

ADDENDUM NO. 01

October 31, 2025

Clark-Pleasant WCHS Phase 4
300 E Main St.
Whiteland, IN 46184

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated October 6, 2025, by Lancer Associates of Architects (Architect). Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1 - 2 and attached Lancer Associates of Architects, Addendum No. 01, October 23, 2025, consisting of 6 pages and 38 drawings.

A. SPECIFICATION SECTION 00 20 00 – INFORMATION AVAILABLE TO BIDDERS

C. WCHS Phase 4 Site Logistics/Phasing Plan/Guideline Schedule date October 8, 2025, is being issued as part of this addendum for reference by all contractors.

B. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

A. Bid Category No. 1 – General Trades

Add the following specification section:

Section 01 51 60 Temporary Sanitary Facilities

Clarifications:

-Provide, install, and maintain temporary floor protection over the Glen Ray Gym floor during construction. Remove and dispose of at the completion of the project.

H. Bid Category No. 8 – Painting

Clarifications:

Sand existing CMU to remove old Zolotone paint prior to new coating system.

C. SPECIFICATION SECTION 01 21 00 ALLOWANCES

1. DELETE entirety of this specification section and replace with 01 21 00 – ALLOWANCES section included as part of this Addendum.

D. SPECIFICATION SECTION 01 23 00 BID ALTERNATES

1. DELETE entirety of this specification section and replace with 01 23 00 – BID ALTERNATES section included as part of this Addendum.

SECTION 01 21 00 – ALLOWANCES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including amended General Conditions and other Division-1 Specification Sections, apply to work of this Section.

1.02 REQUIREMENTS INCLUDED

- A. The Specifications contain Allowances for particular items, methods of construction, quantities of materials, labor for certain items and these stated Allowances shall be included in the total lump sum bid price.
 - 1. Should the final amounts as determined from actual costs vary from these stated Allowances, the Contract price will be adjusted by Change Order as stated in the Conditions of the Contract.
 - 2. Under no circumstances shall work exceeding the stated Allowance amounts, proceed without a properly executed Change Order.
- B. A "Schedule of Allowances" showing amounts included in each prime Contract Sum, is included at the end of this Section.
- C. Product/Materials Allowance: At the earliest feasible date after award of Contract, advise the Architect and Construction Manager of scheduled date when final selection and purchase of each product or system described by each Allowance must be accomplished in order to avoid delays in performance of the Work.
 - 1. As requested by the Architect, obtain and submit proposals for the work of each Allowance for use in making final selection; include recommendations for selection which are relevant to the proper performance of the Work.
 - 2. Purchase products and systems as specifically selected (in writing) by the Architect.
 - 3. Submit proposals and recommendations, for purchase of products or systems of Allowances, in form specified for Change Orders.
 - 4. When requested, submit a substantiated survey of quantities of materials, as shown in the "Schedule of Values", revised where necessary, and corresponding with Change Order quantities.
 - 5. Amount of Allowance includes:
 - a. Net cost of product
 - b. Delivery to the site
 - c. Applicable taxes
 - 6. In addition to amount of Allowance, include in Bid, for inclusion in Contract Sum, Contractor's costs for:
 - a. Handling at site, including unloading, uncrating and storage
 - b. Protection from elements, from damage
 - c. Labor, installation and finishing

- d. Other expenses (e.g., testing, adjusting and balancing) required to complete installation
 - e. Overhead and profit
- D. Contingency Allowance: Contingency allowance shall be used only as directed for Owner's purposes. Proposal shall be submitted by Contractor for work requested in format similar to that required for Change Orders. Compensation to the Contractor for work requested utilizing this Allowance shall be for only Contractor's costs as defined by Paragraph 7.3.7 of the General Conditions, except no compensation shall be allowed for overhead and profit. At time of Project closeout, unused amounts remaining in contingency allowance shall be credited to Owner by Change Order.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 PRODUCT ALLOWANCE

A.	Bid Category No. 1 General Trades – Signage	\$300,000
B.	Bid Category No. 1 General Trades – TV Studio Set Design	\$100,000
C.	Bid Category No. 1 General Trades – Temp Main Entrance	\$50,000
D.	Bid Category No. 1 General Trades – Relocate Wood Logo	\$50,000

3.02 CONTINGENCY ALLOWANCES

Allow a lump sum additional work required but not indicated on Drawings or reasonably anticipated.

A.	Bid Category No. 1 General Trades	\$100,000
B.	Bid Category No. 2 Masonry	\$25,000
C.	Bid Category No. 3 Roofing	\$25,000
D.	Bid Category No. 4 Metal Studs, Drywall, & Acoustical	\$50,000
E.	Bid Category No. 5 Glass & Glazing	\$25,000
F.	Bid Category No. 6 Flooring	\$25,000
G.	Bid Category No. 7 Epoxy Terrazzo	\$25,000
H.	Bid Category No. 8 Painting	\$25,000
I.	Bid Category No. 9 Fire Protection	\$25,000
J.	Bid Category No. 10 Plumbing	\$50,000
K.	Bid Category No. 11 HVAC	\$50,000
L.	Bid Category No. 12 Electrical & Technology	\$50,000

END OF SECTION 01 21 00

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including amended General Conditions and other Division 1 Specification Sections, apply to work of this Section.

1.02 PURPOSE

- A. The Bids for the Alternates described herein are required in order for the Owner to obtain information necessary for the proper consideration of the Project in its entirety.

1.03 ALTERNATES

- A. Definitions: Alternates are defined as alternate products, materials, equipment, installations or systems for the Work, which may, at Owner's option and under terms established by Instructions to Bidders, be selected and recorded in the Owner-Contractor Agreement to either supplement or displace corresponding basic requirements of Contract Documents. Alternates may or may not substantially change scope and general character of the Work; and must not be confused with "allowances", "unit prices", "change orders", "substitutions", and other similar provisions.

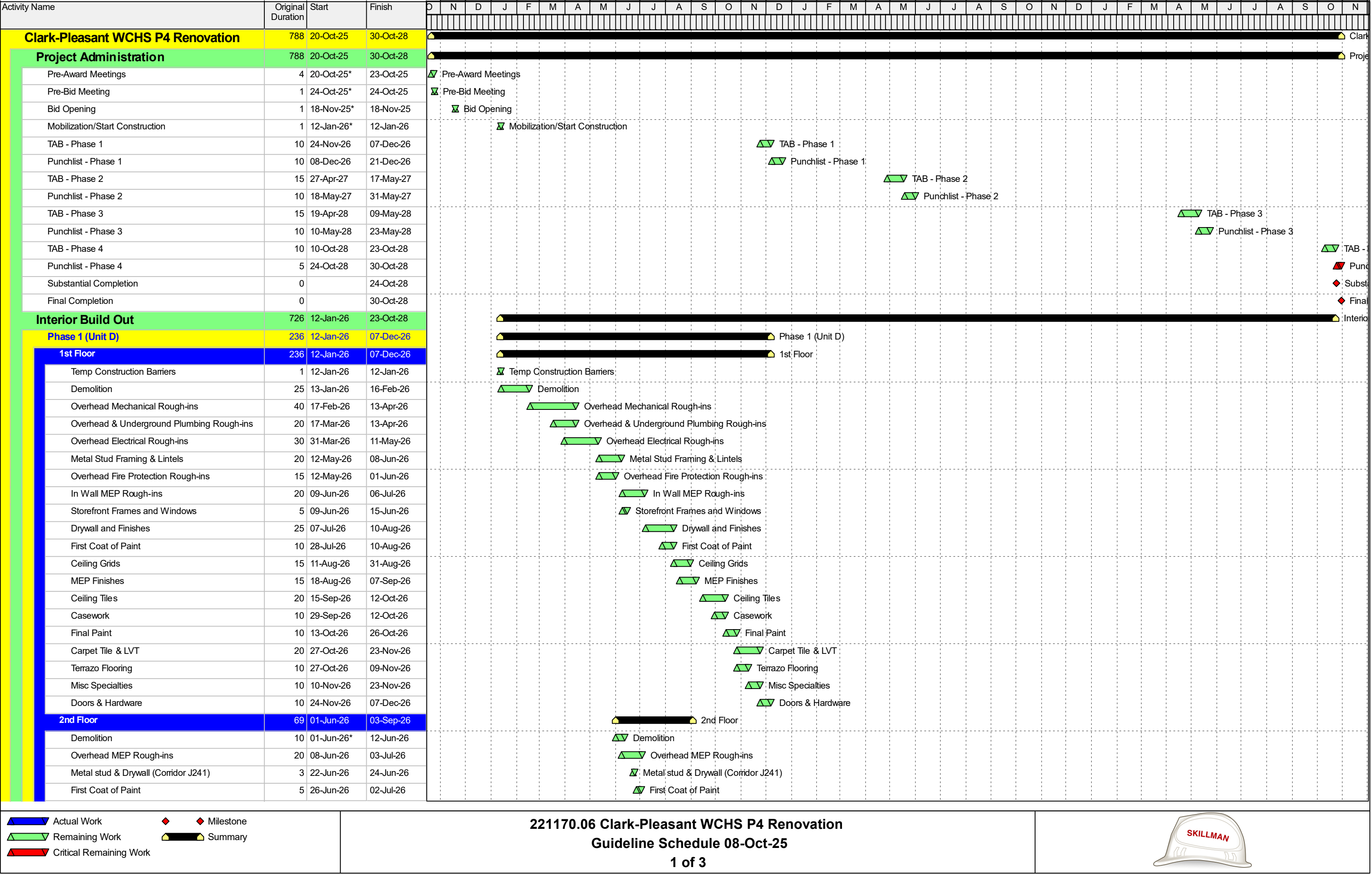
1.04 SCHEDULE OF ALTERNATES

- A. ALTERNATE NO. 1: Magnetic Hold Opens for Cross-Corridor Doors
Provide price for cross-corridor doors outlined on sheet T211 to receive magnetic hold open functionality tied into the building panic system to release and lock when panic system is activated as outlined by detail #2 on sheet T211. Doors shall be new as part of alternate.
- B. ALTERNATE NO. 2: Magnetic Hold Opens and Card Readers for Cross-Corridor Doors
Provide price for cross-corridor doors outlined on sheet T211 to receive magnetic hold open functionality tied into the building panic system to release and lock when panic system is activated in addition to card reader functionality as outlined by detail #3 on sheet T211. Doors shall be new as part of alternate.
- C. ALTERNATE NO. 3: Distech with Niagara 4, installed by Jackson Systems and Supply. Base Bid: Controls by Owner.

