NEWCOMB & BOYD

New Fairfield High School
State Project #: 091-0044N
Technology Equipment – Addendum #3
March 23, 2023

ATTENTION BIDDERS

The following, as additions to and modifications, will be included in, and become part of Request for Proposal and Statement of Work for the above referenced project. Proposers are, therefore, instructed to take the following into account in rendering any Proposal for this work.

OVERVIEW

Addendum #3 includes the addition of Bid Package #6 for Broadcast Production Control Room and Broadcast Cabling, inclusive of all materials, equipment and installation, and as per the drawings and specifications.

The Project Manual dated October 21, 2022 and issued on February 21, 2023 contains additional requirements, contract forms, specifications, and other pertinent information. This document (RFP# HSTECH1) can be downloaded from the Town of New Fairfield website at: https://www.newfairfield.org/our-town/invitations-to-bid.

SCHEDULE

Bid Package #6 (BP#6) schedule is as follows:

- Addendum #3 issued – March 23, 2023
- Requests for Information (RFI) due: March 28, 2023 at 4:00 pm ET. (See RFI section below)
- Addendum Issued (as needed): March 31, 2023
- Bids Due: April 6 at 10:00 ET

The due date for Bid Packages BP#1 thru BP#5 remains March 28, 2023.

Bids shall be emailed to: schoolbids@newfairfieldschools.org.

REQUESTS FOR INFORMATION

- Technical questions related to project scope shall be sent via email to the following no later than 4:00 pm ET on March 28, 2023:
    - Kathy Redd at Anthony James Partners (kathyr@anthonyjamespartners.com)
    - Christine O'Hare at JCJ Architecture (cohare@jcj.com)
    - Patty Mota at the Town of New Fairfield (pmota@newfairfield.org)
    - Bo Laraia at Newcomb & Boyd (rlaraia@newcomb-boyd.com)

- For questions regarding Addenda, or to confirm the bid date, contact: Patty Mota at the Town of New Fairfield (203) 312-5653 or email pmota@newfairfield.org.

CLARIFICATIONS:

- Pricing shall be valid for 90 days from the date proposals are received. This is a correction to the Invitation to Bid document.
- Wage Rates in the Project Manual are as of February 16, 2023. Updated wage rates will be sent for Bid Package #6 once received from the CT Department of Labor.

DOCUMENTS INCLUDED WITH ADDENDUM #3

- Technical Specifications: Broadcast Control Room and Broadcast Cabling - 15 pages
- Bid Forms
    - Broadcast Control Room – 2 Pages
    - Broadcast Cabling – 2 Pages
    - These documents can be downloaded from the Town of New Fairfield website (see link above) as an Excel spreadsheet. Bidders shall verify all calculations within the spreadsheet prior to submitting.
- Technology Upgrade Drawing Package dated March 22, 2023 - 18 Pages
- Electrical Infrastructure Drawings (indicating pathways provided under base construction) – 8 Pages

**NEW FAIRFIELD HIGH SCHOOL**

**FHS20-1616BCR**

TECHNICAL SPECIFICATIONS:
BROADCAST CONTROL ROOM
BROADCAST CABLING

PROJECT NUMBER:
FHS20-1616

03.22.2023

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**GENERAL**

New Fairfield High School (Hereinafter referred to as "the Owner") intends to acquire a complete turn-key Broadcast Production Control Room and Broadcast Cable Package. The Owner herewith requests proposals for the design, engineering, installation, commissioning, testing, and acceptance of the systems described in the attached specifications and forthcoming drawings for the interested persons (hereinafter known as "the Contractor"). Prices quoted shall be all-inclusive and represent complete installation at the site shown on the forthcoming drawings and in the attached specifications. The Contractor shall be responsible for all parts, labor, and all other associated apparatus necessary to completely install, test, and turn-over for acceptance to the Owner turnkey, fully operational system(s). These systems include, but are not limited to, the following:

1. Broadcast Production Control Room – Equipment and Materials
2. Broadcast Production Control Room – Installation
3. Broadcast Cabling – Equipment and Materials
4. Broadcast Cabling – Installation

**DESCRIPTION**

1. The Contractor shall be responsible for providing all system(s) equipment as proposed by the Contractor.

2. The Contractor shall be responsible for the provision and installation of all secondary structural steel (i.e., conduit supports and mounting structures) and mounting brackets/hardware required to accommodate the new system(s). This includes all labor, materials, equipment, tools, transportation, and project management required to complete a fully operational system(s) on the project.

3. Contractor shall be responsible for assembly, secondary modifications (if necessary) and mounting of all system(s) components onto new or existing structures.

4. Construction will provide Primary Power at defined demarcation points as shown on the project electrical drawings. Contractor shall be responsible for all power and electrical distribution from demarcation point (Secondary Power) to new system(s). Contractor shall provide all Secondary Power connections/terminations required to power new system(s).

5. Owner will provide conduits or raceways as shown on the project electrical drawings for low voltage. All additional conduit and raceways required to complete a path to each network component shall be furnished and installed by Contractor. Contractor shall be responsible to furnish, install, and terminate all required cabling needed to make new system(s) complete and fully operational.

6. Contractor is responsible for supplying a complete and fully operational system(s) as intended by the RFP documents and any subsequent addendums. Prior to entering into a contract for the project, Contractor is responsible for notifying Owner of any equipment omissions in the RFP documents that may prevent the completion of a fully operational system(s). If Contractor fails to notify Owner of any equipment omissions, Contractor shall assume responsibility for providing the required equipment at no additional cost to Owner.

7. Contractor shall field verify all work site conditions prior to submitting shop drawings.

8. Contractor shall grant Owner a license to use all proprietary software provided with this RFP for the life of the system(s).

9. All equipment (except Owner Furnished (OFE)) and materials shall be new (latest version at time of bid) and shall conform to applicable UL, EIA, TIA, or ANSI provisions. Re-manufactured or "B" stock equipment will not be accepted without prior written consent from the Owner. Evidence of unauthorized re-manufactured or "B" stock equipment on the project site will be deemed evidence of the Contractor's Failure to Perform the Work. Contractor shall take care during installation to prevent scratches, dents, chips or disfiguration.

10. All equipment power circuits must have an emergency back-up system as deemed necessary per the local or state fire code; whichever is more restrictive

**CONTRACTOR QUALIFICATIONS**

1. Owner seeks to contract with a Contractor for the full performance of the work as described in this RFP and have the option to obtain long-term service contract and support for all equipment supplied by the selected Contractor. In an effort to ensure the chosen Contractor has the long-term interests of Owner in mind, the following shall be required in order to submit a bid for this project. Failure to submit acceptable responses to all of these requirements shall eliminate a Contractor from consideration. The Owner, in its sole discretion, shall reserve the right to waive any or all of the requirements listed below.

2. Contractor shall provide a list of a minimum of three (3) facilities (facility, contact name, title, address and current phone number) where the Contractor has provided equipment and services of equivalent size and scope within the last five (5) years.

3. Contractor shall provide a minimum of one (1) facility (facility, contact name, title, address and current phone number) where the Contractor has provided equipment and services of equivalent size and scope that is at least five (5) years old.

4. Contractor shall be required to provide a Letter of Surety from their bonding agent, stating their ability to provide a 100% payment and performance bond if they are the successful bidder.

5. Contractor shall have a direct service employee or certified Contractor capable of providing maintenance response within 3 hours of a call for service.

6. Contractor shall have a minimum of 5 years in the communications and structured cabling business.

7. Contractor's primary line of business shall be communications and structured cabling.

8. Contractor shall have a minimum of 10 full-time installers.

**SUBMITTAL REQUIREMENTS**

1. Contractor shall be required to provide submittals and shop drawings (print and electronic) to Owner within twenty (20) calendar days of date shown on award notice, acknowledged with a binding letter of intent. Contractor shall be responsible to ensure that the dimensions and specifications of each component and all systems fit within the building allowances. Contractor shall advise the Owner of any discrepancy that may affect installation. If Contractor fails to notify Owner of any discrepancies, Contractor shall assume responsibility for providing the required equipment or correcting such discrepancies at no additional cost to Owner. The following required submittals will be defined by guidelines established by the Owner and shall include but not be limited to:

2. Three (1) sets of electronic shop drawings in PDF format within twenty (20) calendar days of date shown on Award Notice to Contract.

3. Point-to-point wiring diagrams and typed wire lists identifying every connection. Indicate locations of all components. Identify cables by types, colors and wire numbers. Complete,

detailed wiring diagrams for the systems, based on the contract documents but including cable types, identification and color codes, and detailed wiring of connections, both at equipment and between equipment racks and wiring conduit, connector types, expansion loops and cable lengths. Drawings shall comply with ANSI and International Electro technical Commission recommendations and standards as appropriate. Provide drawing set cover sheet clearly dimensioning all cable preparation details for each cable type and connector utilized in the system.

4. Rack elevations indicating the proposed arrangement of mounted equipment including power junction box location and locations of conduit penetrations. Rack elevations shall include front and rear views. BTU loads for each piece of equipment shall also be included on the rack elevation drawing.
5. Detail drawings of all custom fabricated items and approved equipment modifications. Include complete parts lists, schematic diagrams, and all dimensions required for proper assembly.
6. Proposed color selections and finishes for all exposed surfaces and custom fabricated items. Submit actual color/finish samples, wall plates, and custom labels.
7. A list of all lower tier subcontractors and suppliers. List shall include lower tier subcontractor's qualifications indicating performance of similar work on past projects of this type and scope.
8. A project schedule in Gantt chart format outlining equipment delivery dates and installation start and finish dates. Project schedule shall be broken down into sufficient detail (work task and duration) to permit Owner to monitor installation progress on a daily basis.
9. Copies of all required business and Contractor licenses.
10. Copies of proof of insurance.
11. Approval of submitted items indicates only the acceptance of the manufacturer and quality. Specific requirements, arrangements, and quantities shall comply with the intent of the Contract Documents as interpreted by the Owner unless specifically approved in writing.
12. Submittals that are incomplete, deviate significantly from the requirements of the Contract Documents, or contain numerous errors will be returned without review for rework and re-submittal, and may result in back charges to the Contractor.

**CONTRACT CLOSEOUT SUBMITTAL**

1. When the installation is substantially complete including the Testing Reports in Part 3 of this Section, Contractor shall submit two (2) complete initial hard copy sets of contract closeout submittals to the Owner for review. After review and approval of initial set, Owner shall return one (1) initial hard copy to Contractor with comments for updating. Contractor shall provide four (4) final sets of closeout submittals to Owner and one (1) electronic copy in PDF format, or format related to discipline. Closeout submittals shall include, but not be limited to:
2. Project Record Drawings (As-Built Drawings) including final secondary steel structural drawings, electrical drawings, systems block diagrams, rack elevation drawings and wiring schedule.
3. As built configuration files.
4. An Operation & Maintenance Manual.
5. A list of all equipment provided and its location within the facility. List shall include manufacturer name, model identifier, serial number, and any other pertinent information needed to obtain service, maintenance, and/or replacement.

6. A list of all Subcontractors who performed work for Contractor during installation. List shall include company name, physical company address, phone number, and contact person(s).
7. Copies of all software, settings and programs used in the control and operation of this system.
8. Copies of all equipment registration documentation.
9. Test reports for all new copper and fiber optic cable installed under this scope of work. Test reports shall indicate end to end signal loss does not exceed applicable industry standards.

**OPERATION & MAINTENANCE MANUAL**

1. Upon substantial completion but prior to onsite training with the Owner, Contractor shall provide two electronic PDF copy. O&M Manuals shall have electronic file dividers and shall be logically organized to provide easy access to information without the need to research through entire manual. All documents provided in the O&M Manual shall be written in English and shall provide sufficient detail as to be understood by an individual with knowledge of the provided systems. Contents of the O&M Manual shall include, but not be limited to:
2. Table of Contents.
3. Description / overview of system(s) including key features and operational procedures.
4. Full start up procedure for all systems equipment and any additional networking components written under the assumption that all equipment was in full powered off mode.
5. Full shutdown procedure for all systems equipment written under the assumption that the facility is in an extended power failure situation.
6. Owner's Manuals for all third party and/or "off the shelf" type equipment provided by Contractor, e.g., KVM's, fiber modems, network switches/routers, and UPS battery backups.
7. Small scale plans showing locations and circuit numbers for all system outlets and receptacles.
8. Single-line block diagrams showing all major components of the systems.
9. All third-party equipment and/or "off the shelf" equipment warranties and a notarized System Warranty.
10. Password files for all system passwords

**EQUIPMENT GENERAL SPECIFICATIONS**

1. All equipment and materials, except owner furnished, shall be new and the latest version at the time of bid and shall conform to applicable UL, ULC, CSA or ANSI provisions. Re-manufactured or "B" stock equipment will not be accepted without prior written consent from the Owner. Evidence of unauthorized re-manufactured or "B" stock equipment on the project site will be deemed evidence of the Contractor's failure to perform the work. Contractor shall take care during installation to prevent scratches, dents, chips or disfiguration of equipment and materials supplied. All damaged equipment and/or materials shall be repaired or replaced at Owner's discretion. Contractor shall perform either option selected by Owner at no additional cost to the Owner.

2. All cabling [power and data] is to be labeled at each end of the cable with a description in English OR with a reference to a wire designation on a wiring diagram. These diagrams must be part of the Project documentation submitted to the Owner at time of acceptance.

3. Each device shall meet all of its published manufacturer's specifications. Verify performance as required.

4. Provide, at a minimum, one uninterruptable networked managed power supply (UPS) at the bottom of each rack supplied by Contractor. UPS shall have the capability of providing power to all equipment within the rack for a period of 15 minutes in the event of a power failure at the facility.

5. Install all rack mounted equipment with Middle Atlantic Products HP Series truss head screws or approved equal.

6. Some rack-mounted equipment may require shaft locks, security covers, or removal of knobs; provide and install during Acceptance Testing.

7. Networking enclosures exposed to the outdoors, will be of a NEMA 4X rating or better and provide adequate environmental control to ensure long-term equipment operation.

8. Provide engraved self-adhesive Lamicoid labels at the front and rear of all rack-mounted signal processing equipment. Mount labels on the equipment chassis and attach in a neat and permanent manner. Embossed label will not be accepted. Label equipment with schematic enumeration reference, and with descriptive information regarding its function or area it is serving. Similarly, provide engraved labels at the rear only of equipment mounted in furniture consoles.

9. Mounting Hardware exposed to the weather shall be aluminum, brass epoxy painted galvanized steel or stainless steel. Apply corrosion inhibitor to all threaded fittings.

10. Any rear mounted rack equipment shall be placed so the equipment does not block access to the back of front mounted equipment.

11. Contractor shall exercise care when wiring racks to avoid damaging cables and equipment. Contractor shall install grommets around cut-outs and knockouts where conduit or chase nipples are not installed.

12. Power wiring and signal/data wiring shall be installed on opposite sides of rack. Contractor may determine which side is used for power and which side for signal. Method shall be kept the same for entire installation, if multiple racks are required. Contractor shall exercise care when wiring racks to avoid damaging cables and equipment.

13. Equipment installed in exterior locations shall be IP67 rated and operating temperature range 0 degrees F to 90 degrees F and survivable from -20 degrees F to 110 degrees F.

**QUALITY ASSURANCE**

1. All requirements of the latest published editions of the following standards shall apply, unless otherwise noted. In the event of conflict between cited or referenced standards, the more stringent shall govern.
    i. National Electric Code (NEC Code)
    ii. National Electrical Manufacturers Association (NEMA)
    iii. Occupational Safety and Health Administration (OSHA)
    iv. Underwriters Laboratories (UL)
    v. Electronic Industries Association (E.I.A.)
    vi. Telecommunications Industries Association (T.I.A.)

2. Review all architectural, civil, structural, mechanical, electrical, and other project documents relative to this work.

3. Verify all dimensions and site conditions prior to starting work.

4. Coordinate the specified work with all other trades.

5. Maintain a competent supervisor and supporting technical personnel, acceptable to the Owner during the entire installation. Change of supervisor during the project shall not be permitted without prior written approval from the Owner.

6. Provide all items not indicated on the drawings or mentioned in the specifications that are necessary, required or appropriate for this work to realize a complete and fully operational system that performs in stable and safe manner.

7. Review project documentation and continuously make known any conflicts discovered and provide all items necessary to complete this work to the satisfaction of the Owner without additional expense. In all cases where a device or item or equipment is referred to in singular number or without quantity, each such reference shall apply to as many such devices or items as are required to complete the work.

8. Provide additional support or positioning members as required for the proper installation and operation of equipment, materials and devices provided as part of this work as approved by the Owner, without additional cost to the Owner.

9. Regularly examine all construction, and the work of others, which may affect Contractor's work to ensure proper conditions exist at site for the equipment and devices before their manufacture, fabrication or installation.

10. Contractor shall be responsible for the proper fitting of the systems, equipment, materials, and devices provided as part of this work.

11. Promptly notify the Owner in writing of any difficulties that may prevent proper coordination or timely completion of this work. Failure to do so shall constitute acceptance of construction as suitable in all ways to receive this work, except for defects that may develop in the work of others after its execution.

12. After installation, submit photographs showing cable entries and terminations within equipment racks, enclosures and pedestals at the job site.

**APPLICABLE STANDARDS**

1. The following standards are applicable to this document and must be adhered to for any installation work performed.
    i. TIA/EIA 568-B: Commercial Building Telecommunications Cabling Standard.
    ii. TIA/EIA TSB-67: Transmission Performance Specifications for UTP Cabling.
    iii. TIA/EIA 568-A-1: Propagation Delay and Delay Skew for 100 Ohm 4-pair Cable.
    iv. TIA/EIA 568-B.2.1: Category 6 Final Draft.
    v. TIA/EIA-569-A: Commercial Building Standard for Pathways and Spaces.
    vi. TIA/EIA-606: Administration Standard for Commercial Buildings.
    vii. TIA/EIA-607: Commercial Building Grounding/Bonding Requirements.
    viii. ANSI/NFPA-70: National Electrical Code.
    ix. ANSI/IEEE C-2: National Electrical Safety Code.
    x. Pertinent Local Codes and Standards

END OF PART 1 GENERAL

**PRODUCTS**

BROADCAST EQUIPMENT

1. This equipment list is considered the basis of the design intent, approved alternatives will be equipment that meets the same specifications of the shown equipment at a minimum. All alternatives that meet the like for like requirement will be considered. Reference accompanying Bid Forms for basis of design.

END OF PART 2 PRODUCTS

## PART 3 EXECUTION

## SCOPE OF WORK

1. The following outlines the turnkey delivery and installation responsibilities that define the project scope of work. All work outlined in this section is the responsibility of the Contractor unless otherwise noted. All dates referenced in this document are approximate projected dates and are subject to change.

2. Provide and install all equipment listed in Part 2 – Products, including all equipment not specifically listed that is required to provide a completely functional system.

3. All equipment listed in Part 2 should be considered the base bid. All alternative equipment will be considered if it meets the same specs as the base system. Please provide cut sheets for any alternative equipment you are presenting.

4. This scope shall include the base bid of the Broadcast Control Room 1, Control Room 2, TOC and Broadcast Cable packages.
5. All conduits will be by others, the JBT and Racks are a part of this scope.
6. Broadcast Cable runs at the facility are based around 1K ft length to each JBT, use the drawings with this package and reference the electrical drawings for actual footages of the runs.

## INTEGRATION REQUIREMENTS

1. All pigtails will be fusion spliced with “ST” connector

2. Mechanical splices are not permitted

3. Splices will be dressed into the LIU and connected to I/O plate

4. All terminated connections will be labeled in the LIU

5. All terminated connections will be tested and documented

6. All testing results will be submitted to the consultant and owner in soft form

7. Any fiber not able to be certified will need to be tested with an OTDR, it will be the responsibility of the systems integrator to correct at no cost to the owner. Trace of test to be provided to consultant and owner.

8. Provide required signal and data cable. Connect all equipment with power, signal, and control wiring from electrical outlets currently existing or to be provided

9. Provide required video, audio, fiber, and data cable: connect all equipment with power, signal and control wiring

10. Ensure that levels and impedances are properly matched between components

11. Provide all required permits and licenses

12. Provide on-site installation supervisor per Section 1.5.E

13. Coordinate work with other trades and coordinate scheduling with the construction supervisor to minimize delays

14. Deliver all Equipment to site and convey to appropriate locations within site as directed by the project

15. Store all Equipment in a safe and secure manner until installed, or as otherwise directed by the project

16. The solution shall broadcast 1080P HDR output video

17. The solution shall enable live triggers MOE from production and board show, (e.g., goal being scored).

**WARRANTIES, MAINTENANCE AND LICENSES**

1. Contractor shall warrant labor and materials for twenty-four (24) months following the date of Final Acceptance, inclusive of all hardware and software licensing.

2. During the warranty period the system shall be free of defects and deficiencies and conform to the drawings and specifications with respect to the quality, function, and characteristics stated.

3. Contractor shall repair or replace defects that occur in labor or materials within the warranty period.

4. On-site labor shall be included during the warranty period for any work beyond simple component replacement. Simple component replacement shall be defined as all equipment that does not require tools to perform the equipment replacement.

5. Failed parts shall be returned to the Contractor for repair at a service facility located in the United States. Contractor shall identify the location of its service facility in the documentation provided when submitting a bid for this work.

6. The Contractor shall replace failed parts that cannot be repaired.

7. Upon receipt of a failed part, Contractor shall return a repaired or replacement part to the Owner within fifteen (15) business days from receipt of failed part.

8. Contractor shall supply at least one local service employee or local authorized service agent for service and repair of all equipment during the warranty period. Local service employee or local authorized service agent shall be located within 75 miles of Owner's facility.

9. The local service employee or local authorized service agent shall be the entity responsible for providing the following emergency response availability:

10. Telephone service assistance and technical support from 8am to 11pm local time at Owner's facility, 7-days per week.

11. Answer all service calls and requests for information within one (1) hour during the warranty period.

12. The advance replacement should contain all of the shipping information and packaging necessary to return the defective part or assembly back to Contractor at no cost to the Owner.

13. Warranty shall cover all equipment, including processors, controllers, operating systems, and software.

14. Warranty shall include two annual on-site system check-ups by a qualified technician who is a full-time employee of the Contractor. Visit to occur within 30 days of the second and third anniversary of the projects final completion as determined by Owner.

15. Check-up shall include all regular maintenance; including filter cleaning, a complete inspection of all systems, parts replacement where required and a complete written report of all findings.

**WIRING PRACTICES**

1. Where specific instructions are not given, perform all wiring in strict adherence to standard systems engineering practices in accordance with the references listed.

2. Group all wiring into the following classifications by power level or signal type:

    a. Microphone Level

    b. Line Level Audio and DC Control Circuits

    c. Video Level

    d. Copper Data

    e. Fiber Data

    f. AC Power Circuits

3. Separate wiring of differing classifications by at least fifteen (15) cm, wherever possible. Wherever lines of differing classification must come closer together than fifteen (15) cm, cross them perpendicular to each other.

4. Neatly harness wires together within racks by power level classification using horizontal and vertical wiring supports as required. Rigidly support all wires with fixed connection points. Leave service loops of sufficient lengths to allow rack hinges or slides to fully extend to facilitate access to rear panel connectors from the front of each rack. Do not use self-adhesive ty-wrap pads for support of cables unless fastened with screws.

5. Exercise care in wiring to avoid damaging the cables and equipment. Use grommets around cut-outs and knockouts where conduit or chase nipples are not installed.

6. All fiber splicing shall utilize the fusion splice method. The maximum allowable loss per fusion splice shall be .05 db.

7. Pull mandrel one size smaller than the conduit, through entire length of all underground conduits.

8. Cable pulling lubrication shall be utilized when pulling cable in conduits.

9. A dynamometer shall be used to measure pulling tension during long or difficult runs. The dynamometer is to be placed between the cable puller and the pull line to monitor pulling tension. The manufacturer's pulling tension maximum range shall not be exceeded.

10. Pulling grips suitable for use with fiber cables shall be applied to the ends of the cable. Consult cable manufacturer to determine appropriate pulling grip and method of attachment. Breakaway or fuse links shall be used at the pulling grip. Ensure that the correct fuse pin is installed in the fuse link.

11. The bend radius for all cables shall conform to manufacturer's specifications.

**LABELING**

1. Label products in a logical, legible, and permanent manner corresponding to the Drawings. Wording, format, style, color and arrangement of text will be subject to the Owner's approval. Submit samples and labeling schedule for approval. Labeling will be verified at final system commissioning.

2. Label all wall plates, as well as connector mounting plates in all boxes using 1/8" engraved lettering filled with black or contrasting paint, as approved.

3. Use engraved plastic labels similar to Lamicoid, squarely and permanently attached, to label the following:

    a. Patch panel designation strips.

    b. LIU designation strips.

    c. Access points.

    d. Front and back of all rack mounted equipment including controls.

    e. Barrier strips, terminals, transformers, switches, relays and similar devices.

4. Label all permanently installed wires on both ends with approved permanent clip-on type or sleeve type markers. Wrap-around adhesive labels will not be accepted unless completely covered with clear heat shrink tubing.

5. Label all portable equipment with engraved block letters using initials and/or words. Label all portable cables similarly with printed heat-shrinkable tags located 30 centimeters from the male connector end. Verify lettering through the Owner prior to engraving or printing.

6. Label access panels and backboards with designations corresponding to the drawings. Where devices are concealed above access ceilings, provide permanent Lamicoid labels, on the ceiling « tees », corresponding to the drawings in finishes and sizes approved by the Owner.

