EXISTING MATERIAL, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY THE BUILDING REPRESENTATIVE, ARCHITECT OR AS NOTED TO BE RELOCATED ON THE DRAWINGS. REMOVED EQUIPMENT SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.
- N. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK DURING OVERTIME HOURS AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.
- O. UNLESS OTHERWISE SPECIFICALLY NOTED OR SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING, AS REQUIRED TO ALLOW NEW CONDUITS AND EQUIPMENT INSTALLATION. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
- P. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- Q. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO INDICATE ANY DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS PRIOR TO SUBMITTAL OF BID. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING CONDUIT (SIZES, CLEARANCES, ETC) AND CONDITIONS.
- R. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
- S. ALL WORK SHALL BE DONE WHEN AN AS DIRECTED BY THE CLIENT AND IN A MANNER SATISFACTORY TO THE BUILDING OWNER. WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO OTHER BUILDING OCCUPANTS. CONNECT NEW WORK TO BUILDING EXISTING ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. IF THE NEW WORK REQUIRES A TOTAL OR PARTIAL POWER SHUTDOWN, NEW WORK POWER SHUTDOWN SCHEDULE FOR BUILDING OWNERS REVIEW AND APPROVAL: CLEARLY INDICATE THE DATE (DAY AND TIME) AND THE ESTIMATED DURATION PERIOD FOR THE PROPOSED POWER SHUTDOWN, PERFORM THE REQUIRED POWER SHUTDOWN AND ASSOCIATED WORK ONLY ON THE DATES AND THE TIMES APPROVED BY THE BUILDING OWNER.
- T. THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE SPECIFICATIONS AND THESE SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.

2. SCOPE OF WORK:

- A. SCOPE OF WORK SHALL CONSIST OF PROVIDING LABOR, MATERIALS, EQUIPMENT, SERVICE ELECTRICAL EQUIPMENT FOR COMPLETE AND SAFE INSTALLATION IN CONFORMITY WITH THE NATIONAL ELECTRICAL CODE (NEC), AND ALL OTHER APPLICABLE INDUSTRY, NATIONAL AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.

- B. ALL DRAWINGS, PLANS, DETAILS, SPECIFICATIONS AND SPECIFICATION ADDENDA ARE MADE PART OF THIS CONTRACT AND SHALL APPLY TO ALL WORK UNDER THE CONTRACT UNLESS OTHERWISE AMENDED, MODIFIED, SUPPLEMENTED OR SPECIFIED HEREIN.
- C. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED, FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OF ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER, INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.
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- O. UNLESS OTHERWISE SPECIFICALLY NOTED OR SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING, AS REQUIRED TO ALLOW NEW CONDUITS AND EQUIPMENT INSTALLATION. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
- P. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- Q. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO INDICATE ANY DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS PRIOR TO SUBMITTAL OF BID. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING CONDUIT (SIZES, CLEARANCES, ETC) AND CONDITIONS.
- R. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
- S. ALL WORK SHALL BE DONE WHEN AN AS DIRECTED BY THE CLIENT AND IN A MANNER SATISFACTORY TO THE BUILDING OWNER. WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO OTHER BUILDING OCCUPANTS. CONNECT NEW WORK TO BUILDING EXISTING ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. IF THE NEW WORK REQUIRES A TOTAL OR PARTIAL POWER SHUTDOWN, NEW WORK POWER SHUTDOWN SCHEDULE FOR BUILDING OWNERS REVIEW AND APPROVAL: CLEARLY INDICATE THE DATE (DAY AND TIME) AND THE ESTIMATED DURATION PERIOD FOR THE PROPOSED POWER SHUTDOWN, PERFORM THE REQUIRED POWER SHUTDOWN AND ASSOCIATED WORK ONLY ON THE DATES AND THE TIMES APPROVED BY THE BUILDING OWNER.
- T. THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE SPECIFICATIONS AND THESE SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.

