

**ADDENDUM
NO. 01**

February 14, 2025

**Three Rivers Community Schools
High School PAC Lighting and AV Upgrades
700 Sixth Avenue
Kalamazoo, MI 49093**

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated October 8, 2024 by GMB + Engineering. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-2 through ADD 1- 1 and GMB + Engineering Addendum No 001 dated, February 4, 2025, consisting of 1 page, and Addendum No. 002 dated February 14, 2025, consisting of 2 pages, and added Drawings.

A. SPECIFICATION SECTION 00 00 10 TITLE PAGE

1. Revise Bids Received to Wednesday, March 5, 2025, at 2:00 PM.

B. SPECIFICATION SECTION 00 00 10 TITLE PAGE

1. Revise Bids Received to Wednesday, March 5, 2025, at 2:00 PM.
2. Bid Opening. Bids will be publicly opened and read aloud on Wednesday, March 5, 2025, shortly after the 2:00 PM Bid receipt deadline, in Three Rivers Community Schools Administration Building, 851 Sixth Avenue, Three Rivers, MI, 49093.

C. SPECIFICATION SECTION 00 00 20 – TABLE OF CONTENTS

Add

1. Section 23 05 00 - HVAC Summary of Work.

D. **SPECIFICATION SECTION 01 12 00 – MULTIPLE CONTRACT SUMMARY**

Paragraph 3.02 GENERAL REQUIREMENTS

B. **PROVIDED BY OWNER THROUGH THE CONSTRUCTION MANAGER**

Add the following Specification Section

1. Section 23 05 00 - HVAC Summary of Work.

E. **SPECIFICATION SECTION 01 32 00 – SCHEDULES AND REPORTS**

1. Construction to commence on May 29, 2025, and be completed by August 29, 2025.

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INTRODUCTORY INFORMATION

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		Geotechnical Data
	00 30 50	Bidder Reminder List
	00 31 00	Bid Form
	00 37 00	Standard Forms
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	00 50 00	Standard Form of Agreement
		AIA 132 Exhibit A Insurance & Bonds
		Schedule of Insurance Requirements
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DIVISION 1 - GENERAL REQUIREMENTS

Section	01 00 01	Electronic Model/Drawing File Exchange Agreement
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	01 23 00	Alternates
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	01 28 00	Schedule of Values
	01 29 00	Application for Payment
	01 31 00	Project Meetings
	01 32 00	Schedules and Reports
	01 33 00	Submittal Procedures
	01 40 00	Quality Requirements
	01 45 10	Testing Lab Services
	01 50 50	Temporary Facilities and Controls
	01 52 60	Rubbish Container
	01 54 60	Environmental Protection
	01 54 80	Utility Protection
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01 59 10	Project Office
01 59 20	Offices and Sheds
01 60 00	Product Requirements
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DIVISION 23 - MECHANICAL

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	26 05 29	Hangers And Supports For Electrical Systems
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	26 05 33.16	Boxes For Electrical Systems
	26 05 33.23	Surface Raceways For Electrical Systems
	26 05 44	Sleeves And Sleeve Seals For Electrical Raceways And Cabling
	26 05 53	Identification For Electrical Systems
	26 05 83	Wiring Connections
	26 08 00	Commissioning Of Electrical Systems
	26 09 23	Lighting Control Devices
	26 09 61	Theatrical Lighting Controls
	26 22 13	Low-Voltage Distribution Transformers
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	26 27 26	Wiring Devices
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DIVISION 27 - COMMUNICATIONS

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	27 41 10	Training For Audio-Video Systems
	27 41 16	Integrated Audio-Video Systems
	27 41 25	Audio-Video Control Systems
	27 05 05	Selective Demolition For Communications
	27 05 28	Pathways For Communications Systems

END OF SECTION 00 00 20

SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Prime Contract, including amended General Conditions and other Division 1 Specification Sections, apply to Work of this Section.

1.02 SUMMARY

- A. The intent of this Section is to indicate the Work required by the Contractors and to provide information regarding the duties, responsibilities, and cooperation required by the Contractors, with similar requirements for the subcontractors and suppliers.
- B. Owners right to maintain current operations
- C. Occupancy requirements
- D. Work by Owner
- E. Permits, fees, and notices
- F. Labor and materials
- G. Verifications of existing dimensions
- H. Project security
- I. Coordination of work
- J. Time of commencement and completion
- K. Schedule of contract responsibilities

1.03 WORK UNDER SEPARATE CONTRACTS

- A. Prime Contracts are defined to include the following contracts described in the Schedule of Contract Responsibilities included hereinafter; and each is recognized to be a major part of the project, with Work to be performed concurrently and in close coordination with Work of other Prime Contracts.
- B. The "Contract Documents," as defined in the General Conditions, include "the Drawings." Although Drawings are grouped and identified by classification of the Work, Contractors shall be responsible for their Work as specified herein and as

indicated on the Drawings. Although the majority of the Drawings are "to scale," Contractors are directed to use indicated dimensions for determining material quantities and for other reasons. No additional monies will be allowed due to Contractors using "scaling instruments" to determine material quantities or for other reasons.

- C. Separate prime contracts will be awarded as per the "**Schedule of Contract Responsibilities**" (see Part 3 – Execution). Contractors shall include Work required by the Specifications and Drawings for each contract area defined in the Schedule.
- D. Work for the complete construction of the Project will be under multiple prime contracts with the Owner. The Construction Manager will manage the construction of the Project.
- E. Each Contractor shall be responsible for demolition and disposal of existing items relative to his Contract.

1.04 ADMINISTRATIVE RESPONSIBILITIES OF PRIME CONTRACTORS AND CM

- A. The Construction Manager shall be responsible for the maintenance of the Construction Schedule and management of every phase of the Work.
 - 1. Each Contractor shall read the Specifications and Drawings for other separate Contracts for fixed equipment and the like to be incorporated or attached or built in to the Work; and familiarize himself with the requirements and responsibilities of other Contracts to enable the required coordination and supervision.
 - 2. Each Contractor shall also familiarize himself with other items to be incorporated into the Work including equipment and Work by the Owner.
 - 3. Each Contractor shall cooperate with the Construction Manager in notifying him when the Work is at a stage to require the services of other Contractors and shall notify the Construction Manager in the event that such other Contractors do not carry out their responsibilities in connection with such notification.
- B. Contractors shall cooperate with and assist the Construction Manager in the preparation of construction progress and procedures, schedule of product deliveries, and their effect on the overall project progress and completion. Other Contractors shall cooperate in getting their Work and the Work of their subcontractors completed according to the schedule as prepared and maintained by the Construction Manager. Each Contractor shall immediately notify the Construction Manager of a delay in delivery of products or the scheduled date of completion that may affect the total progress of construction.
- C. The Owner will furnish the topographical survey, either as a part of these Drawings or separately, giving the general topographical lines existing at the site and the property lines.

- D. Contractors required to make connections to existing utilities, especially sewerage where gravity flow occurs, shall verify grades and locations at points of such connections and shall notify the Construction Manager of circumstances which would adversely affect the proper flow or connection to such facilities.

1.05 PRIME CONTRACTORS USE OF PREMISES

- A. General: During the construction period, the Prime Contractors jointly shall have full use of the premises for construction operations, including use of the site. Each Prime Contractor's use of the premises is limited only by the Owner's right to perform work or to retain other Contractors on portions of the Project.

1.06 OWNERS RIGHT TO MAINTAIN OPERATIONS

- A. During the course of this Project, normal and customary functions and operations must be maintained. The Contract Documents are intended to define a strict separation between the school activities of students and staff from the activities of the construction project.
- B. The Construction Manager, Architect, and Owner will not tolerate any visible or audible actions initiated or responded to by any employees of Contractors on this Project toward any students, teachers, or staff members at the school system. Violators shall be promptly removed from the site.
- C. The Owner intends to instruct students, teachers, and staff to refrain from communications with Contractor's personnel working on this Project. All communication with Owner and staff shall be through the Construction Manager.
- D. Contractors must expend their best effort toward protection of the health, safety, and welfare of occupants on the Owner's property during the course of Work on this Project.
- E. Contractors and Subcontractors shall be subject to such rules and regulations for the conduct of the Work as the Owner may establish. Employees shall be properly and completely clothed while working. Bare torsos, legs and feet will not be allowed. Possession or consumption of alcoholic beverages or drugs, tobacco or other noxious behavior on the site is strictly prohibited. Violators shall be promptly removed from the site. Smoking is not permitted on school property or within school buildings.