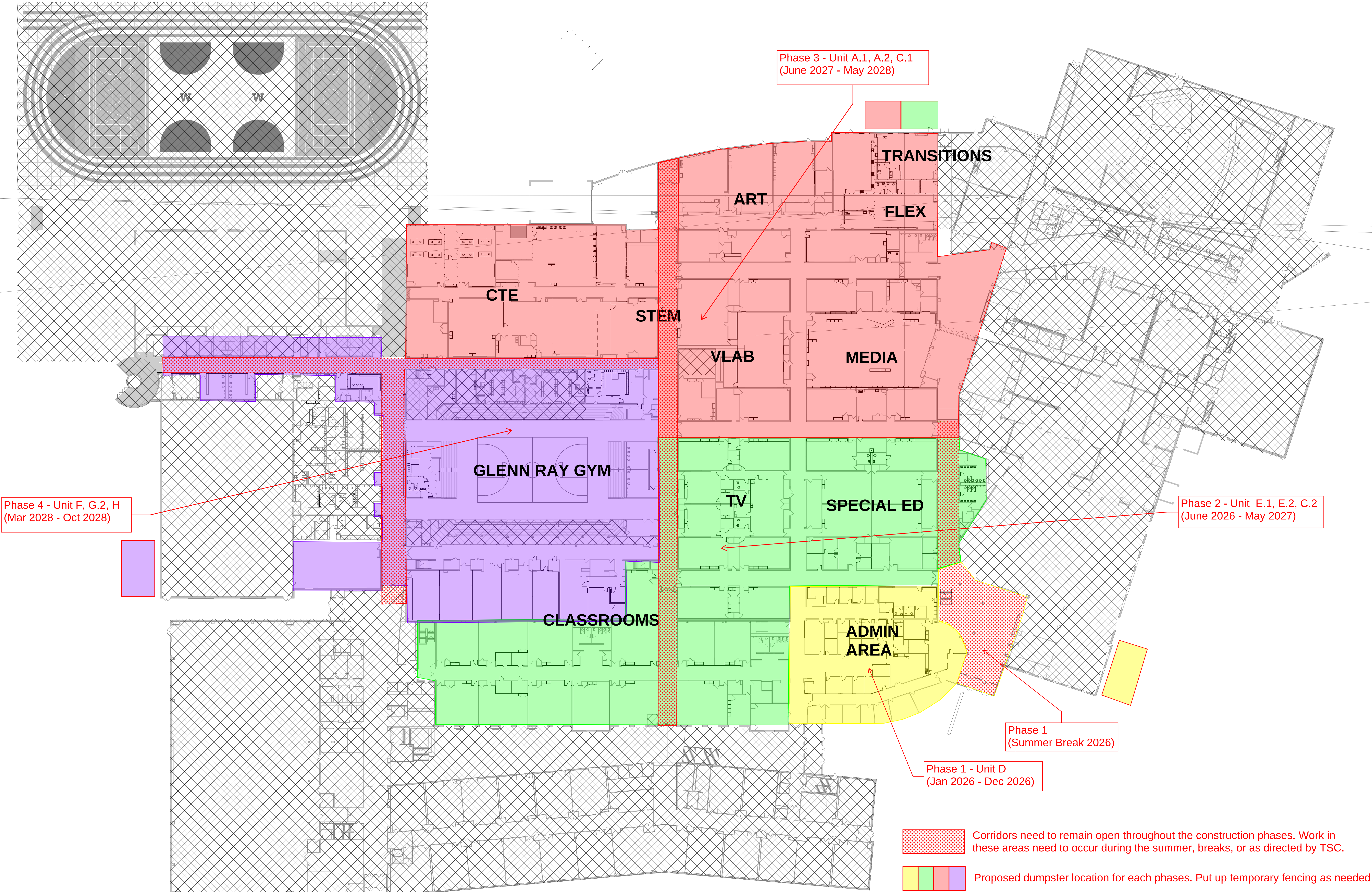
- D. ALTERNATE NO. 4: Johnson Controls Metasys with Niagara 4, installed by local factory authorized branch. Base Bid: Controls by Owner.
- E. ALTERNATE NO. 5: Alerton Controls with Niagara 4, installed by Open Control Systems. Base Bid: Controls by Owner.
- F. ALTERNATE NO. 6: TV Studio Value Engineering
- Reduce the number of TV STUDIO VIDEO CAMERAS, TV STUDIO CAMERA CONTROL UNITS, TELEPROMPTER MONITORS, TALENT MONITORS, TELEPROMPTER HOODS from five (5) to three (3)
 - Reduce the number of FIELD CAMERA KITS from ten (10) to five (5)
 - Provide a Ross Carbonite Ultra CUF-124 TV STUDIO PRODUCTION ENGINE in lieu of the Ross Ultrix-NS-FR5 TV STUDIO PRODUCTION ENGINE. Include GRAPHITE-1RU-ABU-12G, NK ROUTER NK-3G72, and all applicable licenses and hardware accessories matching the functionality required by the T-series TV studio AV diagrams and the TV STUDIO PRODUCTION ENGINE specifications including all required licenses and hardware accessories listed in section 274116.
 - Provide a Clear-Com Encore TV STUDIO INTERCOM SYSTEM in lieu of the Clear-Com Arcadia TV STUDIO INTERCOM SYSTEM. Include all applicable hardware accessories matching the functionality required by the T-series TV studio AV diagrams and the TV STUDIO INTERCOM SYSTEM specifications including all required hardware accessories listed in section 274116.
 - Remove only XPRESSION DESIGNER and GRAPHICS PACKAGE FOR XPRESSION from bid. Do not remove any of the TV STUDIO GRAPHICS PACKAGE hardware or associated accessories specified in section 274116 from bid.
 - Remove the News Gathering Server and associated equipment from the bid (Specification 27 41 16 Part 2.41)
 - Remove the AV ENCODER TYPE 2 serving the standard PC, Edit PCs and Graphics PC shown on sheet T306 (10 total).

PART 2 - PRODUCTS, PART 3 - EXECUTION (Not Used)

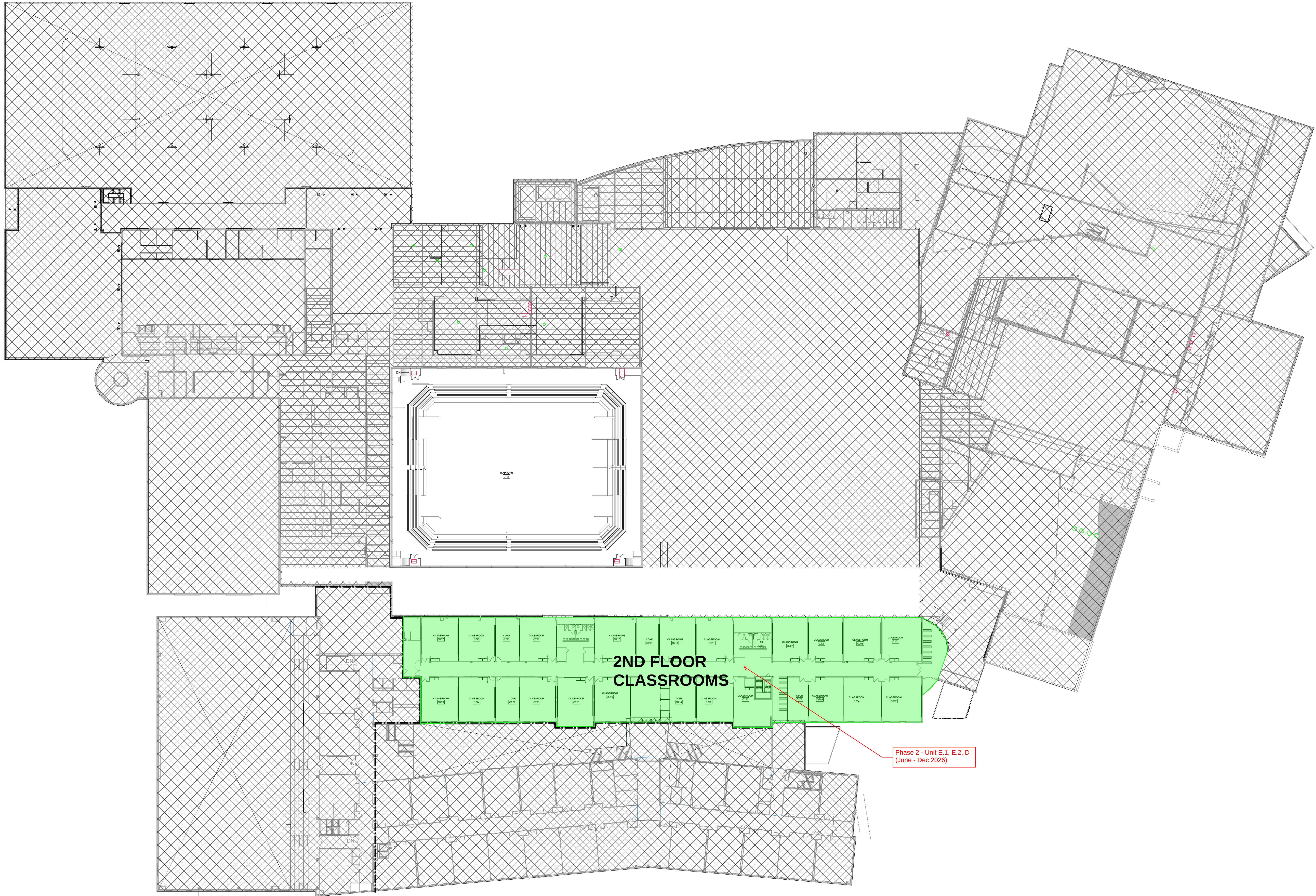
END OF SECTION 01 23 00



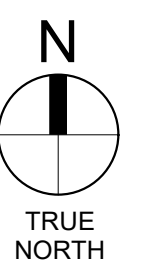
WCHS P4 - PHASING PLAN



PLOT DATE/TIME: 10/06/2025 8:58 AM



1 SECOND FLOOR - OVERALL
SCALE: 1" = 30'-0"



A012

FLOOR PLAN -
SECOND FLOOR
- OVERALL

100% CONSTRUCTION
DOCUMENTS
PROJECT: #22130
DATE: 10/06/2025
DRAWN BY: Author

#	Date	Desc.

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL PHASE 4
300 E MAIN ST, WHITELAND, IN 46184

ADDENDUM NO. ONE

**PROJECT: CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL ADDITION
PHASE 4**

PROJECT NUMBER: 22130

DATE OF ADDENDUM: OCTOBER 23RD, 2025



THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND IS ISSUED IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY SIGNING THE ADDENDUM ACKNOWLEDGMENT SECTION OF THE BID FORM.

QUESTIONS

Q: Sheet 300 is there a spec for the manual dual arm barrier gate?

A: Please refer to spec section 32 33 00

Q: System Super 1.5EZ is modular in design. That means we custom quote each project to meet the end user's specific configuration and dimensional requirements.

At this time, I do not have enough information to offer a quote. Please let me know if you can answer the following questions – or if you can guide me into the drawings or specs that will answer these questions regarding the TV Studio:

- 1) Do you intend to install a straight wall (one wall coved with no corners) an L-shape (two walls coved with one corner) or a U-shape (three walls coved with two corners)?
- 2) Beginning from the corner of the room behind the cyc, how long do you want each coved wall to be?
- 3) How high do you want your cyc to be?

A: On the north side of the TV Studio R109, is where we like a U-shape Pro Cyc System. Refer to sheet A721E.1 for dimensions. Coordinate with electrical drawings and manufacturer as to what the appropriate height would be.

Q: Do you want the PT-8 in the dark room?

A: Yes.

Q: A765 detail 7 is a metal stud wall required for this circulation desk?

A: Yes.

Q: A722E.1 has a note 6 in the stairwell. Is the stairwell to get wall tile?

A: Yes.

Q: A101D room ADM-116.1 what is the furniture shown in there? Nothing noted.

A: Refer to sheet A766 for casework elevations 10/A766, 11/A766, and 12/A766. Refer to sheet A732 for 3/A732 – ENLARGED PALN – GUIDANCE RECEPTION DESK for plan det

SPECIFICATIONS

1. Specification Section 03 45 00
Specification Title: PRECAST ARCHITECTURAL CONCRETE
Change:
Delete 2.9.A.1 – there is no textured precast concrete
2. Specification Section: 08 71 00
Specification Title: DOOR HARDWARE
Change:

Add spec Section in its entirety

DRAWINGS REVISIONS:

1. AD101A.1 – DEMOLITION PLAN – FIRST FLOOR – UNIT A1
- Modified note 47 added not 50 and 51
2. AD101A.2 – DEMOLITION PLAN – FIRST FLOOR – UNIT A2
- Modified note 31. Added note 9 for walk in cooler/freezer
3. AD101D – DEMOLITION PLAN – FIRST FLOOR – UNIT D

- Added note 19
 - Added existing terrazzo logo area.
4. AD101E.1 – DEMOLITION PLAN – FIRST FLOOR – UNIT E.1
 - Modified note 14, and changed to note 5 from 6.
 5. AD101F – DEMOLITION PLAN – FIRST FLOOR – UNIT F
 - Modified note 14, and changed to note 5 from 6.
 6. AD101G – DEMOLITION PLAN – FIRST FLOOR – UNIT G
 - Added note 50, change note 47 to 50. Removed note 5.
 7. AD101H – DEMOLITION PLAN – FIRST FLOOR – UNIT H
 - Added note 50. Change note 47 to 50.
 8. AD102F – DEMOLITION PLAN – SECOND FLOOR – UNIT F
 - Added note 51
 9. A101A.1 – FLOOR PLAN – FIRST FLOOR – UNIT A1
 - Modified note 68
 - 10.A101C.1 – FLOOR PLAN – FIRST FLOOR – UNIT C.1
 - Correct spelling in note 67, 68, 69. Added tag A4 to wall and note 65.
 - 11.A101C.2 – FLOOR PLAN – FIRST FLOOR – UNIT C.2
 - Added note 42
 - 12.A101D – FLOOR PLAN – FIRST FLOOR – UNIT D
 - Added note 68
 - 13.A101E.1 – FLOOR PLAN – FIRST FLOOR – UNIT E.1
 - Added note 24 and section 8/A501
 - 14.A101F – FLOOR PLAN – FIRST FLOOR – UNIT F
 - Added detail 1/A501 Sim
 - 15.A101H – FLOOR PLAN – FIRST FLOOR – UNIT H
 - Added detail 1/A501 Sim
 - 16.A101F – FLOOR PLAN – SECOND FLOOR – UNIT F
 - Corrected note 29 and removed note 48
 - 17.A121E.1 – REFLECTED CEILING PLAN – FIRST FLOOR – UNIT E.1

- Added detail 7/A501 Sim
- 18.A121F – REFLECTED CEILING PLAN – FIRST FLOOR – UNIT F
 - Added detail 7/A501 Sim
- 19.A121G.2 – REFLECTED CEILING PLAN – FIRST FLOOR – UNIT G.2
 - Added detail 7/A501 Sim. Changed APC-A from 9' to 10'
- 20.A121H – REFLECTED CEILING PLAN – FIRST FLOOR – UNIT H
 - Added detail 7/A501 Sim
- 21.A122D – REFLECTED CEILING PLAN – SECOND FLOOR – UNIT D
 - Added GB-2
- 22.A501 – REFLECTED CEILING PLAN – SECOND FLOOR – UNIT D
 - Added DETAIL 7 AND 8 TO SHEET
- 23.A602 – DOOR SCHEDULE – EXISTING
 - Added door to schedule. Added door hardware
- 24.A601 – DOOR SCHEDULE – NEW
 - Removed door A107.11, UI106B, J137, J138, J139, J141, J143, J235, J237, J239. Added door hardware
- 25.A720 – FINISH LEGEND
 - Revised material information for WOM-1 and WOM-2.
 - Revised material information for WT-3.
 - Added Floor Finish Hatch Legend. Reference hatches for all finish sheets.
- 26.A721A.1 – INTERIOR FINISH PLAN – FIRST FLOOR – UNIT A.1
 - Revised LVT-2, LVT-1 callouts in Corridor U1001.
- 27.A721A.2 – INTERIOR FINISH PLAN – FIRST FLOOR – UNIT A.2
 - Revised Corridor V1000 wall material within finish tag to be “WT-3, PT-1.” Removed WT-4.
 - Added interior elevation 7/A751 for south wall of Corridor V1000.
 - Added interior elevations 4/A751, 5/A751, and 6/A751. Reference interior elevations 4/A751, 5/A751, and 6/A751 to be typical of all restroom wall tile areas.
- 28.A721C.1 – INTERIOR FINISH PLAN – FIRST FLOOR – UNIT C.1
 - Revised shelving casework on east wall of Media Center A107.