2. SCOPE OF WORK:

- A. SCOPE OF WORK SHALL CONSIST OF PROVIDING LABOR, MATERIALS, EQUIPMENT, SERVICE ELECTRICAL EQUIPMENT FOR COMPLETE AND SAFE INSTALLATION IN CONFORMITY WITH THE NATIONAL ELECTRICAL CODE (NEC), AND ALL OTHER APPLICABLE INDUSTRY, NATIONAL AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.

- b. DISTRIBUTION: 265/460 VOLT (AND 120/208 VOLT), 3 PHASE, 4 WIRE, 60 HERTZ WITH GROUNDED NEUTRAL.
- 4) HEIGHTS OF OUTLETS: CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND CONFIRMING ALL MOUNTING HEIGHTS WITH ARCHITECT AND ARCHITECTURAL DRAWINGS:
- a. FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS FOR:
- o RECEPTACLES AND TELEPHONE: 1 FT-6 IN.
 - o WALL SWITCHES: 4 FT-0 IN.
 - o WALL FIXTURES: 7 FT-0 IN.
 - o MOTOR CONTROLLERS: 5 FT-0 IN.
 - o CLOCKS: 7 FT 6 IN.
 - o STROBE LIGHTS 6 FT-8 IN. OR 6 IN. BELOW
 - o AND SPEAKER/STROBE: CEILING (WHICHEVER IS LOWER)
 - o FIRE ALARM PULL STATIONS: 4 FT-0 IN.
- b. EXCEPTIONS: AT JUNCTION OF DIFFERENT WALL FINISH MATERIALS, ON MOLDING OR BREAK IN WALL SURFACE, IN VIOLATION OF CODE, OR AS NOTED OR DIRECTED.
- E. PRODUCT DELIVERY, STORAGE AND HANDLING
- 1) MOVING OF EQUIPMENT: WHERE NECESSARY, SHIP IN CARTED SECTIONS OF SIZE TO PERMIT PASSING THROUGH AVAILABLE SPACES.
- 2) ACCESSIBILITY: FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS SHALL BE PERMITTED. CHANGES OF MAGNITUDE OR INVOLVING EXTRA COST ARE NOT PERMISSIBLE WITHOUT REVIEW. ETC. AS NOTED OR DIRECTED.
- F. MATERIALS
- 1) NAMEPLATES: PROVIDE BLACK LAMICOID SHEET WITH 1 INCH WHITE LETTERING, FASTENED WITH EPOXY CEMENT FOR EACH LOCAL LIFE SAFETY TYPE DISCONNECT SWITCH, LOCAL CIRCUIT BREAKER, PANEL, CABINET, TRANSFORMER, ENCLOSURE, MOTOR CONTROLLER AND THE LIKE. REFER TO IDENTIFICATION PARAGRAPH FOR ADDITIONAL INFORMATION.
- 2) CABLE TAGS: TAG EACH CONDUCTOR PASSING THROUGH SPlice OR PULLBOX WITH A WHITE LINEN TAG, INDICATING POINT OF ORIGIN (PANEL AND CIRCUIT NUMBER) AND TERMINATION OF THE CIRCUIT (EXACT LOAD OR PANEL SERVED). REFER TO IDENTIFICATION PARAGRAPH FOR ADDITIONAL INFORMATION.
- 3) INSERTS AND SUPPORTS:
- a. INSERTS: STEEL, SLOTTED TYPE, FACTORY PAINTED. SINGLE ROD: SIMILAR TO GRINNELL FIG. 281. MULTI-ROD: SIMILAR TO FEE AND MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS. CLIP FORM NAILS FLUSH WITH INSERTS. MAXIMUM LOADING 75 PERCENT OF RATINGS.
- b. SUPPORTS FROM BUILDING CONSTRUCTION: INSERTS, BEAM CLAMPS, STEEL FISHPATES (IN CONCRETE FILL ONLY), CANTILEVER BRACKETS OR OTHER MEANS. SUBMIT FOR REVIEW.
- c. GROUPED LINES AND SERVICES: TRAPEZE HANGERS OF BOLTED ANGLES OR CHANNELS.
- d. WHERE BUILDING CONSTRUCTION IS INADEQUATE: PROVIDE ADDITIONAL FRAMING. SUBMIT FOR REVIEW.
- G. PAINT SHALL BE THE BEST GRADE FOR ITS PURPOSE. DELIVER IN ORIGINAL SEALED CONTAINERS AND APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COLORS SHALL BE AS SELECTED BY ARCHITECT OR ENGINEER. UTILIZE GALVANIZED IRON PRIMER ON PANEL AND PULL BOXES. AFTER FABRICATION, UTILIZE HOT DIPPED GALVANIZED OR DIPPED IN ZINC BASED PRIMER FOR: OUTLET BOXES, JUNCTION BOXES, CONDUIT HANGERS, RODS, INSERTS AND SUPPORTS. ZINC BASED PRIMER WITH FINISH TO MATCH SURROUNDINGS SHALL BE USED FOR MARKED SURFACES OF STEEL EQUIPMENT AND RACEWAYS. A FIELD-APPLIED ZINC BASED PRIME COAT SHALL BE UTILIZED FOR STEEL OR IRONWORK.