1.07 OCCUPANCY REQUIREMENTS

- A. Full Owner Occupancy: The Owner will occupy the site and existing building during the entire construction period. Cooperate with the Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with the Owner's operations.

- B. Partial Owner Occupancy: The Owner reserves the right to occupy and to place and install equipment in completed areas of the building prior to Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.
1. The Construction Manager will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner occupancy.
 2. Party which obtained general building permit shall obtain a Certificate of Occupancy from local building officials prior to Owner occupancy.
 3. Prior to partial Owner occupancy, mechanical and electrical systems shall be fully operational. Required inspections and tests shall have been successfully completed. Upon occupancy, the Owner will operate and maintain mechanical and electrical systems serving occupied portions of the building.
 4. Upon occupancy, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building.

1.08 WORK BY OWNER

- A. The Owner intends to complete the following items of Work outside the provisions of these Contract Documents. Contractors shall not restrict or interfere with the Owner's right to the Project to accomplish this Work.
1. Equipment and furniture except as scheduled and specified under Divisions 11 and 12 and shown on the Drawings.
 2. Items which may be deleted from Contracts for Work as required by the Contract Documents.
 3. Existing school maintenance work.
 4. The purchase and supplying of certain materials as noted in the Project Manual.
 5. The Owner, under separate contract, shall provide removal of identified asbestos containing materials from the existing structure. The asbestos report is available through the Construction Manager upon request.
 6. (List other items as may be applicable).

1.09 PERMITS, FEES, AND NOTICES

- A. Bid Category No. 1 General Trades Contractor will secure the general building permit for the Owner. Each Contractor shall secure and pay for other permits, governmental fees, and licenses necessary for the proper execution and completion of the Contractors Work. Fees to relocate utilities on Owner's property shall be included in the bid of the Contractor doing the relocation.
1. The Owner shall pay for the cost of the Building Permit.
 2. State filing fees for plan approval are the responsibility of the Owner and will be paid by the Owner.

- B. Utility Tie-Ins: Shall be arranged with local utility company and other involved parties for minimum interruption of service.
- C. Shutdowns of existing systems shall be limited to minimum time required and scheduled with other involved parties. Provide 2 days written notice of shutdown to Construction Manager and Owner.
- D. Inspections of installed work shall be performed by the governing authority as arranged for by the Contractor. Work shall not be covered until approved.
- E. Each Contractor shall give notices and comply with laws, ordinances, rules, regulations, and orders of public authorities bearing on the performance of his Work. If a Contractor observes that the Contract Documents are at variance therewith, he shall promptly notify the Construction Manager in writing, and necessary changes shall be adjusted by appropriate notification. If a Contractor performs Work knowing it to be contrary to such laws, ordinances, rules, and regulations, and without such notice to the Construction Manager, he shall assume full responsibility therefore and shall bear the costs attributable thereto.

1.10 LABOR AND MATERIALS

- A. Unless otherwise specifically noted, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of his Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.
- B. Each Contractor shall enforce strict discipline and good order among his employees or other persons carrying out Work of his Contract and shall not permit employment of unfit person or persons or anyone not skilled in the task assigned to them.
- C. Prime Contractors must furnish a letter to the Construction Manager, stating that Contractor shall not assign any of its employees, agents or other individuals to perform any services in the District's facilities or program sites if that individual:
 - 1. Is listed on the Michigan Sex Offender Registry, www.mipsor.state.mi.us.
 - 2. Is listed on the Federal Sex Offender Registry www.nsopw.gov.
 - 3. Has not passed a 5-50 drug screen, testing negative for the following drugs:
 - a. Amphetamines
 - b. Methamphetamines
 - c. Cocaine
 - d. Codeine
 - e. Methadone
 - f. Morphine
 - g. Phencyclidine (PCP)
 - h. Marijuana

- D. ID Stickers will be issued by The Skillman Corporation upon receipt of verification from the Contractor that the employee/subcontractor employee or independent contractor has a satisfactory record to work on the Project. Stickers will be numbered and numbers assigned to each worker to be worn on their hardhat. It is the Contractor's responsibility to maintain a record of contractor's name assigned each number and provide to The Construction Manager upon request.
- E. Consistent with Michigan law, possession or consumption of drugs on school property will promptly be reported to the local police. Consumption of alcoholic beverages or tobacco or other noxious behavior on school owned property is strictly prohibited. Violators shall be promptly removed from the site. Smoking is not permitted on school property or within school buildings.

1.11 CUTTING AND PATCHING

- A. Refer to Section 01 73 10 – Cutting and Patching, for provisions on this subject.

1.12 VERIFICATIONS OF EXISTING DIMENSIONS

- A. When verification of existing dimensions is required, the Contractor requiring said verification for the construction or fabrication of his material shall be the Contractor responsible for the procurement of the field information.

1.13 PROJECT SECURITY

- A. Each Prime Contractor shall take all reasonable precautions to prevent injury, damage or loss to people and property in, on and adjacent to the project. This shall include not only their own work or property but that of other contractors and the Owner.
- B. If deemed necessary by The Construction Manager a project wide security program may be developed for the purpose of preventing damage or loss at the project site or property adjacent thereto. Once accepted by the Owner, contractors shall comply.

1.14 SCHEDULE OF CONTRACT RESPONSIBILITIES - SCOPE

- A. Contractors shall submit their proposals based on the work included under each contract area as listed herein. Include Work necessary for a complete project, as shown on the Drawings and called for in the Specifications.
- B. Questions concerning the phasing or "Schedule of Contract Responsibilities" should be directed to the Construction Manager, who will be the interpreter and be responsible for this Schedule of Contract Responsibilities and Contract Breakdown, prior to submitting proposals and during construction.

- C. The requirements of Division 1 are a part of the Work of each and every contract area. The Contractor for any one contract area shall be familiar with the Work and requirements of all other contract areas.
- D. Certain Specification Sections describe Work to be performed under several contract areas. (Example: 06 10 00 - Rough Carpentry.) Provide Work of this nature as required for each contract area whether or not enumerated in the Schedule of Contract Responsibilities.
- E. The following contract areas are broken down by Specifications Section conforming basically to the CSI format.
- F. The Drawings and Specifications as furnished for each of the Contracts is for the convenience of the Contractor in preparing a proposal for this Project. However, each Contractor is responsible to review the complete set of Drawings and Specifications to assure that Work required to be installed to complete his phase of the Work is included in his proposal. This "Schedule of Contract Responsibilities" is a definition of the work as it is to be bid in separate contracts. Where a specific item of Work is not defined, but is normally inherent to a trade, or is included in the scope of the applicable technical revision, it will be the responsibility of that Contractor to include the Work in his proposal.
- G. This "Schedule of Contract Responsibilities" is to aid each Contractor in defining the Scope of Work to be included in his proposal. However, omissions from this "Schedule of Responsibilities" do not relieve the Contractor from including in his proposal that Work which will be required to complete his Contract. Each Contractor should read the "Schedule of Contract Responsibilities" completely to familiarize himself with the Work of other Contractors that may have Work in adjacent areas and to coordinate the interfacing problems that may occur as the work is assembled and constructed.
- H. Where specific Work is to be completed under a particular phase of the Project and the Work is wholly or partially completed by other trades because of the type of work involved or jurisdictional trade agreements, the Contractor will be responsible to subcontract the Work as necessary to complete the Work included in his Contract. No delay in the Work will be allowed due to the failure of the Contractor to subcontract related work required by jurisdictional trade agreements.

1.15 COORDINATION OF WORK

- A. Each Contractor is responsible to coordinate his Work with the Work of other trades and other Contractors and requirements of the school system. The Contractor must make space allowances for Work of other Contractors, provide necessary openings where indicated or implied by the Drawings and Specifications. Each Contractor is responsible to protect his own Work.

1.16 TIME OF COMMENCEMENT AND COMPLETION

- A. The Contractor shall commence work within ten (10) days after being notified in writing to proceed and shall complete the Work within the time limitations established in the Form of Agreement.
1. It is anticipated that construction will start within 85 calendar days after receipt of bids.
 2. Construction shall be complete within 165 consecutive calendar days, or earlier, after Notice to Proceed.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION

3.01 SCHEDULE OF CONTRACT RESPONSIBILITIES

3.02 GENERAL REQUIREMENTS

A. PROVIDED BY OWNER THROUGH THE CONSTRUCTION MANAGER

Section	01 32 00	Schedules and Reports
Section	01 52 60	Rubbish Container
Section	01 59 10	Project Office
Section	01 71 50	Final Cleaning
Section	23 05 00	HVAC Summary of Work.