**HORIZONTAL CABLE SUBSYSTEMS**

1. Where connectors must be installed into surface mounted raceway, the Contractor shall provide the appropriate faceplate as well as any necessary adapters to facilitate the installation of the connectors specified in this section directly into the raceway. Surface mounted boxes shall not be accepted as mounting devices on surface raceways.

2. At the wiring closet, each UTP cable shall be terminated onto an approved connector and loaded into an approved modular patch panel or equivalents. All patch panels shall be modular, front-access, high density patch panels. No fixed-port 110-style panels shall be accepted. Contractor shall provide required patch panels ports plus 20 percent for future growth. Patch panel ports provided as excess for future growth need not be populated with connectors. However, all excess ports not populated shall have installed a single blank insert.

3. A two-rack-space horizontal wire management panels shall be installed for every 48-port patch panel. All wire management panels shall be made of flexible finger-duct with covers. D-ring wire management systems shall not be accepted.

**BONDING AND GROUNDING**

1. All cabling, racks, and patch panels shall be bonded and grounded in accordance with TIA 942.

2. All fiber optic cables shall be tested the final draft of the TIA/EIA applicable standard with a Fluke, OptiFiber Pro OTDR or equivalent, tester and meet or exceed the performance criteria. Test reports evidencing these performance levels shall be provided for each cable link. Test results shall be provided in hard copy and electronic format to the Owner upon completion of the project.

3. All cables, outlets, and patch panel ports shall be labeled in accordance with the TIA/EIA 607 Administration Standard for Commercial Buildings using a Panduit LS7 hand-held labeler or Panduit PanMark software or equivalent. No hand-written labels shall be accepted.

## ELECTRICAL AND DATA WIRING

1. The electrical design and installation of all branch circuits by the Contractor shall comply with NEC, State and local codes, as well as Owner regulations and guidelines.

2. The Contractor shall provide separate single-line diagrams for each type of signal.

3. Electrical design and engineering must be reviewed and approved by the Owner prior to any electrical work by the Contractor.

4. The Contractor will be responsible for power distribution from the demarcation points noted on the included electrical drawings. Any additional electrical components required for a complete and fully operational system but not shown on the electrical drawings shall be the responsibility of the Contractor.

5. Any additional raceway (conduit, cable tray, J hooks) required to provide a complete system for both power and signal/data shall be furnished and installed by Contractor. Any additional raceway required shall have routing of raceway approved by Owner prior to installation.

6. The Contractor shall be responsible for termination and final connection of power to all elements. All secondary electrical panels must be clearly marked with names of the branch circuits controlled by each breaker to aid in troubleshooting or isolating problems. All electrical services, disconnects, and breaker panels are to be labeled with what they control and where they are fed from.

7. Contractor shall not use wire nuts or electrical tape for any power or signal connection or any part of the work. All connections shall use a proper terminal block and spade terminal, or terminal block and direct connection as required. Covers shall be provided over-all high-power terminal blocks to prevent electrical shock.

8. Any equipment not certified as required shall require on site certification by a listed testing agency. All cost associated with obtaining on site certification shall be the responsibility of the Contractor. Written proof of certification or equivalent will be required prior to any work being performed on site.

9. Contractor to provide all required fiber transmitters and receivers. Contractor will be responsible to terminate and perform final connection of all cables.

## AESTHETIC CONSIDERATIONS

1. At the time of the release of this RFP the Owner is still developing certain finishes and aesthetic design elements for consideration. Contractor shall assume premium finishes on all elements not yet defined.

2. Post contract award, the Contractor must provide a comprehensive outline of intended finish details of all system equipment that is to be located in public viewing areas for Owner approval. Failure to submit these details shall make Contractor responsible for all finishes as required by Owner at no additional cost to Owner.

3. The Contractor shall not visibly display its trademarks or insignia on any of the Equipment or structural elements within public view. Unless explicitly negotiated with the Owner.

**FINAL ADJUSTMENT AND COMMISSIONING**

1. Schedule a time for the Owner and Contractor to perform the Final Adjustment and Commissioning. Notify the Owner at least seven (7) days in advance.

2. Furnish engineers who are familiar with the system to assist the Contractor during the Final Adjustment and Commissioning.

3. Record final settings on all equipment and submit with contract closeout documents.

**TRAINING**

1. The Contractor, at its own expense, will provide designated Owner representatives operator and maintenance training.

2. Training will be performed at the site by a qualified technician and shall occur either during installation of the equipment or immediately thereafter.

3. The training shall cover the operation, routine maintenance and troubleshooting of systems equipment.

4. Warranty period will commence at conclusion of the third consecutive successful event

**TESTING AND ACCEPTANCE**

1. Contractor must demonstrate the full capabilities of the provided systems and prove performance meets contractual specifications.

2. Confirmation will be required of, but not limited to, the following functions: operation of each system component, including back-up systems, control functionality and integration with existing systems.

3. Contractor must provide all necessary testing equipment for acceptance.

4. Upon notice from the Contractor of substantial completion and at a time to be mutually agreed upon, the Contractor will arrange for the testing of all operations of the systems comprised in scope of work at the time of substantial completion.

5. The following items must be completed and signed off by an appropriate Owner's official before the Owner will deem the system "Accepted":

   - Three Completed events with no equipment or system failures.
   - The Owner will not be responsible for any added costs as a result of an unsuccessful acceptance test.
   - Acceptance of the system includes, but is not limited to, the completed installation of all physical components as well as proper system functionality. Tests of the system shall not occur until after the system has been installed, and all work completed.

6. Document all acceptance testing, calibration and correction procedures described herein. Include the following information:

   - Performance date of the given procedure.

- Condition of performance of procedure.
- Type of procedure, and description.
- Parameters measured and their values, including values measured prior to calibration or correction, as applicable.
- The names of personnel conducting the procedure.
- The equipment used to conduct the procedure.

7. Upon completion of initial tests and adjustments, submit written report of tests to the Owner along with all documents, diagrams, and recorded drawings required herein.

**FINAL PROCEDURES**

1. Perform any and all "punch-list" work to correct inadequate performance or unacceptable conditions, as determined by the Owner, at no additional expense to the Owner.
2. Furnish all portable equipment to the Owner along with complete inventory documentation. All portable equipment shall be presented in the original manufacturers packing, complete with all included instructions, miscellaneous manuals, and additional documents.
3. Provide new acceptance testing in the same format as initial test reports.
4. Check, inspect, and if necessary, adjust all systems, equipment, devices, and components specified, at the Owner's convenience, approximately thirty (30) days after the Owner's acceptance.
5. Upon completion of the Work, the Owner may elect to verify test data as part of acceptance procedure. Provide personnel and equipment, at the convenience of the Owner, to reasonably demonstrate system performance and to assist with such tests without additional cost to the Owner.

END OF PART 3 EXECUTION

ANTHONY JAMES PARTNERS

# BROADCAST CONTROL ROOM - BID FORM
## 3.22.23

| REF | MANUFACTURER | MODEL | DESCRIPTION | QTY | UNIT | EXTENDED |
|---|---|---|---|---|---|---|
| | | | **CAMERA SYSTEM** | | | |
| | | | **CAMERA 1** | | | |
| 1 | JVC | GYHM890F20 | GY-HM890 ProHD Shoulder Mount Camcorder with Fujinon XT20SX4.7BRM Lens is a kit from JVC that includes the JVC GY-HM890 HD Camera and a Fujinon XT20SX4.7BRM lens. The camera features a shoulder mount design, with a 1/3" sensor, and an interchangeable lens mount | 1 | | $ - |
| 2 | JVC | HZAS1G | Zoom Control Unit for Canon and Fujinon Lenses | 1 | | $ - |
| 3 | ELVID | RVM-7B-ALT | very lightweight on-camera monitor offering high image quality and incorporating remote shutter release functionality. Set up and monitor your shots in 1280 x 800 high resolution and sharp 800:1 contrast ratio | 1 | | $ - |
| 4 | Manfrotto | MVK526TWINFAUS | Manfrotto 526-1 Fluid Head with 645 FAST Twin Aluminum Tripod System with 2-in-1 Spreader & Bag | 1 | | $ - |
| 5 | Thor | F-M1SDI-3G-TX/RX-ST | 1 channel SD/HD 3G SDI Fiber Extender 1080p/60hz / RS485 | 1 | | $ - |
| 6 | Clear Com | RS-701 | Single-Channel Beltpack With XLR-3 Connector | 1 | | $ - |
| 7 | Clear Com | CC-400-X4 | Double-Ear Headset With 4-Pin XLR-F Connector | 1 | | $ - |
| 8 | Integration | Material | Integration Material | 1 | | $ - |
| **Camera 1 Subtotal** | | | | | | $ - |
| | | | **CAMERA 3 PTZ-1** | | | |
| 9 | BirdDog | P200 | Full HD PTZ Camera | 1 | | $ - |
| 10 | Manfrotto | MVK526TWINFAUS | Manfrotto 526-1 Fluid Head with 645 FAST Twin Aluminum Tripod System with 2-in-1 Spreader & Bag | 1 | | $ - |
| 11 | Thor | F-M1SDI-3G-TX/RX-ST | 1 channel SD/HD 3G SDI Fiber Extender 1080p/60hz / RS485 | 1 | | $ - |
| 12 | Camplex | HF-TS02ST-0100 | Two-Channel ST Single-Mode Fiber Tactical Snake Cable (100') | 3 | | $ - |
| 13 | Hannay Reels | C16-10-11 | Cable Reel Silver | 3 | | $ - |
| 14 | Integration | Material | Integration Material | 1 | | $ - |
| **Camera 4 Subtotal** | | | | | | $ - |
| | | | **CONFIDENCE CAMERA** | | | |
| 15 | Marshall Electronics | CV566 | Marshall Electronics Micro CV566 Genlock Camera with 3.6mm Lens | 1 | | $ - |
| 16 | Thor | F-M1SDI-3G-TX/RX-ST | 1 channel SD/HD 3G SDI Fiber Extender 1080p/60hz / RS485 | 1 | | $ - |
| 17 | Integration | Material | Integration Material | 1 | | $ - |
| **Confidence Camera Subtotal** | | | | | | **$ -** |
| **CAMERA SYSTEM SUBTOTAL** | | | | | | |
| | | | **CAMERA SUPPORT EQUIPMENT** | | | |
| | | | **CONTROLLER** | | | |
| 18 | BirdDog | PTZ Keyboard | PTZ Camera Remote Controller | 1 | | $ - |
| 19 | Cisco | WS-C2960CX-8TC-L | 8 Port Managed Switch ***(Camera Controllers)*** | 1 | | $ - |
| 20 | Integration | Material | Integration Material | 1 | | $ - |
| **Controller Subtotal** | | | | | | **$ -** |
| **CAMERA SUPPORT SUBTOTAL** | | | | | | **$ -** |
| | | | **CONTROL ROOM** | | | |
| | | | **SWITCHER** | | | |
| 21 | Black Magic | ATEM 1 M/E Constellation HD | 1 M/E live production switcher includes 10 standards converted 3G-SDI inputs, 6 x 3G-SDI outputs, DVE, 4 chroma keyers, a 16 way multiview, media players, talkback and USB webcam output. | 1 | | $ - |
| 22 | Black Magic | ATEM 1 M/E Advanced Panel 10 | Compact 1 M/E hardware panel with 10 buttons and 1 system control LCD screen with customizable button colors and input labels. Includes a joystick for DVE positioning and a professional T-bar fader. | 1 | | $ - |
| 23 | Avocent | LV5020P-001 | LongView CATx KVM Extender Kit - Dual DisplayPort, USB, & Audio - up to 500ft | 1 | | $ - |
| 24 | Samsung | LU28R550UQNXZA | UR55 Series 28" IPS 4K UHD Monitor (User Interface) | 2 | | $ - |
| 25 | Yamaha | MSP3 | Amplified Two Way Compact Monitor w/ 4" Woofer-Shielded | 2 | | $ - |
| 26 | Clear Com | MS-704 | 4-Channel 2RU Main Station with built-in Speaker | 1 | | $ - |
| 27 | Clear Com | CC-110-X5 | Lite Weight Single-Ear Standard HS, XLR-5M | 1 | | $ - |
| 28 | Integration | Material | Integration Material | 1 | | $ - |
| **Production Switcher** | | | | | | **$ -** |
| | | | **GRAPHICS** | | | |
| 29 | Black Magic | Fusion Software | GPU accelerated 2D and 3D compositing and motion graphics software with a massive toolset and node based workflow. You get paint, rotoscope, titling, animation, keying, 3D particle systems, advanced keyframe animation, unlimited distributed network rendering, 3D models and scenes support, and more. | 1 | | $ - |
| 30 | Dell | Precision 7920 Rack Workstation | PC for Fusion Software | 1 | | $ - |
| 31 | Avocent | LV5020P-001 | LongView CATx KVM Extender Kit - Dual DisplayPort, USB, & Audio - up to 500ft | 1 | | $ - |
| 32 | Samsung | LU28R550UQNXZA | UR55 Series 28" IPS 4K UHD Monitor (User Interface) | 2 | | $ - |
| 33 | Marshall Electronics | ML-702 | Dual 7" LCD Rackmount Monitor (3 RU) ***(Routables)*** | 1 | | $ - |
| 34 | Clear Com | MS-704 | 4-Channel 2RU Main Station with built-in Speaker | 1 | | $ - |
| 35 | Clear Com | CC-110-X5 | Lite Weight Single-Ear Standard HS, XLR-5M | 1 | | $ - |
| 36 | Integration | Material | Integration Material | 1 | | $ - |
| **Graphics Subtotal** | | | | | | **$ -** |
| | | | **CONTROL ROOM CONSOLE** | | | |
| 37 | Laguna Design | PB16-4 | Pedestal Base 16" Deep - 4 Bay Assembly w/ 8RU Rack Space | 1 | | $ - |
| 38 | Laguna Design | PB10-2 | 10" Deep Pedestal Base (2 Bay) | 1 | | $ - |
| 39 | Laguna Design | PED FOOT | Formed Steel Pedestal Foot Assembly w/ Swivel Leveler | 3 | | $ - |
| 40 | Laguna Design | SP2 | Side Panel Flared (BRANDING ON EXPOSED SIDES INCLUDED) | 2 | | $ - |
| 41 | Laguna Design | PS16-15 | PD Thin, 1-15A, 16 Out, 9' Cord w/ NEMA 5-15p Plug | 2 | | $ - |
| 42 | Laguna Design | T16-4U | 4 Unit Modular Turret Used In 16" Deep Consoles | 3 | | $ - |
| 43 | Laguna Design | T-FILL | Filler Turret - Console Level | 2 | | $ - |
| 44 | Laguna Design | 7000-1000-NM 104 | 7000 Series 1000 Newton Cylinder Black Track Mount HD Supports | 3 | | $ - |
| 45 | Laguna Design | C-TOP | Standard Console Surface | 12 | | $ - |
| 46 | Laguna Design | CT-MOD SU | Cut Out, Support Assembly and Accessories in Delta Console Surface for Switcher | 1 | | $ - |
| 47 | Integration | Material | Integration Material | 1 | | $ - |
| **Control Room Console Subtotal** | | | | | | **$ -** |
| **CONTROL ROOM SUBTOTAL** | | | | | | |
| | | | | | | |
| | | | **TOC** | | | |
| | | | **RECORD AND PLAYBACK** | | | |
| 40 | AJA | KiPro Rack Ultra+ | Drive Base HDD Recorder | 1 | | $ - |
| 41 | AJA | KI-STOR1000-USB | 1TB HDD Storage Module | 2 | | $ - |

| | | | | | | |
|---|---|---|---|---|---|---|
| 42 | AJA | KI-STOR-DOCK | External Dock | 1 | | $ - |
| 43 | Integration | Material | Integration Material | 1 | | $ - |
| **Record and Playback Subtotal** | | | | | | **$ -** |
| | | | **ROUTER** | | | |
| 44 | AJA | KUMO-3232 | Compact 3G-SDI Router (2 RU) 32x32 | 1 | | $ - |
| 45 | AJA | KUMO-PWR | KUMO Power Supply | 1 | | $ - |
| 46 | AJA | KUMO-CP2 | CP2 Remote Control Panel | 4 | | $ - |
| 47 | Canare | 32MD-ST-2U | 32MD-ST-2U Staggered Mid-Size Video Patchbay (2 RU) | 2 | | $ - |
| 48 | Integration | Material | Integration Material | 1 | | $ - |
| **Routing Subtotal** | | | | | | **$ -** |
| | | | **TERMINAL GEAR** | | | |
| 49 | AJA | GEN10 | HD/SD/AES Sync Generator with Universal Power Supply | 1 | | $ - |
| 50 | AJA | OG-X-FR | openGear-compatible 2RU Rackframe | 1 | | $ - |
| 51 | AJA | OG-X-PS | 600 Watt Universal Power Supply for OGX Frame | 1 | | $ - |
| 52 | AJA | OG-3GDA-1x9 | openGear 1x9 3G-SDI Reclocking DA w/ Rear Module (PGM DA) | 2 | | $ - |
| 53 | APC | SRT2200RMXLA | High density, double-conversion on-line power protection with scalable runtime | 4 | | $ - |
| 54 | Contemporary Research | QMOD-SDI | HD-SDI Modulator | 1 | | $ - |
| 55 | Netgear | GS728TP v2 | 24 Port Managed Switch | 2 | | $ - |
| 56 | Integration | Material | Integration Material | 1 | | $ - |
| **Terminal Gear Subtotal** | | | | | | **$ -** |
| | | | **QC** | | | |
| 57 | Dell | 7000 | OptiPlex 7000 Small Form Factor | 1 | | $ - |
| 58 | Avocent | LV5020P-001 | LongView CATx KVM Extender Kit - Dual DisplayPort, USB, & Audio - up to 500ft | 1 | | $ - |
| 59 | Lilliput | LIL-RM1730S | 17.3 Inch Full HD Pull-out Rack Monitor with Waveform and Vectorscope (Program Monitor) | 2 | | $ - |
| 60 | Marshall | ML-503 | Triple 5" Rackmount LCD Monitor (2 RU) | 2 | | $ - |
| 61 | Marshall | AR-DM51B | 16 Channel Digital Audio Monitor with built-in live video preview screen | 1 | | $ - |
| 62 | Clear Com | RCS2700 | Programmable Intercom Source-Assignment Panel, 8x24 | 1 | | $ - |
| 63 | Clear Com | RM-704 | Rack Mount 4-Channel Headset / Speaker Station | 1 | | $ - |
| 64 | Clear Com | CC-110-X5 | Lite Weight Single-Ear Standard HS, XLR-5M | 1 | | $ - |
| 65 | Integration | Material | Integration Material | 1 | | $ - |
| **QC Subtotal** | | | | | | **$ -** |
| | | | **RACKS** | | | |
| 66 | Middle Atlantic | WRK-44-32 | WRK Series Rack, 44RU, 32"D | 3 | | $ - |
| 67 | Middle Atlantic | SPN-44-312 | Side Panels, 44RU, 31-32"D Racks | 2 | | $ - |
| 68 | Middle Atlantic | WM-VT | Vented Top | 3 | | $ - |
| 69 | Middle Atlantic | PDT-1220C-NS | Power Strip, 12 Outlet, 20A | 3 | | $ - |
| 70 | Middle Atlantic | LACE-P | Lace Strip, 45RU w/ Round Holes, 6pc | 2 | | $ - |
| 71 | Integration | Material | Integration Material | 1 | | $ - |
| **Racks Subtotal** | | | | | | **$ -** |
| **TOC SUBTOTAL** | | | | | | **$ -** |
| | | | **BROADCAST SUMMARY** | | | |
| **BROADCAST CONTROL ROOM EQUIPMENT AND MATERIALS TOTAL** | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | **CAMERA SYSTEM - ALTERNATES** | | | |
| | | | **CAMERA 2** | | | |
| 1 | JVC | GYHM890F20 | GY-HM890 ProHD Shoulder Mount Camcorder with Fujinon XT20SX4.7BRM Lens is a kit from JVC that includes the JVC GY-HM890 HD Camera and a Fujinon XT20SX4.7BRM lens. The camera features a shoulder mount design, with a 1/3" sensor, and an interchangeable lens mount | 1 | | $ - |
| 2 | JVC | HZAS1G | Zoom Control Unit for Canon and Fujinon Lenses | 1 | | $ - |
| 3 | ELVID | RVM-7B-ALT | very lightweight on-camera monitor offering high image quality and incorporating remote shutter release functionality. Set up and monitor your shots in 1280 x 800 high resolution and sharp 800:1 contrast ratio | 1 | | $ - |
| 4 | Manfrotto | MVK526TWINFAUS | Manfrotto 526-1 Fluid Head with 645 FAST Twin Aluminum Tripod System with 2-in-1 Spreader & Bag | 1 | | $ - |
| 5 | Thor | F-M1SDI-3G-TX/RX-ST | 1 channel SD/HD 3G SDI Fiber Extender 1080p/60hz / RS485 | 1 | | $ - |
| 6 | Clear Com | RS-701 | Single-Channel Beltpack With XLR-3 Connector | 1 | | $ - |
| 7 | Clear Com | CC-400-X4 | Double-Ear Headset With 4-Pin XLR-F Connector | 1 | | $ - |
| 8 | Integration | Material | Integration Material | 1 | | $ - |
| **Camera 2 Subtotal** | | | | | | **$ -** |
| | | | **CAMERA 4 PTZ-2** | | | |
| 9 | BirdDog | P200 | Full HD PTZ Camera | 1 | | $ - |
| 10 | Manfrotto | MVK526TWINFAUS | Manfrotto 526-1 Fluid Head with 645 FAST Twin Aluminum Tripod System with 2-in-1 Spreader & Bag | 1 | | $ - |
| 11 | Thor | F-M1SDI-3G-TX/RX-ST | 1 channel SD/HD 3G SDI Fiber Extender 1080p/60hz / RS485 | 1 | | $ - |
| 12 | Camplex | HF-TS02ST-0100 | Two-Channel ST Single-Mode Fiber Tactical Snake Cable (100') | 3 | | $ - |
| 13 | Hannay Reels | C16-10-11 | Cable Reel Silver | 3 | | $ - |
| 14 | Integration | Material | Integration Material | 1 | | $ - |
| **Camera 5 Subtotal** | | | | | | **$ -** |
| | | | **CAMERA 5 PTZ-3** | | | |
| 15 | BirdDog | P200 | Full HD PTZ Camera | 1 | | $ - |
| 16 | Manfrotto | MVK526TWINFAUS | Manfrotto 526-1 Fluid Head with 645 FAST Twin Aluminum Tripod System with 2-in-1 Spreader & Bag | 1 | | $ - |
| 17 | Thor | F-M1SDI-3G-TX/RX-ST | 1 channel SD/HD 3G SDI Fiber Extender 1080p/60hz / RS485 | 1 | | $ - |
| 18 | Camplex | HF-TS02ST-0100 | Two-Channel ST Single-Mode Fiber Tactical Snake Cable (100') | 3 | | $ - |
| 19 | Hannay Reels | C16-10-11 | Cable Reel Silver | 3 | | $ - |
| 20 | Integration | Material | Integration Material | 1 | | $ - |
| **Camera 6 Subtotal** | | | | | | **$ -** |
| | | | **REPLAY** | | | |
| 21 | Newtek | BDL-000000007 | 3Play 3P1 2RU (includes 3Play 3P1 CS) | 1 | | $ - |
| 22 | Samsung | LU28R550UQNXZA | UR55 Series 28" IPS 4K UHD Monitor (User Interface) | 2 | | $ - |
| 23 | Avocent | LV5020P-001 | LongView CATx KVM Extender Kit - Dual DisplayPort, USB, & Audio - up to 500ft | 1 | | $ - |
| 23 | Marshall Electronics | ML-702 | Dual 7" LCD Rackmount Monitor (3 RU) ***(Routables)*** | 1 | | $ - |
| 24 | Clear Com | RM-704 | Rack Mount 4-Channel Headset / Speaker Station | 1 | | $ - |
| 25 | Clear Com | CC-110-X5 | Lite Weight Single-Ear Standard HS, XLR-5M | 1 | | $ - |
| 26 | Integration | Material | Integration Material | 1 | | $ - |
| **Replay Subtotal** | | | | | | **$ -** |
| | | | **ALTERNATES SUMMARY** | | | |
| **ALTERNATES TOTAL** | | | | | | |