- Added interior elevations 2/A769, 3/A769, 4/A769, 5/A769, 6/A769
- Added interior elevation 7/A751 for south wall of Corridor V1000.
- Revised flooring hatch for flooring combo type CPT-2 and CPT-3 to match added Floor Finish Hatch Legend (Sheet A720).

29.A721F – INTERIOR FINISH PLAN – FIRST FLOOR – UNIT F

- Added finish plan keynote #7 to Corridors R1001 and T1000. Finish plan keynote #7 to apply to all interior sheets.
- Added flooring, base, and paint scope to locker room entrance off south side of Corridor T1000.
- Added interior elevations 4/A751, 5/A751, and 6/A751. Reference interior elevations 4/A751, 5/A751, and 6/A751 to be typical of all restroom wall tile areas.

30.A732 – INTERIOR ENLARGED PLANS

- Revised finish design for 1/A732 – INTERIOR FINISH PLAN – FIRST FLOOR – ENLARGED – WALK OFF DESIGN

31.A751 – INTERIOR ELEVATIONS

- Added interior elevations 4/A751, 5/A751, 6/A751, and 7/A751.

32.A760 – CASEWORK ELEVATIONS

- Added base cabinetry to casework elevation 6/A750.

33.A762 – CASEWORK ELEVATIONS

- Revised casework elevation 3/A762 to show correct cabinetry and correct casework sections.

34.A764 – CASEWORK ELEVATIONS

- Added interior elevation keynotes for plastic laminate casework and solid surface tops to casework elevations 12/A764, 1/A764, 6/A764, and 9/A764.
- Added casework sections to casework elevations 12/A764, 1/A764, 6/A764, and 9/A764.

35.A765 – CASEWORK ELEVATIONS

- Added interior elevation keynotes for plastic laminate casework and solid surface tops to casework elevations 1/A765, 2/A765, 3/A765, 4/A765, 5/A765, and 6/A765.
- Added casework sections to casework elevations 1/A765, 2/A765, 3/A765, 4/A765, 5/A765, and 6/A765. 2/A764, 1/A764, 6/A764, and 9/A764.
- Added wall tags to enlarged plan 7/A765 and casework elevations 8/A765, 9/A765, 11/A765, and 12/A765.

36.A766 – CASEWORK ELEVATIONS

- Added interior elevation keynotes for plastic laminate casework and solid surface tops to casework elevations 1/A766, 2/A766, 3/A766, 5/A766, 6/A766, 7/A766, 8/A766, 9/A766, 10/A766, 11/A766, 12/A766, 13/A766, 14/A766, and 16/A766.
- Added casework sections to casework elevations 1/A766, 2/A766, 3/A766, 5/A766, 6/A766, 7/A766, 8/A766, 9/A766, 10/A766, 11/A766, 12/A766, 13/A766, 14/A766, and 16/A766. 12/A764, 1/A764, 6/A764, and 9/A764.

37.A768 – CASEWORK DETAILS

- Revised casework section detail 7/A768 – CSWK – TALL OPEN SHELVING SECTION.

38.A769 – CASEWORK DETAILS

- Revised sheet title to “CASEWORK ELEVATIONS & DETAILS”.
- Added Media Center casework elevations and related section details.
- Added interior elevation keynote legend.

Attachments:

Specification: 08 71 00

Drawing : AD101A.1, AD101A.2, AD101D, AD101E.1, AD101F, AD101G, AD101H, AD102F, A101A.1, A101C.1, A101C.2, A101D, A101E.1, A101F, A101H, A102F, A121R.1, A121F, A121G.2, A121H, A122D, A602, A720, A721A.1, A721A.2, A721C.1, A721F, A723, A751, A760, A762, A764, A765, A766, A768, A769

Technology Addendum

End of Addendum 1

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes:

1. Mechanical and electrified door hardware
2. Electronic access control system components
3. Field verification, preparation and modification of existing doors and frames to receive new door hardware.

B. Section excludes:

1. Windows
2. Cabinets (casework), including locks in cabinets
3. Signage
4. Toilet accessories
5. Overhead doors

C. Related Sections:

1. Division 01 Section "Alternates" for alternates affecting this section.
2. Division 06 Section "Rough Carpentry"
3. Division 06 Section "Finish Carpentry"
4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
5. Division 08 Sections:
 - a. "Metal Doors and Frames"
 - b. "Flush Wood Doors"
 - c. "Aluminum-Framed Entrances and Storefronts"
6. Division 09 sections for touchup, finishing or refinishing of existing openings modified by this section.
7. Division 26 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
8. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

1.02 REFERENCES

A. UL LLC

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies
4. UL 305 - Panic Hardware

B. DHI - Door and Hardware Institute

1. Sequence and Format for the Hardware Schedule
2. Recommended Locations for Builders Hardware

3. Keying Systems and Nomenclature
 4. Installation Guide for Doors and Hardware
- C. NFPA – National Fire Protection Association
1. NFPA 70 – National Electric Code
 2. NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
 3. NFPA 101 – Life Safety Code
 4. NFPA 105 – Smoke and Draft Control Door Assemblies
 5. NFPA 252 – Fire Tests of Door Assemblies
- D. ANSI - American National Standards Institute
1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
 2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
 3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
 4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
 5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

1.03 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
2. Prior to forwarding submittal:
 - a. Comply with procedures for verifying existing door and frame compatibility for new hardware, as specified in PART 3, "EXAMINATION" article, herein.
 - b. Review drawings and Sections from related trades to verify compatibility with specified hardware.
 - c. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.

B. Action Submittals:

1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
 - a. Wiring Diagrams: For power, signal, and control wiring and including:
 - 1) Details of interface of electrified door hardware and building safety and security systems.
 - 2) Schematic diagram of systems that interface with electrified door hardware.
 - 3) Point-to-point wiring.
 - 4) Risers.
3. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.
 - a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

4. Door Hardware Schedule:
 - a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.
 - b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
 - c. Indicate complete designations of each item required for each opening, include:
 - 1) Door Index: door number, heading number, and Architect's hardware set number.
 - 2) Quantity, type, style, function, size, and finish of each hardware item.
 - 3) Name and manufacturer of each item.
 - 4) Fastenings and other pertinent information.
 - 5) Location of each hardware set cross-referenced to indications on Drawings.
 - 6) Explanation of all abbreviations, symbols, and codes contained in schedule.
 - 7) Mounting locations for hardware.
 - 8) Door and frame sizes and materials.
 - 9) Degree of door swing and handing.
 - 10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.
5. Key Schedule:
 - a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
 - b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
 - c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
 - d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
 - e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
 - f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

C. Informational Submittals:

1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
2. Provide Product Data:
 - a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
 - b. Include warranties for specified door hardware.

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
 - a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
 - b. Catalog pages for each product.
 - c. Final approved hardware schedule edited to reflect conditions as installed.
 - d. Final keying schedule

- e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.
- f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

E. Inspection and Testing:

- 1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:
 - a. Fire door assemblies, in compliance with NFPA 80.
 - b. Required egress door assemblies, in compliance with NFPA 101.

1.04 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

- 1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
- 2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
- 3. Architectural Hardware Consultant: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:
 - a. For door hardware: DHI certified AHC or DHC.
 - b. Can provide installation and technical data to Architect and other related subcontractors.
 - c. Can inspect and verify components are in working order upon completion of installation.
 - d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.
- 4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

- 1. Fire-Rated Door Openings:
 - a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
 - b. Provide only items of door hardware that are listed products tested by UL LLC, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.
- 2. Smoke and Draft Control Door Assemblies:
 - a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105

- b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
- 3. Electrified Door Hardware
 - a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
- 4. Accessibility Requirements:
 - a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

C. Pre-Installation Meetings

- 1. Keying Conference
 - a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
 - 1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 - 2) Preliminary key system schematic diagram.
 - 3) Requirements for key control system.
 - 4) Requirements for access control.
 - 5) Address for delivery of keys.
- 2. Pre-installation Conference
 - a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - b. Inspect and discuss preparatory work performed by other trades.
 - c. Inspect and discuss electrical roughing-in for electrified door hardware.
 - d. Review sequence of operation for each type of electrified door hardware.
 - e. Review required testing, inspecting, and certifying procedures.
 - f. Review questions or concerns related to proper installation and adjustment of door hardware.
- 3. Electrified Hardware Coordination Conference:
 - a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.
- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.
- C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
- D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

- E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
- F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.06 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.
- E. Existing Openings: Where existing doors, frames and/or hardware are to remain, field verify existing functions, conditions and preparations and coordinate to suit opening conditions and to provide proper door operation.

1.07 WARRANTY

- A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.
 - 1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
 - 2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
 - a. Mechanical Warranty
 - 1) Locks: 10 Years
 - 2) Exit Devices: 10 Years
 - 3) Closers: 30 Years
 - b. Electrical Warranty
 - 1) Locks: 3 Years
 - 2) Exit Devices: 3 Years

1.08 MAINTENANCE

- A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.
- B. Turn over unused materials to Owner for maintenance purposes.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. The Owner requires use of certain products for their unique characteristics and project suitability to ensure continuity of existing and future performance and maintenance standards. After investigating available product offerings, the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."
 - 1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.
- B. Approval of manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category shall be in accordance with QUALITY ASSURANCE article, herein.
- C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
- D. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.02 MATERIALS

- A. Fabrication
 - 1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.
 - 2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
 - 3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with "Metal Doors and Frames", "Flush Wood Doors", "Stile and Rail Wood Doors" to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.
- B. Modification and Preparation of Existing Doors: Where existing door hardware is indicated to be removed and reinstalled.
 - 1. Provide necessary fillers, Dutchmen, reinforcements, and fasteners, compatible with existing materials, as required for mounting new opening hardware and to cover existing door and frame preparations.
 - 2. Use materials which match materials of adjacent modified areas.
 - 3. When modifying existing fire-rated openings, provide materials permitted by NFPA 80 as required to maintain fire-rating.
- C. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.
 - 1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.
 - 2. For closers and panic devices: Verify with Architect and/or Owner if thru-bolts are required at specific door materials.

2.03 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Ives 5BB series
2. Acceptable Manufacturers and Products:
 - a. Hager BB series
 - b. McKinney TB series
 - c. Stanley (Best/Dormakaba) FBB series

B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Provide five knuckle, ball bearing hinges.
3. Hinge Height:
 - a. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide: 4-1/2 inches (114 mm) high
 - b. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide: 5 inches (127 mm) high
 - c. 2 inches or thicker doors: 5 inches (127 mm) high, regardless of door width
4. Hinge Width: 4-1/2 inches (114 mm) wide typical. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
5. Hinge quantity: Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
6. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
 - a. Steel Hinges: Steel pins
 - b. Non-Ferrous Hinges: Stainless steel pins
 - c. Out-Swinging Exterior Doors: Non-removable pins
 - d. Out-Swinging Interior Lockable Doors: Non-removable pins
 - e. Interior Non-lockable Doors: Non-rising pins
7. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.
8. Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing door or existing frame.

2.04 CONTINUOUS HINGES

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Select
 - b. Pemko

B. Requirements:

1. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.

2. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum.
3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
7. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.
8. Adjust hinge model/width as required for door thickness or construction.