B. PROVIDED BY ALL CONTRACTORS AS APPLICABLE

Section	01 12 00	Multiple Contract Summary
Section	01 2 300	Alternates
Section	01 25 00	Contract Modification Procedures
Section	01 28 00	Schedule of Values
Section	01 29 00	Applications for Payment
Section	01 31 00	Project Meetings
Section	01 32 00	Schedules and Reports
Section	01 33 00	Submittal Procedures
Section	01 50 50	Temporary Facilities and Controls
Section	01 56 90	Housekeeping & Safety
Section	01 59 20	Offices and Sheds
Section	01 60 00	Product Requirements
Section	01 72 50	Work Layout
Section	01 73 10	Cutting and Patching
Section	01 77 00	Contract Closeout

All Contractors shall provide their Superintendents with radios capable of handling multiple channels and compatible with radios used by the Construction Manager.

Autodesk Build has replaced **PlanGrid**. **Autodesk Build** does not require users to purchase a license. **Contractors** will be invited to the project and required to use this tool. **Autodesk Build** will be used as the **Current Set** and **As-Built Record Drawings**. Additionally, it will be used to track **Issues for Safety, QA/QC, Non-Compliance Issues, Work Completion List** and **Punch List**.

- C. PROVIDED BY DESIGNATED CONTRACTORS
 Section 01 21 00 Allowances

3.03 **BID CATEGORIES**

A. **BID CATEGORY NO. 1 - ELECTRICAL**

General Requirements in Paragraph 3.02.B above.

- | | | |
|---------|-------------|--|
| Section | 01 21 00 | Allowances |
| Section | 07 84 13 | Firestopping |
| Section | 07 92 00 | Joint Sealants |
| Section | 09 90 01 | Mechanical Electrical Painting |
| Section | 26 05 00 | Common Work Results For Electrical |
| Section | 26 05 05 | Selective Demolition For Electrical |
| Section | 26 05 19 | Low-Voltage Electrical Power Conductors And Cables |
| Section | 26 05 26 | Grounding And Bonding For Electrical Systems |
| Section | 26 05 29 | Hangers And Supports For Electrical Systems |
| Section | 26 05 33.13 | Conduit For Electrical Systems |
| Section | 26 05 33.16 | Boxes For Electrical Systems |
| Section | 26 05 33.23 | Surface Raceways For Electrical Systems |
| Section | 26 05 44 | Sleeves And Sleeve Seals For Electrical Raceways And Cabling |
| Section | 26 05 53 | Identification For Electrical Systems |
| Section | 26 05 83 | Wiring Connections |
| Section | 26 08 00 | Commissioning Of Electrical Systems |
| Section | 26 09 23 | Lighting Control Devices |
| Section | 26 09 61 | Theatrical Lighting Controls |
| Section | 26 22 13 | Low-Voltage Distribution Transformers |
| Section | 26 24 16 | Panelboards |
| Section | 26 27 26 | Wiring Devices |
| Section | 26 28 13 | Fuses |
| Section | 26 28 16 | Enclosed Switches And Circuit Breakers |
| Section | 26 43 13 | Surge Protective Devices For Low-Voltage Electrical Power Circuits |
| Section | 26 51 19 | Led Interior Lighting |

B. BID CATEGORY NO. 2 - COMMUNICATIONS

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	07 84 13	Firestopping
Section	07 92 00	Joint Sealants
Section	27 41 00	General Conditions For Audio-Video Systems
Section	27 41 10	Training For Audio-Video Systems
Section	27 41 16	Integrated Audio-Video Systems
Section	27 41 25	Audio-Video Control Systems
Section	27 05 05	Selective Demolition For Communications
Section	27 05 28	Pathways For Communications Systems

END OF SECTION 01 12 00

SECTION 23 05 00 - HVAC SUMMARY OF WORK

PART 1 - GENERAL

1.1 SUMMARY OF WORK

- A. Contractor shall provide all labor, materials, equipment, permits, inspection fees, utility company charges, supervision and other items indicated in the contract General Conditions necessary to yield completely operable and tested systems as shown on the drawings and as specified herein. The Work includes, but is not limited to, the following:
- B. HVAC
 - 1. Modifications to the existing ducts per drawing and notes
- C. Equipment identification.
- D. Mechanical insulation for ductwork.
- E. Touch-up painting of damaged materials furnished by this contractor and damaged prior to Owner occupancy. All materials shall match original color and finishes. All work shall be done by experienced field tradesmen.
- F. Protection of new and existing finishes and surfaces. Protect finished surfaces from damage due to mechanical work, including walls, floors, ceilings and roof.
- G. Cleaning of installed systems.
- H. Cleanup associated with work of respective trades.
- I. Testing, adjusting and balancing of new systems and equipment.
- J. Testing, adjusting and balancing of existing systems and equipment, where indicated.
- K. Provide As-Built Drawings at the completion of work.
- L. Operation and Maintenance Manuals.
- M. All new equipment shall comply with the testing agency listing and labeling requirements of the current edition of all applicable state and local codes.
- N. Equipment of each category shall be provided by single manufacturer.
- O. No asbestos or mercury containing materials, materials capable of discharging lead into potable water or air systems, or materials capable of releasing other hazardous substances to the facility air environment, drainage systems or water systems shall be used.
- P. Equipment schedules are provided as a convenience to the Contractor, but do not relieve the Contractor of his responsibility to furnish all equipment shown on the drawings and indicated in the specifications.
- Q. Coordination with all other trades. The Contractor shall assist in the field layout and coordination of equipment and ductwork installation and their relation with other trades at no additional cost to the Owner.
- R. Provide minimum one (1) year warranty against defects for materials and installation, unless otherwise indicated.
- S. Cost of state and/or local Mechanical permits, as required.
- T. Job site safety is the responsibility of the contractor. The architect/engineer bears no responsibility for job-site safety.
- U. Owner training in the operation and maintenance of installed equipment and systems. Using the Operating and Maintenance manuals, balancing report data, and contract drawings and specifications, the contractor shall instruct the Owner's representative(s) in the proper operation and maintenance of the equipment and systems installed to their mutual satisfaction. This activity shall take place near the point of substantial completion and will be considered a punch list item.

END OF SECTION

ADDENDUM



OWNER

THREE RIVERS COMMUNITY SCHOOLS

PROJECT

HIGH SCHOOL MUSIC AREA RENOVATION
BID PACKAGE 2

A/E Project 5-5834

PURPOSE

ADDENDUM 002

THIS ADDENDUM SHALL FORM PART OF THE BIDDING DOCUMENTS. CHANGES, ADDITIONS, CLARIFICATIONS OR DELETIONS HEREIN SUPERSEDE THE DRAWINGS AND SPECIFICATIONS. BIDDERS SHALL INCLUDE ON THE PROPOSAL FORM ACKNOWLEDGEMENT OF THE RECEIPT OF THIS ADDENDUM.