ANTHONY JAMES PARTNERS

# BROADCAST CABLING - BID FORM
## 3.22.23

| REF | MANUFACTURER | MODEL | DESCRIPTION | QTY | UNIT | EXTENDED |
|---|---|---|---|---|---|---|
| | | | **BROADCAST CABLING SYSTEMS - BASE** | | | |
| | | | **JUNCTION BOX 202** | | | |
| 1 | Joesh Electronics | 16x22x10CPTDSSSS | 7RU Semi-Recessed or Surface Mounted Junction Box w/ Cable Passthrough | 1 | | $ - |
| 2 | Integration | Material | Integration Material | 1 | | $ - |
| 3 | Custom Plate | 12ST-1RU | Custom 1 RU plate with (12) ST Connectors | 2 | | $ - |
| 4 | Belden | B9W241T | Indoor/Outdoor 12 Strand SM Fiber | 1 | | $ - |
| 5 | AFL | FUSE-ST9SMU-6 | SM ST Fusion-Spliced Connectors | 4 | | $ - |
| 6 | Belden | 1513C | Audio Snake Cable, #24-12pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 7 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR and (12) Neutrik FXLR Connectors | 2 | | $ - |
| 8 | Belden | 1510C | Audio Snake Cable, #24-4pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 9 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR grouped for intercom. 3 per channel | 2 | | $ - |
| **Junction Box 202 Subtotal** | | | | | | **$ -** |
| | | | **TOC to CONTROL ROOM 1** | | | |
| 1 | Custom Plate | 12ST-1RU | Custom 1 RU plate with (12) ST Connectors | 2 | | $ - |
| 2 | Integration | Material | Integration Material | 1 | | $ - |
| 3 | Belden | B9W241T | Indoor/Outdoor 12 Strand SM Fiber | 1 | | $ - |
| 4 | AFL | FUSE-ST9SMU-6 | SM ST Fusion-Spliced Connectors | 4 | | $ - |
| 5 | Belden | 1513C | Audio Snake Cable, #24-12pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 6 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR and (12) Neutrik FXLR Connectors | 2 | | $ - |
| 7 | Belden | 1510C | Audio Snake Cable, #24-4pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 8 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR grouped for intercom. 3 per channel | 2 | | $ - |
| **TOC to Control Room 1 Subtotal** | | | | | | **$ -** |
| | | | **BROADCAST CABLING BASE SUMMARY** | | | |
| **BROADCAST CABLING BASE - EQUIPMENT AND MATERIALS TOTAL** | | | | | | **$ -** |

| REF | MANUFACTURER | MODEL | DESCRIPTION | QTY | UNIT | EXTENDED |
|---|---|---|---|---|---|---|
| | | | **BROADCAST CABLING SYSTEMS - ALTERNATES** | | | |
| | | | **JUNCTION BOX 101** | | | |
| 1 | Joesh Electronics | 16x22x10CPTDSSSS | 7RU Semi-Recessed or Surface Mounted Junction Box w/ Cable Passthrough | 1 | | $ - |
| 2 | Integration | Material | Integration Material | 1 | | $ - |
| 3 | Custom Plate | 12ST-1RU | Custom 1 RU plate with (12) ST Connectors | 2 | | $ - |
| 4 | Belden | B9W241T | Indoor/Outdoor 12 Strand SM Fiber | 1 | | $ - |
| 5 | AFL | FUSE-ST9SMU-6 | SM ST Fusion-Spliced Connectors | 4 | | $ - |
| 6 | Belden | 1513C | Audio Snake Cable, #24-12pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 7 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR and (12) Neutrik FXLR Connectors | 2 | | $ - |
| 8 | Belden | 1510C | Audio Snake Cable, #24-4pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 9 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR grouped for intercom. 3 per channel | 2 | | $ - |
| **Junction Box 101 Subtotal** | | | | | | **$ -** |
| | | | **JUNCTION BOX 102** | | | |
| 1 | Joesh Electronics | 16x22x10CPTDSSSS | 7RU Semi-Recessed or Surface Mounted Junction Box w/ Cable Passthrough | 1 | | $ - |
| 2 | Integration | Material | Integration Material | 1 | | $ - |
| 3 | Custom Plate | 12ST-1RU | Custom 1 RU plate with (12) ST Connectors | 2 | | $ - |
| 4 | Belden | B9W241T | Indoor/Outdoor 12 Strand SM Fiber | 1 | | $ - |
| 5 | AFL | FUSE-ST9SMU-6 | SM ST Fusion-Spliced Connectors | 4 | | $ - |
| 6 | Belden | 1513C | Audio Snake Cable, #24-12pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 7 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR and (12) Neutrik FXLR Connectors | 2 | | $ - |
| 8 | Belden | 1510C | Audio Snake Cable, #24-4pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 9 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR grouped for intercom. 3 per channel | 2 | | $ - |
| **Junction Box 102 Subtotal** | | | | | | **$ -** |
| | | | **JUNCTION BOX 103** | | | |
| 1 | Joesh Electronics | 16x22x10CPTDSSSS | 7RU Semi-Recessed or Surface Mounted Junction Box w/ Cable Passthrough | 1 | | $ - |
| 2 | Integration | Material | Integration Material | 1 | | $ - |
| 3 | Custom Plate | 12ST-1RU | Custom 1 RU plate with (12) ST Connectors | 2 | | $ - |
| 4 | Belden | B9W241T | Indoor/Outdoor 12 Strand SM Fiber | 1 | | $ - |
| 5 | AFL | FUSE-ST9SMU-6 | SM ST Fusion-Spliced Connectors | 4 | | $ - |
| 6 | Belden | 1513C | Audio Snake Cable, #24-12pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 7 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR and (12) Neutrik FXLR Connectors | 2 | | $ - |
| 8 | Belden | 1510C | Audio Snake Cable, #24-4pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 9 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR grouped for intercom. 3 per channel | 2 | | $ - |
| **Junction Box 103 Subtotal** | | | | | | **$ -** |
| | | | **JUNCTION BOX 104** | | | |
| 1 | Joesh Electronics | 16x22x10CPTDSSSS | 7RU Semi-Recessed or Surface Mounted Junction Box w/ Cable Passthrough | 1 | | $ - |
| 2 | Integration | Material | Integration Material | 1 | | $ - |
| 3 | Custom Plate | 12ST-1RU | Custom 1 RU plate with (12) ST Connectors | 2 | | $ - |
| 4 | Belden | B9W241T | Indoor/Outdoor 12 Strand SM Fiber | 1 | | $ - |
| 5 | AFL | FUSE-ST9SMU-6 | SM ST Fusion-Spliced Connectors | 4 | | $ - |
| 6 | Belden | 1513C | Audio Snake Cable, #24-12pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 7 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR and (12) Neutrik FXLR Connectors | 2 | | $ - |
| 8 | Belden | 1510C | Audio Snake Cable, #24-4pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 9 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR grouped for intercom. 3 per channel | 2 | | $ - |
| **Junction Box 104 Subtotal** | | | | | | **$ -** |
| | | | **JUNCTION BOX 201** | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Joesh Electronics | 16x22x10CPTDSSSS | 7RU Semi-Recessed or Surface Mounted Junction Box w/ Cable Passthrough | 1 | | $ - |
| 2 | Integration | Material | Integration Material | 1 | | $ - |
| 3 | Custom Plate | 12ST-1RU | Custom 1 RU plate with (12) ST Connectors | 2 | | $ - |
| 4 | Belden | B9W241T | Indoor/Outdoor 12 Strand SM Fiber | 1 | | $ - |
| 5 | AFL | FUSE-ST9SMU-6 | SM ST Fusion-Spliced Connectors | 4 | | $ - |
| 6 | Belden | 1513C | Audio Snake Cable, #24-12pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 7 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR and (12) Neutrik FXLR Connectors | 2 | | $ - |
| 8 | Belden | 1510C | Audio Snake Cable, #24-4pr, TC, Indiv. Shielded, CM | 1 | | $ - |
| 9 | Custom Plate | 12P-AUD | 2RU Panel w/ (12) Neutrik MXLR grouped for intercom. 3 per channel | 2 | | $ - |
| **Junction Box 201 Subtotal** | | | | | | **$ -** |
| **BROADCAST CABLING ALTERNATES SUMMARY** | | | | | | |
| **BROADCAST CABLING ALTERNATES - EQUIPMENT AND MATERIALS TOTAL** | | | | | | **$ -** |

| | | | | | | |
|---|---|---|---|---|---|---|
| **INSTALLATION, MATERIALS AND LABOR - BROADCAST CABLING BASE** | | | | | | |
| 1 | Integration | Labor | Integration Labor | 1 | $ - | $ - |
| 2 | Integration | Travel | Integration Travel | 1 | $ - | $ - |
| **INTEGRATION SUBTOTAL** | | | | | | **$ -** |

| | | | | | | |
|---|---|---|---|---|---|---|
| **INSTALLATION, MATERIALS AND LABOR - BROADCAST CABLING ALTERNATES** | | | | | | |
| 1 | Integration | Labor | Integration Labor | 1 | $ - | $ - |
| 2 | Integration | Travel | Integration Travel | 1 | $ - | $ - |
| **INTEGRATION SUBTOTAL** | | | | | | **$ -** |

# TECHNOLOGY UPGRADE
# DRAWING PACKAGE

## NEW FAIRFIELD HIGH SCHOOL

MARCH 22, 2023
FHS20-1616

**ANTHONY JAMES PARTNERS**

| NO. | DATE | BY | REVISIONS |
|---|---|---|---|
| | | | |


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PROJECT NAME: NEW FAIRFIELD HIGH SCHOOL TECHNOLOGY UPGRADE

SHEET TITLE: TITLE PAGE

| | |
|---|---|
| DATE | March 22, 2023 |
| DRAWN BY | BALDWIN |
| ENGINEERED BY | MARTIN |
| CHECKED BY: MARTIN | DATE: 03/22/23 |
| PROJECT NO. | FHS20-1616 |
| SHEET NO. | AV0-000 |

| SHEET NUMBER | SHEET TITLE | ISSUE DATE | REVISION DATE |
|---|---|---|---|
| AV0-000 | TITLE PAGE | 03.22.23 | |
| AV0-001 | TABLE OF CONTENTS - 01 | 03.22.23 | |
| AV0-002 | LEGEND - 1 | 03.22.23 | |
| AV1-100 | FIRST LEVEL - 01 - PLAN VIEW | 03.22.23 | |
| AV1-101 | SECOND LEVEL - 02 - PLAN VIEW | 03.22.23 | |
| AV2-100 | SINGLE LINES - VIDEO ROUTER 1-32 | 03.22.23 | |
| AV2-101 | SINGLE LINES - CAMERAS 1-6 | 03.22.23 | |
| AV2-102 | SINGLE LINES - SWITCHER | 03.22.23 | |
| AV2-103 | SINGLE LINES - REPLAY | 03.22.23 | |
| AV2-104 | SINGLE LINES - RECORD / QC | 03.22.23 | |
| AV2-105 | SINGLE LINES - GRAPHICS | 03.22.23 | |
| AV2-200 | RISER DIAGRAM | 03.22.23 | |
| AV2-201 | JBT DETAIL 01 | 03.22.23 | |
| AV2-202 | JBT DETAIL 02 | 03.22.23 | |
| AV2-501 | FONT CONSOLE DETAILS | 03.22.23 | |
| AV2-502 | BOX DETAILS | 03.22.23 | |
| AV2-503 | RACK DETAILS | 03.22.23 | |
| AV2-601 | RACK ELEVATIONS | 03.22.23 | |

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PROJECT NAME:
NEW FAIRFIELD HIGH SCHOOL
TECHNOLOGY UPGRADE

SHEET TITLE:
TABLE OF CONTENTS

DATE
March 22, 2023

DRAWN BY
BALDWIN

ENGINEERED BY
MARTIN

CHECKED BY
MARTIN

DATE
03/22/23

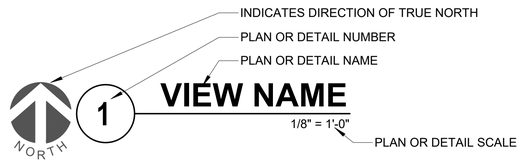
PROJECT NO.
FHS20-1616

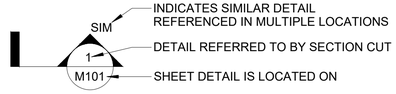
SHEET NO.
AV0-001

## VIEW KEY

NAME
10' - 0"
LEVEL NAME
HEIGHT ABOVE PROJECT 0' - 0"

1 INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL




## GENERAL CONDUIT NOTES

1. COORDINATE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLETS, WIRE WAYS, PANELS, ETC. ACCORDING TO PROJECT GENERAL CONDITIONS.
2. PROVIDE STEEL CONDUIT NO LESS THAN ¾" IN TRADE SIZE UNLESS OTHERWISE NOTED.
3. PROVIDE CONDUIT WITH PULL CORD. DEBUR, CLEAN, CAP AND TAG.
4. INSTALL CONDUIT MAINTAINING A RADIUS BEND NO LESS THAN 6 TIMES INTERNAL DIAMETER FOR CONDUIT 2" AND SMALLER. NO LESS THAN 10 TIMES INTERNAL DIAMETER FOR CONDUIT LARGER THAN 2".
5. ROUTE CONDUIT WITH OTHER BUILDING SERVICES AND CONCEAL WHENEVER POSSIBLE. GROUP CONDUIT AND RUN PARALLEL ALONG A SINGLE BUILDING COLUMN LINE, HOLD TIGHT TO STRUCTURE AND PAINT AS DIRECTED BY THE ARCHITECT.
6. PROVIDE A PULL BOX AS REQUIRED IN A CONDUIT RUN SO THAT ANY SEGMENT WITHIN THE RUN IS LESS THAN 100' IN LENGTH, OR IF THE SUMMATION OF BEND RADIUSES WITH A SEGMENT IS GREATER THAN 180 DEGREES.
7. SIZE PULL BOX SO THAT IT'S LENGTH IS NO LESS THAN 8 TIMES THE DIAMETER OF THE LARGEST CONDUIT AND THE WIDTH IS NO LESS THAN ¼ THE LENGTH.
8. PROVIDE BLANK COVERS FOR ROUGH-IN BOXES WITHOUT PLATES. PROVIDE TEMPORARY LABELING ON BLANK COVERS DESCRIBING SYSTEM SERVED.

### CONDUIT KEYNOTES LEGEND

1. ¾" CONDUIT
2. 1" CONDUIT
3. 1 1/4" CONDUIT
4. 1 1/2" CONDUIT
5. 2" CONDUIT
6. 2-1/2" CONDUIT
7. 3" CONDUIT
8. 4" CONDUIT

NOTE: AS STATED ABOVE, ALL CONDUIT NOT HAVING A SIZE ATTACHED IS CONSIDERED ¾" DIAMETER CONDUIT.

## TELECOM ROOM REFERENCE

| TELECOM ROOM | FLOOR PLAN REFERENCE | ARCH ROOM NUMBER |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |

## GENERAL NOTES:

1. ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
2. ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
3. ALL INTERIM BOXES AND INTEGRAL POWER POWER OR CONDUIT TO AV PLATES AND FLOORBOXES MAY NOT BE INDICATED.

## TECHNOLOGY SYMBOL NOTES:

1. REFER TO CABLE SCHEDULE ON XXXX AND CABLE TYPE SCHEDULE ON XXXX FOR ADDITIONAL INFORMATION. SYMBOL SUBSCRIPT INDICATES FLOOR NUMBER-QUANDRANT-JUNCTION BOX.
2. A CAMERA HEIGHT IDENTIFIES THE HEIGHT FROM THE FLOOR TO THE CENTER OF THE CAMERA LENS. NO HEIGHT REFERS TO MOUNTING THE CAMERA ON THE CEILING. REFER TO THE INDIVIDUAL CAMERA SCHEDULE FOR ADDITIONAL INFORMATION.
3. REFER TO XXXX FOR AV PANEL CONNECTION SCHEDULE ALSO REFER TO DETAILS ON XXXX FOR PLATE DETAILS.

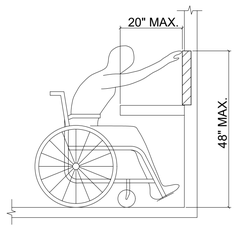
## TECHNOLOGY SYMBOLS

| SYMBOL: | DESCRIPTION: | NOTE: |
|---|---|---|
| | QUAD POWER RECEPTACLE | 120V-20A |
| | TWIST LOCK POWER RECEPTACLE - 20A | 120V-20A-1PH L5-20R |
| | TWIST LOCK POWER RECEPTACLE - 30A | 120V-30A-1PH L5-30R |
| L | LOW VOLTAGE WALL PLATE | |
| JBT### | TECHNOLOGY CONNECTION BOX | JOSEPH ELECTRONICS JE-JBT-22x22x10-CPTSD-SS-S (10RU) |
| | TECHNOLOGY EQUIPMENT RACK | MIDDLE ATLANTIC |

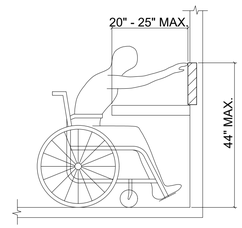
## TECHNOLOGY INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATIONS DETAIL ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
3. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
4. VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. THIS SHALL OCCUR PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
5. FLUSH MOUNT ALL TELECOMMUNICATIONS OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
6. TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
7. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS.
8. ALL MONITORS, PROJECTORS AND TELECOMMUNICATION FLOOR BOXES SHALL RECEIVE (1) 20A 120V POWER RECEPTACLE UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
9. PROVIDE JUNCTION BOX, RECESSED WHERE APPLICABLE, AT EACH SPEAKER OR SPEAKER GROUPING FOR CONDUIT TERMINATION. BOX TO BE WITHIN 2' OF SPEAKERS. SIZE JUNCTION BOX AS REQUIRED FOR CONDUIT ROUTING THROUGH BOX. PROVIDE ¾" CONDUIT INTERCONNECTING LOUDSPEAKERS WITHIN SAME SPEAKER ZONE.
10. ALL LADDER RACK AND CABLE TRAY SIZES ARE AS DEFINED ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS AND INSTALLATION REQUIREMENTS, INCLUDING FIRE STOPPING FOR DUCTED CABLE TRAY IF REQUIRED.

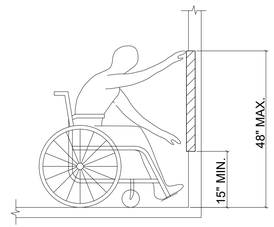
## ADA STANDARDS FOR ACCESSIBLE DESIGN




INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.

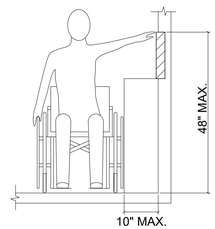



INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR

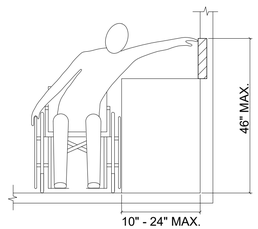



INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR

### ADA GUIDELINES - FRONT ACCESS




INSTALL DEVICE AT 44" ABOVE FINISHED FLOOR




INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR

### ADA GUIDELINES - SIDE ACCESS

| NO. | DATE | BY | REVISIONS |
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NEW FAIRFIELD HIGH SCHOOL


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PROJECT NAME: NEW FAIRFIELD HIGH SCHOOL TECHNOLOGY UPGRADE

SHEET TITLE: LEGEND

DATE: March 22, 2023
DRAWN BY: BALDWIN
ENGINEERED BY: MARTIN
CHECKED BY: MARTIN
DATE: 03/22/23
PROJECT NO.: FHS20-1616

SHEET NO.: AV0-002


1 1ST LEVEL - PLAN VIEW

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

| NO. | DATE | BY | REVISIONS |
|---|---|---|---|
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PROJECT NAME: NEW FAIRFIELD HIGH SCHOOL
TECHNOLOGY UPGRADE

SHEET TITLE: 1ST LEVEL - PLAN VIEW

DATE: March 22, 2023

DRAWN BY: BALDWIN

ENGINEERED BY: MARTIN

CHECKED BY: MARTIN

DATE: 03/22/23

PROJECT NO.: FHS20-1616

SHEET NO.: AV1-100


1 2ND LEVEL - PLAN VIEW

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

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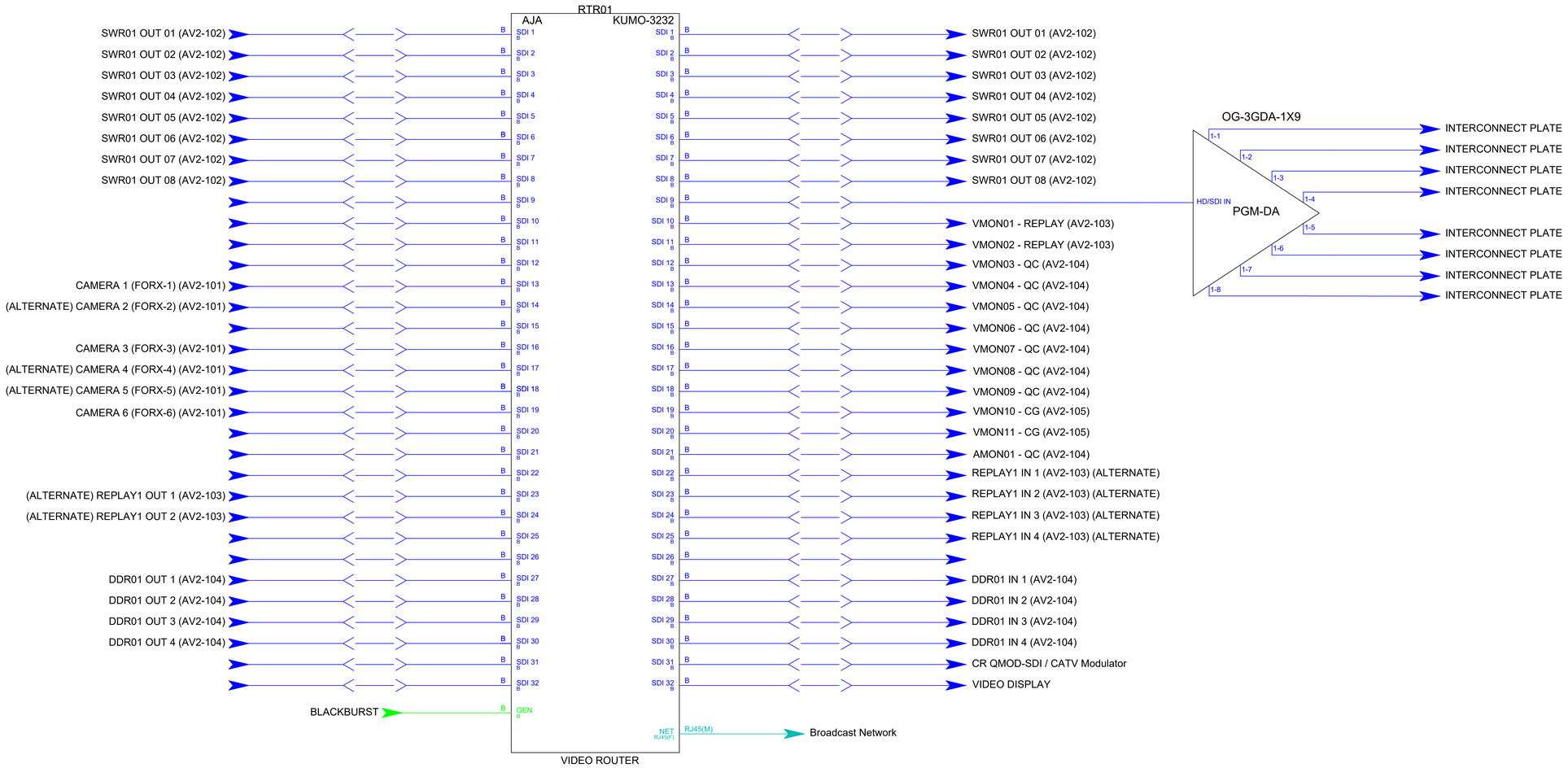
PROJECT NAME: NEW FAIRFIELD HIGH SCHOOL TECHNOLOGY UPGRADE

SHEET TITLE: 2ND LEVEL - PLAN VIEW

| | |
|---|---|
| DATE | March 22, 2023 |
| DRAWN BY | BALDWIN |
| ENGINEERED BY | MARTIN |
| CHECKED BY | MARTIN |
| DATE | 03/22/23 |
| PROJECT NO. | FHS20-1616 |

SHEET NO.