2.05 ELECTRIC POWER TRANSFER

A. Manufacturers:

1. Scheduled Manufacturer and Product:
 - a. Von Duprin EPT-10
2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

1. Provide power transfer with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
2. Locate electric power transfer per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

2.06 DOOR CORDS

A. Manufacturers:

1. Scheduled Manufacturer and Product:
 - a. Schlage 788/798 Series
2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

1. Provide door cords with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
2. Locate electric power transfer per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

2.07 FLUSH BOLTS

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Rockwood
 - b. Trimco

B. Requirements:

1. Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless-steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

2.08 COORDINATORS

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Rockwood
 - b. Trimco

B. Requirements:

1. Where pairs of doors are equipped with automatic flush bolts, an astragal, or other hardware that requires synchronized closing of the doors, provide bar-type coordinating device, surface applied to underside of stop at frame head.
2. Provide filler bar of correct length for unit to span entire width of opening, and appropriate brackets for parallel arm door closers, surface vertical rod exit device strikes, or other stop mounted hardware. Factory-prepared coordinators for vertical rod devices as specified.

2.09 CYLINDRICAL LOCKS – GRADE 1

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Schlage ND series
2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3-hour fire doors.
2. Indicators: Where specified, provide escutcheon with lock status indicator window on top of lockset rose:

- a. Escutcheon height (including rose) 6.05 inches high by 3.68 inches wide.
 - b. Indicator window measuring a minimum 3.52-inch by .60 inch with 1.92 square-inches of front facing viewing area and 180-degree visibility with a total of .236 square-inches of total viewable area.
 - c. Provide snap-in serviceable window to prevent tampering. Lock must function if indicator is compromised.
 - d. Provide messages color-coded with full text and symbol, as scheduled, for easy visibility.
 - e. Unlocked and Unoccupied message will display on white background, and Locked and Occupied message will display on red background.
3. Cylinders: Refer to "KEYING" article, herein.
 4. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2-inch latch throw. Provide proper latch throw for UL listing at pairs.
 5. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
 6. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
 7. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
 8. Provide electrified options as scheduled in the hardware sets.
 9. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
 - a. Lever Design: Rhodes (RHO).

2.10 MORTISE LOCKS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Schlage L9000 series
2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

1. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1, and UL Listed for 3-hour fire doors.
2. Indicators: Where specified, provide indicator window measuring a minimum 2-inch x 1/2 inch with 180-degree visibility. Provide messages color-coded with full text and/or symbols, as scheduled, for easy visibility.
3. Provide locks manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance.
4. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to "KEYING" article, herein.
5. Provide locks with standard 2-3/4 inches (70 mm) backset with full 3/4 inch (19 mm) throw stainless steel mechanical anti-friction latchbolt. Provide deadbolt with full 1-inch (25 mm) throw, constructed of stainless steel.
6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
7. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide switches and sensors integrated into the locks and latches. Provide motor based electrified and motor based latch retraction locksets that comply with the following requirements:
 - a. Universal input voltage – single chassis accepts 12 or 24VDC to allow for changes in the field without changing lock chassis.
 - b. Fail Safe/Fail Secure – changing mode between electrically locked (fail safe) and electrically unlocked (fail secure) is field selectable without opening the lock case

- c. Low maximum current draw – maximum 0.4 amps (Lever control) and maximum 2.0 amps (Latch retraction) to allow for multiple locks on a single power supply.
 - d. Low holding current (Lever control or latch retraction) – maximum 0.01 amps to produce minimal heat, eliminate “hot levers” in electrically locked applications and motorized latch retraction applications, and to provide reliable operation in wood doors that provide minimal ventilation and air flow.
 - e. Connections – provide quick-connect Molex system standard.
8. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.
- a. Lever Design: Schlage 06B.

2.11 EXIT DEVICES

A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product:
 - a. Von Duprin 99 series
- 2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

- 1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
- 2. Cylinders: Refer to "KEYING" article, herein.
- 3. Provide grooved touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
- 4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
- 5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
- 6. Provide exit devices with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
- 7. Provide flush end caps for exit devices.
- 8. Provide exit devices with manufacturer's approved strikes.
- 9. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
- 10. Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
- 11. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
- 12. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
- 13. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
- 14. Provide electrified options as scheduled.
- 15. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.
- 16. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.

2.12 ELECTRIC STRIKES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Von Duprin 6000 Series
2. Acceptable Manufacturers and Products:
 - a. HES 1006 Series

B. Requirements:

1. Provide electric strikes designed for use with type of locks shown at each opening.
2. Provide electric strikes UL Listed as burglary resistant that are tested to a minimum endurance test of 1,000,000 cycles.
3. Where required, provide electric strikes UL Listed for fire doors and frames.
4. Provide transformers and rectifiers for each strike as required. Verify voltage with electrical contractor.

2.13 MOTION SENSORS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Securitron XMS Series
2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

1. Provide motion sensors as specified in hardware groups.

2.14 CYLINDERS

A. Manufacturers:

1. Scheduled Manufacturer and Product:
 - a. Schlage
2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

1. Provide cylinders/cores to match Owner's existing key system, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.
2. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.
 - a. Match owner's existing system.
 - b. Cylinder/Core Type:
 - 1) Full Size Interchangeable Core (FSIC)
3. Replaceable Construction Cores.

- a. Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
 - 1) 3 construction control keys
 - 2) 12 construction change (day) keys.
- 4. Verify with Owner where permanent cores are to be shipped to.

2.15 KEYING

- A. Provide a factory registered keying system, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.
- B. Requirements:
 - 1. Provide keying system capable of multiplex masterkeying.
 - 2. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
 - a. Master Keying system as directed by the Owner.
 - b. Match Owner's existing system.
 - c. (Great)Grand Master Key System: Cylinders/cores operated by change(day) keys and subsequent masters (including grand/great grand) keys.
 - 3. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
 - 4. Provide keys with the following features:
 - a. Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
 - b. Keyway Security Type:
 - 1) Interior: Restricted/Patented
 - 2) Exterior: High Security Schlage PRIMUS
 - 5. Identification:
 - a. Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
 - b. Identification stamping provisions must be approved by the Architect and Owner.
 - c. Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
 - d. Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
 - 6. Quantity: Furnish in the following quantities.
 - a. Change (Day) Keys: 3 per cylinder/core.
 - b. Permanent Control Keys: 3 (only applicable to interchangeable core).
 - c. Master Keys: 6/ea (per master).
 - d. Unused balance of key blanks shall be provided to Owner with cut keys.
 - 7. Verify with Owner where permanent keys are to be shipped to.

2.16 KEY CONTROL SYSTEM

- A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Telkee
 2. Acceptable Manufacturers:
 - a. HPC
 - b. Lund
- B. Requirements:
1. Provide key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of number of locks required for Project.
 - a. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
 - b. Provide hinged-panel type cabinet for wall mounting.

2.17 DOOR CLOSERS

- A. Manufacturers and Products:
1. Scheduled Manufacturer and Product:
 - a. LCN 4040XP series
 2. Acceptable Manufacturers and Products:
 - a. No Substitute
- B. Requirements:
1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
 2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
 3. Cylinder Body: 1-1/2-inch (38 mm) diameter piston with 5/8-inch (16 mm) diameter double heat-treated pinion journal. QR code with a direct link to maintenance instructions.
 4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
 5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards. Provide snap-on cover clip, with plastic covers, that secures cover to spring tube.
 6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck. Provide graphically labelled instructions on the closer body adjacent to each adjustment valve. Provide positive stop on reg valve that prevents reg screw from being backed out.
 7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
 8. Pressure Relief Valve (PRV) Technology: Not permitted.
 9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
 10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.18 ELECTROMAGNETIC HOLDERS / ELECTRONIC OVERHEAD HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. LCN SEM/SEH Series
2. Acceptable Manufacturers:
 - a. No Substitute

B. Requirements:

1. Provide single-point or multi-point hold-open electromechanical closer/holders as specified. Coordinate voltage requirements and provide transformer if necessary.
2. Provide closer/holders that function as full rack and pinion door closer when current is interrupted or continuous hold-open is not engaged.
3. Provide door closers with fully hydraulic, full rack and pinion action with high strength cylinder and full complement bearings at shaft.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
7. Pressure Relief Valve (PRV) Technology: Not permitted.
8. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.19 ELECTRO-HYDRAULIC AUTOMATIC OPERATORS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. LCN 4600 series
2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

1. Provide low energy automatic operator units with hydraulic closer complying with ANSI/BHMA A156.19.
2. Provide automatic operator units complying with 2022 California Building Code Section 11B-404.2.9, Exception 2.
3. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
4. Provide units with conventional door closer opening and closing forces unless power operator motor is activated. Provide door closer assembly with adjustable spring size, back-check, and opening and closing speed adjustment valves to control door
5. Provide units with on/off switch for manual operation, motor start up delay, vestibule interface delay, electric lock delay, and door hold open delay.
6. Provide drop plates, brackets, and adapters for arms as required for details.
7. Provide actuator switches and receivers for operation as specified.
8. Provide weather-resistant actuators at exterior applications.

9. Provide key switches with LED's, recommended and approved by manufacturer of automatic operator as required for function described in operation description of hardware group below. Cylinders: Refer to "KEYING" article, herein.
10. Provide complete assemblies of controls, switches, power supplies, relays, and parts/material recommended and approved by manufacturer of automatic operator for each individual leaf. Actuators control both doors simultaneously at pairs. Sequence operation of exterior and vestibule doors with automatic operators to allow ingress or egress through both sets of openings as directed by Architect. Locate actuators, key switches, and other controls as directed by Architect.
11. Provide units with vestibule inputs that allow sequencing operation of two units, and SPDT relay for interfacing with latching or locking devices.

2.20 DOOR TRIM

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Trimco
 - b. Rockwood
 - c. Hager

B. Requirements:

1. Provide push plates, push bars, pull plates, pulls, and hands-free reversible door pulls with diameter and length as scheduled.

2.21 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Trimco
 - b. Rockwood
 - c. Hager

B. Requirements:

1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
3. At fire rated doors, provide protection plates over 16 inches high with UL label.

2.22 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers:
 - a. Glynn-Johnson
2. Acceptable Manufacturers:
 - a. No Substitute

B. Requirements:

1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.
2. Provide friction type at doors without closer and positive type at doors with closer.

2.23 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Trimco
 - b. Rockwood

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide concave type where lockset has a push button or thumbturn.
2. Where a wall stop cannot be used, provide universal floor stops.
3. Where wall or floor stop cannot be used, provide overhead stop.
4. Provide roller bumper where doors open into each other and overhead stop cannot be used.

2.24 SILENCERS

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Rockwood
 - b. Trimco

B. Requirements:

1. Provide "push-in" type silencers for hollow metal or wood frames.
2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
3. Omit where gasketing is specified.

2.25 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

- A. Manufacturers:
- B. Scheduled Manufacturer:
 - 1. Zero International
- C. Acceptable Manufacturers:
 - 1. National Guard
 - 2. Reese
 - 3. Pemko
- D. Seals and Gasketing: Provide continuous gasketing on exterior openings, to the head and jambs, forming a continuous seal between the door and the frame. Provide smoke, light, or sound gasketing on interior doors where indicated.
 - 1. Provide self-tapping fasteners for aluminum extruded gasketing being applied to hollow metal frames.
 - a. Provide non-corrosive fasteners for all exterior applications.
 - b. Provide security fasteners where indicated.
 - 2. Provide neoprene, EPDM, silicone, or nylon brush inserts as specified in hardware sets. Provide non brush inserts of solid or sponge cell, as specified in hardware sets. Vinyl inserts are not allowed except where specified in hardware sets.
- E. Smoke Labeled Gasketing: At all smoke labeled openings, provide smoke listed perimeter gasketing assemblies complying with NFPA 105 listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction for smoke control ratings indicated based on testing according to UL 1784.
- F. Fire Listed Gasketing: Assemblies complying with NFPA 80 that are listed by a testing and inspecting agency acceptable to authorities having jurisdiction for fire ratings indicated based on testing according to UL-10C.
 - 1. Where frame-applied intumescent seals are required by the manufacturer, provide gaskets that comply with UL10C Standard for Positive Pressure Fire Tests of Door Assemblies and UBC 7-2, Fire Tests of Door Assemblies.
- G. Sound-Rated Gasketing: Provide acoustic gasketing to meet Sound Transmission Class (STC) rating required.
- H. Meeting-Stile Gasketing: Provide meeting-stile gasketing that fastens to the meeting stiles forming a continuous seal when doors are closed.
- I. Door Sweeps or Shoes: Apply to the bottom of the door to close the gap between the door bottom and finished floor or saddle threshold.
 - 1. Provide solid neoprene, EPDM, silicone, or nylon brush type of seal as specified in hardware sets. Vinyl inserts are not allowed except where specified in hardware sets.
- J. Automatic Door Bottoms:
 - 1. Provide closed cell sponge, bulb neoprene. or EPDM type of seal as specified in hardware sets.
 - 2. Door bottom to be mortised, semi mortised, or surface mount as with a minimum thickness as specified in hardware sets.

K. Rain Drips:

1. Provide overhead rain drips for out-swinging hollow metal doors that are not covered against 45 degree blowing rain. Aluminum extrusion to be a minimum of .088 inches thick and extend 2.50 inches from the face of the frame, in anodized finish to match door.
2. Door sweeps or shoes with integral rain drip must meet ADA requirements

L. Thresholds: Provide threshold units not less than 4 inches wide, formed to accommodate change in floor elevation where indicated, and fabricated to accommodate door hardware and fit door frames.