ATTACHMENTS

Reissued Sheets: E1.3G, E5.11

ARCHITECT-ENGINEER

GMB

www.gmb.com

616.796.0200

CONSTRUCTION MANAGER

THE SKILLMAN CORPORATION

www.skillman.com

269.350.5757

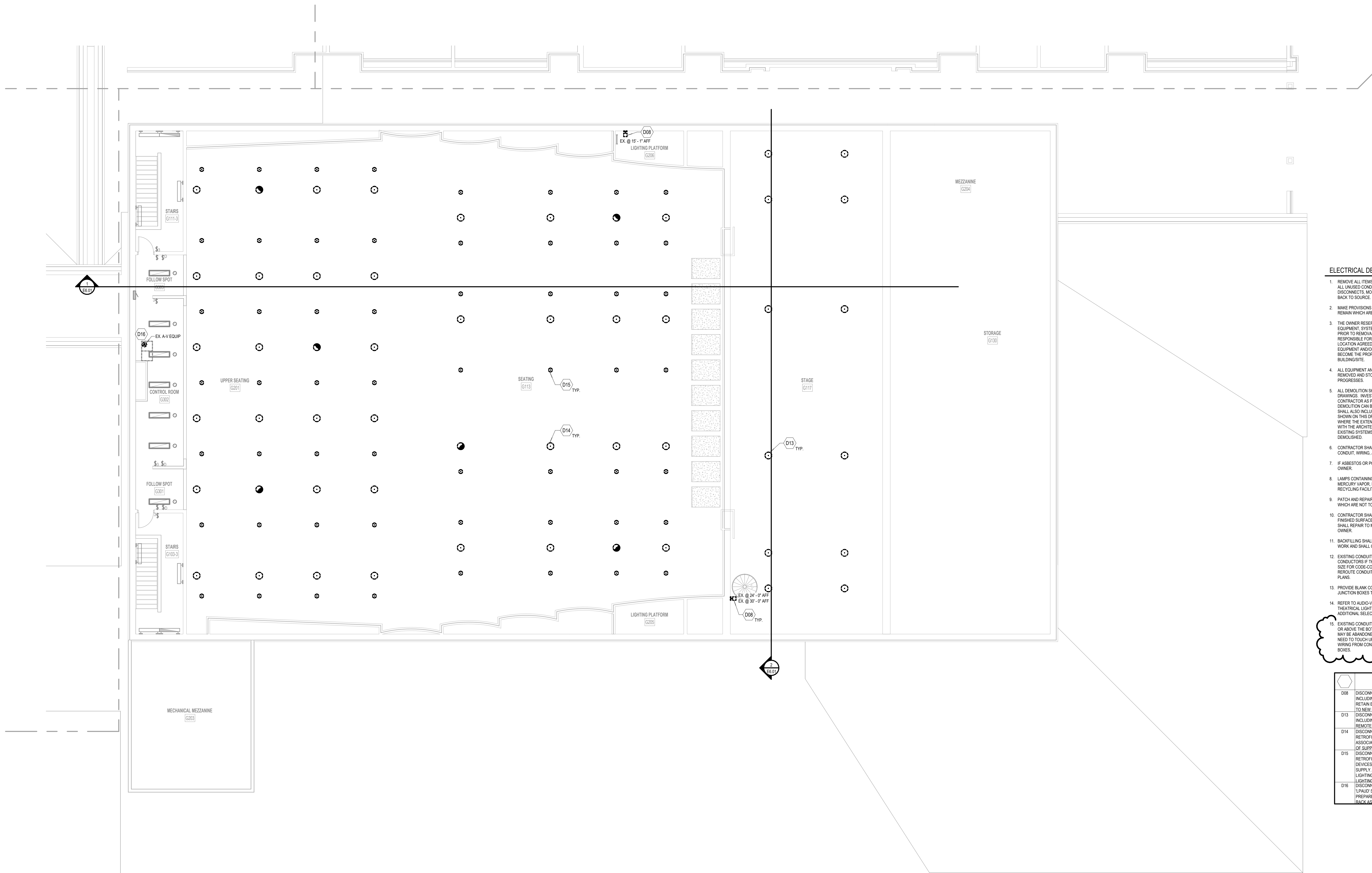
SHEET CLARIFICATIONS / REVISIONS

ITEM NO. 1 **SHEET E1.3G – UNIT 'G' MEZZANINE LEVEL ELECTRICAL DEMOLITION PLAN**
(REISSUED)

Added an Electrical Demolition General Note to permit certain existing conduits/raceways/boxes to be abandoned in place if not re-used.

ITEM NO. 2 **SHEET E5.11 – LIGHTING FIXTURE, CONTROL, & ENERGY SCHEDULES**
(REISSUED)

Added manufacturer / catalog number approvals and line item notes to the Lighting Fixture Schedule.

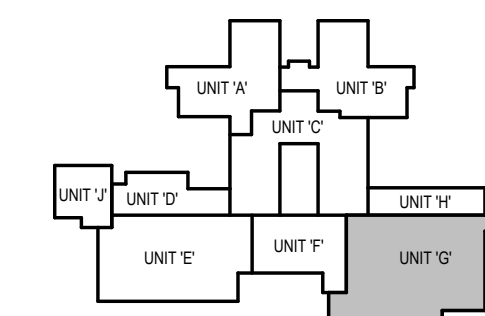


- ELECTRICAL DEMOLITION GENERAL NOTES**
- REMOVE ALL ITEMS SHOWN ON DEMO PLAN, UNLESS OTHERWISE NOTED. REMOVE ALL UNUSED CONDUIT, RACEWAYS, WIRE, CABLE, CONTROLS, JUNCTION BOXES, DISCONNECTS, MOUNTS, AND RELATED ELECTRICAL ACCESSORIES COMPLETELY BACK TO SOURCE. REFER TO DEMOLITION SPECIFICATION.
 - MAKE PROVISIONS TO BACKFEED OR RE-CIRCUIT ANY ITEMS THAT ARE EXISTING TO REMAIN WHICH ARE AFFECTED BY THE DEMOLITIONS.
 - THE OWNER RESERVES THE RIGHT TO SALVAGE WHOLE OR IN PART ANY EQUIPMENT, SYSTEMS, AND/OR MATERIALS THAT ARE SCHEDULED FOR DEMOLITION PRIOR TO REMOVAL FROM THE BUILDINGSITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTION AND GATHERING OF SUCH ITEMS TO A CENTRAL LOCATION AGREED UPON BY THE OWNER AND CONTRACTOR. ALL REMAINING EQUIPMENT AND/OR MATERIALS REMOVED AND NOT REUSED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE BUILDINGSITE.
 - ALL EQUIPMENT AND/OR MATERIALS SLATED FOR REUSE SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE AND REINSTALLED AS WORK PROGRESSES.
 - ALL DEMOLITION SHOWN IS GATHERED FROM FIELD OBSERVATION AND/OR RECORD DRAWINGS. INVESTIGATION OF EXISTING SYSTEMS WILL BE REQUIRED BY THE CONTRACTOR AS PART OF THE BID PRICE, SO THAT THE EXACT EXTENT OF DEMOLITION CAN BE ACCURATELY DETERMINED. THE CONTRACTOR'S BID PRICE SHALL ALSO INCLUDE REMOVAL OF SOME PORTIONS OF SYSTEMS NOT EXPLICITLY SHOWN ON THIS DRAWING, BUT DISCOVERED DURING THE INVESTIGATION PROCESS. WHERE THE EXTENT OF DEMOLITION IS UNCLEAR, THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT/ENGINEER AND OWNER TO DETERMINE WHICH PORTIONS OF EXISTING SYSTEMS MUST REMAIN ACTIVE AND WHICH PORTIONS MUST BE DEMOLISHED.
 - CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATION AND SIZES OF EXISTING CONDUIT, WIRING, AND EQUIPMENT.
 - IF ASBESTOS OR PCB MATERIAL IS ENCOUNTERED IT WILL BE REMOVED BY THE OWNER.
 - LAMPS CONTAINING MERCURY (FLUORESCENT, METAL HALIDE, SODIUM VAPOR, MERCURY VAPOR, ETC.) SHALL BE DISPOSED OF IN A PROPER HAZARDOUS WASTE RECYCLING FACILITY.
 - PATCH AND REPAIR ALL FLOOR, WALL AND CEILING OPENINGS DUE TO DEMOLITION WHICH ARE NOT TO BE RE-USED TO MATCH EXISTING CONSTRUCTION.
 - CONTRACTOR SHALL PROTECT ALL WALLS, CEILINGS, FLOORS, LIGHTS, AND OTHER FINISHED SURFACES THAT ARE NOT TO BE REMOVED. IF DAMAGED, CONTRACTOR SHALL REPAIR TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
 - BACKFILLING SHALL PROMPTLY FOLLOW UNDERGROUND DEMOLITION OR REMOVAL WORK AND SHALL CONTINUE AS THE DEMOLITION PROGRESSES.
 - EXISTING CONDUIT SYSTEMS MAY BE REUSED FOR THE INSTALLATION OF NEW CONDUCTORS IF THEY ARE FOUND TO BE IN GOOD CONDITION AND OF APPROPRIATE SIZE FOR CODE-COMPLIANT INSTALLATION OF THE NEW CONDUCTORS. REUSE / REROUTE CONDUIT AS NECESSARY TO PROVIDE FEEDS PER POWER AND/OR LIGHTING PLANS.
 - PROVIDE BLANK COVER OVER ANY ABANDONED AND REMAINING ROUGH-INS OR JUNCTION BOXES TO MATCH EXISTING.
 - REFER TO AUDIO/VIDEO SYSTEMS DEMOLITION PLAN (TA10) "SERIES" DRAWINGS AND THEATRICAL LIGHTING DEMOLITION PLANS (TL10) "SERIES" DRAWINGS FOR ADDITIONAL SELECTIVE DEMOLITION SCOPE.
 - EXISTING CONDUIT, STRUT RACEWAY SYSTEMS, AND RELATED JUNCTION BOXES AT OR ABOVE THE BOTTOM CHORD OF ROOF TRUSSES IN AUDITORIUM SEATING AREA MAY BE ABANDONED IN PLACE IN AN EFFORT TO REDUCE THE DEMOLITION LABOR AND NEED TO TOUCH UP FINISH PAINTING OF SURFACES. REMOVE ALL ABANDONED WIRING FROM CONDUITS/RACEWAYS AND REINSTALL PAINTED COVERS OF JUNCTION BOXES.