AV1-101

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PROJECT NAME:
NEW FAIRFIELD HIGH SCHOOL
TECHNOLOGY UPGRADE

SHEET TITLE:
VIDEO ROUTER 1-32
SINGLE LINES

DATE
March 22, 2023

DRAWN BY
BALDWIN

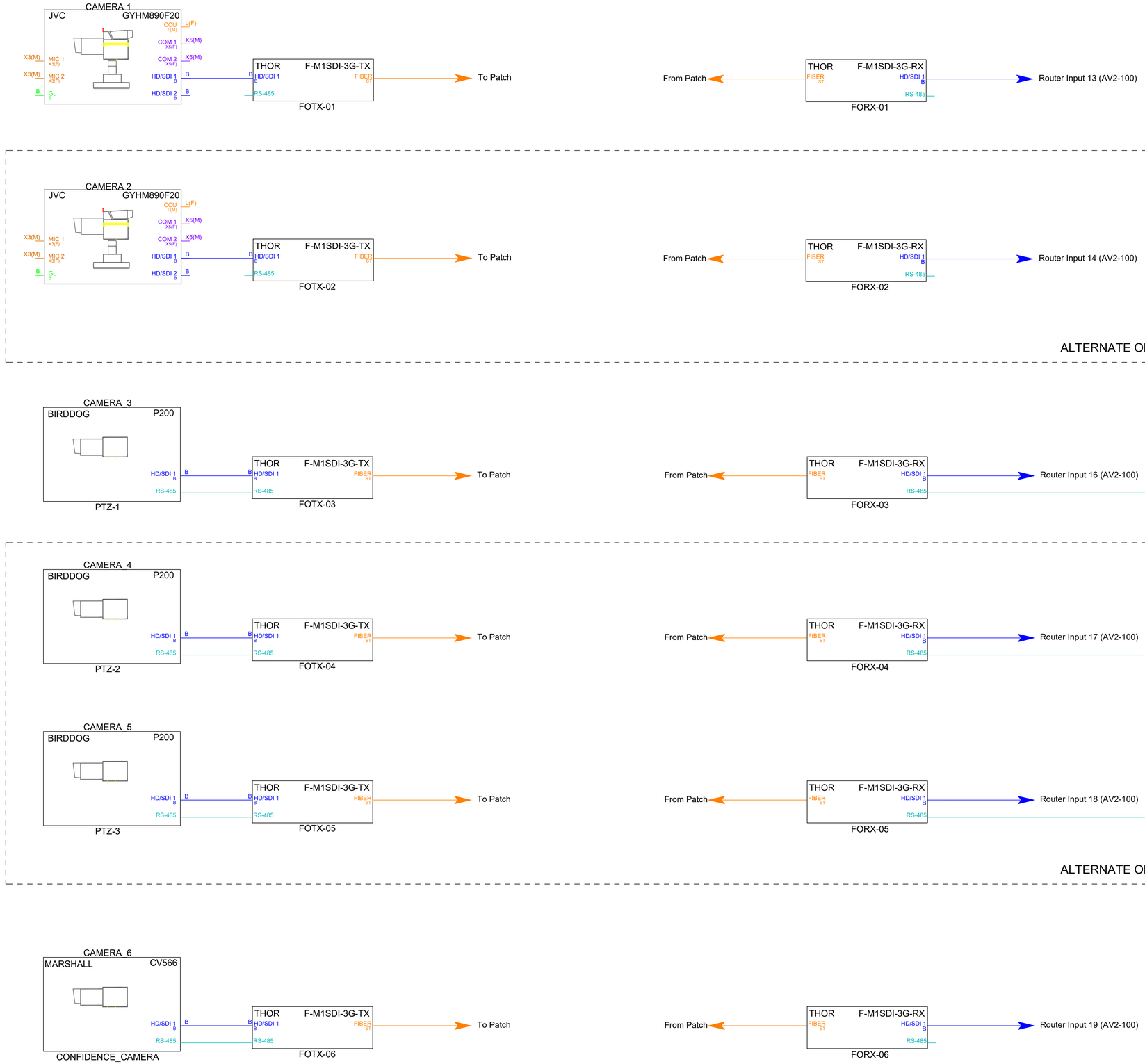
ENGINEERED BY
MARTIN

CHECKED BY
MARTIN

DATE
03/22/23

PROJECT NO.
FHS20-1616

SHEET NO.
AV2-100

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PROJECT NAME:
NEW FAIRFIELD HIGH SCHOOL
TECHNOLOGY UPGRADE

SHEET TITLE:
CAMERAS 1-6
SINGLE LINES

DATE
March 22, 2023

DRAWN BY
BALDWIN

ENGINEERED BY
MARTIN

CHECKED BY
MARTIN

DATE
03/22/23

PROJECT NO.
FHS20-1616

SHEET NO.
AV2-101

SWR01

BLACK MAGIC — ATEM 1 M/E

RTR01 OUT 01 (AV2-100) → SDI 01 B
RTR01 OUT 02 (AV2-100) → SDI 02 B
RTR01 OUT 03 (AV2-100) → SDI 03 B
RTR01 OUT 04 (AV2-100) → SDI 04 B
RTR01 OUT 05 (AV2-100) → SDI 05 B
RTR01 OUT 06 (AV2-100) → SDI 06 B
RTR01 OUT 07 (AV2-100) → SDI 07 B
RTR01 OUT 08 (AV2-100) → SDI 08 B
SDI 09 B
SDI 10 B
HDMI B

AJP-04/28 → AUD CH 1 X3F
AJP-04/29 → AUD CH 2 X3F
AJP-04/30 → AUD IN L RCA
AJP-04/31 → AUD IN R RCA

Broadcast Network → ETHERNET RJ45
BLACKBURST → REF IN B

HD-SDI 1 B → RTR01 IN 01 (AV2-100)
HD-SDI 2 B → RTR01 IN 02 (AV2-100)
PREVIEW OUT B → RTR01 IN 03 (AV2-100)
AUX OUT 1 B → RTR01 IN 04 (AV2-100)
AUX OUT 2 B → RTR01 IN 05 (AV2-100)
AUX OUT 3 B → RTR01 IN 06 (AV2-100)
SDI OUT 1 B → RTR01 IN 07 (AV2-100)
SDI OUT 2 B → RTR01 IN 08 (AV2-100)

AUD CH 1 X3M → SPEAKER YAM INPUT X3(F) — Control Room Left
AUD CH 2 X3M → SPEAKER YAM INPUT X3(F) — Control Room Right

HDMI 1 HDMI → DVI(M) → KVM-EXTENDER AVOCENT LV5020P-001 DISPLAY PORT DVI(F)
HDMI 2 HDMI → DVI(M) → KVM-EXTENDER AVOCENT LV5020P-001 DISPLAYORT DVI(F)
USB 2.0 USB-A → U(M) → USB U(F)

KVM-EXTENDER AVOCENT LV5020P-001 NET RJ45(F) → RJ45(M) → KVM NETWORK
KVM-EXTENDER AVOCENT LV5020P-001 DISPLAY PORT DP → USER_MON SAM UR55 DISPLAY PORT DP
KVM-EXTENDER AVOCENT LV5020P-001 USB U(F) → Mouse, USB Extender

USER_MON SAM UR55 (DISPLAY PORT DP, HDMI H) 28" IPS MON
USER_MON SAM UR55 (DISPLAY PORT DP, HDMI H) 28" IPS MON

Broadcast Network → RJ45(M) → BLK_MAGIC ADV_PNL10 NET RJ45(F) — 1-ME-PANEL
Broadcast Network → RJ45(M) → AJA CP2 NET RJ45(F) — CONTROL_PANEL

CLEARCOM MS-704 MASTER_INTERCOM
CH-A XLR → TO SAP INPUT 1
CH-A XLR → TO REPLAY IC CH A
CH-B XLR → TO SAP INPUT 2
CH-B XLR → TO REPLAY IC CH B
CH-C XLR → TO SAP INPUT 3
CH-C XLR → TO REPLAY IC CH C
CH-D XLR → TO SAP INPUT 4
CH-D XLR → TO REPLAY IC CH D

## TECHNICAL DIRECTOR STATION (TD) CR-1

KVM-EXTENDER AVOCENT LV5020P-001 NET RJ45(F) → RJ45(M) → KVM NETWORK
KVM-EXTENDER AVOCENT LV5020P-001 DISPLAY PORT DP → USER_MON SAM LU28R550UQNXZA DISPLAY PORT DP
KVM-EXTENDER AVOCENT LV5020P-001 USB U(F) → Mouse, USB Extender

USER_MON SAM LU28R550UQNXZA (DISPLAY PORT DP, HDMI H) 28" IPS MON
USER_MON SAM LU28R550UQNXZA (DISPLAY PORT DP, HDMI H) 28" IPS MON

CLEARCOM RM-704
FROM TD CHANNEL A → CH-A XLR
FROM TD CHANNEL B → CH-B XLR
FROM TD CHANNEL C → CH-C XLR
FROM TD CHANNEL D → CH-D XLR

## TECHNICAL DIRECTOR STATION (TD) CR-2 Theatre Control

REVISIONS

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NEW FAIRFIELD HIGH SCHOOL


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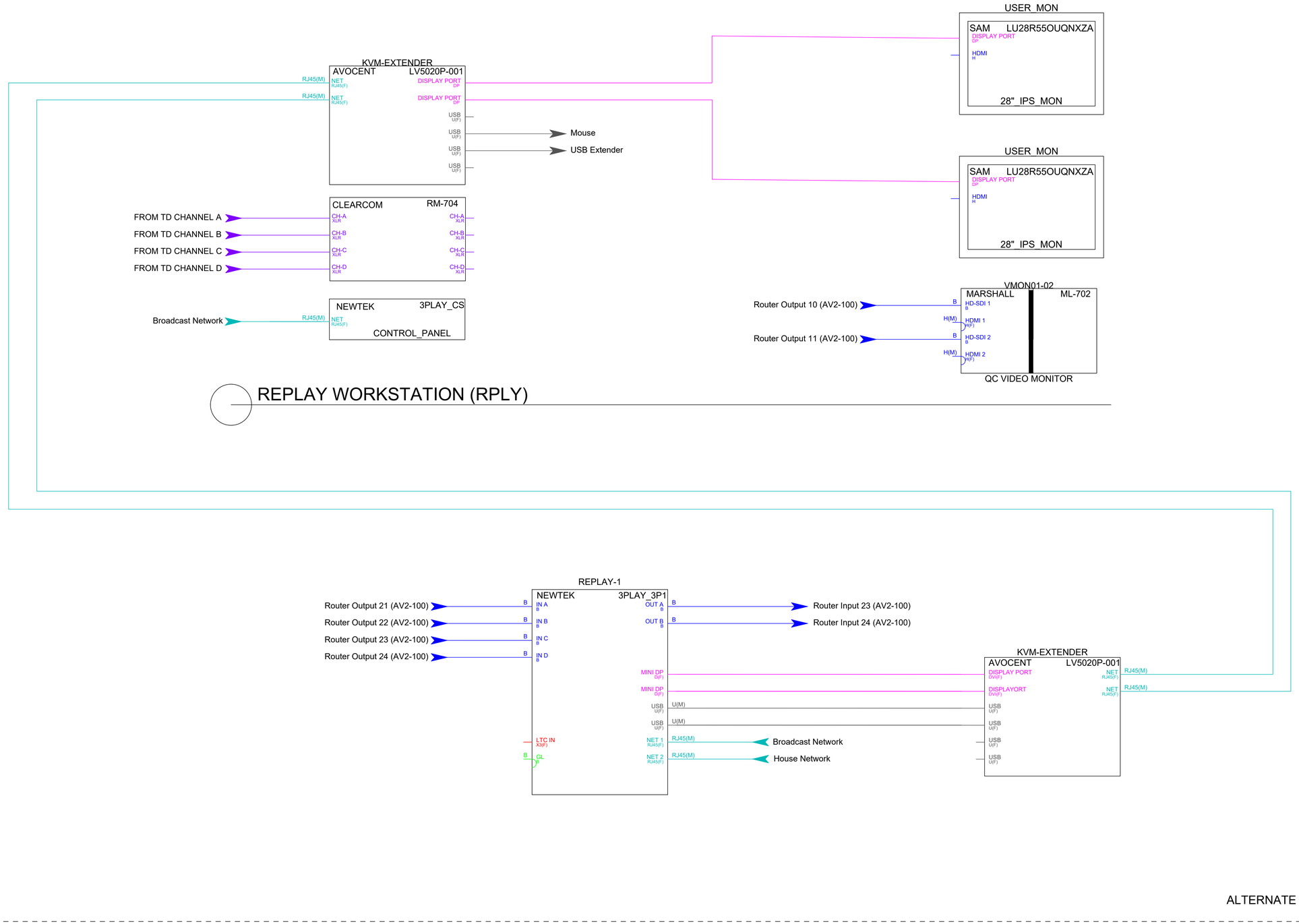
PROJECT NAME: NEW FAIRFIELD HIGH SCHOOL TECHNOLOGY UPGRADE

SHEET TITLE: CR-1 SWITCHER SINGLE LINES

DATE: March 22, 2023
DRAWN BY: BALDWIN
ENGINEERED BY: MARTIN
CHECKED BY: MARTIN
DATE: 03/22/23
PROJECT NO.: FHS20-1616

SHEET NO.: AV2-102

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PROJECT NAME:
NEW FAIRFIELD HIGH SCHOOL
TECHNOLOGY UPGRADE

SHEET TITLE:
CR-1 REPLAY
SINGLE LINES

DATE
March 22, 2023

DRAWN BY
BALDWIN

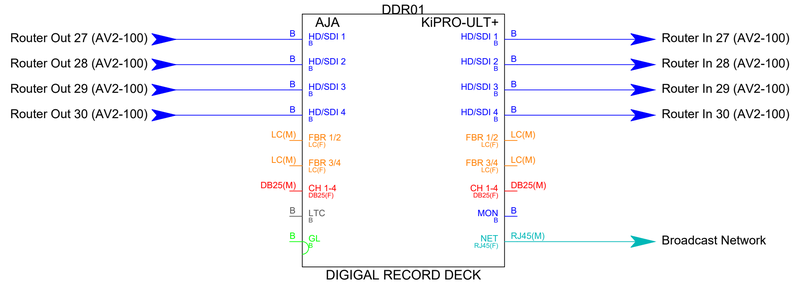
ENGINEERED BY
MARTIN

CHECKED BY
MARTIN

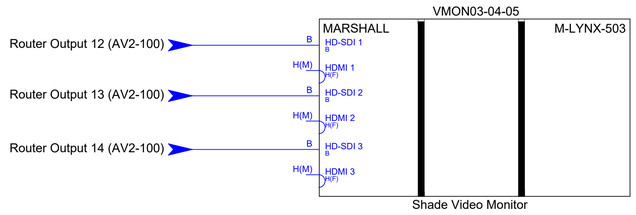
DATE
03/22/23

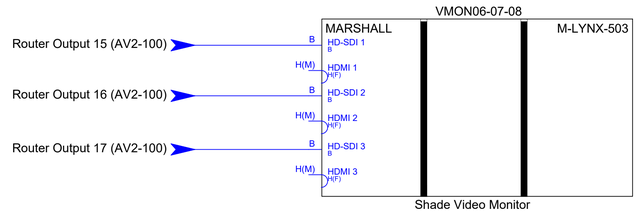
PROJECT NO.
FHS20-1616

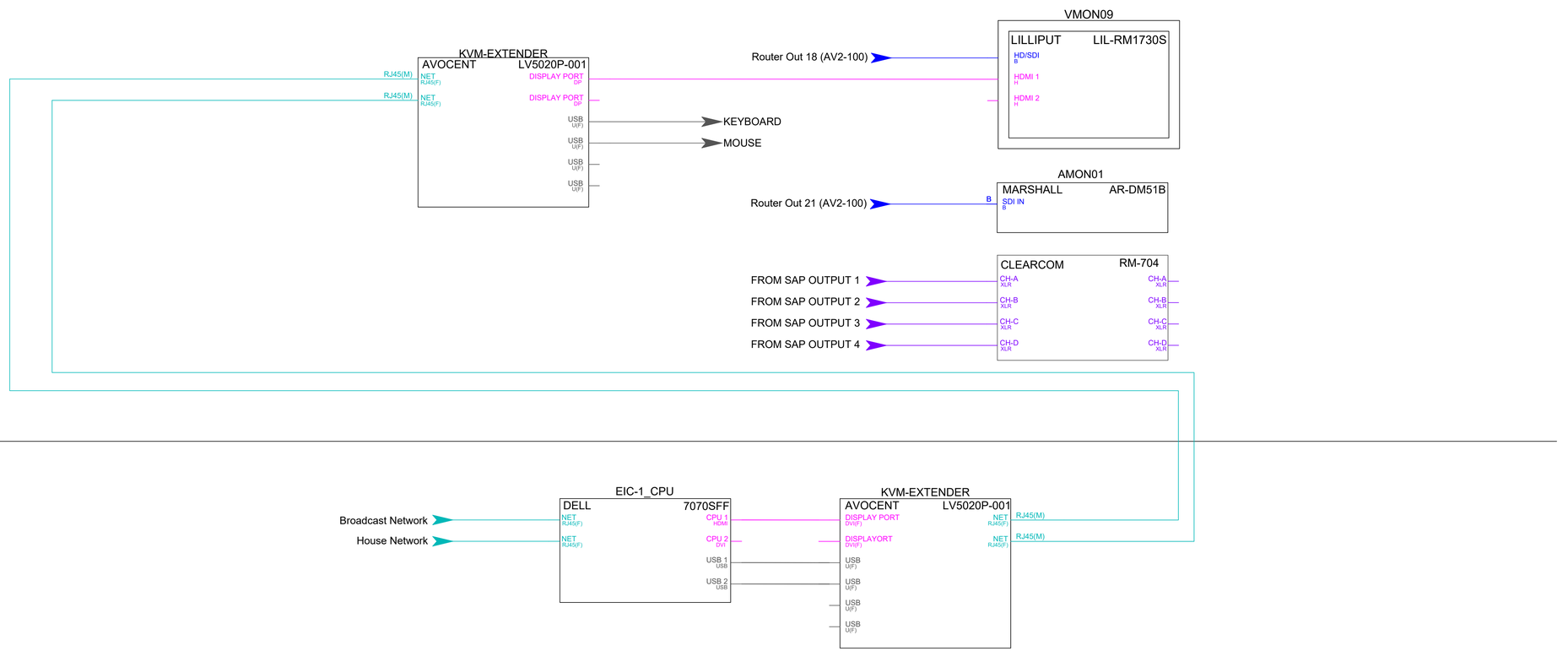
SHEET NO.
AV2-103




## RECORDING




## QC STATION




REVISIONS

| NO. | DATE | BY |
|---|---|---|
| | | |

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PROJECT NAME: NEW FAIRFIELD HIGH SCHOOL TECHNOLOGY UPGRADE

SHEET TITLE: RECORD / QC SINGLE LINES

DATE: March 22, 2023

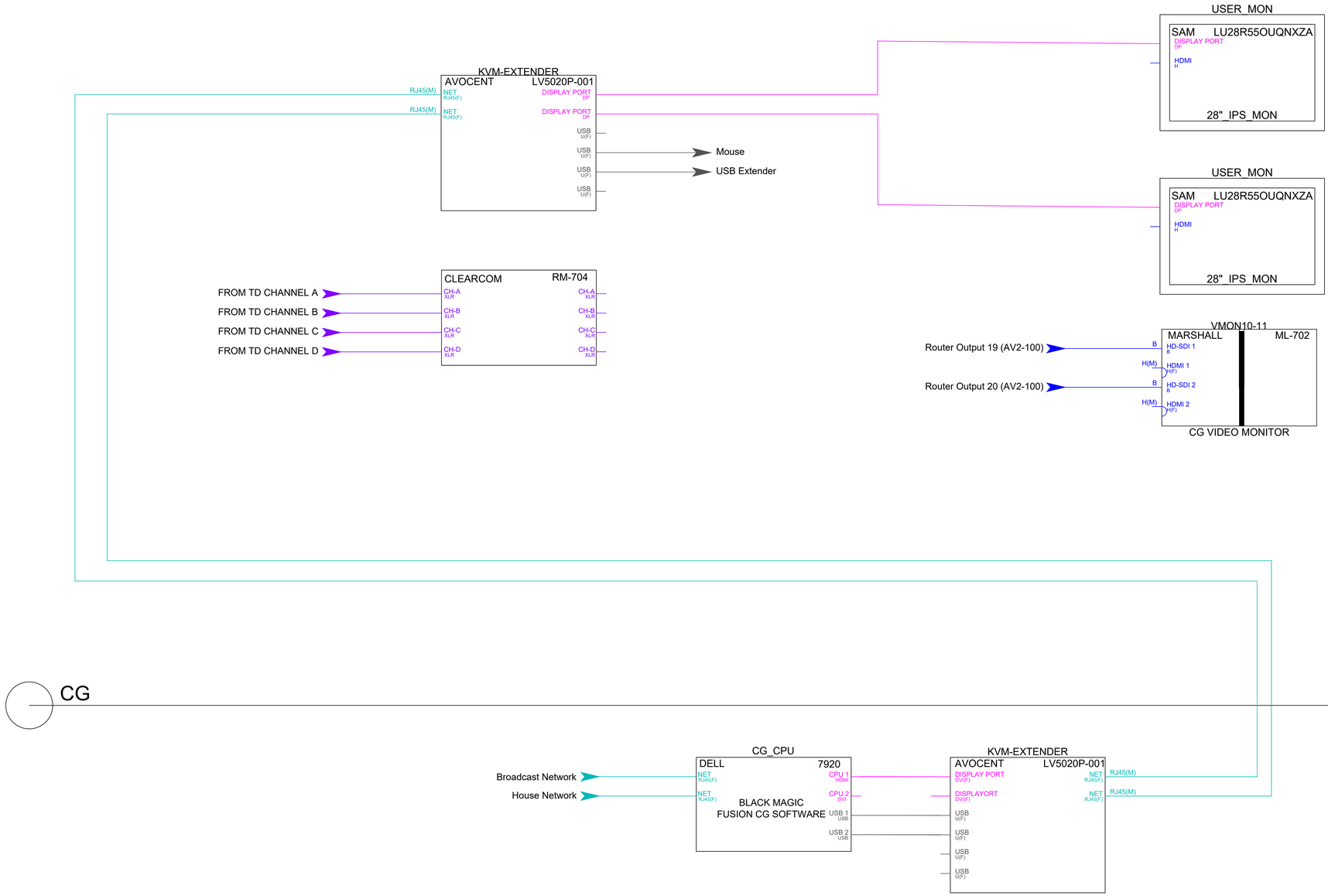
DRAWN BY: BALDWIN

ENGINEERED BY: MARTIN

CHECKED BY: MARTIN | DATE: 03/22/23

PROJECT NO.: FHS20-1616

SHEET NO.: AV2-104




| NO. | DATE | BY | REVISIONS |
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PROJECT NAME:
NEW FAIRFIELD HIGH SCHOOL
TECHNOLOGY UPGRADE

SHEET TITLE:
GRAPHICS
SINGLE LINES

DATE
March 22, 2023

DRAWN BY
BALDWIN

ENGINEERED BY
MARTIN

CHECKED BY
MARTIN

DATE
03/22/23

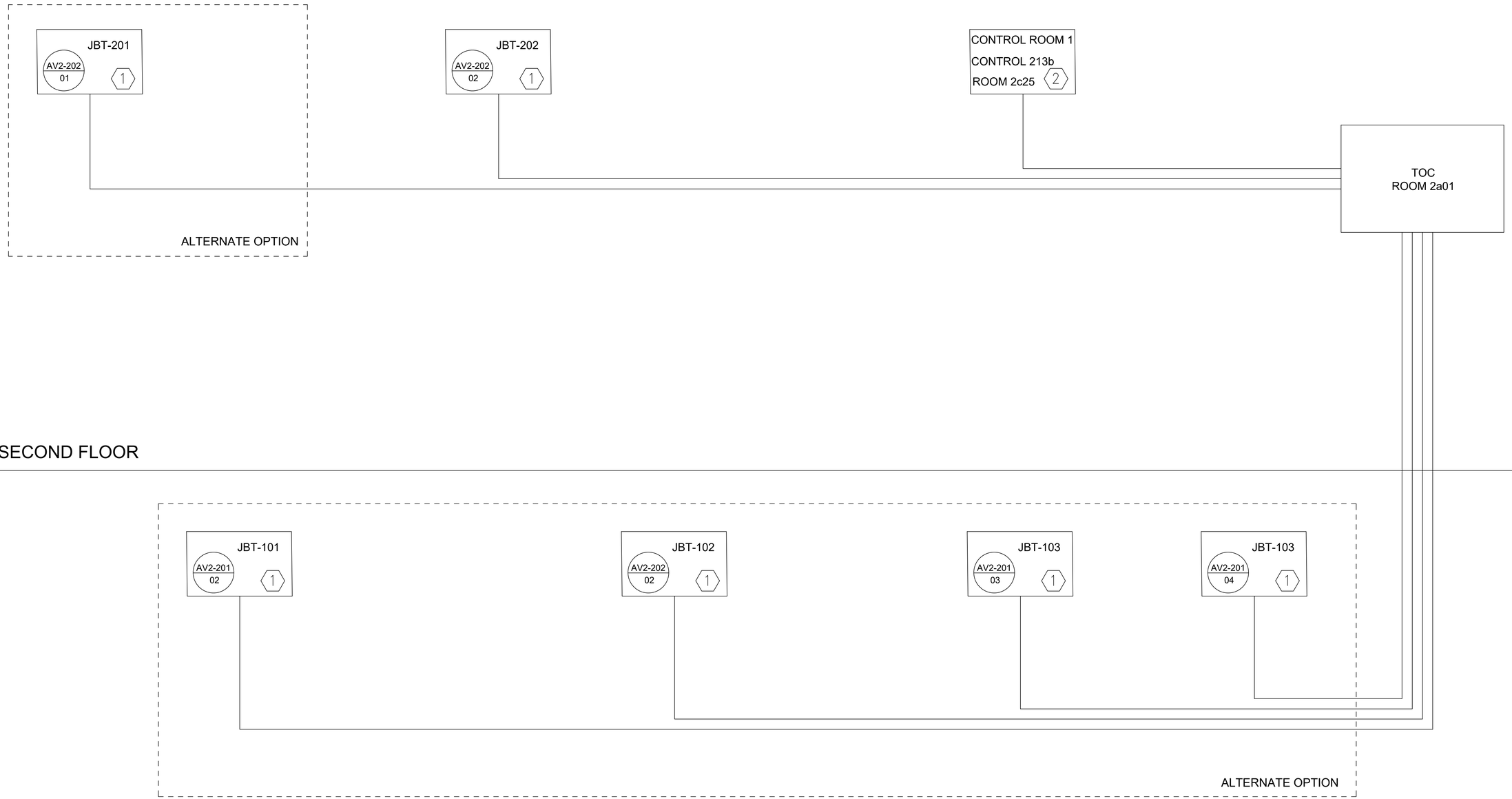
PROJECT NO.
FHS20-1616

SHEET NO.
AV2-105

NOTES:

1. (1) 12-STRAND SINGLE MODE FIBER
   BELDEN FDSD012A9
   (1) Audio Snake Cable, #24-12pr
   BELDEN 1513C
   (1) Audio Snake Cable, #24-4pr
   BELDEN 1510C