1. Threshold extrusion to be a minimum thickness as specified in hardware sets.

2.26 FINISHES

- A. Provide finish for each item as indicated in the sets.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.
- B. Field verify existing doors and frames receiving new hardware and existing conditions receiving new openings. Verify that new hardware is compatible with existing door and frame preparation and existing conditions.
- C. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- D. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Where on-site modification of doors and frames is required:
1. Carefully remove existing door hardware and components being reused. Clean, protect, tag, and store in accordance with storage and handling requirements specified herein.
 2. Field modify and prepare existing doors and frames for new hardware being installed.
 3. When modifications are exposed to view, use concealed fasteners, when possible.
 4. Prepare hardware locations and reinstall in accordance with installation requirements for new door hardware and with:
 - a. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.
 - b. Wood Doors: DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."

- c. Doors in rated assemblies: NFPA 80 for restrictions on on-site door hardware preparation.

3.03 INSTALLATION

- A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Custom Steel Doors and Frames: HMMA 831.
 - 3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
 - 4. Installation Guide for Doors and Hardware: DHI TDH-007-20
- B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.
- C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.
- I. Lock Cylinders:
 - 1. Install construction cores to secure building and areas during construction period.
 - 2. Replace construction cores with permanent cores as indicated in keying section.
- J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:
 - 1. Conduit, junction boxes and wire pulls.
 - 2. Connections to and from power supplies to electrified hardware.
 - 3. Connections to fire/smoke alarm system and smoke evacuation system.
 - 4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
 - 5. Connections to panel interface modules, controllers, and gateways.
 - 6. Testing and labeling wires with Architect's opening number.
- K. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.

- L. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.
- M. Closer/Holders: Mount closer/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- N. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.
- O. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
- P. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.
- Q. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- R. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- S. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.04 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
- B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.05 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items per manufacturer's instructions to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.06 DOOR HARDWARE SCHEDULE

- A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.
- B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.
- C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.
- D. Hardware Sets:

139908 OPT0453878 Version 3

HARDWARE GROUP NO. 01

For use on Door #(s):

B104.1B	B103.1B	B104.8A	B104.8B	B104.8C	B104.8D
C107.9	R103C	R101C	U106C	U108B	

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	PASSAGE SET	ND10S RHO	626	SCH
1	EA	SURFACE CLOSER (W/ DEAD STOP & HO)	4040XP HCUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 02

For use on Door #(s):

B104.2 B104.7

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	TIME OUT LOCK	L9010 06B LESS INSIDE TRIM XL12-419 (LHR) XL12-631 (RHR)	626	SCH
1	EA	ROLLER LATCH	RL30 @ HEAD	626	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

TIME OUT LOCK OPERATION: NO HARDWARE ON INSIDE FACE OF DOOR. LATCHBOLT NORMALLY RETRACTED. HOLDING UP OUTSIDE LEVER PROJECTS LATCHBOLT PREVENTING OCCUPANT IN ROOM FROM LEAVING AND/OR INJURING THEMSELVES OR OTHERS. RELEASING OUTSIDE LEVER, RETRACTS LATCHBOLT ALLOWING OCCUPANT IN ROOM TO LEAVE. NOTE: SINCE TIME OUT LOCK HAS LATCHBOLT NORMALLY RETRACTED, ROLLER LATCH @ HEAD IS TO HOLD DOOR IN CLOSED POSITION WHEN ROOM IS NOT IN USE.

HARDWARE GROUP NO. 03

For use on Door #(s):

K100E K102B

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B- CS	630	IVE
1	EA	MOP PLATE	8400 4"H X WIDTH AS REQ'D X B- CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 04

For use on Door #(s):

C104 C106 K102A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	CLASSROOM DEAD LOCK	L463J XB11-720	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
1	EA	MOP PLATE	8400 4"H X WIDTH AS REQ'D X B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 05

For use on Door #(s):

T100B.6

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	DBL CYL DEADBOLT	B662J	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 06

For use on Door #(s):

T100G

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	ENTRANCE LOCK (W/ AUTO UNLOCK & OS LOCKED IND)	ND55JD RHO OS-LOC	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 07

For use on Door #(s):

ADM106.2 ADM106.3 B103.3 S100.1 S104.1

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	ENTRANCE LOCK (W/ AUTO UNLOCK & OS OCCUPIED IND)	ND55JD RHO OS-OCC	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 08

For use on Door #(s):

A110.2 ADM108.2 ADM108.3 ADM108.4 B103.1 B103.4

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	ENTRANCE LOCK (W/ AUTO UNLOCK & OS OCCUPIED IND)	ND55JD RHO OS-OCC	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B- CS	630	IVE
1	EA	MOP PLATE	8400 4"H X WIDTH AS REQ'D X B- CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 09

For use on Door #(s):

A109B C109C U109.1A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	DBL CYL STORE LOCK	ND66JD RHO	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	OH STOP	450S	652	GLY
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 10

For use on Door #(s):

ADM123.4B

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	DBL CYL STORE LOCK	ND66JD RHO	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 11

For use on Door #(s):

U105B

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	DBL CYL STORE LOCK	ND66JD RHO	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER (W/ DEAD STOP & HO)	4040XP HCUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B- CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 12

For use on Door #(s):

ADM113B T101G.1 V106C

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	DBL CYL STORE LOCK	ND66JD RHO	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 13

For use on Door #(s):

ADM108.1 B103.8 C108.D U109.1B U109.1C V103C

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	CLASSROOM LOCK	ND70JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	OH STOP	410S	652	GLY
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 14

For use on Door #(s):

B103.6

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	CLASSROOM LOCK	ND70JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	FLOOR STOP	FS439	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 15

For use on Door #(s):

A107.6 A107.7 A110.1 D103B D103C U109.2A
V101.1

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	CLASSROOM LOCK	ND70JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	OH STOP	450S	652	GLY
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 16

For use on Door #(s):

A108.3	ADM104	ADM106.1	ADM108A	ADM114.2	ADM114.3
ADM114.4	ADM114.6	ADM114.8	ADM114.9	ADM114.10	ADM115A
ADM115B	ADM116.2	ADM116.3	ADM116.4	ADM116.5	ADM117
ADM118	ADM121.1	ADM121.2	ADM121.3	ADM121.4A	ADM122
ADM123	ADM1114.1	B103.2	B103.2	B103.4	B103.10
B108.1	C100C	C102C	C107.1	C108.1	R109C
R117	R117C	R121	S106.1	S108.1	T100.1
T100.3	U107.2	U109.2B			

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	CLASSROOM LOCK	ND70JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 17

For use on Door #(s):

R106C

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	CLASSROOM LOCK	ND70JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	SET	SOUND SEAL	328AA-S	AA	ZER
1	EA	AUTO DOOR BOTTOM	364AA	AA	ZER

HARDWARE GROUP NO. 18

For use on Door #(s):

A107.2	A107.4	A107.5	ADM101B	ADM105	ADM107
ADM109	ADM111	ADM112	ADM113A	ADM119A	ADM120
B106A	B106B	C105B	D103.1C	D103D.1	J140.2
J140.3	R102.1	R102.2	T100.2	T100A	T100B
T100C.2	T100D	T100H	T101B.1	T101B.2	T101B.3
T101C.2	U105.1	V102.2	V102.4	V102C	V102D
V104C	V105.1A	V106B	V107.1	V107.2A	V107.2B

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM LOCK	ND70JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 19

For use on Door #(s):

D103.1A	D103.1B
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Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CLASSROOM LOCK	ND70JD RHO	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 20

For use on Door #(s):

R117B	U107.1A
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Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	CONST LATCHING BOLT	FB51T/FB61T (AS REQ'D)	630	IVE
1	EA	CLASSROOM LOCK	ND70JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
2	EA	OH STOP	450S	652	GLY
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 21

For use on Door #(s):

ADM108B B100A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM LOCK	ND70JD RHO	626	SCH
1	EA	SINGLE DUMMY TRIM	ND170 RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 22

For use on Door #(s):

R109B

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	CLASSROOM SECURITY (W/ IS LOCKED IND)	ND78JD RHO IS-CRS	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	OH STOP	410S	652	GLY
1	SET	SOUND SEAL	328AA-S	AA	ZER
1	EA	AUTO DOOR BOTTOM	364AA	AA	ZER

HARDWARE GROUP NO. 23

For use on Door #(s):

D103D D103E Q213A Q214A Q215A Q222A
Q223A Q224A Q225A R106A R106B R111
R115

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	CLASSROOM SECURITY (W/ IS LOCKED IND)	ND78JD RHO IS-CRS	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 24

For use on Door #(s):

ADM106B ADM114

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	CLASSROOM SECURITY (W/ IS LOCKED IND)	ND78JD RHO IS-CRS	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	OH STOP	410S	652	GLY
1	EA	SURFACE CLOSER	4040XP REG ST-1630	689	LCN
1	EA	TOP JAMB MTG PLATE	4040XP-18TJ	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 25

For use on Door #(s):

ADM116 S101A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	CLASSROOM SECURITY (W/ IS LOCKED IND)	ND78JD RHO IS-CRS	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 26

For use on Door #(s):

R109D V100

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	CLASSROOM SECURITY (W/ IS LOCKED IND)	ND78JD RHO IS-CRS	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 27

For use on Door #(s):

A101A	A103	A107.3A	A109A	A121A	B102A
B104	C100A	C102A	C109.1	Q102A	Q103A
Q103A	Q104A	Q105A	Q106A	Q112A	Q113A
Q201	Q202	Q203	Q204	Q205	Q206
Q207	Q208	Q210	Q211	Q212	Q216
Q217	Q218	Q220	Q221	Q226	Q227
R100A	R101A	R103A	R104A	R113	R117A
R119	S100A	S101A	S104A	S105A	S106A
S107A	S108A	U101A	U102A	U104A	U104B
U110	V105A				

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY (W/ IS LOCKED IND)	ND78JD RHO IS-CRS	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 28

For use on Door #(s):

U105A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	AUTO FLUSH BOLT	FB31T/FB41T (AS REQ'D)	630	IVE
1	EA	CLASSROOM SECURITY (W/ IS LOCKED IND)	ND78JD RHO IS-CRS	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	COORDINATOR	COR X FL (MB AS REQ'D)	628	IVE
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 29

For use on Door #(s):

A110B

B103A

C107.3

C107.7

U109.3

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	OH STOP	450S	652	GLY
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 30

For use on Door #(s):

ADM108E

ADM116.6

C109A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 31

For use on Door #(s):

ADM106A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	EU STOREROOM LOCK	ND80EU RHO RX	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER (W/ DEAD STOP)	4040XP CUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	CREDENTIAL READER	BY DIV 28		B/O
1	EA	DOOR CONTACT	BY DIV 28		B/O
1	EA	POWER SUPPLY (CENTRALIZED)	BY DIV 28		B/O

DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER WILL UNLOCK OUTSIDE LEVER, ALLOWING ACCESS. DOOR REMAINS LOCKED WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 32

For use on Door #(s):

ADM100B

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	EU STOREROOM LOCK	ND80EU RHO RX	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER (W/ DEAD STOP)	4040XP CUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	CREDENTIAL READER	BY DIV 28		B/O
1	EA	DOOR CONTACT	BY DIV 28		B/O
1	EA	PUSH BUTTON RELEASE	BY DIV 28		B/O
1	EA	POWER SUPPLY (CENTRALIZED)	BY DIV 28		B/O

DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER, OR REMOTE PUSH BUTTON, WILL UNLOCK OUTSIDE LEVER, ALLOWING ACCESS. DOOR REMAINS LOCKED WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 33

For use on Door #(s):

S109

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	DOOR CORD	788C-12	626	SCE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	EU STOREROOM LOCK	ND80EU RHO RX	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE TRACK CLOSER (W/ STOP)	4040XPT BUMP	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B- CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	CREDENTIAL READER	BY DIV 28		B/O
1	EA	DOOR CONTACT	BY DIV 28		B/O
1	EA	POWER SUPPLY (CENTRALIZED)	BY DIV 28		B/O

DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER WILL UNLOCK OUTSIDE LEVER, ALLOWING ACCESS. DOOR REMAINS LOCKED WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 34

For use on Door #(s):

ADM108D ADM114A ADM1000

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	EU STOREROOM LOCK	ND80EU RHO RX	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B- CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	CREDENTIAL READER	BY DIV 28		B/O
1	EA	DOOR CONTACT	BY DIV 28		B/O
1	EA	POWER SUPPLY (CENTRALIZED)	BY DIV 28		B/O

DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER WILL UNLOCK OUTSIDE LEVER, ALLOWING ACCESS. DOOR REMAINS LOCKED WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 35

For use on Door #(s):

ADM100A Q107C

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	ELEC STRIKE	EXISTING		EXI
1	EA	CREDENTIAL READER	EXISTING		EXI

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 36

For use on Door #(s):