- H. BRUSH AND CLEAN WORK PRIOR TO CONCEALING, PAINTING AND ACCEPTANCE. PAINTED EXPOSED WORK SOILED OR DAMAGED; CLEAN AND REPAIR TO MATCH ADJOINING WORK BEFORE FINAL ACCEPTANCE. REMOVE DEBRIS FROM INSIDE AND OUTSIDE OF MATERIAL AND EQUIPMENT.
- I. FINAL LOCATIONS AND MOUNTING ORIENTATIONS OF ALL SWITCHES, RECEPTACLES AND LIGHT FIXTURES SHALL BE VERIFIED WITH ARCHITECT.
- J. PROVIDE ACCESS DOORS WHEN CONCEALED ELECTRICAL EQUIPMENT REQUIRES ACCESS. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
7. DEMOLITION
- A. SELECTIVE DEMOLITION: IS HEREBY DEFINED TO INCLUDE BUT IS NOT NECESSARILY LIMITED TO THE REMOVAL OF THE FOLLOWING EXISTING MATERIALS, ITEMS AND EQUIPMENT.
- 1) REFER TO ARCHITECTURAL AND ELECTRICAL DEMOLITION PLAN AND RELATED NOTES FOR EXTENT OF DEMOLITION.
- 2) REFER TO EXISTING DRAWINGS AND SITE CONDITIONS FOR ALL REMOVAL OF WORK NECESSARY FOR COMPLETION OF NEW WORK AS SHOWN. EACH BIDDER SHALL CAREFULLY EXAMINE THE PREMISES AND DOCUMENTS DURING THE BIDDING PERIOD AND ASCERTAIN THE EXTENT OF REMOVAL OF EXISTING WORK. IF ADDITIONAL WORK IS NOTED BY THE CONTRACTOR, CALL IT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING BID. BY SUBMITTING A BID, THE CONTRACTOR WILL HAVE DEMED TO HAVE MADE SUCH EXAMINATION, TO ACCEPT SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES IN PREPARING HIS BID.
- 3) ITEMS OF SALVAGE SHALL BE CAREFULLY REMOVED WITHOUT DAMAGE; NAILS AND OTHER FASTENERS REMOVED THAT ARE NOT INTEGRAL TO THEIR CONSTRUCTION; AND STORED AND PROTECTED AT LOCATIONS DIRECTED BY THE OWNER. IDENTIFY AND TAG ALL SALVAGE MATERIALS REGARDING LOCATION IN EXISTING BUILDING AND RELATIONSHIP OF PARTS.
- 4) PRESENT TO OWNER A COMPLETE LIST WITH ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS BEING REMOVED AND THEIR EXISTING CONDITION: INCLUDE ALL WIRING (WIRE SIZES AND TOTAL LENGTH), RACEWAYS (CONDUIT SIZE AND TOTAL LENGTH), LIGHTING FIXTURES (TYPE AND QUANTITY), WIRING DEVICES (QUANTITY OF RECEPTACLES AND LIGHTING CONTROL SWITCHES), PANELBOARDS (DISTRIBUTION, LIGHTING AND RECEPTACLES PANELBOARDS), LOCAL DISCONNECT SWITCHES, LOCAL CIRCUIT BREAKERS, FIRE ALARM DEVICES (PULL STATIONS, SMOKE DETECTORS, SPEAKER/STROBE DEVICES, ETC.), MOTOR STARTERS, AND OTHER ELECTRICAL EQUIPMENT. IN ADDITION, SHOW OWNER'S REPRESENTATIVE IN THE FIELD ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS BEING REMOVED ACCORDING TO THE LIST: THE OWNER IS ENTITLED TO TAKE POSSESSION OF ALL ELECTRICAL EQUIPMENT AND MATERIALS BEING REMOVED. REQUEST THE OWNER TO INDICATE VERBALLY IN THE FIELD AND/OR ON THE LIST WHICH ELECTRICAL EQUIPMENT AND MATERIALS WILL BE TAKEN BY THE OWNER AND DELIVER SUCH EQUIPMENT AND MATERIALS TO A STORAGE ROOM IN THE BUILDING AS DIRECTED BY THE OWNER.
- 5) ALL DEMOLISHED AND/OR REMOVED MATERIALS NOT REQUIRED BY OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED

FROM THE PREMISES, AND SHALL BE PROPERLY DISPOSED OF IN A LEGAL MANNER, OFF-SITE.

- 6) CARE MUST BE TAKEN NOT TO DISTURB EXISTING WIRING, WHICH IS NOT EFFECTED BY DEMOLITION. RESTORE ALL CIRCUITS AND EQUIPMENT DISRUPTED OR DISTURBED BY THE REMOVAL OF ONLY PARTS OF EXISTING SYSTEMS. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. ALARM AND EMERGENCY SYSTEMS SHALL NOT BE INTERRUPTED.
- 7) PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. TEMPORARY SHUTDOWNS WHEN REQUIRED ARE TO BE MADE ONLY WITH WRITTEN CONSENT OF OWNER AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION AND NO ADDITIONAL CHARGE.
- 8) CONNECT NEW WORK TO EXISTING IN A NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY BUILDING OWNER.
- 9) ALL RACEWAYS INDICATED TO BE REMOVED SHALL BE COMPLETELY DISCONNECTED AND REMOVED FOR THEIR ENTIRE LENGTH, FROM SOURCE TO THE LOAD SERVED. IF THE CONDUITS ARE CONCEALED IN WALLS OR SLABS AND IT IS IMPRACTICAL TO REMOVE RACEWAYS BACK TO SOURCE, DISCONNECT AT RACEWAYS AT BOTH ENDS AND REMOVE COMPLETE. ALL ASSOCIATED WIRING FOR THE ENTIRE LENGTH OF RACEWAYS CUT AND CAP EMPTY ABANDONED CONDUIT, FLUSH TO SURFACE. NO ABANDONED WIRING OR CABLES (POWER, LIGHTING, FIRE ALARM, TELECOMMUNICATIONS, SECURITY SYSTEMS WIRING, ETC.) SHALL BE LEFT WITHIN THE SCOPE OR OUTSIDE THE SCOPE OF WORK AREAS. FOR EXISTING RACEWAYS TO BE TO BE REWIRED, REMOVE ASSOCIATED WIRING, CLEAN RACEWAY AS REQUIRED PRIOR TO REWIRING.
- 10) ALL REQUIRED WORK FOR TIE-IN TO THE EXISTING ELECTRICAL SYSTEMS OR EQUIPMENT SHALL BE ACCOMPLISHED AFTER HOURS, THE EXACT DAY AND TIME SHALL BE DIRECTED BY OWNER, AND AT NO ADDITIONAL CHARGE.
8. CUTTING AND PATCHING
- A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF THE EXISTING AND NEW CONSTRUCTION WORK, WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH, AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.
- B. CORE BORING OF CONCRETE FLOORS AND/OR WALLS IF REQUIRED, SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
9. COORDINATION
- A. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EQUIPMENT WITH ARCHITECTURAL DRAWINGS. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS, AND MECHANICAL EQUIPMENT, VARIATIONS IN FIRE PROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS, AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSES TO THE OWNER.
10. EQUIPMENT FURNISHED BY OTHERS
- A. THE CONTRACTOR SHALL FURNISH AND INSTALL WIRING FOR EQUIPMENT FURNISHED BY OTHERS, AS SHOWN ON DRAWINGS. COORDINATE WITH ALL OTHER TRADES OR DETAILS FOR INSTALLATION. THE TERM "WIRING" AS USED HEREIN INCLUDES, BUT IS NOT LIMITED TO, FURNISHING AND INSTALLING CONDUIT, WIRE, JUNCTION BOXES, DISCONNECTS AND MAKING CONNECTIONS. CONTRACTOR SHALL CHECK ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER WIRING AND NECESSARY ELECTRICAL ADJUSTMENTS TO EQUIPMENT TO CONFORM TO SPECIFIED REQUIREMENTS OF THE EQUIPMENT.