ELECTRICAL KEYNOTES	
D08	DISCONNECT AND REMOVE WALL STEPIABLE LIGHTING FIXTURES, INCLUDING LOUVER FACEPLATE, LAMP, AND INTERIOR SOCKET/BACKET. RETAIN BACKBOX IN WALL AND ASSOCIATED WIRING FOR RECONNECTION TO NEW RETROFIT LIGHTING FIXTURE AS INDICATED ON LIGHTING PLANS.
D13	DISCONNECT AND REMOVE ALL STAGE METAL HALIDE WORKLIGHTS INCLUDING HANGING HARDWARE, ASSOCIATED CIRCUIT WIRING, AND REMOTE BALLASTS IN MEZZANINE G204 BACK TO SOURCE OF SUPPLY.
D14	DISCONNECT AND REMOVE ALL AUDITORIUM METAL HALIDE (INDUCTION RETROFIT) WORKLIGHTS INCLUDING HANGING HARDWARE AND ASSOCIATED CIRCUIT WIRING AND CONTROL DEVICES BACK TO SOURCE OF SUPPLY.
D15	DISCONNECT AND REMOVE ALL AUDITORIUM QUARTZ HALOGEN (LED RETROFIT) DOWNLIGHTS INCLUDING HANGING HARDWARE, CONTROL DEVICES, AND ANY ABANDONED CIRCUIT WIRING BACK TO SOURCE OF SUPPLY. WIRING MAY BE RETAINED FOR RECONNECTION TO NEW LIGHTING FIXTURES IN THE NEW CIRCUIT ARRANGEMENT AS INDICATED ON LIGHTING PLANS.
D16	DISCONNECT BY 20A 120VAC BRANCH CIRCUITS FROM EXISTING PANEL (PANEL SERVING EQUIPMENT IN AUDIO RACKS) TO BE DEMOLISHED; PREPARE TO RECONNECT (B) CIRCUITS AT NEW AUDIO/VIDEO EQUIPMENT RACK AS INDICATED ON POWER AND AUDIO/VIDEO PLANS.

← **UNIT 'G' MEZZANINE LEVEL ELECTRICAL DEMOLITION PLAN**
 1/8" = 1'-0"

← **KEYPLAN**



ISSUANCES
 10.08.2024 BIDS & CONSTRUCTION
 02.14.2025 ADDENDUM 002

DRAWN MCK
 REVIEWED JFB
 PROJECT NO. 5-5834
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UNIT 'G' MEZZANINE LEVEL
 ELECTRICAL DEMOLITION
 PLAN