ADM110

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	OH STOP	410S	652	GLY
1	EA	SURFACE CLOSER	4040XP REG ST-1630	689	LCN
1	EA	TOP JAMB MTG PLATE	4040XP-18TJ	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B- CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 37

For use on Door #(s):

ADM114.7 H111.1 H111.2 H112.1 H112.2 R110
R112

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER (W/ DEAD STOP)	4040XP CUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B- CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 38

For use on Door #(s):

ADM108.5 T102.1 R106D

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B- CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 39

For use on Door #(s):

V105.1B

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B- CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 40

For use on Door #(s):

C105A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP REG	689	LCN

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 41

For use on Door #(s):

A101B	A102A	A102B	A103A	A107D	A107E
A107F	A121B	ADM119B	B100B	B100C	B101
B102B	B103B	B103C	B104B	B105	B109A
B110	B110A	C100B	C101	C102B	C103
C105A	C107C	C107D	C108B	C108B	C110
H111	H112	L106.2	Q100	Q102.1	Q102B
Q103B	Q104B	Q105B	Q106B	Q107B	Q108B
Q109A.1	Q109A	Q109B	Q110C	Q111B	Q112B
Q113B	Q115B	Q219A	Q219B	Q228	Q229
Q230	Q231	Q1001	R100C	R101B	R103B
R104C	R105	R106.1	R107.1	R107	R108
S100B	S101B	S102	S104B	S105B	S106C
S107B	S108C	S115	T100B	T100C	T100E
T100F	T101C.1	T101D.1	T101D.2	T101E	T101F.1
T101G.2	T101H	T102B	T114	T1001.1	U101B
U102B	U103	U104.1B	U104D	U105.2	U106.3
U106.4	U107.1C	U111B	V102B	V103B	V103E
V104B	V105.2	V105.3	V106.2		

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 42

For use on Door #(s):

D203A	D203B	D203C	D203D
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Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	AUTO FLUSH BOLT	FB31T/FB41T (AS REQ'D)	630	IVE
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	COORDINATOR	COR X FL (MB AS REQ'D)	628	IVE
2	EA	SURFACE CLOSER (W/ DEAD STOP)	4040XP CUSH	689	LCN
2	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B- CS	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 43

For use on Door #(s):

D103.2A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 44

For use on Door #(s):

A107.3C	B107	B109	D103D.2	Q114C	R114
R116	R118	S101B	ST307.1	T100A	V100.1

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	SINGLE DUMMY TRIM	ND170 RHO	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 45

For use on Door #(s):

A108.1 A108.2

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	STOREROOM W/DEADBOLT W/ OUTSIDE INDICATOR	L9480J 06B L583-363 OS-OCC	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
1	EA	MOP PLATE	8400 4"H X WIDTH AS REQ'D X B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 46

For use on Door #(s):
ADM102

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	INSTITUTION LOCK	ND82BDC RHO	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	ELECTRIC STRIKE	6400 FSE 12/24 VAC/VDC	630	VON
1	EA	SURFACE CLOSER (W/ DEAD STOP)	4040XP CUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	CREDENTIAL READER	BY DIV 28		B/O
1	EA	DOOR CONTACT	BY DIV 28		B/O
1	EA	PUSH BUTTON RELEASE	BY DIV 28		B/O
1	EA	POWER SUPPLY (CENTRALIZED)	BY DIV 28		B/O
1	EA	MOTION SENSOR	XMS	WHT	SEC

SCHOOL SIDE SENSOR CONTROLLED BY ACCESS CONTROL SYSTEM SCHEDULE OR LOCKDOWN SYSTEM.

OFFICE HOURS: SCHOOL SIDE SENSOR ACTIVE ALLOWING FREE ENTRY FROM SCHOOL INTO OFFICE. OFFICE SIDE ALWAYS LOCKED PREVENTING FREE PASSAGE FROM OFFICE INTO THE SCHOOL. PRESENTING VALID CREDENTIAL TO READER ON OFFICE SIDE, OR REMOTE PUSH BUTTON, RELEASES ELECTRIC STRIKE, ACCESS INTO THE SCHOOL. MOTION SENSOR DEACTIVATED AND ELECTRIC STRIKE LOCKED SO THAT DOOR IS SECURE IN BOTH DIRECTIONS WITH ACTIVATION OF SECURITY SYSTEM OR LOSS OF POWER.

AFTER HOURS: MOTION SENSOR DEACTIVATED AND OPENING SECURE IN BOTH DIRECTIONS.

HARDWARE GROUP NO. 47

For use on Door #(s):
U104.1A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	INSTITUTION LOCK	ND82JD RHO	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 48

For use on Door #(s):

A105 U106.1 V103.1

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	FACULTY RESTROOM/HOTEL W/ OUTSIDE INDICATOR	L9485J 06B L583-363 OS-LOC	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B- CS	630	IVE
1	EA	MOP PLATE	8400 4"H X WIDTH AS REQ'D X B- CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 49

For use on Door #(s):

A110C

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-NL 24 VDC	626	VON
1	EA	RIM CYL HOUSING (FSIC)	20-079 ICX	626	SCH
1	EA	PERMANENT CORE, PRIMUS (FSIC)	20-740 EV29 T	626	SCH
1	EA	SURFACE CLOSER (W/ SPRING STOP)	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B- CS	630	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	WEATHERSTRIPPING	429AA-S	AA	ZER
1	EA	DOOR SWEEP, BRUSH W/ DRIP	8198AA	AA	ZER
1	EA	THRESHOLD, 1/2"	655A	A	ZER
1	EA	CREDENTIAL READER	BY DIV 28		B/O
1	EA	DOOR CONTACT	BY DIV 28		B/O
1	EA	POWER SUPPLY (CENTRALIZED)	BY DIV 28		B/O

DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER RETRACTS EXIT DEVICE LATCH, ALLOWING ACCESS. EXIT DEVICE LATCH ALSO CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICE LATCHES AND LOCKS WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 50

For use on Door #(s):

Q107A	Q110A	Q111A	Q114A	Q115A	U111A
V101A	V103D				

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	PANIC HARDWARE	CDSI-99-L-NL-06	626	VON
1	EA	RIM CYL HOUSING (FSIC)	20-079	626	SCH
1	EA	MORTISE CYL HOUSING (FSIC)	26-094 XQ11-948	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS45/WS45X	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 51

For use on Door #(s):

D103.2	D103.3	D103.4	D103.5	D103.6	D103.7
D103.12	D103.8	D103.13	D103.9	D103.15	D103.16
D103.17					

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	PANIC HARDWARE	CD-99-DT	626	VON
1	EA	MORTISE CYL HOUSING (FSIC)	26-094 XQ11-948	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER (W/ DEAD STOP & HO)	4040XP HCUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 52

For use on Door #(s):

D103.1 D103.14 D103.10

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	PANIC HARDWARE	CD-99-NL	626	VON
1	EA	RIM CYL HOUSING (FSIC)	20-079	626	SCH
1	EA	MORTISE CYL HOUSING (FSIC)	26-094 XQ11-948	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER (W/ DEAD STOP & HO)	4040XP HCUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 53

For use on Door #(s):

A108A A108B A110A C108.C C108A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	PANIC HARDWARE	CDSI-99-L-NL-06	626	VON
1	EA	RIM CYL HOUSING (FSIC)	20-079	626	SCH
1	EA	MORTISE CYL HOUSING (FSIC)	26-094 XQ11-948	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	SURFACE CLOSER (W/ DEAD STOP & HO)	4040XP HCUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 54

For use on Door #(s):

B108A	B108B	C107A	C107B	Q110B	Q111C
Q114B	Q115C	U109A	V102A	V104A	V106A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CDSI-99-L-NL-06	626	VON
1	EA	RIM CYL HOUSING (FSIC)	20-079	626	SCH
1	EA	MORTISE CYL HOUSING (FSIC)	26-094 XQ11-948	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	ANSI STRIKE FILLER			
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS45/WS45X	626	IVE

BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

HARDWARE GROUP NO. 55

For use on Door #(s):

U111B

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	PANIC HARDWARE	LD-99-NL	626	VON
1	EA	RIM CYL HOUSING (FSIC)	20-079 ICX	626	SCH
1	EA	PERMANENT CORE, PRIMUS (FSIC)	20-740 EV29 T	626	SCH
1	EA	SURFACE CLOSER (W/ SPRING STOP)	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	WEATHERSTRIPPING	429AA-S	AA	ZER
1	EA	DOOR SWEEP, BRUSH W/ DRIP	8198AA	AA	ZER
1	EA	THRESHOLD, 1/2"	655A	A	ZER
1	EA	DOOR CONTACT	BY DIV 28		B/O

HARDWARE GROUP NO. 56

For use on Door #(s):
A1000D

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY EPT	628	IVE
2	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
2	EA	ELEC PANIC HARDWARE	RX-QEL-99-DT 24 VDC	626	VON
1	EA	MORTISE CYL HOUSING (FSIC)	26-094	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
2	EA	SURFACE CLOSER (W/ SPRING STOP)	4040XP SCUSH	689	LCN
2	EA	MOUNTING PLATE	4040XP-18PA	689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30	689	LCN
2	EA	BLADE STOP SPACER	4040XP-61	689	LCN
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
2	EA	DOOR CONTACT	BY DIV 28		B/O
1	EA	POWER SUPPLY (CENTRALIZED)	BY DIV 28		B/O

VERIFY/COORDINATE PREPS ON EXISTING FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

EXIT DEVICE(S) CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICE(S) LATCH AND LOCK WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 57

For use on Door #(s):

A1000C

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY EPT	628	IVE
2	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	ELEC PANIC HARDWARE	LX-RX-QEL-99-NL 24 VDC	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-DT 24 VDC	626	VON
1	EA	RIM CYL HOUSING (FSIC)	20-079 ICX	626	SCH
1	EA	MORTISE CYL HOUSING (FSIC)	26-094	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	OH STOP	90S	630	GLY
			(@ AO LEAF)		
1	EA	SURFACE CLOSER (W/ SPRING STOP)	4040XP SCUSH	689	LCN
1	EA	SURF. AUTO OPERATOR	4642 WMS 120 VAC	689	LCN
			(RHR LEAF, FLUSH CEILING MOUNT)		
1	EA	MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30	689	LCN
1	EA	BLADE STOP SPACER	4040XP-61	689	LCN
2	EA	ACTUATOR	8310-818T	630	LCN
			(RHR LEAF, EACH SIDE, VERIFY EXACT LOCATION)		
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
1	EA	CREDENTIAL READER	BY DIV 28		B/O
2	EA	DOOR CONTACT	BY DIV 28		B/O
1	EA	POWER SUPPLY (CENTRALIZED)	BY DIV 28		B/O

VERIFY/COORDINATE PREPS ON EXISTING FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

DOOR(S) NORMALLY CLOSED AND LOCKED AND EXTERIOR ACTUATOR DISABLED. PRESENTING VALID CREDENTIAL TO READER RETRACTS EXIT DEVICE LATCH AND ENABLES EXTERIOR ACTUATOR. PUSHING ENABLED EXTERIOR ACTUATOR SIGNALS AUTOMATIC OPERATOR TO OPEN DOOR. INTERIOR ACTUATOR ENABLED AT ALL TIMES. PUSHING INTERIOR ACTUATOR RETRACTS LATCH AND SIGNALS AUTOMATIC OPERATOR TO OPEN DOOR. EXIT DEVICE LATCH ALSO CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICE LATCHES AND LOCKS WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 58

For use on Door #(s):

A1000B

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY EPT	628	IVE
2	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	ELEC PANIC HARDWARE	LX-RX-QEL-99-NL 24 VDC	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-DT 24 VDC	626	VON
1	EA	RIM CYL HOUSING (FSIC)	20-079 ICX	626	SCH
1	EA	MORTISE CYL HOUSING (FSIC)	26-094	626	SCH
1	EA	PERMANENT CORE, PRIMUS (FSIC)	20-740 EV29 T (EXTERIOR)	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T (INTERIOR MULLION)	626	SCH
1	EA	OH STOP	90S (@ AO LEAF)	630	GLY
1	EA	SURFACE CLOSER (W/ SPRING STOP)	4040XP SCUSH	689	LCN
1	EA	SURF. AUTO OPERATOR	4642 WMS 120 VAC (RHR LEAF, FLUSH CEILING MOUNT)	689	LCN
1	EA	MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30	689	LCN
1	EA	BLADE STOP SPACER	4040XP-61	689	LCN
1	EA	WEATHER RING	8310-801		LCN
1	EA	ACTUATOR	8310-818T (VESITBULE, RHR LEAF, VERIFY EXACT LOCATION)	630	LCN
1	EA	ACTUATOR	8310-853T (EXTERIOR, BOLLARD MOUNT)	630	LCN
1	EA	BOLLARD POST	8310-866 (EXTERIOR, AT LHR SIDE, VERIFY EXACT LOCATION)		LCN
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
1	EA	WEATHERSTRIPPING	BY DOOR/FRAME MANUFACTURER		B/O
2	EA	DOOR SWEEP, BRUSH W/ DRIP	8198AA	AA	ZER
1	EA	THRESHOLD, 1/2"	655A	A	ZER
1	EA	CREDENTIAL READER	BY DIV 28		B/O
2	EA	DOOR CONTACT	BY DIV 28		B/O
1	EA	POWER SUPPLY (CENTRALIZED)	BY DIV 28		B/O