11. LOW-VOLTAGE DISTRIBUTION EQUIPMENT:
- A. PROVIDE COMPLETE EQUIPMENT INCLUDING: DISCONNECT SWITCHES, FUSES, CIRCUIT BREAKERS, PANELS AND TRANSFORMERS, ETC., AS SHOWN ON THE DRAWINGS.
- B. ALL EQUIPMENT SHALL CONFORM TO NEMA, UL, ANSI AND IEEE STANDARDS AND NYC BSA APPROVALS.
- C. THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST TO PREPARE, SUBMIT AND OBTAIN APPROVAL FOR ALL SERVICE RELATED WORK AND OTHER FININGS.
- D. DISCONNECT SWITCHES SHALL BE FUSED OR NONFUSED AS NOTED ON THE DRAWINGS. WHERE REQUIRED, EACH DISCONNECT SWITCH SHALL BE PROVIDED WITH A NEUTRAL KIT AND A GROUND KIT IN ORDER TO ACCOMMODATE ALL ASSOCIATED INCOMING AND OUTGOING WIRES SHOWN ON THE DRAWINGS. VOLTAGE SHALL BE AS REQUIRED. SWITCHES SHALL BE HEAVY DUTY, LIFE SAFETY TYPE, LOCKABLE IN ON AND OFF POSITION EXCEPT AS NOTED, AND HORSEPOWER RATED FOR MOTOR LOADS. DISCONNECT SWITCH OPERATING HANDLE SHALL BE LOCKABLE IN OFF POSITION.
- TOGGLE TYPE SWITCHES SHALL BE NONFUSED, LOAD BREAK, UTILIZED WITH A MINIMUM RATING OF 20 AMP AT 60 VOLTS AND 30 AMP AT 240 VOLTS. TWO-POLE SWITCHES SHALL BE SIMILAR TO LEVITON MS 302. THREE-POLE SWITCHES SHALL BE SIMILAR TO LEVITON MS 303.
- KNIFE-BLADE TYPE SWITCHES SHALL BE LOAD BREAK, QUICK-MAKE-QUICK-BREAK WITH ARC QUENCHERS, UL CLASS R UP TO 600 AMP. SWITCHES SHALL BE SIMILAR TO GENERAL ELECTRIC CMR. ALL SWITCH ENCLOSURES SHALL BE DEAD FRONT, NEW TYPE 1, EXCEPT AS NOTED. DISCONNECT SWITCH OPERATING HANDLE SHALL BE LOCKABLE IN ON AND OFF POSITION.
- DISCONNECT SWITCHES APPROVED MANUFACTURERS: SQUARE D, SIEMENS, GE.
- E. QUALITY ASSURANCE
- 1) PANELBOARDS (DISTRIBUTION, LIGHTING AND RECEPTACLES): ELECTRICAL COMPONENTS, DEVICES AND ACCESSORIES LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION; COMPLY WITH NEMA PB1 2006, NFPA 70; COMPLY WITH UL 57 (PANELBOARDS) TWELFTH EDITION; COMPLY WITH UL 50 (CABINETS AND BOXES) TWELFTH EDITION; COMPLY WITH NATIONAL ELECTRICAL CODE 2017.
- F. FUSES:
- 1) CIRCUITS 0 TO 600 AMPERES SHALL BE PROTECTED BY FUSES SIMILAR TO CURRENT LIMITING BUSSMANN LOW-PEAK DUAL-ELEMENT TIME-DELAY LPN-RK (AMP) SP (250V) /LPS-RK (AMP) SP (600V) WITH REJECTION KIT IN ORDER NOT TO ALLOW REPLACEMENT WITH A DIFFERENT FUSE TYPE OR LPJ (AMP) SP (600V) (UL CLASS RK1), AND BE LISTED BY UL WITH AN INTERRUPTING RATING OF 200,000 AMPERES RMS SYMMETRICAL.
- 2) MOTOR CIRCUITS - ALL INDIVIDUAL MOTOR CIRCUITS WITH FULL LOAD AMPERE RATINGS (FLA) OF 480 AMPERES OR LESS SHALL BE PROTECTED BY FUSES SIMILAR TO CURRENT LIMITING BUSSMANN LOW-PEAK DUAL-ELEMENT TIME-DELAY LPN-RK (AMP) SP (250V) /LPS-RK (AMP)SP (600V) WITH REJECTION KIT IN ORDER NOT TO ALLOW REPLACEMENT WITH A DIFFERENT FUSE TYPE OR LPJ (AMP)SP (600V) (UL CLASS RK1), AND BE LISTED BY UL WITH AN INTERRUPTING RATING OF 200,000 AMPERES RMS SYMMETRICAL. ALL FUSES SERVING MOTOR BRANCH CIRCUITS SHALL BE DUAL ELEMENT, TIME DELAY CLASS RK5.