E1.3G

TYPE / TAG	DESCRIPTION	APPROVED MANUFACTURERS & CATALOG NUMBERS			FINISH	MOUNTING	LIGHT SOURCE		INPUT VOLTAGE (V)	INPUT POWER (W)	NOTES
		BASIS	EQUIVALENT #1	EQUIVALENT #2			MIN. DELIVERED LUMENS	TYPE			
C1	6" APERTURE ROUND CYLINDER DOWNLIGHT, 45 DEGREE BEAM ANGLE (SMH=7) DISTRIBUTION, SELF-FLANGED ANODIZED ALUMINUM OPEN REFLECTOR	GOTHAM: EY06C-3089-AR-LSS-ND-MVOLT-EZB-JBX-CCAN-C120-DBL			BLACK HOUSING, BLACK CORD, BLACK CANOPY	SUSPENDED ON BRAIDED WIRE CABLE AND ELECTRICAL CORD PENDANT ASSEMBLY FROM STRUT CHANNEL, ACROSS BOTTOM CHORD OF ROOF STRUCTURE, BOTTOM OF FIXTURE ELEVATION VARIES - REFER TO SECTION FOR MOUNTING HEIGHTS	6,400	3000K LED	0-10V LOG DIMMING TO <1% DRIVER	120 V	58
C2	6" APERTURE ROUND CYLINDER DOWNLIGHT, 45 DEGREE BEAM ANGLE (SMH=7) DISTRIBUTION, SELF-FLANGED ANODIZED ALUMINUM OPEN REFLECTOR	GOTHAM: EY06C-3089-AR-LSS-ND-MVOLT-EZB-JBX-CCAN-C120-DBL			BLACK HOUSING, BLACK CORD, BLACK CANOPY	SUSPENDED ON BRAIDED WIRE CABLE AND ELECTRICAL CORD PENDANT ASSEMBLY FROM STRUT CHANNEL, ACROSS BOTTOM CHORD OF ROOF STRUCTURE, BOTTOM OF FIXTURE ELEVATION VARIES - REFER TO SECTION FOR MOUNTING HEIGHTS	8,300	3000K LED	0-10V LOG DIMMING TO <1% DRIVER	120 V	75
C3	6" APERTURE ROUND CYLINDER DOWNLIGHT, 60 DEGREE BEAM ANGLE (SMH=1) DISTRIBUTION, SELF-FLANGED ANODIZED ALUMINUM OPEN REFLECTOR	GOTHAM: EY06C-3089-AR-LSS-MWD-MVOLT-EZB-JBX-CCAN-C120-DBL			BLACK HOUSING, BLACK CORD, BLACK CANOPY	SUSPENDED ON BRAIDED WIRE CABLE AND ELECTRICAL CORD PENDANT ASSEMBLY FROM STRUT CHANNEL, ACROSS BOTTOM CHORD OF ROOF STRUCTURE, BOTTOM OF FIXTURE ELEVATION VARIES - REFER TO SECTION FOR MOUNTING HEIGHTS	7,400	3000K LED	0-10V LOG DIMMING TO <1% DRIVER	120 V	75
G4	6" APERTURE ROUND CYLINDER DOWNLIGHT, 60 DEGREE BEAM ANGLE (SMH=1) DISTRIBUTION, SELF-FLANGED ANODIZED ALUMINUM OPEN REFLECTOR	GOTHAM: EY06C-3089-AR-LSS-MWD-MVOLT-EZB-JBX-CCAN-C120-DBL			BLACK HOUSING, BLACK CORD, BLACK CANOPY	SUSPENDED ON BRAIDED WIRE CABLE AND ELECTRICAL CORD PENDANT ASSEMBLY FROM STRUT CHANNEL, ACROSS BOTTOM CHORD OF ROOF STRUCTURE, BOTTOM OF FIXTURE ELEVATION VARIES - REFER TO SECTION FOR MOUNTING HEIGHTS	5,800	3000K LED	0-10V LOG DIMMING TO <1% DRIVER	120 V	58
D1	6" APERTURE RECESSED ROUND DOWNLIGHT, WIDE (SMH=1.2) DISTRIBUTION, SELF-FLANGED ANODIZED ALUMINUM OPEN REFLECTOR, W/ LOCATION LISTING	INDY: LB-13LM-30K-MVOLT-G4-80CRI-EZB-WPR-CSS-HB_			SEM-SPECULAR CLEAR TRIM	RECESSED IN ACCOUTICAL, SUSPENDED CEILING, UTILIZE EXISTING 4" OPENING	1,000	3000K LED	0-10V LOG DIMMING TO <1% DRIVER	120 V	12
D2	6" APERTURE RECESSED ROUND RETROFIT DOWNLIGHT, WIDE (SMH=1.2) DISTRIBUTION, SELF-FLANGED ANODIZED ALUMINUM OPEN REFLECTOR, W/ LOCATION LISTING	INDY: LRMS-13LM-30K-MVOLT-G4-80CRI-EZB-WPR-CSS			SEM-SPECULAR CLEAR TRIM	RECESSED IN GYP. DRYWALL CEILING, UTILIZE EXISTING 6" OPENING	1,000	3000K LED	0-10V LOG DIMMING TO <1% DRIVER	120 V	12
E2	EMERGENCY LIGHTING AUTOMATIC LOAD CONTROL RELAY, WITH ACCESSIBLE TEST SWITCH THAT IS VISIBLE TO ROOM OCCUPANTS UPON COMPLETION OF CONSTRUCTION, UL95 LISTING, COMPATIBLE WITH 5-10V DIMMING LOADS, 3A OR 16A MIN. ELECTRONIC LED DRIVER, LOAD RATING (SEE SPEC), AUTOMATIC DIAGNOSTIC FUNCTIONS INCORPORATING A DELAYED "OFF" FEATURE SHALL NOT BE ACCEPTABLE, OR SHALL BE DISABLED UPON INSTALLATION	REFER TO SECTION 26 09 23			WHITE	RECESSED IN ACCESSIBLE LOCATION - IN CEILING IF CEILING IS 10'-0" AFF OR LESS, OTHERWISE MOUNT FLUSH IN WALL AT 9'-0" AFF	N/A	N/A	N/A	120 V	N/A
F1	NARROW LENSED STRIPLIGHT, STEEL CHANNEL BODY, FLAT DIFFUSE ACRYLIC LENS, GENERAL DISTRIBUTION, 2' LENGTH	LITHONIA: ZL1N124-3500LM-FST-MVOLT-40K-80CRI-MB	COLUMBIA: MPS2-40L-FV-EDU-MB-PAF		BLACK	SUSPENDED ON CHAIN OR BRAIDED WIRE CABLE FROM ROOF STRUCTURE ABOVE, BOTTOM OF FIXTURE ELEVATION VARIES - REFER TO SECTION FOR MOUNTING HEIGHTS	3,700	4000K LED	INTEGRAL DRIVER	120 V	32
F2	LENSED STRIPLIGHT, STEEL CHANNEL BODY, FLAT DIFFUSE ACRYLIC LENS, GENERAL DISTRIBUTION, 2' LENGTH	LITHONIA: CL24-2500LM-SEF-FDL-MVOLT-E21-30K-80CRI-MB	COLUMBIA: MPS3-30L-W-FV-EDU-MB-PAF-MPSE-MB		BLACK	SURFACE TO EXISTING CATWALK STRUCTURAL FRAMING MEMBER IF PLAN LOCATION INDICATED, FIXTURE AS HIGH AS POSSIBLE AGAINST STRUCTURE WITHOUT BLOCKING LENS	2,300	3000K LED	0-10V DIMMING TO 1% DRIVER	120 V	19
F3	LENSED STRIPLIGHT, STEEL CHANNEL BODY, WIDE FLAT DIFFUSE ACRYLIC LENS, GENERAL DISTRIBUTION APPROX. 10% UPLIGHT, 4'-0" LENGTH	LITHONIA: CL24-2500LM-SEF-FDL-MVOLT-E21-30K-80CRI-MB	COLUMBIA: MPS3-30L-CN-EDU-MB-PAF		BLACK	SUSPENDED ON CHAIN OR BRAIDED WIRE CABLE FROM ROOF STRUCTURE ABOVE, BOTTOM OF FIXTURE AT 2'-0" AFF	17,400	3000K LED	0-10V DIMMING TO 1% DRIVER	120 V	124
G1	WALL SCONCE, TALL RECTILINEAR PROFILE, METAL FACE WITH POWDER-COAT FINISH AND LUMINOUS WINDOW, DECORATIVE LENS, INSERT IN WINDOW, LUMINOUS ETCHED WHITE ACRYLIC LENSES ON TOP AND SIDES, 8 1/2" H, 4 1/2" W, 4 1/2" D	LUMETTA: W1668-FZL-10K-V-LAB-LED-CCT-3000-CRI-R3-LED-MOD(LIMENS)	SCOTT ARCH LTD: S3787-32K-PT(B)2-L44-CUSTOMWIDTH_DRIVER_4SIDE_ILLUMINATION_LF1 FABRIC COVER FRONT ACRYLIC PANEL		BRONZE, TEXTURED TAN LENS OVERLAY BY FACE WINDOW	SURFACE ON WALL OVER EXISTING RECESSED ELECTRICAL BOX	3,100	3000K LED	0-10V LOG DIMMING TO <1% DRIVER	120 V	34
L1	LOW-LEVEL ASBESTEP LIGHT FOR RETROFIT INSTALLATION ON EXISTING RECESSED WALL BACKBOX, DIE-CAST FACEPLATE, CONCEALED LIGHT SOURCE FROM VIEWING ANGLES AT OR ABOVE ELEVATION OF FIXTURE	AMERLUK: PRCD8-L27-CL-RMP-PRCD8-SK4-5-CRN-CLB			DARK BRONZE	RECESSED ON WALL OVER EXISTING 3"X4" BACKBOX, PROVIDE WITH OVERSIDE RETROFIT FACEPLATE AND SECURE TO SURROUNDING MASONRY WALL	65	2700K LED	0-10V DIMMING TO 1% DRIVER	120 V	5
L2	LOW-LEVEL ASBESTEP LIGHT FOR RETROFIT INSTALLATION ON EXISTING AUTOMATOR SEATING, SINGLE-GANG SIZE DIE-CAST FACEPLATE, CONCEALED LIGHT SOURCE FROM VIEWING ANGLES AT OR ABOVE ELEVATION OF FIXTURE	FC LIGHTING: FC3L1014-120V-27K-CR88-06-8KE			BLACK	RECESSED IN EXISTING 1" DEEP SINGLE-GANG ELECTRICAL BOX WITH EXISTING SEATING (SEE NOTE)	50	2700K LED	INTEGRAL	120 V	6

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

- MODEL NUMBERS GIVEN IN THIS SCHEDULE MAY NOT INCLUDE ALL OPTIONS AND ACCESSORIES AS NECESSARY TO MEET THE REQUIREMENTS OF THE DESCRIPTION AND SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE FOR EACH FIXTURE TYPE. COORDINATE WITH CEILING TYPES AND MOUNTING LOCATIONS.
- ALL FINISHES SHALL BE CHOSEN FROM THE MANUFACTURER'S CATALOGS/STANDARDS OPTIONS UNLESS OTHERWISE NOTED.
- ALL INTERIOR LIGHT SOURCES SHALL HAVE COLOR RENDERING INDEX RATING OF 90 OR GREATER. ALL EXTERIOR LIGHT SOURCES SHALL HAVE COLOR RENDERING INDEX RATING OF 70 OR GREATER.
- ALL FIXTURES SHALL BE SUPPLIED WITH UNIVERSAL VOLTAGE INPUT (100/277V) WHERE AVAILABLE FROM THE MANUFACTURER. VOLTAGE LISTED IN THE SCHEDULE IS INTENDED UTILIZATION VOLTAGE.
- REFER TO THE PLAN DRAWINGS FOR LOCATIONS OF EMERGENCY-DUTY FIXTURES, INCLUDING FIXTURES WITH MULTIPLE CIRCUITS AND/OR EMERGENCY-DUTY SUBSECTIONS. ALL EMERGENCY-DUTY FIXTURES SHALL BE WIRED AND CIRCUITED PER NEC ARTICLE 710 RULES.
- TO MAINTAIN A UNIFORM AND COORDINATED APPEARANCE ACROSS THE PROJECT, ONLY ONE APPROVED MANUFACTURER SHALL BE SELECTED FOR MULTIPLE FIXTURE TYPES AMONG WHICH A SIMILAR STYLE OR SERIES IS INTENDED. NON-COMFORMANCE SHALL BE JUDGED AT THE ENGINEER'S DISCRETION AND MAY REQUIRE CONTRACTOR'S REJECTION OF SOME TYPES WITHIN THE LIST OF APPROVED MANUFACTURERS.
- A BREAK-OUT COST SHALL BE MADE AVAILABLE TO THE BIDDING CONTRACTORS FOR ANY FIXTURE TYPES WHICH LIST A SINGLE PRODUCT. THIS PRICING SHALL BE FURNISHED TO THE ARCHITECT/ENGINEER, CONSTRUCTION MANAGER, AND/OR OWNER UPON REQUEST.