2. (1) 12-STRAND SINGLE MODE FIBER
   BELDEN FDSD012A9
   (1) Audio Snake Cable, #24-12pr
   BELDEN 1513C
   (1) Audio Snake Cable, #24-4pr
   BELDEN 1510C
   (8) RG59/20 3G-SDI Digital Coaxial Cable
   BELDEN 1505
   (8) CAT6 Category 6 Unshielded Mediatwist Cable
   BELDEN 1872A

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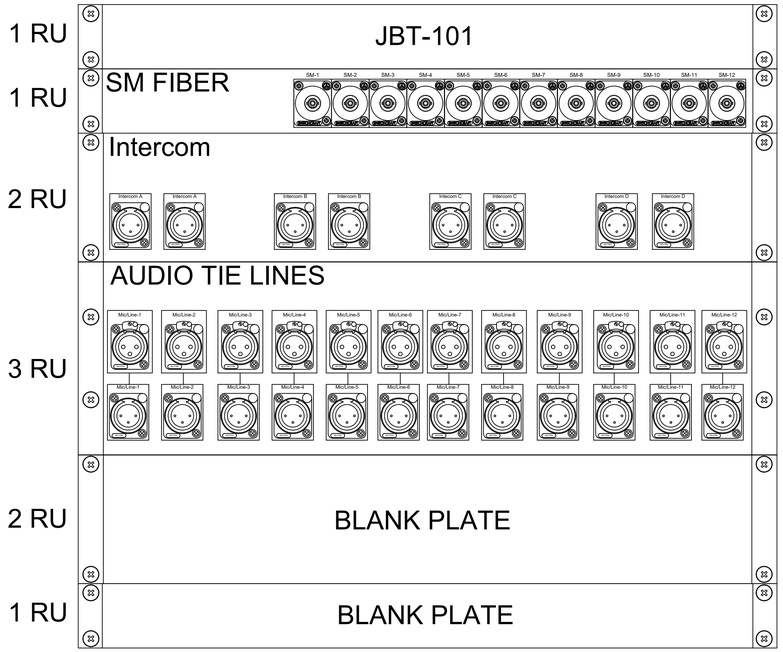
PROJECT NAME: NEW FAIRFIELD HIGH SCHOOL TECHNOLOGY UPGRADE

SHEET TITLE: RISER DIAGRAM

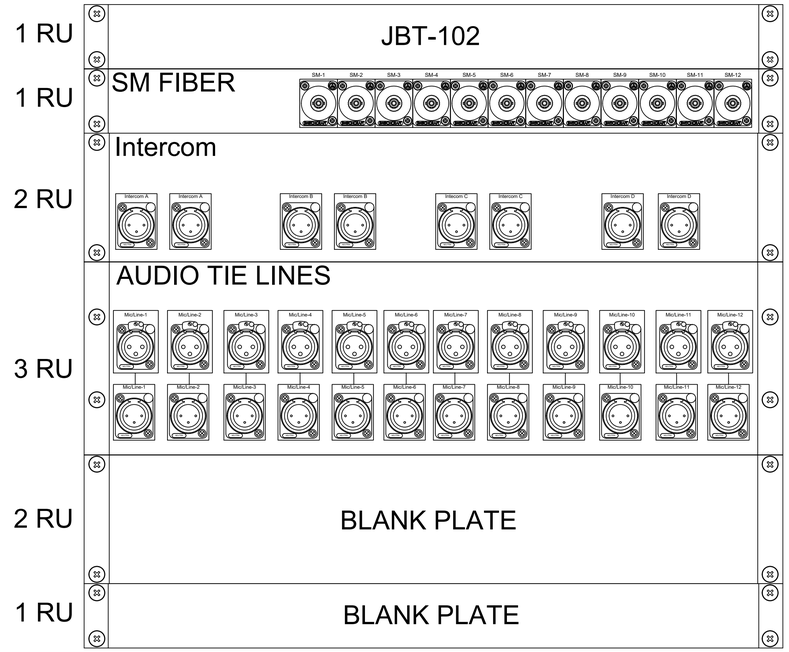
| | |
|---|---|
| DATE | March 22, 2023 |
| DRAWN BY | BALDWIN |
| ENGINEERED BY | MARTIN |
| CHECKED BY | MARTIN |
| DATE | 03/22/23 |
| PROJECT NO. | FHS20-1616 |
| SHEET NO. | AV2-200 |




01

JE-JBT-22x22x10-CPTSD-SS-S (10RU)

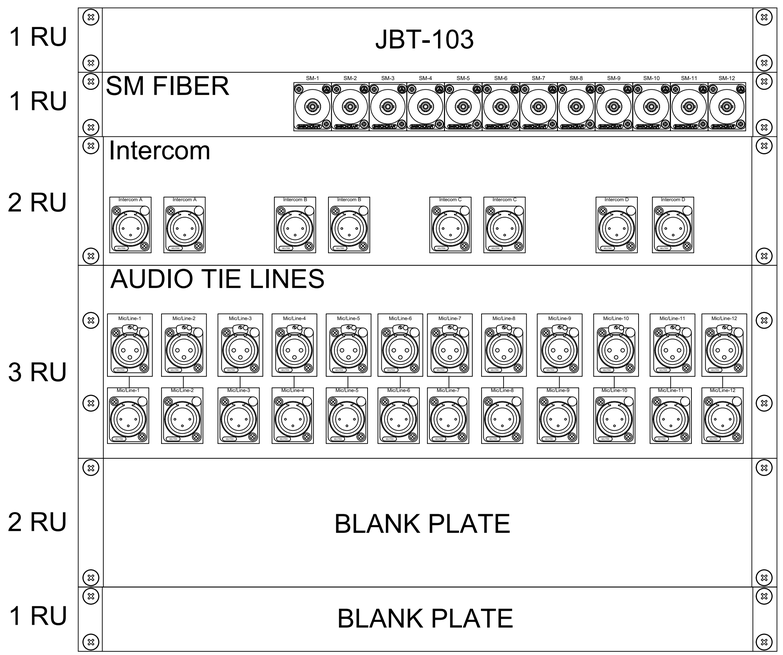
ALTERNATE OPTION




02

JE-JBT-22x22x10-CPTSD-SS-S (10RU)

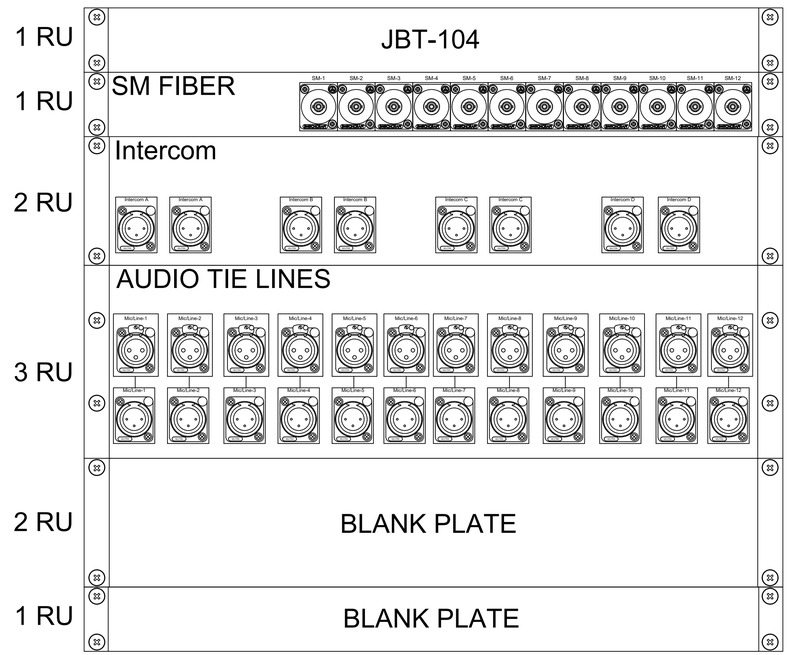
ALTERNATE OPTION




03

JE-JBT-22x22x10-CPTSD-SS-S (10RU)

ALTERNATE OPTION




04

JE-JBT-22x22x10-CPTSD-SS-S (10RU)

ALTERNATE OPTION

| NO. | DATE | BY | REVISIONS |
|---|---|---|---|
| | | | |

NEW FAIRFIELD HIGH SCHOOL

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PROJECT NAME:
NEW FAIRFIELD HIGH SCHOOL
TECHNOLOGY UPGRADE

SHEET TITLE:
JBT DETAIL - 01

DATE
December 11, 2022

DRAWN BY
BALDWIN

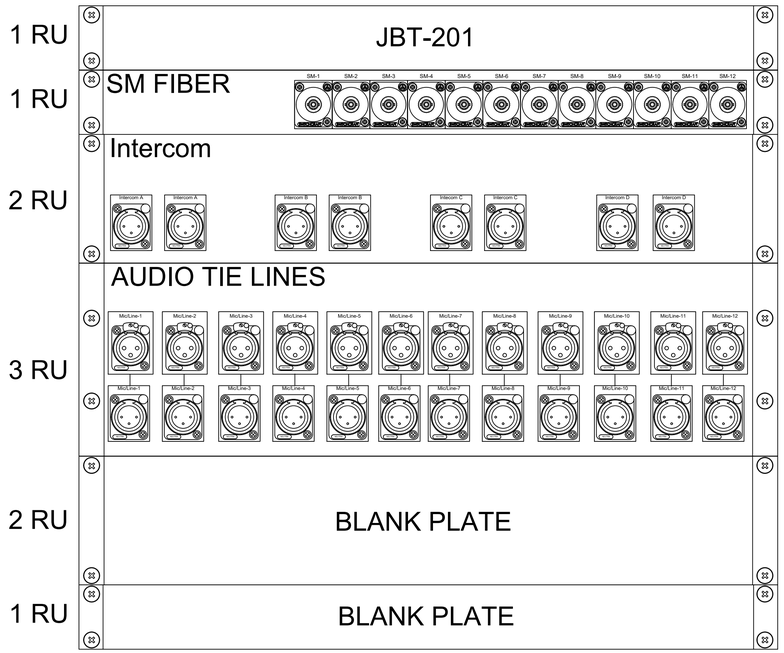
ENGINEERED BY
MARTIN

CHECKED BY
MARTIN

DATE
12/11/22

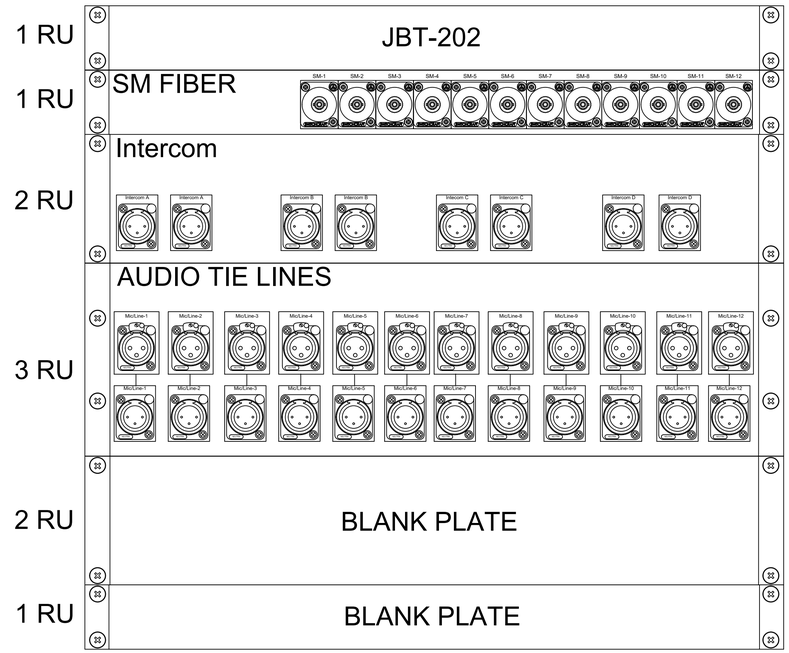
PROJECT NO.
FHS20-1616

SHEET NO.
AV2-201




01 JE-JBT-22x22x10-CPTSD-SS-S (10RU)

ALTERNATE OPTION




02 JE-JBT-22x22x10-CPTSD-SS-S (10RU)

| NO. | DATE | BY | REVISIONS |
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PROJECT NAME: NEW FAIRFIELD HIGH SCHOOL
TECHNOLOGY UPGRADE

SHEET TITLE: JBT DETAIL - 02

DATE: December 11, 2022

DRAWN BY: BALDWIN

ENGINEERED BY: MARTIN

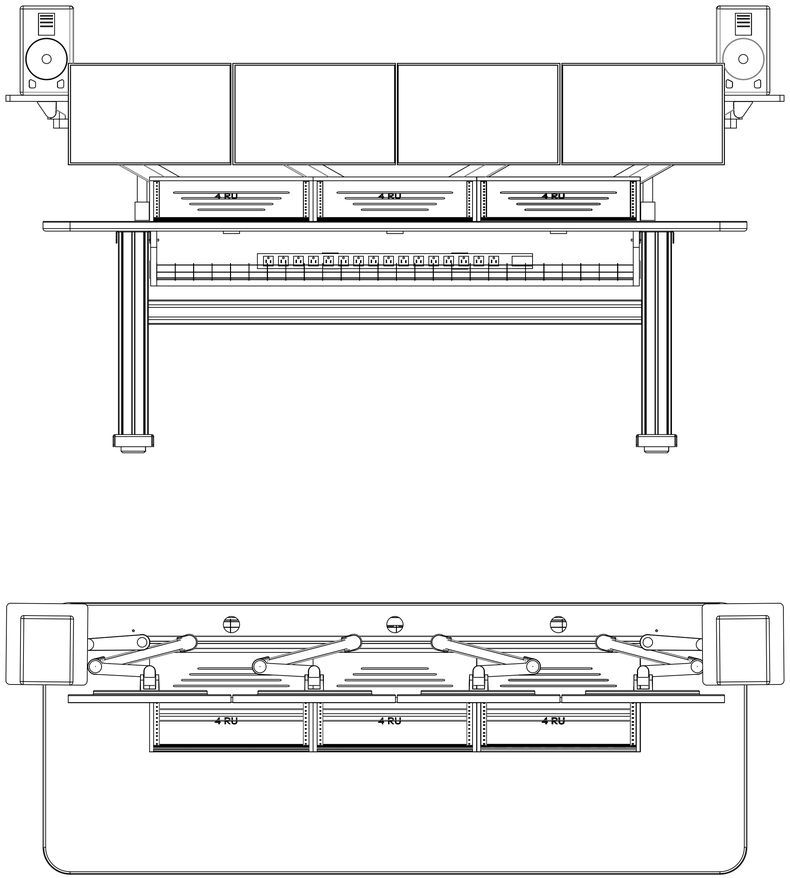
CHECKED BY: MARTIN | DATE: 12/11/22

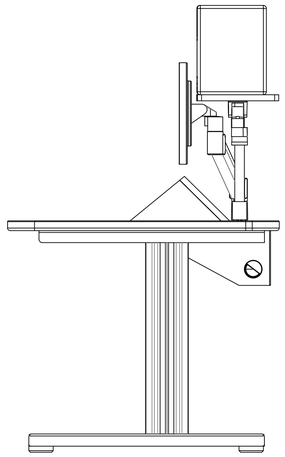
PROJECT NO.: FHS20-1616

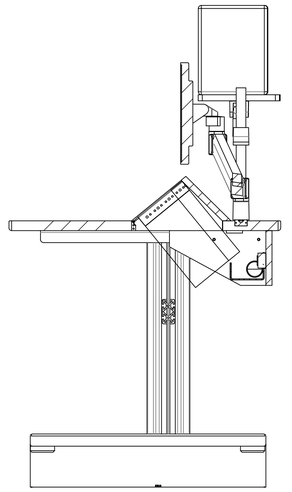
SHEET NO.: AV2-202

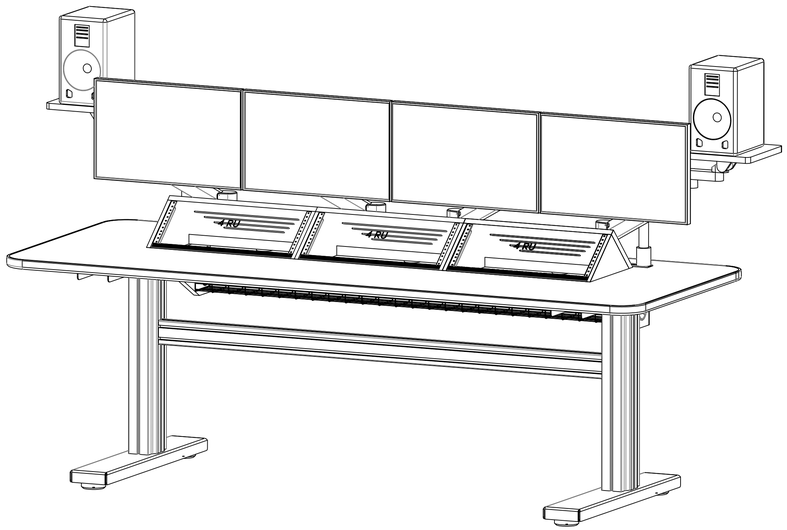
## CONSOLE

| ITEM # | PART NUMBER | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | Z-MD-3 | 1.2" Composite Lay Up Finish | 1 |
| 2 | LAG ARM | LAG 800 Monitor Arms.<br>Supports up to 25lbs | 2 |
| 3 | LAG ARM | LAG 800 Monitor Arms.<br>Supports up to 25lbs | 2 |
| 4 | AC-SPA-P | Articulated Speaker Arm | 1 |
| 5 | AC-SPA-P | Articulated Speaker Arm | 1 |








REVISIONS | BY | DATE | NO.

NEW FAIRFIELD HIGH SCHOOL

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PROJECT NAME: NEW FAIRFIELD HIGH SCHOOL TECHNOLOGY UPGRADE

SHEET TITLE: FRONT CONSOLE DETAIL

DATE: December 11, 2022

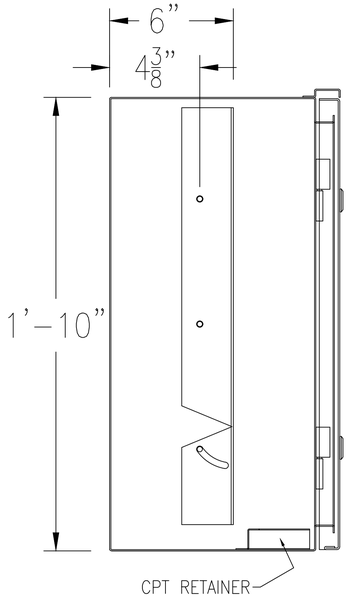
DRAWN BY: BALDWIN

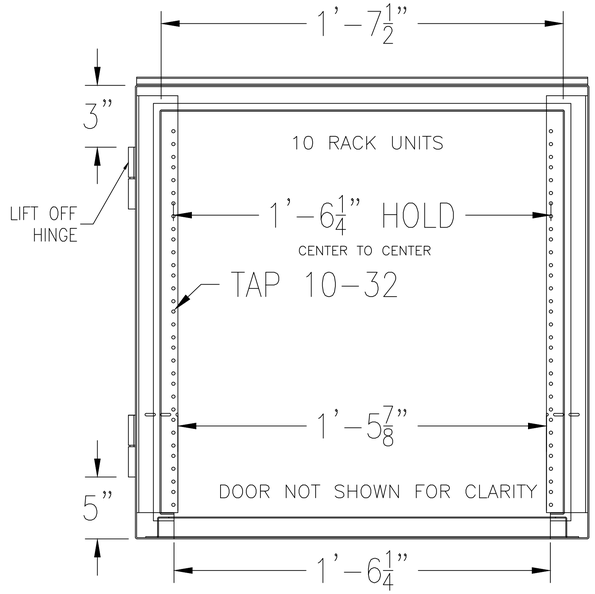
ENGINEERED BY: MARTIN

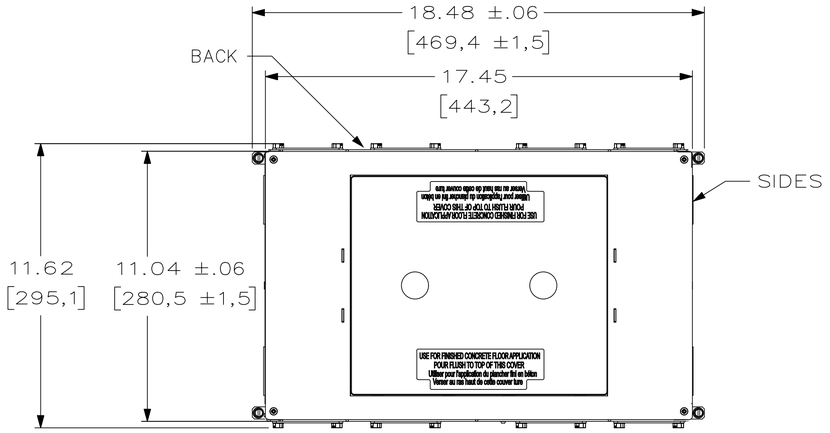
CHECKED BY: MARTIN | DATE: 12/11/22

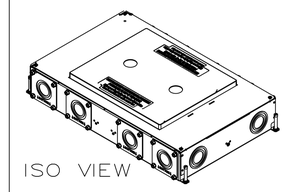
PROJECT NO.: FHS20-1616

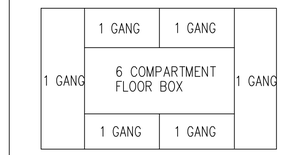
SHEET NO.: AV2-501

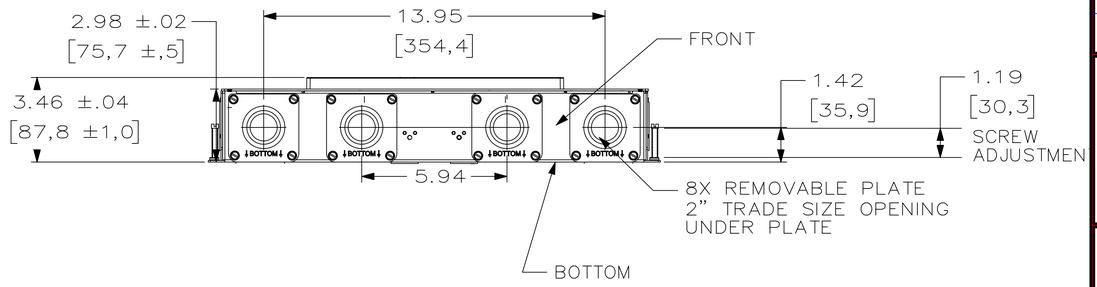


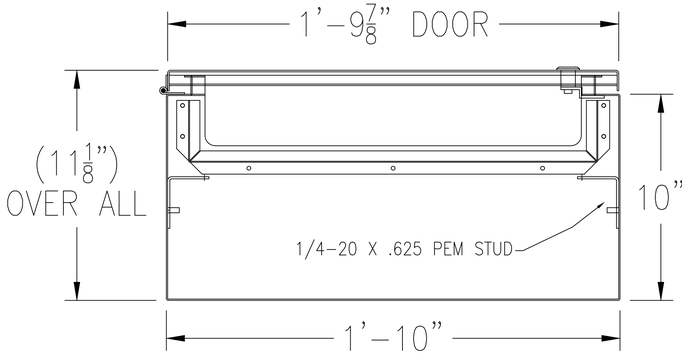



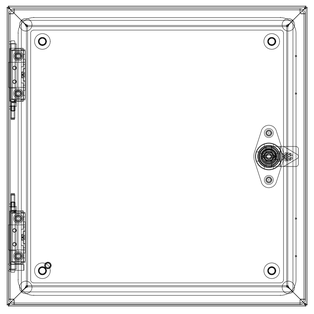



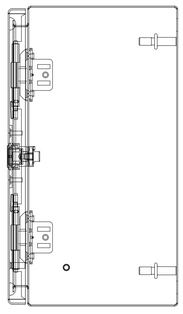



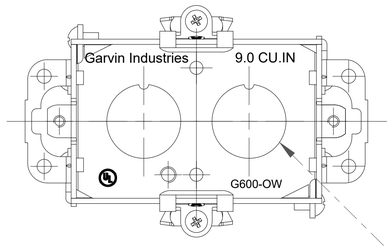



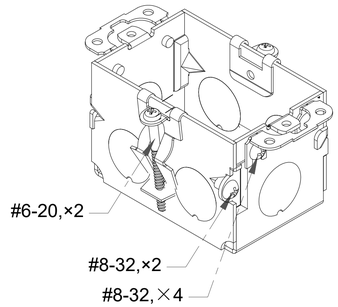



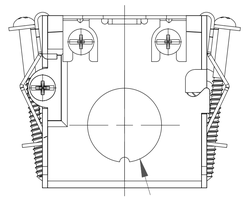



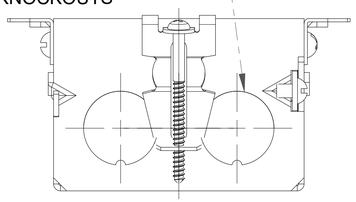







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NEW FAIRFIELD HIGH SCHOOL


ANTHONY JAMES PARTNERS
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PROJECT NAME: NEW FAIRFIELD HIGH SCHOOL TECHNOLOGY UPGRADE