VERIFY/COORDINATE PREPS ON EXISTING FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

DOOR(S) NORMALLY CLOSED AND LOCKED AND EXTERIOR ACTUATOR DISABLED. PRESENTING VALID CREDENTIAL TO READER RETRACTS EXIT DEVICE LATCH AND ENABLES EXTERIOR ACTUATOR. PUSHING ENABLED EXTERIOR ACTUATOR SIGNALS AUTOMATIC OPERATOR TO OPEN DOOR. INTERIOR ACTUATOR ENABLED AT ALL TIMES. PUSHING INTERIOR ACTUATOR RETRACTS LATCH AND SIGNALS AUTOMATIC OPERATOR TO OPEN DOOR. EXIT DEVICE LATCH ALSO CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICE LATCHES AND LOCKS WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 59

For use on Door #(s):
A1000A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY EPT	628	IVE
2	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
2	EA	ELEC PANIC HARDWARE	RX-QEL-99-DT 24 VDC	626	VON
1	EA	MORTISE CYL HOUSING (FSIC)	26-094	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
2	EA	SURFACE CLOSER (W/ SPRING STOP)	4040XP SCUSH	689	LCN
2	EA	MOUNTING PLATE	4040XP-18PA	689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30	689	LCN
2	EA	BLADE STOP SPACER	4040XP-61	689	LCN
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
1	EA	WEATHERSTRIPPING	BY DOOR/FRAME MANUFACTURER		B/O
2	EA	DOOR SWEEP, BRUSH W/ DRIP	8198AA	AA	ZER
1	EA	THRESHOLD, 1/2"	655A	A	ZER
2	EA	DOOR CONTACT	BY DIV 28		B/O
1	EA	POWER SUPPLY (CENTRALIZED)	BY DIV 28		B/O

VERIFY/COORDINATE PREPS ON EXISTING FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

EXIT DEVICE(S) CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICE(S) LATCH AND LOCK WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 60

For use on Door #(s):

V101.4

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	RIM CYL HOUSING (FSIC)	20-079 ICX	626	SCH
1	EA	MORTISE CYL HOUSING (FSIC)	26-094 X APPROPRIATE CAM & COLLAR	626	SCH
1	EA	PERMANENT CORE, PRIMUS (FSIC)	20-740 EV29 T	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
1	EA	CREDENTIAL READER	EXISTING		EXI

VERIFY EXACT CYLINDER TYPES REQUIRED. BALANCE OF HARDWARE EXISTING TO REMAIN.

HARDWARE GROUP NO. 61

For use on Door #(s):

D103.11 D103.18

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	PANIC HARDWARE	CD-9949-DT	626	VON
1	EA	PANIC HARDWARE	CD-9949-NL	626	VON
1	EA	RIM CYL HOUSING (FSIC)	20-079	626	SCH
2	EA	MORTISE CYL HOUSING (FSIC)	26-094 XQ11-948	626	SCH
3	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
2	EA	SURFACE CLOSER (W/ DEAD STOP & HO)	4040XP HCUSH	689	LCN
2	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 62

For use on Door #(s):

U1001.1

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY	628	IVE
1	EA	PANIC HARDWARE	CD-9950WDC-DT-LBL-SNB	626	VON
1	EA	PANIC HARDWARE	CD-9950WDC-NL-LBL-SNB	626	VON
1	EA	RIM CYL HOUSING (FSIC)	20-079	626	SCH
2	EA	MORTISE CYL HOUSING (FSIC)	26-094 XQ11-948	626	SCH
3	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
2	EA	SURFACE CLOSER (W/ DEAD STOP & HO)	4040XP HCUSH	689	LCN
2	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 63

For use on Door #(s):

U107

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	PANIC HARDWARE	CDSI-9950WDC-L-DT-06-LBL-SNB	626	VON
1	EA	PANIC HARDWARE	CDSI-9950WDC-L-NL-06-LBL-SNB	626	VON
1	EA	RIM CYL HOUSING (FSIC)	20-079	626	SCH
2	EA	MORTISE CYL HOUSING (FSIC)	26-094 XQ11-948	626	SCH
3	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
2	EA	SURFACE CLOSER (W/ DEAD STOP & HO)	4040XP HCUSH	689	LCN
2	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D X B-CS	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 64

For use on Door #(s):

V101.3

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
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NO NEW HDW REQUIRED.

HARDWARE GROUP NO. 65

For use on Door #(s):

D101 G109 G114.1 G121 S114 T103
T106

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYL HOUSING (FSIC)	26-094 X APPROPRIATE CAM & COLLAR	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

VERIFY EXACT CYLINDER TYPE REQUIRED. BALANCE OF HARDWARE EXISTING TO REMAIN.

HARDWARE GROUP NO. 66

For use on Door #(s):

G114.2 T108 T109

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	RIM CYL HOUSING (FSIC)	20-079	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

VERIFY EXACT CYLINDER TYPE REQUIRED. BALANCE OF HARDWARE EXISTING TO REMAIN.

HARDWARE GROUP NO. 67

For use on Door #(s):

A107A A107B Q2000.1 T1001.2 V103A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	MORTISE CYL HOUSING (FSIC)	26-094 X APPROPRIATE CAM & COLLAR	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

VERIFY EXACT CYLINDER TYPE REQUIRED. BALANCE OF HARDWARE EXISTING TO REMAIN.

HARDWARE GROUP NO. 68

For use on Door #(s):

C1000.1	R1000.1	R1000.2	R1001.1	S1000.1	S1000.2
U1000.1	U1000.2	V1000.1			

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	DOOR CORD	788C-18 *** ALT 2 ***	626	SCE
2	EA	ELEC LATCH RETRACTION KIT	M56A *** ALT 2 ***		SAR
2	EA	MORTISE CYL HOUSING (FSIC)	26-094 X APPROPRIATE CAM & COLLAR	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
2	EA	ELEC WALL MAG HOLDER	SEM SERIES AS REQ (VERIFY PROJECTION AND EXTENSIONS AS NEEDED) *** ALT 1 & 2 ***	689	LCN
1	EA	CREDENTIAL READER	BY DIV 28 *** ALT 2 ***		B/O
1	EA	POWER SUPPLY (CENTRALIZED)	BY DIV 28 *** ALT 2 ***		B/O

VERIFY EXACT CYLINDER TYPE REQUIRED. BALANCE OF HARDWARE EXISTING TO REMAIN. VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO ACCEPT NEW SPECIFIED HARDWARE.

BASE BID: NEW CYLINDERS/CORES ONLY

ALT ADD 1: ADD ELEC HOLD OPENS - VERIFY EXACT TYPE REQUIRED FOR EXISTING APPLICATION

ALT ADD 2: ADD ELEC HOLD OPENS AND ELECTRIFY EXISTING PANIC DEVICES FOR NEW CR.

HARDWARE GROUP NO. 69

For use on Door #(s):

T1000.1

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	DOOR CORD	788C-18 *** ALT 2 ***	626	SCE
1	EA	ELEC PANIC HARDWARE	QEL-99-DT 24 VDC *** ALT 2 ***	626	VON
1	EA	ELEC PANIC HARDWARE	QEL-99-NL 24 VDC *** ALT 2 ***	626	VON
2	EA	RIM CYL HOUSING (FSIC)	20-079	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
2	EA	ELEC WALL MAG HOLDER	SEM SERIES AS REQ (VERIFY PROJECTION AND EXTENSIONS AS NEEDED) *** ALT 1 & 2 ***	689	LCN
1	EA	CREDENTIAL READER	BY DIV 28 *** ALT 2 ***		B/O
1	EA	POWER SUPPLY (CENTRALIZED)	BY DIV 28 *** ALT 2 ***		B/O

VERIFY EXACT CYLINDER TYPE REQUIRED. BALANCE OF HARDWARE EXISTING TO REMAIN.
VERIFY/COORDINATE PREPS ON EXISTING DOORS AND FRAMES. PROVIDE FIELD
MODIFICATIONS AND/OR FILLERS TO EXISTING DOORS AND FRAMES AS NECESSARY TO
ACCEPT NEW SPECIFIED HARDWARE.

BASE BID: NEW CYLINDERS/CORES ONLY

ALT ADD 1: ADD ELEC HOLD OPENS - VERIFY EXACT TYPE REQUIRED FOR EXISITNG
APPLICATION

ALT ADD 2: ADD ELEC HOLD OPENS AND ELECTRIFY EXISTING PANIC DEVICES FOR NEW CR.

HARDWARE GROUP NO. 70

For use on Door #(s):

U1001A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	MORTISE CYL HOUSING (FSIC)	26-094 X APPROPRIATE CAM & COLLAR	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH
2	EA	DOOR CONTACT	BY DIV 28		B/O

VERIFY EXACT CYLINDER TYPE REQUIRED. BALANCE OF HARDWARE EXISTING TO REMAIN.

HARDWARE GROUP NO. 71

For use on Door #(s):

T107.1 T107.2

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	RIM CYL HOUSING (FSIC)	20-079	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

VERIFY EXACT CYLINDER TYPE REQUIRED. BALANCE OF HARDWARE EXISTING TO REMAIN.

HARDWARE GROUP NO. 72

For use on Door #(s):

A104	A106	A107C	B103A	B103D	D101A
D106.1	D106A	G100.1	G100.2	G112.1	G112.2
G112.3	G114A	G115.1	G115.2	G116	G117A
G120	G121.1	G121.2	G125.1	G125.2	G122
S112	S113	T102A	T102.2	T104	T105
T107.3	T110	T111	T112.1	T112.2	T113
T115.1	T115.2	T115.3	T115.4	T115.5	T116
T116A	T116B	T117	T117B		

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYL HOUSING (FSIC)	26-094 X APPROPRIATE CAM & COLLAR	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

VERIFY EXACT CYLINDER TYPE REQUIRED. BALANCE OF HARDWARE EXISTING TO REMAIN.

HARDWARE GROUP NO. 73

For use on Door #(s):

U107.1B U109B V101B V102.3 V102E V104D
V106D

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	RIM CYL HOUSING (FSIC)	20-079 ICX	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

VERIFY EXACT CYLINDER TYPE REQUIRED. BALANCE OF HARDWARE EXISTING TO REMAIN.

HARDWARE GROUP NO. 74

For use on Door #(s):

G100.3 K100A T100C.1 T101B.5

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	MORTISE CYL HOUSING (FSIC)	26-094 X APPROPRIATE CAM & COLLAR	626	SCH
2	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

VERIFY EXACT CYLINDER TYPE REQUIRED. BALANCE OF HARDWARE EXISTING TO REMAIN.

HARDWARE GROUP NO. 75

For use on Door #(s):

U109.2C

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYL HOUSING (FSIC)	26-094	626	SCH
1	EA	PERMANENT CORE (FSIC)	23-030 EV29 T	626	SCH

VERIFY EXACT CYLINDER TYPE REQUIRED. BALANCE OF HARDWARE BY DOOR MANUFACTURER.

HARDWARE GROUP NO. 76

For use on Door #(s):

D106B D106C U107.1D

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
-----	--	-------------	----------------	--------	-----

NO NEW HDW REQUIRED.