LIGHTING FIXTURE SCHEDULE LINE ITEM NOTES:

- EMERGENCY LIGHTING CONTROL DEVICES SHALL BE WIRED WITH SUPPLY FROM EMERGENCY LIGHTING CIRCUIT, AND FROM NORMAL UTILITY LIGHTING CIRCUIT, BOTH LINE AND LOAD SIDE OF RESPECTIVE CONTROL DEVICES) FOR THE LIGHTING CONTROL ZONE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- EMERGENCY LIGHTING UNIT EQUIPMENT INCLUDING BATTERY PACKS, EXIT SIGNS, INVERTERS, ETC. SHALL HAVE 5-YEAR MANUFACTURER WARRANTY. TEST SWITCH AND CHARGE INDICATOR LIGHT, PROVIDE UNSWITCHED HOT CONDUCTOR FROM RESPECTIVE LOCAL LIGHTING CIRCUIT TO THE BATTERY.
- COORDINATE EXACT LOCATIONS OF FIXTURES TO UTILITY ROOMS WITH EQUIPMENT, DUCTWORK, PIPING, ETC. IN FIELD TO ACHIEVE UNIFORM ILLUMINATION.
- FIXTURE INTENDED FOR EMERGENCY OPERATION ONLY (NORMALLY-OFF), DIMMING CONTROL, WIRING NOT REQUIRED.
- MOUNT FIXTURE OVER EXISTING BACKBOX RECESSED MASONRY WALL.
 - INTERIOR DIMENSIONS OF EXISTING BACKBOX APPROXIMATELY 6 3/4" X 4 1/2" H (HEIGHT NARROWS TOWARD REAR OF HOUSING).
 - FIELD-DEPENDENT RECESSED INSTALLATION DEPTH OF PRODUCT (INCLUDING DRIVER AND WIRING CONNECTIONS) WILL BE COMPATIBLE WITH EXISTING BOXES PRIOR TO ORDERING.
 - CONTRACTOR SHALL FURNISH AND INSTALL A WORKING MOCK-UP INSTALLATION OF INTENDED PRODUCT TO VALIDATE THE ACCEPTABILITY OF FIXTURE PRIOR TO ORDERING THE REST OF THE PROJECT UNITS. COORDINATE REVIEW OF THE INSTALLATION WITH ELECTRICAL ENGINEER.
- EXISTING JUNCTION BOXES RECESSED IN SEATING END PANELS ARE SINGLE-GANG, 1" DEPTH.
 - FIELD-DEPENDENT RECESSED INSTALLATION DEPTH OF PRODUCT (INCLUDING DRIVER AND WIRING CONNECTIONS) WILL BE COMPATIBLE WITH EXISTING BOXES PRIOR TO ORDERING.
 - IF CONTRACTOR ELECTS TO SUPPLY A PRODUCT THAT DOES NOT FIT WITHIN THE EXISTING BOX, PROVIDE A PRE-FINISHED (BLACK COLOR) DEVICE BOX EXTENSION THAT WILL PERMIT THE NECESSARY RECESS DEPTH FOR THE FIXTURE, SIMILAR TO LEGRAND WIREMOLD CAT. NO. "BNDK4". BOX EXTENSION SHALL BE SAME HEIGHT/WIDTH OR LARGER THAN THE FIXTURE FACEPLATE AND SHALL NOT EXCEED 1 1/2" DEPTH.

LIGHTING CONTROL GENERAL NOTES:

- ALL CONTROLLERS EXCEPT FOR LINE VOLTAGE WALL-BOX DEVICES NOTED SHALL BE DIMMING TYPE AND SHALL BE WIRED TO LIGHTING FIXTURES FOR FULL DIMMING CAPABILITY, REGARDLESS OF WHETHER BELIEVE. DIMMING LIGHTING CONTROL IS REQUIRED BY LIGHTING CONTROL NARRATIVE SCHEDULE. THIS IS INTENDED TO ALLOW FOR "SOFT-RAMP" LIGHTING FADES (REFER TO DEFAULT TIMING VALUES) AND ALLOW FUTURE FLEXIBILITY OF PROGRAM MODIFICATION TO SUIT OWNER'S NEEDS OR FUTURE ENERGY CODE REQUIREMENTS.
- PROVIDE CUSTOM ENGRAVING FOR ALL WALL CONTROL SWITCHES PER SPECIFICATION IN THE FOLLOWING LOCATIONS:
 - WHERE ADJACENT SWITCHES ARE ASSIGNED TO MORE THAN ONE LIGHTING CONTROL ZONE
 - WHERE IT IS UNCLEAR TO THE USER FROM THE SWITCH LOCATION WHAT AREA/SPACE OR LIGHTING CONTROL ZONE IS ASSOCIATED WITH THE SWITCH
- CONTRACTOR SHALL SUBMIT PROPOSED CUSTOM ENGRAVING SCHEDULE FOR REVIEW WITH SHOP DRAWINGS.
- PROGRAM DAY LIGHTING CONTROL AS INDICATED ON LIGHTING PLANS. DAY LIGHTING CONTROL NOT REQUIRED IN SPACES WHERE DAYLIGHTING ZONES AND/OR PHOTOSENSORS ARE NOT SHOWN.
- SPACES WITH SINGLE POLE OR THREE-FOUR-WAY SWITCHES DO NOT REQUIRE AUTOMATIC SHUTOFF AND SHALL BE WIRED FOR SIMPLE ON/OFF CONTROL.
- CONFIRM ALL SCHEDULE HOURS, WEEKENDS, DATES, VACATION DAYS, AND HOLIDAYS WITH OWNER PRIOR TO SYSTEM SETUP.
- EACH INDIVIDUAL SWITCHING ZONE OF CONTROL SHALL HAVE INDEPENDENT BUTTON ON WALL SWITCH.
- REFER TO SPECIFICATIONS FOR ADDITIONAL PROGRAMMING INFORMATION.

LIGHTING CONTROL DEFAULT TIMING VALUES

- AUTOMATIC OFF TIME DELAY AFTER SPACE VACANCY: 10 MINUTES
- OCCUPANCY/VACANCY SENSOR GRACE PERIOD FOR RE-TRIGGER: 2 MINUTES
- LIGHTING FADE UP TIME FROM "OFF" STATE: 1 SECOND
- LIGHTING FADE DOWN TIME TO "OFF" STATE: 1 SECONDS
- DAYLIGHTING RAMP UP TIME (AVAILABLE DAYLIGHT DECREASES): 10 SECONDS
- DAYLIGHTING RAMP DOWN TIME (AVAILABLE DAYLIGHT INCREASES): 3 MINUTES

LIGHTING CONTROL INTENT NARRATIVE - SPACE SCHEDULE - PAC PHASE

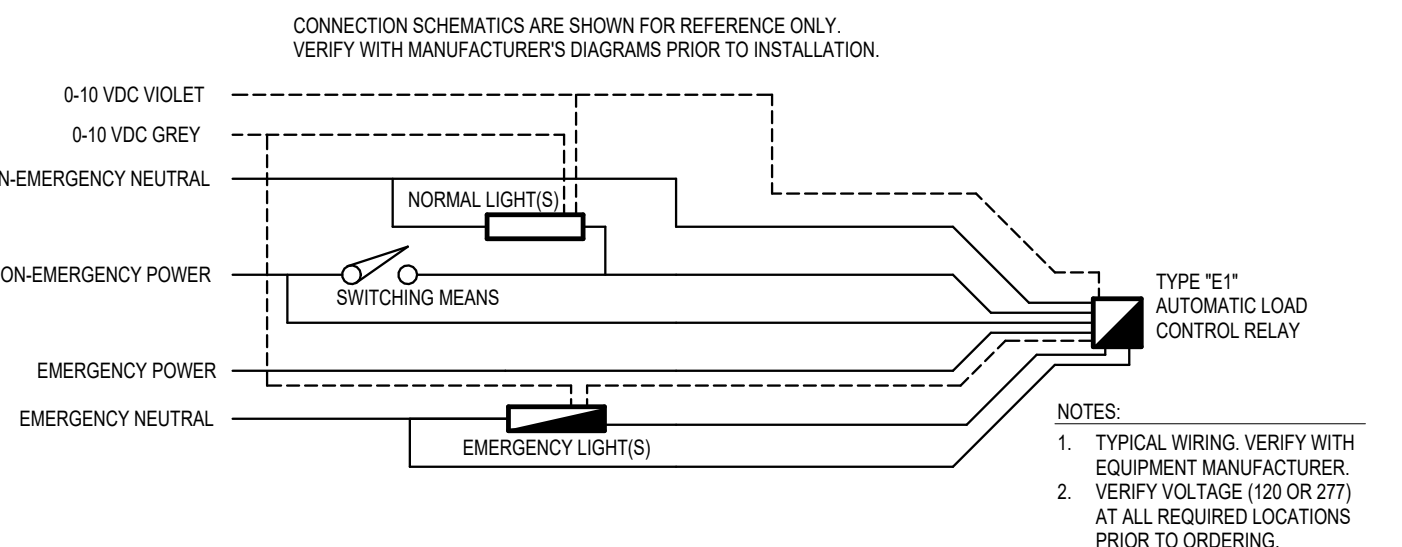
SPACE ID	SPACE TYPE (ASHRAES 90.1 TABLE 9.6.1)
CIN-02	0106 VESTIBULE CORRIDOR 0109 VESTIBULE CORRIDOR 0110 VESTIBULE CORRIDOR 0118 VESTIBULE
CIN-10	G113 SEATING AUDIENCE/SEATING AREA - PERFORMING ARTS THEATER G201 UPPER SEATING AUDIENCE/SEATING AREA - PERFORMING ARTS THEATER
CIN-11	G117 STAGE WORKSHOP