SHEET TITLE: BOX DETAILS

DATE: December 11, 2022

DRAWN BY: BALDWIN

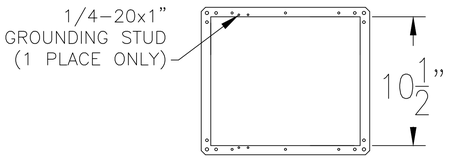
ENGINEERED BY: MARTIN

CHECKED BY: MARTIN | DATE: 12/11/22

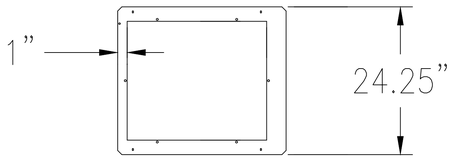
PROJECT NO.: FHS20-1616

SHEET NO.: AV2-502

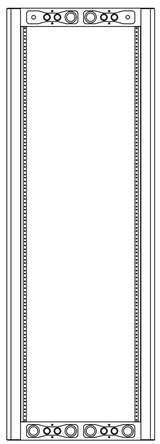
BOTTOM VIEW



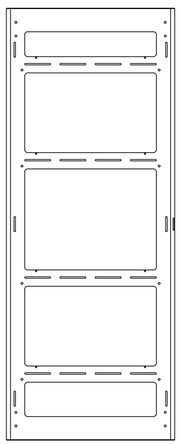

TOP VIEW



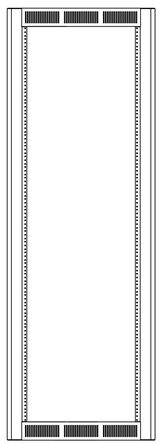

REAR VIEW

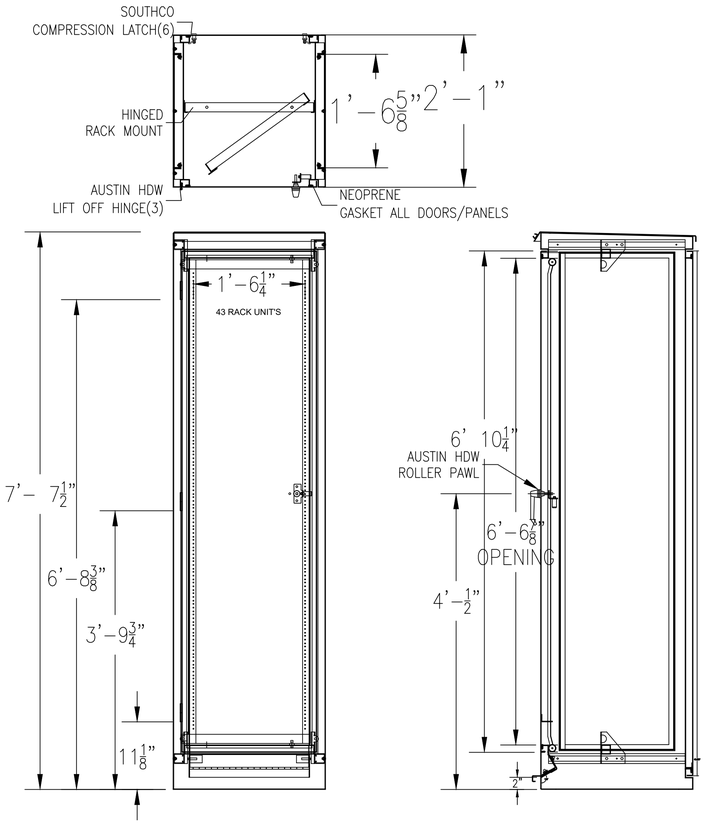


SIDE VIEW



FRONT VIEW



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NEW FAIRFIELD HIGH SCHOOL


ANTHONY JAMES PARTNERS

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PROJECT NAME:
NEW FAIRFIELD HIGH SCHOOL
TECHNOLOGY UPGRADE

SHEET TITLE:
RACK DETAILS

DATE
December 11, 2022

DRAWN BY
BALDWIN

ENGINEERED BY
MARTIN

CHECKED BY
MARTIN

DATE
12/11/22

PROJECT NO.
FHS20-1616

SHEET NO.
AV2-503

# RACK -01

# RACK -02

# RACK -03

STANDING EYE LEVEL

| | RACK -01 | RACK -02 | RACK -03 |
|---|---|---|---|
| 44 | FIBER TIE LINES | BLANK PLATE | |
| 43 | JBT-101 | BROADCAST NETWORK<br>NETGEAR GS728TP | |
| 42 | JBT-102 | CABLE MANAGER | |
| 41 | JBT-103 | HOUSE NETWORK<br>NETGEAR GS728TP | |
| 40 | JBT-104 | EIC-AMON<br>MARSHALL AR-DM51-B | |
| 39 | JBT-201 | RTR-O-12 VMON03 / RTR-O-13 VMON04 / RTR-O-14 VMON05<br>MARSHALL ML-503 | |
| 38 | JBT-202 | | |
| 37 | CONTROL 213b | | |
| 36 | AUDIO TIE LINES | RTR-O-15 VMON06 / RTR-O-16 VMON07 / RTR-O-17 VMON08<br>MARSHALL ML-503 | |
| 35 | AJP-01 (Non-Normalized) | | |
| 34 | | | |
| 33 | AJP-02 (Non-Normalized) | RTR-O-18 CPU INPUT<br>QC VMON09<br>LILLIPUT LIL-RM1730S | |
| 32 | | | |
| 31 | CARD FRAME<br>AJA OG-X-FR | | |
| 30 | | | |
| 29 | DDR-01 / BLANK<br>AJA KI-PRO-ULT-PLUS | | |
| 28 | | | |
| 27 | | | |
| 26 | BLANK PLATE | INTERCOM<br>ClearCom RM-704 | |
| 25 | ROUTER PATCHBAY<br>INPUT 1-32 | | |
| 24 | CANARE 32MD-ST-2U | INTERCOM SAP<br>ClearCom RCS2700 | |
| 23 | | KEYBOARD / MOUSE DRAWER | |
| 22 | ROUTER<br>32x32 | BLANK PLATE | |
| 21 | | QC PC<br>DELL 7070SFF | |
| 20 | AJA KUMO-3232 | BLANK PLATE | |
| 19 | ROUTER PATCHBAY<br>OUTPUT 1-32 | REPLAY<br>ALTERNATE | |
| 18 | CANARE 32MD-ST-2U | NEWTEK 3Play425 | |
| 17 | BLANK PLATE | BLANK PLATE | |
| 16 | SWITCHER<br>BLACK MAGIC ATEM 1/ME CONSTELLATION | CG PC<br>BLACK MAGIC PRECISION 7920 | |
| 15 | | | |
| 14 | | | |
| 13 | | | |
| 12 | | | |
| 11 | | | |
| 10 | | | |
| 9 | | | |
| 8 | | | |
| 7 | | | |
| 6 | INTERCOM DISTRIBUTION | | |
| 5 | | | |
| 4 | | | |
| 3 | | | |
| 2 | UPS<br>MIDDLE ATLANTIC UPS-2200R | UPS<br>MIDDLE ATLANTIC UPS-2200R | UPS<br>MIDDLE ATLANTIC UPS-2200R |
| 1 | | | |

| NO. | DATE | BY | REVISIONS |
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SUITE 300, RICHMOND VA 23233
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PROJECT NAME: NEW FAIRFIELD HIGH SCHOOL TECHNOLOGY UPGRADE

SHEET TITLE: RACK ELEVATION 1-3

DATE: December 11, 2022

DRAWN BY: BALDWIN

ENGINEERED BY: MARTIN

CHECKED BY: MARTIN | DATE: 12/11/22

PROJECT NO.: FHS20-1616

SHEET NO.: AV2-601

## ELECTRICAL POWER KEY NOTES

EP1 (ALTERNATE NO. 7) PV ARRAY 1: 54.68KW/DC SOLAR PV ARRAY CONSISTING OF 135 PV MODULES MOUNTED TO PV RACKING SYSTEM.

EP2 (ALTERNATE NO. 7) PV ARRAY 2: 49.00KW/DC SOLAR PV ARRAY CONSISTING OF 121 PV MODULES MOUNTED TO PV RACKING SYSTEM.

EP3 (ALTERNATE NO. 7): ROOF MOUNTED HIGH VOLTAGE DC WIRING (1000V RATED DC WIRING) IN IMC CONDUIT. PROVIDE MOUNTED TO ROOF SUPPORTS PER ROOFING MANUFACTURER'S REQUIREMENTS. PROVIDE CIRCUITS AS INDICATED ON DRAWINGS AND PV RISER DIAGRAM ON E-713 FOR THIS ARRAY. PROVIDE PV WARNING LABELS.

EP4 (ALTERNATE NO. 7): WALL MOUNTED HIGH VOLTAGE DC WIRING (1000V RATED DC WIRING) IN IMC CONDUIT. PROVIDE PV WARNING LABELS.

EP5 A/V RACK POWER. COORDINATE WITH RACK INSTALLATION.

EP6 PROVIDE 2#12, #12G., 3/4"C TO 20A-1P CIRCUIT BREAKER IN THEATRICAL STAGE LCP IN ELECTRICAL ROOM 2b05 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF THEATRICAL POWER OUTLETS)

EP7 TRENCH FLOOR AND PROVIDE (2) 1" CONDUITS FOR POWER TO NEAREST WALL. ROUTE CONDUIT AND WIRING IN WALL AND UP TO ABOVE ACCESSIBLE CEILING.

EP8 PROVIDE 6#12 + 1#12G IN (1) 1-1/4"C TO (3) 20A-1P CIRCUIT BREAKERS IN THE FOLLOWING THEATRICAL PANELS IN ELECTRICAL ROOM 2b05 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF SIDE LIGHT PIPE 'PP1'):

- (2) 20A CIRCUITS IN THEATRICAL STAGE LCP
- (1) 20A CIRCUIT IN THEATRICAL HOUSE LCP

EP9 PROVIDE 12#8 + 1#8G IN (1) 1 1/2"C TO (6) 20A-1P CIRCUIT BREAKERS IN THE FOLLOWING THEATRICAL PANELS IN ELECTRICAL ROOM 2b05 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF STAGE OR FRONT OF HOUSE LIGHT PIPE 'PIPE 2'):

- (5) 20A CIRCUITS IN THEATRICAL STAGE LCP
- (1) 20A CIRCUIT IN THEATRICAL HOUSE LCP

EP10 PROVIDE 10#8 +1#8G IN (1) 1 1/4"C TO (5) 20A-1P CIRCUIT BREAKERS IN THE FOLLOWING THEATRICAL PANELS IN ELECTRICAL ROOM 2b05 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF HOUSE LIGHT PIPE 'PP3'):

- (4) 20A CIRCUITS IN THEATRICAL STAGE LCP
- (1) 20A CIRCUIT IN THEATRICAL HOUSE LCP

EP11 POWERED PROJECTOR LIFT CONTROL TO PROJECTOR LIFT MOTOR ABOVE.

EP12 POWERED PROJECTION SCREEN CONTROL TO PROJECTION SCREEN MOTOR ABOVE.

EP13 POWERED PROJECTOR LIFT CONTROL TO PROJECTOR LIFT CONTROLLER BELOW.

EP14 POWERED PROJECTION SCREEN CONTROL TO PROJECTION SCREEN CONTROLLER BELOW.

EP15 DISCONNECTS D-CON, D-EKPA, D-EKPC AND D-TH TO BE MOUNTED ON UNISTRUT FRAMES. DISCONNECT D-EKPC IS SHOWN OFFSET FOR CLARITY ON THE DRAWING AND IS TO BE MOUNTED ABOVE DISCONNECT D-EKPA.

EP16 NOT USED.

EP17 SCIENCE CLASSROOM LAB STATION. PROVIDE JUNCTION BOX AND GFI RECEPTACLE, MOUNTED IN AN ACCESSIBLE LOCATION, TO BASE PEDESTAL OF CASEWORK. ROUTE MC CABLE THROUGH CASEWORK TO (2) GFI RECEPTACLES PROVIDED WITH LAB STATION. STUB-UP 3/4"C FROM FLOOR BELOW OR UNDERSLAB FOR ON-GRADE LAB STATIONS.

EP18 PROVIDE 2#12, #12G., 3/4"C TO 20A-1P CIRCUIT BREAKER IN MEDIA LAB LCP IN MEDIA LAB 2c23 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-107 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF THEATRICAL POWER OUTLETS)

EP19 (ALTERNATE NO. 7): PROVIDE 1" IMC (INTERMEDIATE METAL CONDUIT) WITH INSULATED BUSHINGS ON BOTH ENDS BETWEEN PV ROWS - REFER TO PV RISER DIAGRAM ON E-713 FOR ADDITIONAL INFORMATION.

EP20 (ALTERNATE NO. 7): PROVIDE UNISTRUT POST MOUNTED ON THE WALL OF THE ROOF TO MOUNT BOTH THE PV SYSTEM AMBIENT TEMPERATURE SENSOR AND THE IRRADIANCE SENSOR 2'-0" ABOVE THE ADJACENT ROOF LINE. MOUNT BOTTOM OF UNISTRUT NO CLOSER THAN 1'-0" ABOVE TOP OF ROOF AND PROVIDE UNISTRUT STAND-OFFS AS REQUIRED TO PROVIDE SEPERATION FROM ANY ROOF CAPPING/FLASHING.

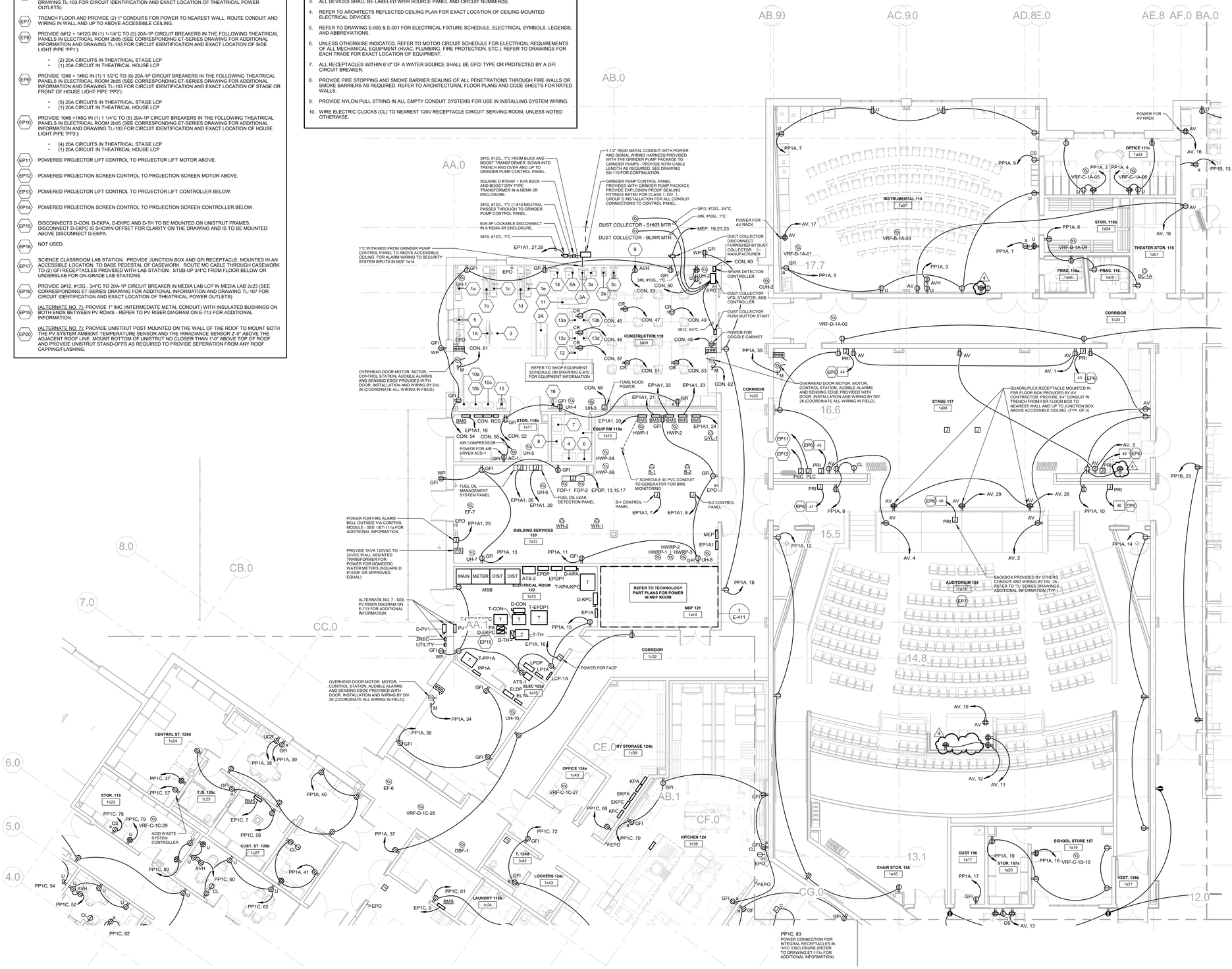
## VRF INDOOR UNIT WIRING NOTES

A. WIRE CONTROLLER BC-1A ALONG WITH VRF INDOOR CASSETTE UNITS B-1A-01, D-1A-02, B-1A-03, B-1A-04, C-1A-05, C-1A-06, B-1A-07, D-1A-08, D-1A-09, D-1A-10 & D-1A-11 IN AREA a. TO 20A-2P CIRCUIT BREAKER IN PANEL PP1A @ POS. 31,33.

B. SEE MOTOR CIRCUIT SCHEDULE, DRAWING E610, FOR ADDITIONAL INFORMATION.

## GENERAL NOTES - ELECTRICAL POWER

1. ALL CIRCUITS SHALL BE 2#12,#12G.,3/4"C., TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
2. ALL 120V BRANCH CIRCUITS THAT EXCEED 150' IN LENGTH SHALL BE 2#10,#10G., 3/4"C. UNLESS NOTED OTHERWISE.
3. ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
4. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES.
5. REFER TO DRAWING E-000 & E-001 FOR ELECTRICAL FIXTURE SCHEDULE, ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
6. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT (HVAC, PLUMBING, FIRE PROTECTION, ETC.). REFER TO DRAWINGS FOR EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
7. ALL RECEPTACLES WITHIN 6'-0" OF A WATER SOURCE SHALL BE GFCI TYPE OR PROTECTED BY A GFI CIRCUIT BREAKER.
8. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR RATED WALLS.
9. PROVIDE NYLON PULL STRING IN ALL EMPTY CONDUIT SYSTEMS FOR USE IN INSTALLING SYSTEM WIRING.
10. WIRE ELECTRIC CLOCKS (CL) TO NEAREST 120V RECEPTACLE CIRCUIT SERVING ROOM, UNLESS NOTED OTHERWISE.




1 NFHS FIRST FLOOR - ELECTRICAL POWER PLAN - AREA A
1/8" = 1'-0"

6/27/2022 11:44:38 AM

# New Fairfield High School & Pool Locker Rooms

54 Gillotti Rd,
New Fairfield, CT 06812

091-0044N &
091-0046CV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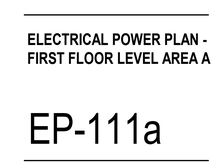


KEY PLAN

CONFORMED SET
06/08/2021

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| ISSUE | ISSUED FOR BID |
| JOB | 2020128.01 |
| DRAWN | MAL |
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REVISIONS

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| 06-30-2021 | Addendum 2 |
| 05-17-2022 | CCD-001: Construction Change Directive 001 - Revisions to Architecural, Electrical and Mechanical per Tech and FFE changes per Owner Request |
| 05-24-2022 | Bulletin 14 (PR-006) |
| 06-27-2022 | Bulletin 17 (PR-009) |

ELECTRICAL POWER PLAN - FIRST FLOOR LEVEL AREA A

EP-111a

## GENERAL NOTES - ELECTRICAL POWER

1. ALL CIRCUITS SHALL BE 2#12,#12G.,3/4"C., TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
2. ALL 120V BRANCH CIRCUITS THAT EXCEED 150' IN LENGTH SHALL BE 2#10,#10G., 3/4"C. UNLESS NOTED OTHERWISE.
3. ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
4. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES.
5. REFER TO DRAWING E-000 & E-001 FOR ELECTRICAL FIXTURE SCHEDULE, ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
6. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT (HVAC, PLUMBING, FIRE PROTECTION, ETC.). REFER TO DRAWINGS FOR EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
7. ALL RECEPTACLES WITHIN 6'-0" OF A WATER SOURCE SHALL BE GFCI TYPE OR PROTECTED BY A GFI CIRCUIT BREAKER.
8. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR RATED WALLS.
9. PROVIDE NYLON PULL STRING IN ALL EMPTY CONDUIT SYSTEMS FOR USE IN INSTALLING SYSTEM WIRING.
10. WIRE ELECTRIC CLOCKS (CL) TO NEAREST 120V RECEPTACLE CIRCUIT SERVING ROOM, UNLESS NOTED OTHERWISE.

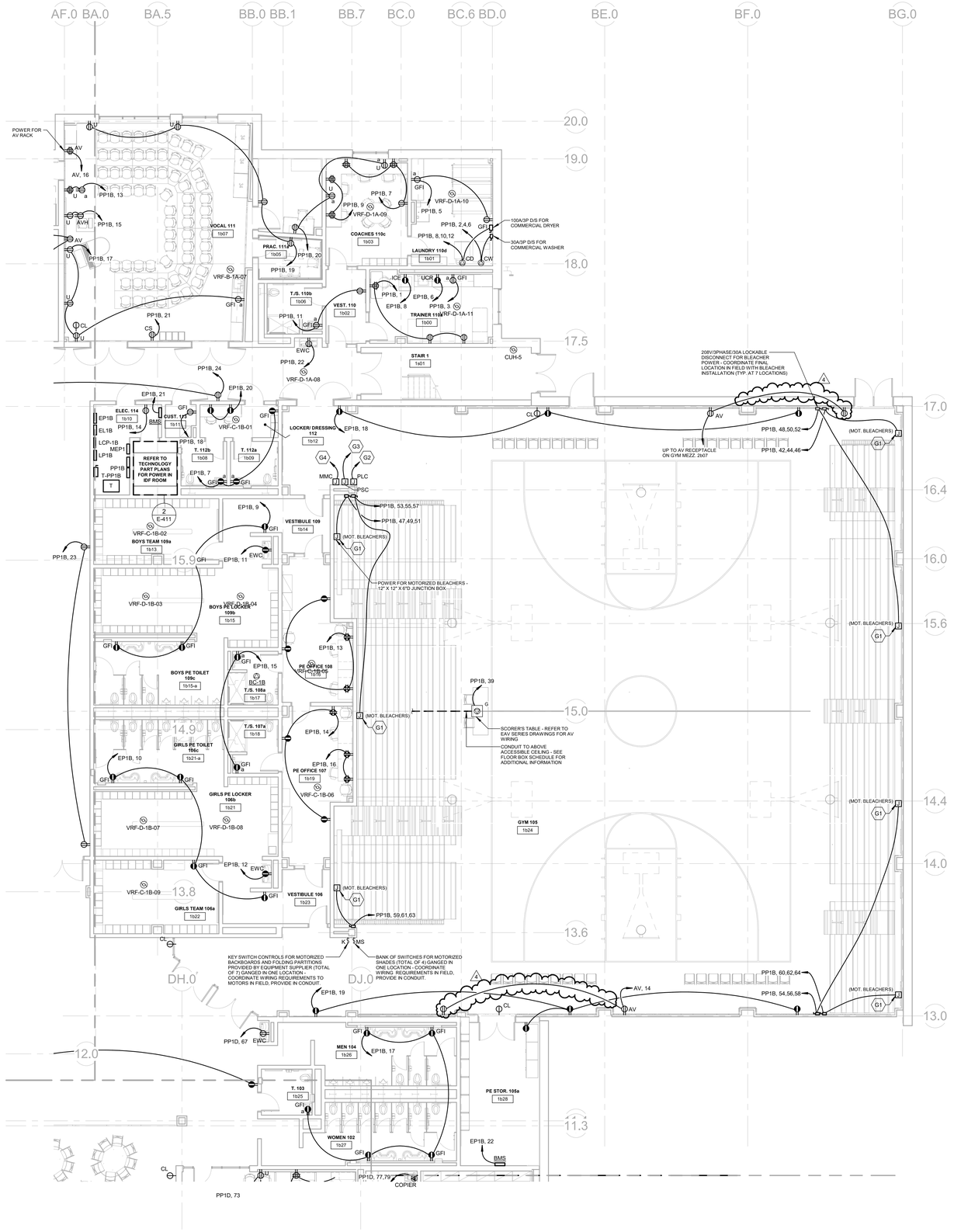
## GYMNASIUM POWER KEY NOTE

- G1 — WIRING OF MOTORIZED BLEACHER COMPONENTS AND CONTROLS SHALL BE BY THE EQUIPMENT SUPPLIER. WIRING AND FINAL CONNECTIONS TO EQUIPMENT CONTROL BOX SHALL BE BY THE ELECTRICAL CONTRATOR. REFER TO EQUIPMENT CONSULTANT'S DETAILED DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- G2 — POWERED PROJECTOR LIFT CONTROL TO PROJECTOR LIFT MOTOR ABOVE.
- G3 — POWERED PROJECTION SCREEN CONTROL TO PROJECTION SCREEN MOTOR ABOVE.
- G4 — POWERED MAT MOVER CONTROL TO MAT MOVER MOTOR ABOVE.