PURCHASE COLLEGE

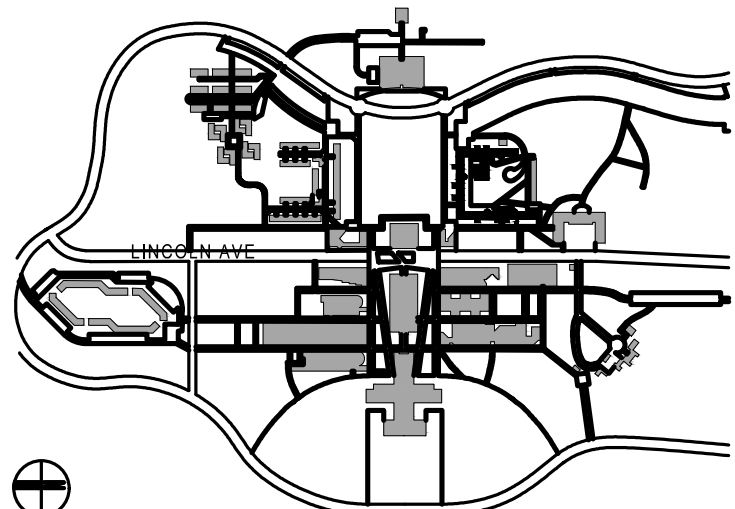
STATE UNIVERSITY OF NEW YORK

RESIDENTIAL COMPLEX A

DINING HALL RENOVATION

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KEY PLAN



CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS & DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUANTITY OF WORK. NO ALLOWANCES SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

BUILDING DEPARTMENT NOTE:
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

02	05.14.2024	ISSUED FOR BID
01	04.26.2024	ISSUED FOR CLIENT REVIEW
NO	DATE	DESCRIPTION
ISSUES		
SEAL:		

ISSUE:	02	05.14.2024	ISSUED FOR BID
	01	04.26.2024	ISSUED FOR CLIENT REVIEW
	NO	DATE	DESCRIPTION

ISSUES
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SCALE: AS NOTED	PROJECT NO: 2403	DATE: 03.25.2024
DRAWING TITLE:		
ELECTRICAL SPECIFICATIONS		
SHEET 1 OF 3		
DRAWING NUMBER	DRAWING 01 OF XX	

E-200.00

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