INTERIOR LIGHTING POWER DENSITY (LPD) COMPLIANCE (SPACE-BY-SPACE METHOD) - PAC PHASE

SPACE ID	FLOOR AREA	ALLOWED LPD (TABLE 9.6.1)	ALLOWED LIGHTING POWER	PROPOSED LIGHTING POWER	PROPOSED LPD	NOTED EXEMPTIONS / ALLOWANCES / ADJUSTMENTS
G105 VESTIBULE	99 SF	0.66 W/F	66 W	24 W	0.24 W/F	
G109 VESTIBULE	99 SF	0.66 W/F	66 W	24 W	0.24 W/F	
G113 SEATING	7,521 SF	2.43 W/F	18,315 W	5,284 W	0.70 W/F	
G118 VESTIBULE	49 SF	0.66 W/F	32 W	12 W	0.24 W/F	
G117 STAGE	3,038 SF	1.59 W/F	4,831 W	830 W	0.27 W/F	
G118 VESTIBULE	49 SF	0.66 W/F	32 W	12 W	0.24 W/F	
G201 UPPER SEATING	2,880 SF	2.43 W/F	6,996 W	1,723 W	0.60 W/F	
GRAND TOTAL	13,922 SF		29,878 W	7,807 W		

LIGHTING CONTROL INTENT NARRATIVE (CIN) SCHEDULE

NARRATIVE ID	DESCRIPTION	CONTROL FUNCTION DESCRIPTIONS (ASHRAES 90.1 2013 REFERENCE)				ADDITIONAL NOTES
		LOCAL CONTROL (8.4.1 (a))	ON MODE (8.4.1 (b)-(d))	B LEVEL LIGHTING CONTROL (8.4.1 (e))	DAYLIGHT RESPONSIVE CONTROLS (8.4.1 (f))	
CIN-02	PUBLIC TRANSITION SPACE	LOCAL AND REMOTE MANUAL CONTROL, VIA THEATRICAL LIGHTING CONTROL SYSTEM ARCHITECTURAL WALL STATIONS AND CONTROL CONSOLE AT ONE OR MORE LOCATIONS WITHIN SPACE, REFER TO THEATRICAL LIGHTING PLANS FOR LOCATIONS AND SECTION 26 09 01	MANUAL ON VIA THEATRICAL LIGHTING SYSTEM ARCHITECTURAL CONTROLS OR CONTROL CONSOLE	0-10VDC CONTINUOUS DIMMING OF LIGHTING WITHIN ONE OR MORE CONTROL ZONES, REFER TO PLAN (SINGLE CONTROL ZONE UNLESS OTHERWISE SHOWN)	NA	PROVIDE SCHEDULED SHUTOFF VIA PROGRAMMING OF THEATRICAL LIGHTING SYSTEMS ARCHITECTURAL CONTROLS. PROVIDE OFF SWEEP OF ALL LIGHTING LOADS CONTROLLED BY SYSTEM AT 100 A.M. WITH FLASH WARNING OF ANY ACTIVE LIGHTING TWO MINUTES PRIOR. UNOCCUPIED PERIOD SHALL BE FROM 10:00 A.M. TO 6:00 A.M. DURING WHICH TIME ANY LOAD ACTIVATED MANUALLY THROUGH ARCHITECTURAL CONTROLS SHALL BE AUTOMATICALLY SHUT OFF AFTER A TWO-HOUR INTERVAL. TIMEOUT PERIOD FROM LAST USER ACTION, WITH FLASH WARNING OF ANY ACTIVE LIGHTING TWO MINUTES PRIOR.
CIN-10	PERFORMING ARTS THEATER - AUDIENCE SEATING AREA	LOCAL AND REMOTE MANUAL CONTROL, VIA THEATRICAL LIGHTING CONTROL SYSTEM ARCHITECTURAL WALL STATIONS AND CONTROL CONSOLE AT ONE OR MORE LOCATIONS WITHIN SPACE, REFER TO THEATRICAL LIGHTING PLANS FOR LOCATIONS AND SECTION 26 09 01	MANUAL ON VIA THEATRICAL LIGHTING SYSTEM ARCHITECTURAL CONTROLS OR CONTROL CONSOLE	0-10VDC CONTINUOUS DIMMING OF LIGHTING WITHIN EACH GENERAL LIGHTING CONTROL ZONE AND OTHER SPECIAL-PURPOSE LIGHTING LOADS EXCEPT WHERE NOTED ON SCHEDULE, REFER TO PLANS/SCHEDULES	NA	PROVIDE SCHEDULED SHUTOFF VIA PROGRAMMING OF THEATRICAL LIGHTING SYSTEMS ARCHITECTURAL CONTROLS. PROVIDE OFF SWEEP OF ALL LIGHTING LOADS CONTROLLED BY SYSTEM AT 100 A.M. WITH FLASH WARNING OF ANY ACTIVE LIGHTING TWO MINUTES PRIOR. UNOCCUPIED PERIOD SHALL BE FROM 10:00 A.M. TO 6:00 A.M. DURING WHICH TIME ANY LOAD ACTIVATED MANUALLY THROUGH ARCHITECTURAL CONTROLS SHALL BE AUTOMATICALLY SHUT OFF AFTER A TWO-HOUR INTERVAL. TIMEOUT PERIOD FROM LAST USER ACTION, WITH FLASH WARNING OF ANY ACTIVE LIGHTING TWO MINUTES PRIOR.
CIN-11	PERFORMING ARTS THEATER - STAGE	LOCAL AND REMOTE MANUAL CONTROL, VIA THEATRICAL LIGHTING CONTROL SYSTEM ARCHITECTURAL WALL STATIONS AND CONTROL CONSOLE AT ONE OR MORE LOCATIONS WITHIN SPACE, REFER TO THEATRICAL LIGHTING PLANS FOR LOCATIONS AND SECTION 26 09 01	MANUAL ON VIA THEATRICAL LIGHTING SYSTEM ARCHITECTURAL CONTROLS OR CONTROL CONSOLE	0-10VDC CONTINUOUS DIMMING OF LIGHTING WITHIN EACH GENERAL LIGHTING CONTROL ZONE AND OTHER SPECIAL-PURPOSE LIGHTING LOADS EXCEPT WHERE NOTED ON SCHEDULE, REFER TO PLANS/SCHEDULES	NA	PROVIDE SCHEDULED SHUTOFF VIA PROGRAMMING OF THEATRICAL LIGHTING SYSTEMS ARCHITECTURAL CONTROLS. PROVIDE OFF SWEEP OF ALL LIGHTING LOADS CONTROLLED BY SYSTEM AT 100 A.M. WITH FLASH WARNING OF ANY ACTIVE LIGHTING TWO MINUTES PRIOR. UNOCCUPIED PERIOD SHALL BE FROM 10:00 A.M. TO 6:00 A.M. DURING WHICH TIME ANY LOAD ACTIVATED MANUALLY THROUGH ARCHITECTURAL CONTROLS SHALL BE AUTOMATICALLY SHUT OFF AFTER A TWO-HOUR INTERVAL. TIMEOUT PERIOD FROM LAST USER ACTION, WITH FLASH WARNING OF ANY ACTIVE LIGHTING TWO MINUTES PRIOR.



EMERGENCY LIGHTING AUTOMATIC LOAD CONTROL RELAY

NOT TO SCALE