## VRF INDOOR UNIT WIRING NOTES

A. WIRE CONTROLLER BC-1B ALONG WITH VRF INDOOR CASSETTE UNITS C-1B-01, C-1B-02, D-1B-03, D-1B-04, C-1B-05, C-1B-06, D-1B-07, D-1B-08, C-1B-09 & C-1B-10 IN AREA b, TO 20A -2P CIRCUIT BREAKER IN PANEL PP1B @ POS. 26, 28.

B. SEE MOTOR CIRCUIT SCHEDULE, DRAWING E610, FOR ADDITIONAL INFORMATION.




1 NFHS FIRST FLOOR - ELECTRICAL POWER PLAN - AREA B
1/8" = 1'-0"

# New Fairfield High School & Pool Locker Rooms

54 Gillotti Rd,
New Fairfield, CT 06812

091-0044N &
091-0046CV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| 06-23-2021 | Addendum 1 |
| 06-30-2021 | Addendum 2 |
| 05-17-2022 | CCD-001: Construction Change Directive 001 - Revisions to Architecural, Electrical and Mechanical per Tech and FFE changes per Owner Request |
| 06-27-2022 | Bulletin 17 (PR-009) |

**ELECTRICAL POWER PLAN - FIRST FLOOR LEVEL AREA B**

# EP-111b

6/27/2022 11:44:48 AM

## ELECTRICAL POWER KEY NOTES

EP1 (ALTERNATE NO. 7) PV ARRAY 1: 54.68KW/DC SOLAR PV ARRAY CONSISTING OF 135 PV MODULES MOUNTED TO PV RACKING SYSTEM.

EP2 (ALTERNATE NO. 7) PV ARRAY 2: 49.00KW/DC SOLAR PV ARRAY CONSISTING OF 121 PV MODULES MOUNTED TO PV RACKING SYSTEM.

EP3 (ALTERNATE NO. 7): ROOF MOUNTED HIGH VOLTAGE DC WIRING (1000V RATED DC WIRING) IN IMC CONDUIT. PROVIDE MOUNTED TO ROOF SUPPORTS PER ROOFING MANUFACTURER'S REQUIREMENTS. PROVIDE CIRCUITS AS INDICATED ON DRAWINGS AND PV RISER DIAGRAM ON E-713 FOR THIS ARRAY. PROVIDE PV WARNING LABELS.

EP4 (ALTERNATE NO. 7): WALL MOUNTED HIGH VOLTAGE DC WIRING (1000V RATED DC WIRING) IN IMC CONDUIT. PROVIDE PV WARNING LABELS.

EP5 A/V RACK POWER. COORDINATE WITH RACK INSTALLATION.

EP6 PROVIDE 2#12, #12G., 3/4"C TO 20A-1P CIRCUIT BREAKER IN THEATRICAL STAGE LCP IN ELECTRICAL ROOM 2b05 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF THEATRICAL POWER OUTLETS)

EP7 TRENCH FLOOR AND PROVIDE (2) 1" CONDUITS FOR POWER TO NEAREST WALL. ROUTE CONDUIT AND WIRING IN WALL AND UP TO ABOVE ACCESSIBLE CEILING.

EP8 PROVIDE 6#12 + 1#12G IN (1) 1-1/4"C TO (3) 20A-1P CIRCUIT BREAKERS IN THE FOLLOWING THEATRICAL PANELS IN ELECTRICAL ROOM 2b05 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF SIDE LIGHT PIPE 'PP1'):

- (2) 20A CIRCUITS IN THEATRICAL STAGE LCP
- (1) 20A CIRCUIT IN THEATRICAL HOUSE LCP

EP9 PROVIDE 12#8 + 1#8G IN (1) 1 1/2"C TO (6) 20A-1P CIRCUIT BREAKERS IN THE FOLLOWING THEATRICAL PANELS IN ELECTRICAL ROOM 2b05 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF STAGE OR FRONT OF HOUSE LIGHT PIPE 'PP2'):

- (5) 20A CIRCUITS IN THEATRICAL STAGE LCP
- (1) 20A CIRCUIT IN THEATRICAL HOUSE LCP

EP10 PROVIDE 10#8 + 1#8G IN (1) 1 1/4"C TO (5) 20A-1P CIRCUIT BREAKERS IN THE FOLLOWING THEATRICAL PANELS IN ELECTRICAL ROOM 2b05 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-103 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF HOUSE LIGHT PIPE 'PP3'):

- (4) 20A CIRCUITS IN THEATRICAL STAGE LCP
- (1) 20A CIRCUIT IN THEATRICAL HOUSE LCP

EP11 POWERED PROJECTOR LIFT CONTROL TO PROJECTOR LIFT MOTOR ABOVE.

EP12 POWERED PROJECTION SCREEN CONTROL TO PROJECTION SCREEN MOTOR ABOVE.

EP13 POWERED PROJECTOR LIFT CONTROL TO PROJECTOR LIFT CONTROLLER BELOW.

EP14 POWERED PROJECTION SCREEN CONTROL TO PROJECTION SCREEN CONTROLLER BELOW.

EP15 DISCONNECTS D-CON, D-EKPA, D-EKPC AND D-TH TO BE MOUNTED ON UNISTRUT FRAMES. DISCONNECT D-EKPC IS SHOWN OFFSET FOR CLARITY ON THE DRAWING AND IS TO BE MOUNTED ABOVE DISCONNECT D-EKPA

EP16 NOT USED.

EP17 SCIENCE CLASSROOM LAB STATION. PROVIDE JUNCTION BOX AND GFI RECEPTACLE, MOUNTED IN AN ACCESSIBLE LOCATION, TO BASE PEDESTAL OF CASEWORK. ROUTE MC CABLE THROUGH CASEWORK TO (2) GFI RECEPTACLES PROVIDED WITH LAB STATION. STUB-UP 3/4"C FROM FLOOR BELOW OR UNDERSLAB FOR ON-GRADE LAB STATIONS.

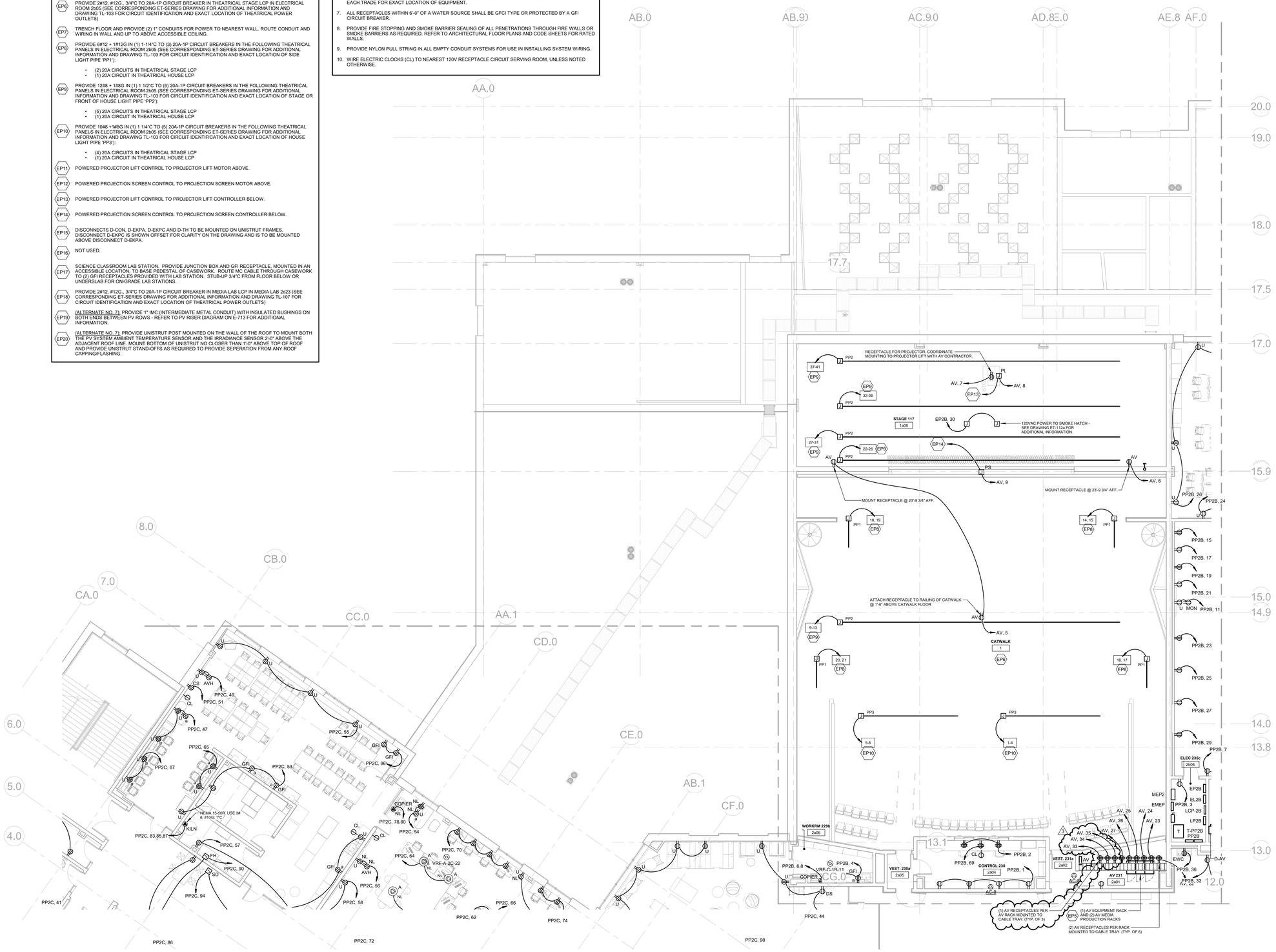
EP18 PROVIDE 2#12, #12G., 3/4"C TO 20A-1P CIRCUIT BREAKER IN MEDIA LAB LCP IN MEDIA LAB 2c23 (SEE CORRESPONDING ET-SERIES DRAWING FOR ADDITIONAL INFORMATION AND DRAWING TL-107 FOR CIRCUIT IDENTIFICATION AND EXACT LOCATION OF THEATRICAL POWER OUTLETS)

EP19 (ALTERNATE NO. 7): PROVIDE 1" IMC (INTERMEDIATE METAL CONDUIT) WITH INSULATED BUSHINGS ON BOTH ENDS BETWEEN PV ROWS - REFER TO PV RISER DIAGRAM ON E-713 FOR ADDITIONAL INFORMATION.

EP20 (ALTERNATE NO. 7): PROVIDE UNISTRUT POST MOUNTED ON THE WALL OF THE ROOF TO MOUNT BOTH THE PV SYSTEM AMBIENT TEMPERATURE SENSOR AND THE IRRADIANCE SENSOR 2'-0" ABOVE THE ADJACENT ROOF LINE. MOUNT BOTTOM OF UNISTRUT NO CLOSER THAN 1'-0" ABOVE TOP OF ROOF AND PROVIDE UNISTRUT STAND-OFFS AS REQUIRED TO PROVIDE SEPERATION FROM ANY ROOF CAPPING/FLASHING.

## GENERAL NOTES - ELECTRICAL POWER

1. ALL CIRCUITS SHALL BE 2#12,#12G.,3/4"C., TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
2. ALL 120V BRANCH CIRCUITS THAT EXCEED 150' IN LENGTH SHALL BE 2#10,#10G., 3/4"C. UNLESS NOTED OTHERWISE.
3. ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
4. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES.
5. REFER TO DRAWING E-000 & E-001 FOR ELECTRICAL FIXTURE SCHEDULE, ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
6. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT (HVAC, PLUMBING, FIRE PROTECTION, ETC.). REFER TO DRAWINGS FOR EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
7. ALL RECEPTACLES WITHIN 6'-0" OF A WATER SOURCE SHALL BE GFCI TYPE OR PROTECTED BY A GFI CIRCUIT BREAKER.
8. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR RATED WALLS.
9. PROVIDE NYLON PULL STRING IN ALL EMPTY CONDUIT SYSTEMS FOR USE IN INSTALLING SYSTEM WIRING.
10. WIRE ELECTRIC CLOCKS (CL) TO NEAREST 120V RECEPTACLE CIRCUIT SERVING ROOM, UNLESS NOTED OTHERWISE.




1 NFHS SECOND FLOOR - ELECTRICAL POWER PLAN - AREA A
1/8" = 1'-0"

6/27/2022 11:44:59 AM

# New Fairfield High School & Pool Locker Rooms

**54 Gillotti Rd,**
**New Fairfield, CT 06812**

**091-0044N &**
**091-0046CV**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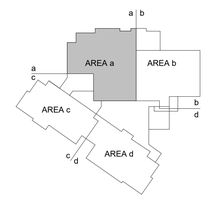


KEY PLAN

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06/08/2021

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REVISIONS

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| 04-21-2022 | PR-005 MAC Lab Revisions |
| 05-17-2022 | CCD-001: Construction Change Directive 001 - Revisions to Architecural, Electrical and Mechanical per Tech and FFE changes per Owner Request |
| 06-27-2022 | Bulletin 17 (PR-009) |

**ELECTRICAL POWER PLAN - SECOND FLOOR LEVEL AREA A**

# EP-112a

## ELECTRICAL TECHNOLOGY KEY NOTES

- ET1 THEATRICAL STAGE LIGHTING DEVICE. PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-103 FOR LOCATIONS; SEE STAGE LIGHTING DRAWINGS TL-101 AND TL-104 FOR WIRING AND DEVICE DETAILS.
- ET2 THEATRICAL HOUSE LIGHTING DEVICE. PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-103 FOR LOCATIONS; SEE STAGE LIGHTING DRAWINGS TL-101 AND TL-104 FOR WIRING AND DEVICE DETAILS.
- ET3 THEATRICAL STAGE LIGHTING DEVICE (STAGE PIPE GRID). PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-103 FOR LOCATIONS; SEE STAGE LIGHTING DRAWINGS TL-101 AND TL-104 FOR WIRING AND DEVICE DETAILS.
- ET4 THEATRICAL STAGE LIGHTING DEVICE (HOUSE CATWALKS OR PIPE GRID). PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-103 FOR LOCATIONS; SEE STAGE LIGHTING DRAWINGS TL-101 AND TL-104 FOR WIRING AND DEVICE DETAILS.
- ET5 IN FLOOR/UNDER SLAB CONDUITS FROM MONITOR WALL BOX TO AV FLOOR BOX OR POKE-THRU DEVICE. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- ET6 PROVIDE WIREMOLD INTEGRATE AV TABLE TOP BOX CUT INTO TABLE TOP. PROVIDE WITH UNDER TABLE CABLE MANAGEMENT "UTCM5 CHANNEL AND #MRTC TRANSITION CHANNEL TO ROUTE WIRING DOWN TO FLOOR BOX. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
- ET7 DUCT SMOKE DAMPER CONTROL. REFER TO DETAIL 2/E-513 AND CORRESPONDING POWER DRAWINGS FOR ADDITIONAL INFORMATION.
- ET8 THEATRICAL MEDIA LAB/CONTROL ROOM LIGHTING DEVICE. PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-107 FOR LOCATIONS, SEE THEATRICAL LIGHTING DRAWINGS QT-100 AND QT-104 FOR WIRING AND DEVICE DETAILS.
- ET9 THEATRICAL MEDIA LAB LIGHTING DEVICE (PIPE GRID). PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-107 FOR LOCATIONS, SEE THEATRICAL LIGHTING DRAWINGS QT-100 AND QT-104 FOR WIRING AND DEVICE DETAILS.
- ET10 FIRE SUPRESSION SYSTEM ALARM AND TROUBLE MONITORING. REFER TO DRAWING AND SCHEDULES ON E-410 FOR ADDITIONAL INFORMATION.
- ET11 AV BOX AND WIRING BY OTHERS - CONDUITS AND BACKBOX INSTALLATION BY DIV. 26. SEE AV SERIES DRAWINGS FOR ADDITIONAL INFORMATION.

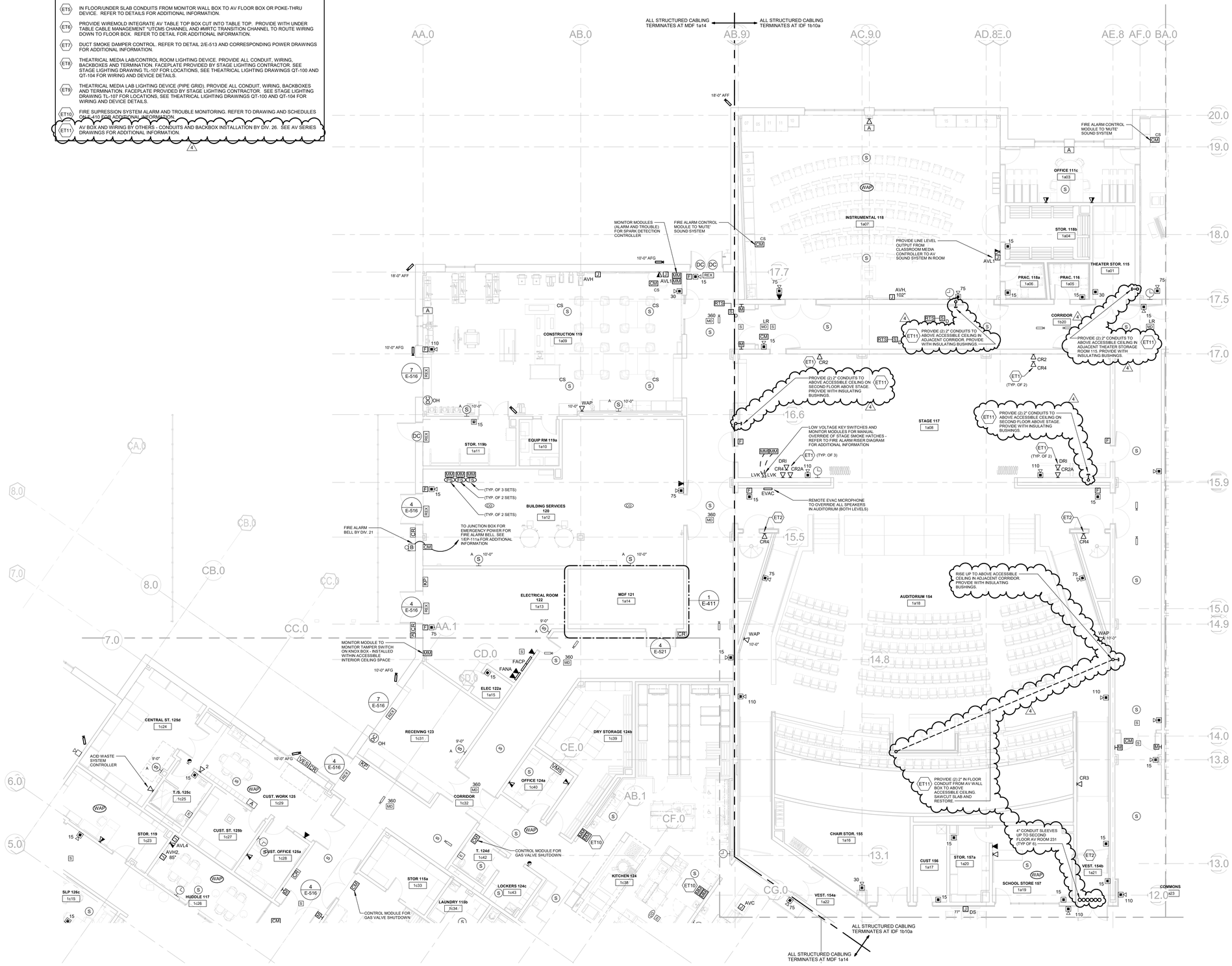
## GENERAL PATHWAY NOTES

PROVIDE CONDUIT SLEEVES FROM ABOVE ACCESSIBLE CORIDOR CEILINGS AND BETWEEN ALL FLOOR TO DECK PARTITIONS FOR TELECOMMUNICATIONS AND LOW VOLTAGE WIRING. SLEEVES SHALL EXTEND BETWEEN ACCESSIBLE CEILINGS FOR WIRING ACCESS AND SHALL INCLUDE INSULATING BUSHINGS ON EACH END. EXTEND SLEEVES 4" ON EITHER SIDE OF WALL/PARTITION AND TO ABOVE ACCESSIBLE CEILINGS. WHERE SPACES DO NOT INCLUDE ACCESSIBLE CEILINGS, ROUTE WIRING IN CONDUIT UP TO THE UNDERSIDE OF THE STRUCTURE. COORDINATE ALL SLEEVE LOCATIONS WITH THE LOW VOLTAGE CONTRACTORS. IN ADDITION TO ANY PATHWAY/SLEEVE LOCATIONS SHOWN ON THE DRAWINGS, PROVIDE THE FOLLOWING:

A. (2) 2" CONDUIT SLEEVES BETWEEN CORRIDORS AND ALL CLASSROOM/INSTRUCTIONAL SPACES.
B. (3) 2" CONDUIT SLEEVES BETWEEN MAIN CORRIDORS AND ADMINISTRATION OFFICE AREAS.
C. (3) 2" CONDUIT SLEEVES BETWEEN MAIN CORRIDORS AND THE DINING COMMONS, AUIDTORIUM, GYMNASIUM, AND OTHER ASSEMBLY SPACES.
D. MINIMUM OF (1) 2" CONDUIT SLEEVES FROM CORRIDOR TO ALL OFFICE SPACES.

## GENERAL NOTES - TECHNOLOGY

1. REFER TO DRAWING E-000 & E-001 FOR ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
2. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR MOUNTING HEIGHTS, FINAL LOCATIONS, CONTINUOUS LINEAR FIXTURE LENGTHS AND ADDITIONAL LIGHTING FIXTURE INFORMATION.
3. REFER TO DRAWINGS E-512, E-513, E-514, E-515 & E-711 FOR TECHNOLOGY RISER DIAGRAMS AND DETAILS.
4. COORDINATE AIMING OF ALL CAMERAS WITH THE OWNER.
5. PRIOR TO ROUGH-IN, COORDINATE ALL AV AND TELECOMMUNICATIONS DEVICE BACKOX LOCATIONS WITH OWNER PROVIDED PROJECTION AND VISUAL DISPLAY EQUIPMENT.
6. REFER TO SITE UTILITIES PLAN SU-01 FOR BUILDING MOUNTED WEATHERPROOF PUBLIC ADDRESS SPEAKER LOCATIONS (FIRST FLOOR ONLY).
7. REFER TO AUDIO VISUAL 'EAV' SERIES DRAWINGS FOR TECHNOLOGY INFRASTRUCTURE REQUIREMENTS TO SUPORT THE INSTALLATION OF THE DEVICES SHOWN ON THE 'EAV' SERIES DRAWINGS.




1 NFHS FIRST FLOOR - ELECTRICAL TECHNOLOGY PLAN - AREA A
1/8" = 1'-0"

6/27/2022 11:45:02 AM

# New Fairfield High School & Pool Locker Rooms

**54 Gillotti Rd,**
**New Fairfield, CT 06812**

**091-0044N &**
**091-0046CV**


JCJARCHITECTURE
120 HUYSHOPE AVENUE
SUITE 400
HARTFORD, CT 06106
860.247.9226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Consulting Engineering Services, Inc.
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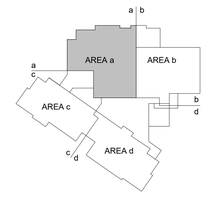


KEY PLAN

CONFORMED SET
06/08/2021

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| ISSUE | ISSUED FOR BID |
| JOB | 2020128.01 |
| DRAWN | MAL |
| SCALE | As indicated |

REVISIONS

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| 06-23-2021 | Addendum 1 |
| 05-17-2022 | CCD-001: Construction Change Directive 001 - Revisions to Architecural, Electrical and Mechanical per Tech and FFE changes per Owner Request |
| 06-08-2022 | Bulletin 15 (PR-007) |
| 06-27-2022 | Bulletin 17 (PR-009) |

**ELECTRICAL TECHNOLOGY PLAN - FIRST FLOOR LEVEL AREA A**

# ET-111a

## GENERAL NOTES - TECHNOLOGY

1. REFER TO DRAWING E-000 & E-001 FOR ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
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3. REFER TO DRAWINGS E-512, E-513, E-514, E-515 & E-711 FOR TECHNOLOGY RISER DIAGRAMS AND DETAILS.
4. COORDINATE AIMING OF ALL CAMERAS WITH THE OWNER.
5. PRIOR TO ROUGH-IN, COORDINATE ALL AV AND TELECOMMUNICATIONS DEVICE BACKOX LOCATIONS WITH OWNER PROVIDED PROJECTION AND VISUAL DISPLAY EQUIPMENT.
6. REFER TO SITE UTILITIES PLAN SU-01 FOR BUILDING MOUNTED WEATHERPROOF PUBLIC ADDRESS SPEAKER LOCATIONS (FIRST FLOOR ONLY).
7. REFER TO AUDIO VISUAL 'EAV' SERIES DRAWINGS FOR TECHNOLOGY INFRASTRUCTURE REQUIREMENTS TO SUPORT THE INSTALLATION OF THE DEVICES SHOWN ON THE 'EAV' SERIES DRAWINGS.

## GENERAL PATHWAY NOTES

PROVIDE CONDUIT SLEEVES FROM ABOVE ACCESSIBLE CORIDOR CEILINGS AND BETWEEN ALL FLOOR TO DECK PARTITIONS FOR TELECOMMUNICATIONS AND LOW VOLTAGE WIRING. SLEEVES SHALL EXTEND BETWEEN ACCESSIBLE CEILINGS FOR WIRING ACCESS AND SHALL INCLUDE INSULATING BUSHINGS ON EACH END. EXTEND SLEEVES 4" ON EITHER SIDE OF WALL/PARTITION AND TO ABOVE ACCESSIBLE CEILINGS. WHERE SPACES DO NOT INCLUDE ACCESSIBLE CEILINGS, ROUTE WIRING IN CONDUIT UP TO THE UNDERSIDE OF THE STRUCTURE. COORDINATE ALL SLEEVE LOCATIONS WITH THE LOW VOLTAGE CONTRACTORS. IN ADDITION TO ANY PATHWAY/SLEEVE LOCATIOONS SHOWN ON THE DRAWINGS, PROVIDE THE FOLLOWING:

A. (2) 2" CONDUIT SLEEVES BETWEEN CORRIDORS AND ALL CLASSROOM/INSTRUCTIONAL SPACES.
B. (3) 2" CONDUIT SLEEVES BETWEEN MAIN CORRIDORS AND ADMINISTRATION OFFICE AREAS.
C. (3) 2" CONDUIT SLEEVES BETWEEN MAIN CORRIDORS AND THE DINING COMMONS, AUIDTORIUM, GYMNASIUM, AND OTHER ASSEMBLY SPACES.
D. MINIMUM OF (1) 2" CONDUIT SLEEVES FROM CORRIDOR TO ALL OFFICE SPACES.

## ELECTRICAL TECHNOLOGY KEY NOTES

ET1 THEATRICAL STAGE LIGHTING DEVICE. PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-103 FOR LOCATIONS; SEE STAGE LIGHTING DRAWINGS TL-101 AND TL-104 FOR WIRING AND DEVICE DETAILS.

ET2 THEATRICAL HOUSE LIGHTING DEVICE. PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-103 FOR LOCATIONS; SEE STAGE LIGHTING DRAWINGS TL-101 AND TL-104 FOR WIRING AND DEVICE DETAILS.

ET3 THEATRICAL STAGE LIGHTING DEVICE (STAGE PIPE GRID). PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-103 FOR LOCATIONS; SEE STAGE LIGHTING DRAWINGS TL-101 AND TL-104 FOR WIRING AND DEVICE DETAILS.

ET4 THEATRICAL STAGE LIGHTING DEVICE (HOUSE CATWALKS OR PIPE GRID). PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-103 FOR LOCATIONS; SEE STAGE LIGHTING DRAWINGS TL-101 AND TL-104 FOR WIRING AND DEVICE DETAILS.

ET5 IN FLOOR/UNDER SLAB CONDUITS FROM MONITOR WALL BOX TO AV FLOOR BOX OR POKE-THRU DEVICE. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

ET6 PROVIDE WIREMOLD INTEGRATE AV TABLE TOP BOX CUT INTO TABLE TOP. PROVIDE WITH UNDER TABLE CABLE MANAGEMENT "UTCMS CHANNEL AND #MRTC TRANSITION CHANNEL TO ROUTE WIRING DOWN TO FLOOR BOX. REFER TO DETAIL FOR ADDITIONAL INFORMATION.

ET7 DUCT SMOKE DAMPER CONTROL. REFER TO DETAIL 2/E-513 AND CORRESPONDING POWER DRAWINGS FOR ADDITIONAL INFORMATION.

ET8 THEATRICAL MEDIA LAB/CONTROL ROOM LIGHTING DEVICE. PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-107 FOR LOCATIONS, SEE THEATRICAL LIGHTING DRAWINGS QT-100 AND QT-104 FOR WIRING AND DEVICE DETAILS.

ET9 THEATRICAL MEDIA LAB LIGHTING DEVICE (PIPE GRID). PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-107 FOR LOCATIONS, SEE THEATRICAL LIGHTING DRAWINGS QT-100 AND QT-104 FOR WIRING AND DEVICE DETAILS.

ET10 FIRE SUPRESSION SYSTEM ALARM AND TROUBLE MONITORING. REFER TO DRAWING AND SCHEDULES OF FP SERIES FOR ADDITIONAL INFORMATION.

ET11 AV BOX AND WIRING BY OTHERS - CONDUITS AND BACKBOX INSTALLATION BY DIV. 26. SEE AV SERIES DRAWINGS FOR ADDITIONAL INFORMATION.


1 NFHS FIRST FLOOR - ELECTRICAL TECHNOLOGY PLAN - AREA B
1/8" = 1'-0"

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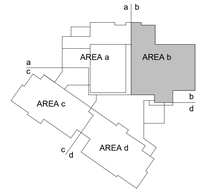


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**ELECTRICAL TECHNOLOGY PLAN - FIRST FLOOR LEVEL AREA B**

# ET-111b

6/27/2022 11:45:11 AM

## ELECTRICAL TECHNOLOGY KEY NOTES

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ET2 THEATRICAL HOUSE LIGHTING DEVICE. PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-103 FOR LOCATIONS; SEE STAGE LIGHTING DRAWINGS TL-101 AND TL-104 FOR WIRING AND DEVICE DETAILS.

ET3 THEATRICAL STAGE LIGHTING DEVICE (STAGE PIPE GRID). PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-103 FOR LOCATIONS; SEE STAGE LIGHTING DRAWINGS TL-101 AND TL-104 FOR WIRING AND DEVICE DETAILS.

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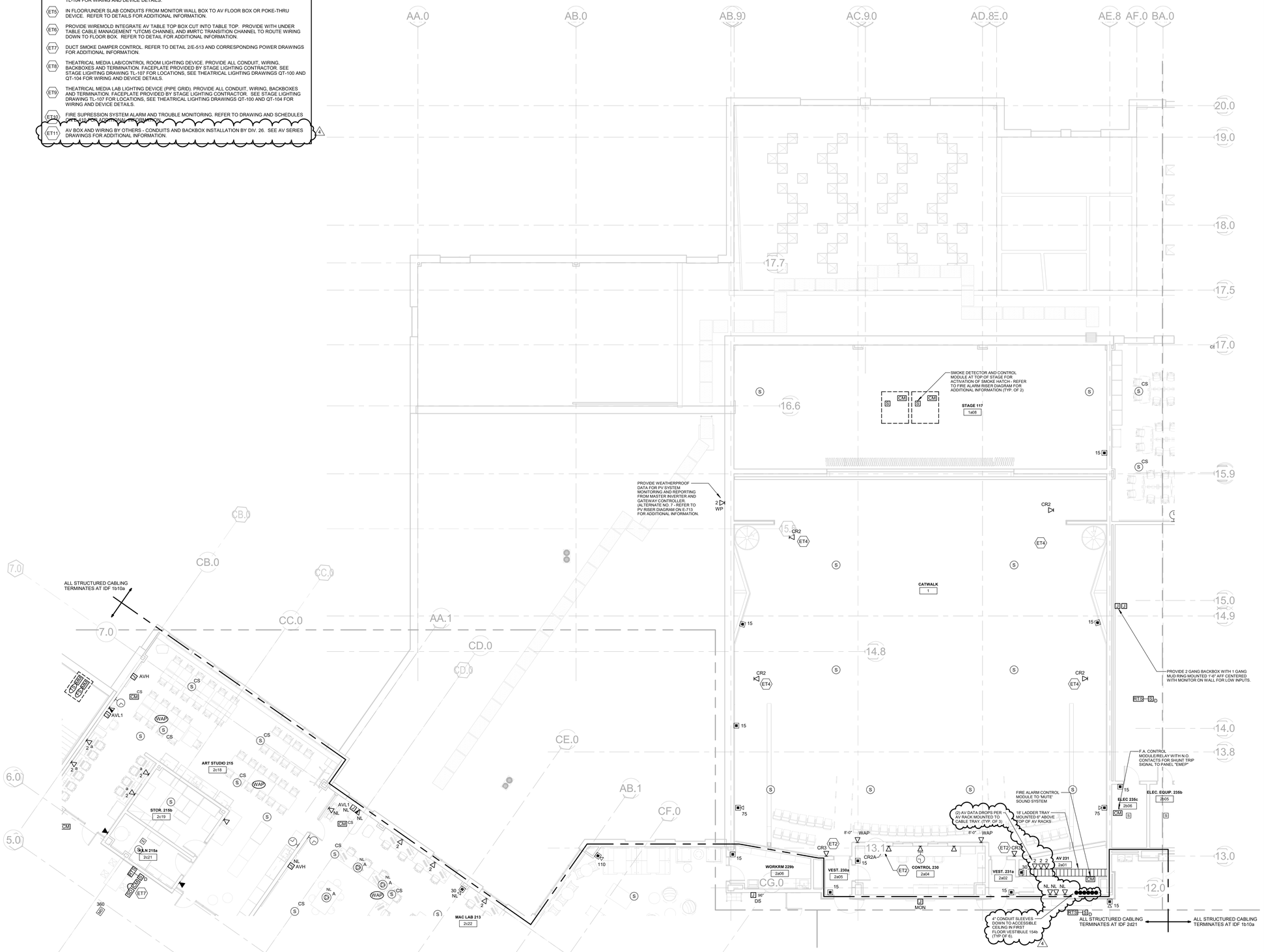


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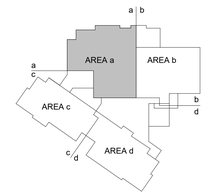


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REVISIONS

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| 06-23-2021 | Addendum 1 |
| 04-21-2022 | PR-005 MAC Lab Revisions |
| 05-24-2022 | Bulletin 14 (PR-006) |
| 06-27-2022 | Bulletin 17 (PR-009) |

**ELECTRICAL TECHNOLOGY PLAN - SECOND FLOOR LEVEL AREA A**

# ET-112a

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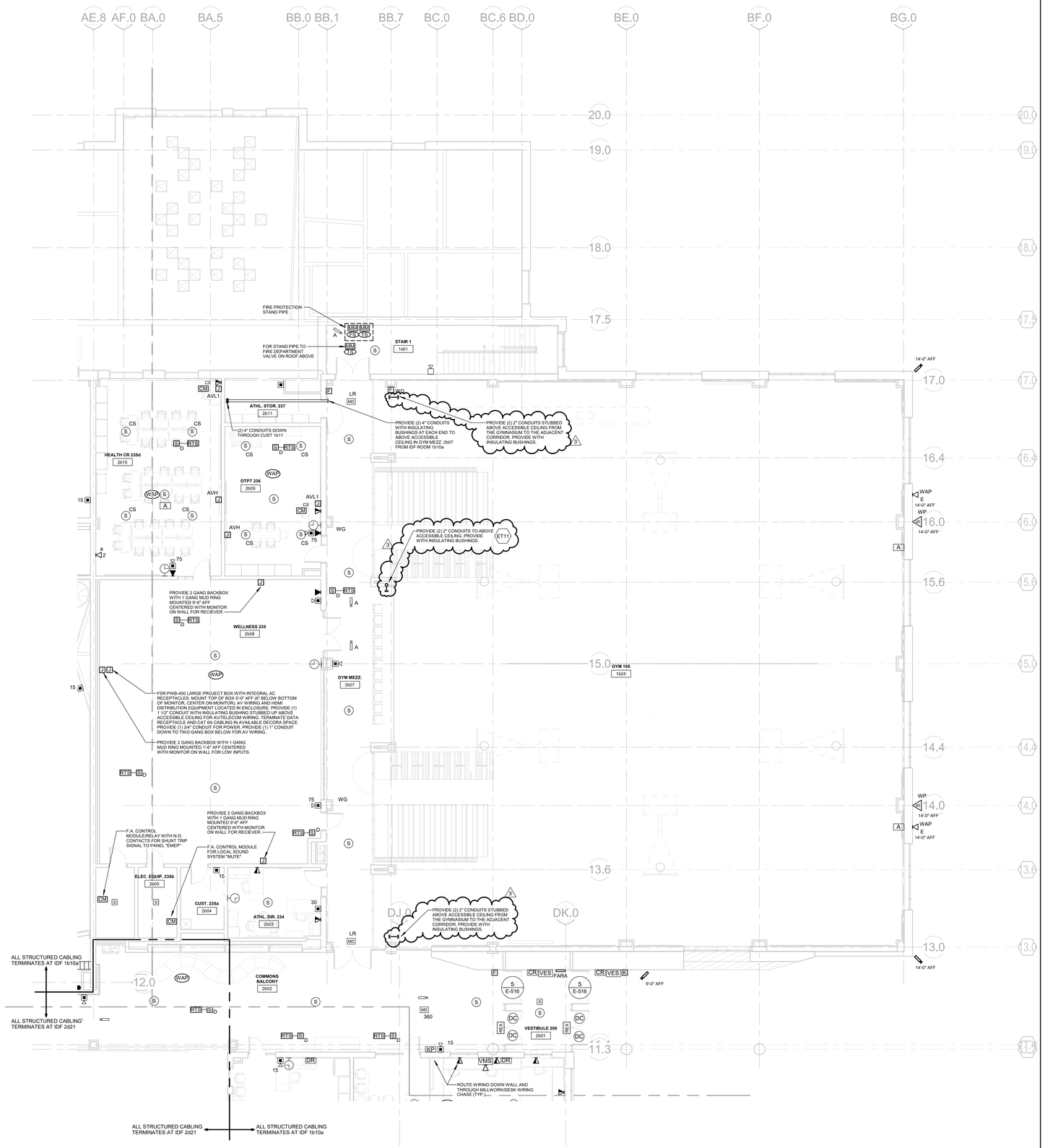
- (ET7) DUCT SMOKE DAMPER CONTROL. REFER TO DETAIL 2/E-513 AND CORRESPONDING POWER DRAWINGS FOR ADDITIONAL INFORMATION.
- (ET8) THEATRICAL MEDIA LAB/CONTROL ROOM LIGHTING DEVICE. PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-107 FOR LOCATIONS, SEE THEATRICAL LIGHTING DRAWINGS QT-100 AND QT-104 FOR WIRING AND DEVICE DETAILS.
- (ET9) THEATRICAL MEDIA LAB LIGHTING DEVICE (PIPE GRID). PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-107 FOR LOCATIONS, SEE THEATRICAL LIGHTING DRAWINGS QT-100 AND QT-104 FOR WIRING AND DEVICE DETAILS.
- (ET10) FIRE SUPRESSION SYSTEM ALARM AND TROUBLE MONITORING. REFER TO DRAWING AND SCHEDULES QA-510 FOR ADDITIONAL INFORMATION.
- (ET11) AV BOX AND WIRING BY OTHERS - CONDUITS AND BACKBOX INSTALLATION BY DIV. 26. SEE AV SERIES DRAWINGS FOR ADDITIONAL INFORMATION.

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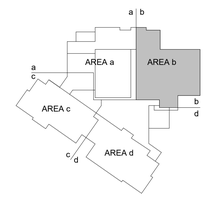


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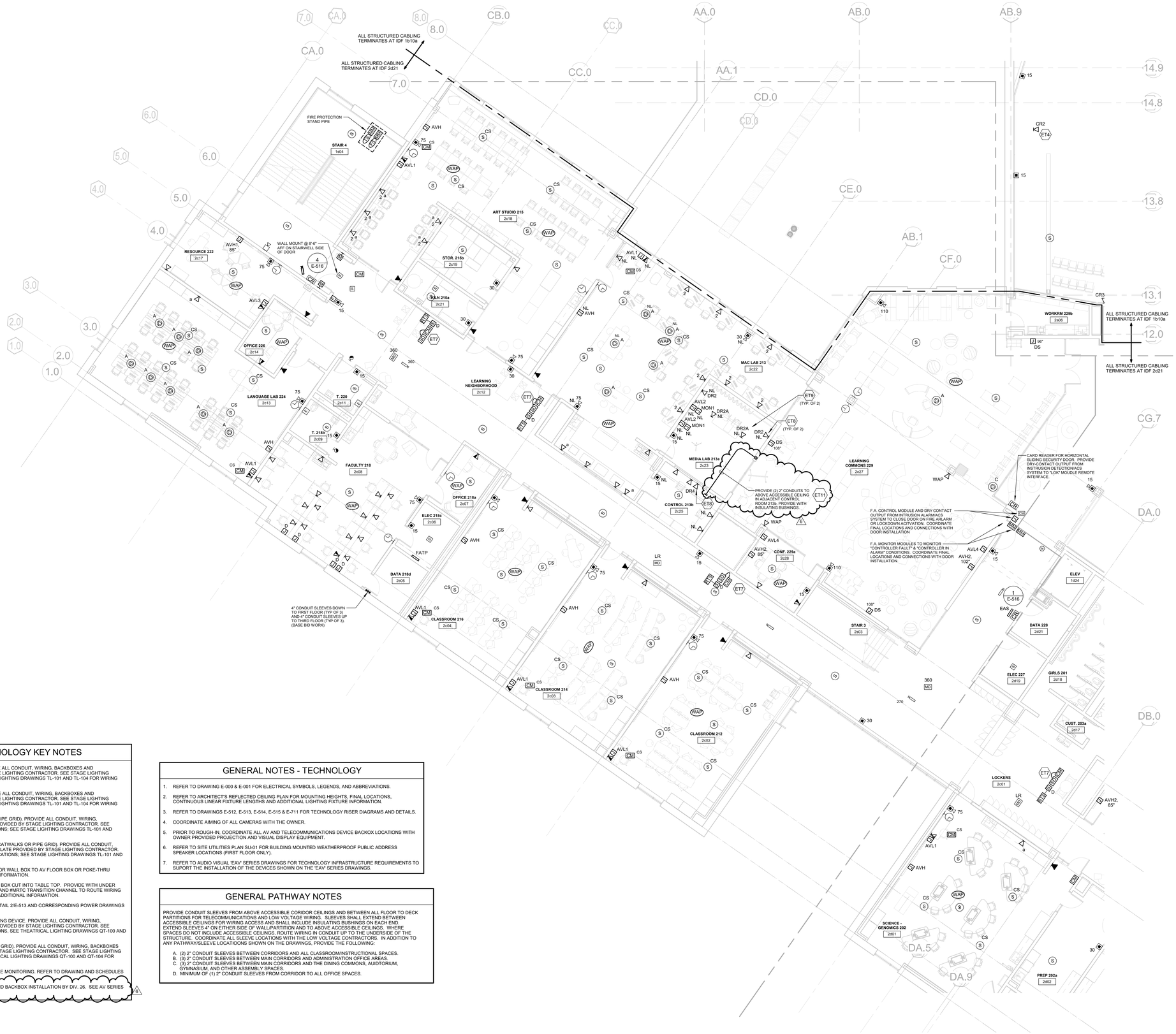
**ELECTRICAL TECHNOLOGY PLAN - SECOND FLOOR LEVEL AREA B**

# ET-112b

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| ET3 | THEATRICAL STAGE LIGHTING DEVICE (STAGE PIPE GRID). PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-103 FOR LOCATIONS; SEE STAGE LIGHTING DRAWINGS TL-101 AND TL-104 FOR WIRING AND DEVICE DETAILS. |
| ET4 | THEATRICAL STAGE LIGHTING DEVICE (HOUSE CATWALKS OR PIPE GRID). PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-103 FOR LOCATIONS; SEE STAGE LIGHTING DRAWINGS TL-101 AND TL-104 FOR WIRING AND DEVICE DETAILS. |
| ET5 | IN FLOOR/UNDER SLAB CONDUITS FROM MONITOR WALL BOX TO AV FLOOR BOX OR POKE-THRU DEVICE. REFER TO DETAILS FOR ADDITIONAL INFORMATION. |
| ET6 | PROVIDE WIREMOLD INTEGRATE AV TABLE TOP BOX CUT INTO TABLE TOP. PROVIDE WITH UNDER TABLE CABLE MANAGEMENT "UTOMS CHANNEL AND #MRTC TRANSITION CHANNEL TO ROUTE WIRING DOWN TO FLOOR BOX. REFER TO DETAIL FOR ADDITIONAL INFORMATION. |
| ET7 | DUCT SMOKE DAMPER CONTROL. REFER TO DETAIL 2/E-513 AND CORRESPONDING POWER DRAWINGS FOR ADDITIONAL INFORMATION. |
| ET8 | THEATRICAL MEDIA LAB/CONTROL ROOM LIGHTING DEVICE. PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-107 FOR LOCATIONS, SEE THEATRICAL LIGHTING DRAWINGS QT-100 AND QT-104 FOR WIRING AND DEVICE DETAILS. |
| ET9 | THEATRICAL MEDIA LAB LIGHTING DEVICE (PIPE GRID). PROVIDE ALL CONDUIT, WIRING, BACKBOXES AND TERMINATION. FACEPLATE PROVIDED BY STAGE LIGHTING CONTRACTOR. SEE STAGE LIGHTING DRAWING TL-107 FOR LOCATIONS, SEE THEATRICAL LIGHTING DRAWINGS QT-100 AND QT-104 FOR WIRING AND DEVICE DETAILS. |
| ET10 | FIRE SUPPRESSION SYSTEM ALARM AND TROUBLE MONITORING. REFER TO DRAWING AND SCHEDULES OF FP SERIES FOR ADDITIONAL INFORMATION. |
| ET11 | AV BOX AND WIRING BY OTHERS - CONDUITS AND BACKBOX INSTALLATION BY DIV. 26. SEE AV SERIES DRAWINGS FOR ADDITIONAL INFORMATION. |

## GENERAL NOTES - TECHNOLOGY

1. REFER TO DRAWING E-000 & E-001 FOR ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
2. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR MOUNTING HEIGHTS, FINAL LOCATIONS, CONTINUOUS LINEAR FIXTURE LENGTHS AND ADDITIONAL LIGHTING FIXTURE INFORMATION.
3. REFER TO DRAWINGS E-512, E-513, E-514, E-515 & E-711 FOR TECHNOLOGY RISER DIAGRAMS AND DETAILS.
4. COORDINATE AIMING OF ALL CAMERAS WITH THE OWNER.
5. PRIOR TO ROUGH-IN, COORDINATE ALL AV AND TELECOMMUNICATIONS DEVICE BACKOX LOCATIONS WITH OWNER PROVIDED PROJECTION AND VISUAL DISPLAY EQUIPMENT.
6. REFER TO SITE UTILITIES PLAN SU-01 FOR BUILDING MOUNTED WEATHERPROOF PUBLIC ADDRESS SPEAKER LOCATIONS (FIRST FLOOR ONLY).
7. REFER TO AUDIO VISUAL 'EAV' SERIES DRAWINGS FOR TECHNOLOGY INFRASTRUCTURE REQUIREMENTS TO SUPORT THE INSTALLATION OF THE DEVICES SHOWN ON THE 'EAV' SERIES DRAWINGS.

## GENERAL PATHWAY NOTES

PROVIDE CONDUIT SLEEVES FROM ABOVE ACCESSIBLE CORIDOR CEILINGS AND BETWEEN ALL FLOOR TO DECK PARTITIONS FOR TELECOMMUNICATIONS AND LOW VOLTAGE WIRING. SLEEVES SHALL EXTEND BETWEEN ACCESSIBLE CEILINGS FOR WIRING ACCESS AND SHALL INCLUDE INSULATING BUSHINGS ON EACH END. EXTEND SLEEVES 4" ON EITHER SIDE OF WALL/PARTITION AND TO ABOVE ACCESSIBLE CEILINGS. WHERE SPACES DO NOT INCLUDE ACCESSIBLE CEILINGS, ROUTE WIRING IN CONDUIT UP TO THE UNDERSIDE OF THE STRUCTURE. COORDINATE ALL SLEEVE LOCATIONS WITH THE LOW VOLTAGE CONTRACTORS. IN ADDITION TO ANY PATHWAY/SLEEVE LOCATIONS SHOWN ON THE DRAWINGS, PROVIDE THE FOLLOWING:

A. (2) 2" CONDUIT SLEEVES BETWEEN CORRIDORS AND ALL CLASSROOM/INSTRUCTIONAL SPACES.
B. (3) 2" CONDUIT SLEEVES BETWEEN MAIN CORRIDORS AND ADMINISTRATION OFFICE AREAS.
C. (3) 2" CONDUIT SLEEVES BETWEEN MAIN CORRIDORS AND THE DINING COMMONS, AUIDTORIUM, GYMNASIUM, AND OTHER ASSEMBLY SPACES.
D. MINIMUM OF (1) 2" CONDUIT SLEEVES FROM CORRIDOR TO ALL OFFICE SPACES.

1 NFHS SECOND FLOOR - ELECTRICAL TECHNOLOGY PLAN - AREA C
1/8" = 1'-0"

6/27/2022 11:45:36 AM

# New Fairfield High School & Pool Locker Rooms

54 Gillotti Rd,
New Fairfield, CT 06812

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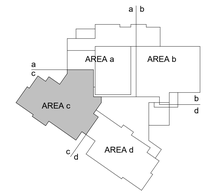
NORTH




KEY PLAN

CONFORMED SET
06/08/2021

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|---|---|
| ISSUE | ISSUED FOR BID |
| JOB | 2020128.01 |
| DRAWN | MAL |
| SCALE | As indicated |

REVISIONS

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|---|---|
| 06-23-2021 | Addendum 1 |
| 04-21-2022 | PR-005 MAC Lab Revisions |
| 05-17-2022 | CCD-001: Construction Change Directive 001 - Revisions to Architecural, Electrical and Mechanical per Tech and FFE changes per Owner Request |
| 05-24-2022 | Bulletin 14 (PR-006) |
| 06-08-2022 | Bulletin 15 (PR-007) |
| 06-27-2022 | Bulletin 17 (PR-009) |

**ELECTRICAL TECHNOLOGY PLAN - SECOND FLOOR LEVEL AREA C**

# ET-112c