END OF SECTION

Whiteland Phase 4

<u>DOOR#</u>	<u>HS#</u>	<u>INFORMATION</u>
A101A	27	
A101B	41	
A102A	41	
A102B	41	
A103	27	
A103A	41	
A104	72	
A105	48	
A106	72	
A107.2	18	
A107.3A	27	
A107.3C	44	
A107.4	18	
A107.5	18	
A107.6	15	
A107.7	15	
A107A	67	
A107B	67	
A107C	72	
A107D	41	
A107E	41	
A107F	41	
A108.1	45	
A108.2	45	
A108.3	16	
A108A	53	
A108B	53	
A109A	27	
A109B	09	
A110.1	15	
A110.2	08	
A110A	53	
A110B	29	
A110C	49	CR
A121A	27	
A121B	41	
A1000A	59	CONTROLLED
A1000B	58	CR, AO
A1000C	57	CR, AO,
A1000D	56	CONTROLLED,
ADM100A	35	EX CR
ADM100B	32	CR, PBR
ADM101B	18	
ADM102	46	CR, PBR, SENSOR
ADM104	16	
ADM105	18	

<u>DOOR#</u>	<u>HS#</u>	<u>INFORMATION</u>
ADM106.1	16	
ADM106.2	07	
ADM106.3	07	
ADM106A	31	CR
ADM106B	24	
ADM107	18	
ADM108.1	13	
ADM108.2	08	
ADM108.3	08	
ADM108.4	08	
ADM108.5	38	
ADM108A	16	
ADM108B	21	
ADM108D	34	CR
ADM108E	30	
ADM109	18	
ADM110	36	
ADM111	18	
ADM112	18	
ADM113A	18	
ADM113B	12	
ADM114	24	
ADM114.2	16	
ADM114.3	16	
ADM114.4	16	
ADM114.6	16	
ADM114.7	37	
ADM114.8	16	
ADM114.9	16	
ADM114.10	16	
ADM114A	34	CR
ADM115A	16	
ADM115B	16	
ADM116	25	
ADM116.2	16	
ADM116.3	16	
ADM116.4	16	
ADM116.5	16	
ADM116.6	30	
ADM117	16	
ADM118	16	
ADM119A	18	
ADM119B	41	
ADM120	18	
ADM121.1	16	
ADM121.2	16	

Whiteland Phase 4

<u>DOOR#</u>	<u>HS#</u>	<u>INFORMATION</u>
ADM121.3	16	
ADM121.4A	16	
ADM122	16	
ADM123	16	
ADM123.4B	10	
ADM1000	34	CR
ADM1114.1	16	
B100A	21	
B100B	41	
B100C	41	
B101	41	
B102A	27	
B102B	41	
B103.1	08	
B103.1B	01	
B103.2	16	
B103.2	16	
B103.3	07	
B103.4	08	
B103.4	16	
B103.6	14	
B103.8	13	
B103.10	16	
B103A	72	
B103A	29	
B103B	41	
B103C	41	
B103D	72	
B104	27	
B104.1B	01	
B104.2	02	
B104.7	02	
B104.8A	01	
B104.8B	01	
B104.8C	01	
B104.8D	01	
B104B	41	
B105	41	
B106A	18	
B106B	18	
B107	44	
B108.1	16	
B108A	54	
B108B	54	
B109	44	
B109A	41	

<u>DOOR#</u>	<u>HS#</u>	<u>INFORMATION</u>
B110	41	
B110A	41	
C100A	27	
C100B	41	
C100C	16	
C101	41	
C102A	27	
C102B	41	
C102C	16	
C103	41	
C104	04	
C105A	41	
C105A	40	
C105B	18	
C106	04	
C107.1	16	
C107.3	29	
C107.7	29	
C107.9	01	
C107A	54	
C107B	54	
C107C	41	
C107D	41	
C108.1	16	
C108.C	53	
C108.D	13	
C108A	53	
C108B	41	
C108B	41	
C109.1	27	
C109A	30	
C109C	09	
C110	41	
C1000.1	68	ALT ADD 1 (ELEC HO), ALT ADD 2 (ELEC HO & CR)
D101	65	
D101A	72	
D103.1	52	
D103.1A	19	
D103.1B	19	
D103.1C	18	
D103.2	51	
D103.2A	43	
D103.3	51	
D103.4	51	

Whiteland Phase 4

<u>DOOR#</u>	<u>HS#</u>	<u>INFORMATION</u>
D103.5	51	
D103.6	51	
D103.7	51	
D103.8	51	
D103.9	51	
D103.10	52	
D103.11	61	
D103.12	51	
D103.13	51	
D103.14	52	
D103.15	51	
D103.16	51	
D103.17	51	
D103.18	61	
D103B	15	
D103C	15	
D103D	23	
D103D.1	18	
D103D.2	44	
D103E	23	
D106.1	72	
D106A	72	
D106B	76	
D106C	76	
D203A	42	
D203B	42	
D203C	42	
D203D	42	
G100.1	72	
G100.2	72	
G100.3	74	
G109	65	
G112.1	72	
G112.2	72	
G112.3	72	
G114.1	65	
G114.2	66	
G114A	72	
G115.1	72	
G115.2	72	
G116	72	
G117A	72	
G120	72	
G121	65	
G121.1	72	
G121.2	72	

<u>DOOR#</u>	<u>HS#</u>	<u>INFORMATION</u>
G122	72	
G125.1	72	
G125.2	72	
H111	41	
H111.1	37	
H111.2	37	
H112	41	
H112.1	37	
H112.2	37	
J140.2	18	
J140.3	18	
K100A	74	
K100E	03	
K102A	04	
K102B	03	
L106.2	41	
Q100	41	
Q102.1	41	
Q102A	27	
Q102B	41	
Q103A	27	
Q103A	27	
Q103B	41	
Q104A	27	
Q104B	41	
Q105A	27	
Q105B	41	
Q106A	27	
Q106B	41	
Q107A	50	
Q107B	41	
Q107C	35	EX CR
Q108B	41	
Q109A	41	
Q109A.1	41	
Q109B	41	
Q110A	50	
Q110B	54	
Q110C	41	
Q111A	50	
Q111B	41	
Q111C	54	
Q112A	27	
Q112B	41	
Q113A	27	
Q113B	41	

Whiteland Phase 4

<u>DOOR#</u>	<u>HS#</u>	<u>INFORMATION</u>
Q114A	50	
Q114B	54	
Q114C	44	
Q115A	50	
Q115B	41	
Q115C	54	
Q201	27	
Q202	27	
Q203	27	
Q204	27	
Q205	27	
Q206	27	
Q207	27	
Q208	27	
Q210	27	
Q211	27	
Q212	27	
Q213A	23	
Q214A	23	
Q215A	23	
Q216	27	
Q217	27	
Q218	27	
Q219A	41	
Q219B	41	
Q220	27	
Q221	27	
Q222A	23	
Q223A	23	
Q224A	23	
Q225A	23	
Q226	27	
Q227	27	
Q228	41	
Q229	41	
Q230	41	
Q231	41	
Q1001	41	
Q2000.1	67	
R100A	27	
R100C	41	
R101A	27	
R101B	41	
R101C	01	
R102.1	18	
R102.2	18	

<u>DOOR#</u>	<u>HS#</u>	<u>INFORMATION</u>
R103A	27	
R103B	41	
R103C	01	
R104A	27	
R104C	41	
R105	41	
R106.1	41	
R106A	23	
R106B	23	
R106C	17	SOUND SEAL
R106D	38	
R107	41	
R107.1	41	
R108	41	
R109B	22	SOUND SEAL
R109C	16	
R109D	26	
R110	37	
R111	23	
R112	37	
R113	27	
R114	44	
R115	23	
R116	44	
R117	16	
R117A	27	
R117B	20	
R117C	16	
R118	44	
R119	27	
R121	16	
R1000.1	68	ALT ADD 1 (ELEC HO), ALT ADD 2 (ELEC HO & CR)
R1000.2	68	ALT ADD 1 (ELEC HO), ALT ADD 2 (ELEC HO & CR)
R1001.1	68	ALT ADD 1 (ELEC HO), ALT ADD 2 (ELEC HO & CR)
S100.1	07	
S100A	27	
S100B	41	
S101A	27	
S101A	25	
S101B	41	
S101B	44	

Whiteland Phase 4

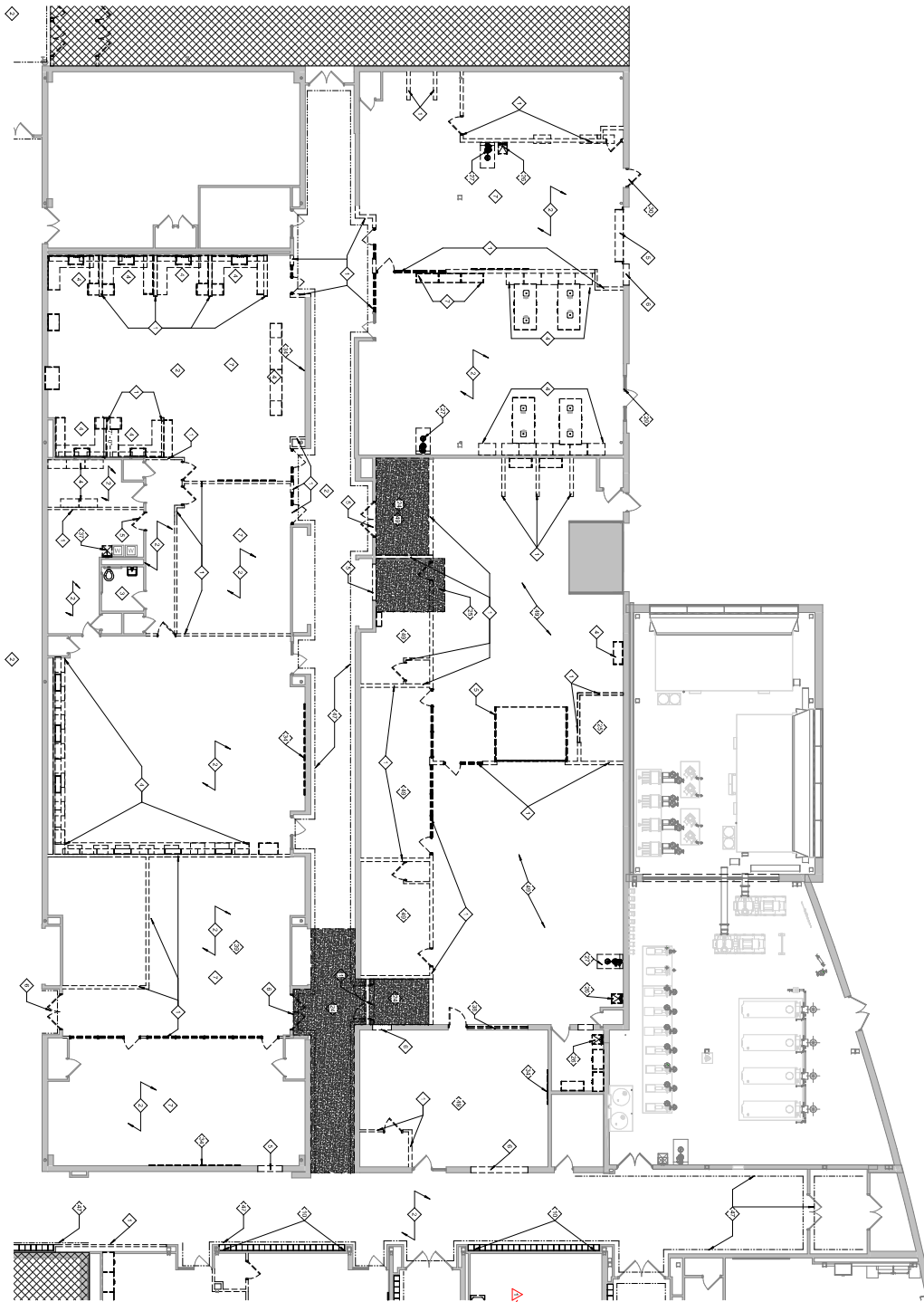
<u>DOOR#</u>	<u>HS#</u>	<u>INFORMATION</u>
S102	41	
S104.1	07	
S104A	27	
S104B	41	
S105A	27	
S105B	41	
S106.1	16	
S106A	27	
S106C	41	
S107A	27	
S107B	41	
S108.1	16	
S108A	27	
S108C	41	
S109	33	CR
S112	72	
S113	72	
S114	65	
S115	41	
S1000.1	68	ALT ADD 1 (ELEC HO), ALT ADD 2 (ELEC HO & CR)
S1000.2	68	ALT ADD 1 (ELEC HO), ALT ADD 2 (ELEC HO & CR)
ST307.1	44	
T100.1	16	
T100.2	18	
T100.3	16	
T100A	44	
T100A	18	
T100B	41	
T100B	18	
T100B.6	05	
T100C	41	
T100C.1	74	
T100C.2	18	
T100D	18	
T100E	41	
T100F	41	
T100G	06	
T100H	18	
T101B.1	18	
T101B.2	18	
T101B.3	18	
T101B.5	74	
T101C.1	41	

<u>DOOR#</u>	<u>HS#</u>	<u>INFORMATION</u>
T101C.2	18	
T101D.1	41	
T101D.2	41	
T101E	41	
T101F.1	41	
T101G.1	12	
T101G.2	41	
T101H	41	
T102.1	38	
T102.2	72	
T102A	72	
T102B	41	
T103	65	
T104	72	
T105	72	
T106	65	
T107.1	71	
T107.2	71	
T107.3	72	
T108	66	
T109	66	
T110	72	
T111	72	
T112.1	72	
T112.2	72	
T113	72	
T114	41	
T115.1	72	
T115.2	72	
T115.3	72	
T115.4	72	
T115.5	72	
T116	72	
T116A	72	
T116B	72	
T117	72	
T117B	72	
T1000.1	69	ALT ADD 1 (ELEC HO), ALT ADD 2 (ELEC HO & CR)
T1001.1	41	
T1001.2	67	
U101A	27	
U101B	41	
U102A	27	
U102B	41	

Whiteland Phase 4

<u>DOOR#</u>	<u>HS#</u>	<u>INFORMATION</u>
U103	41	
U104.1A	47	
U104.1B	41	
U104A	27	
U104B	27	
U104D	41	
U105.1	18	
U105.2	41	
U105A	28	
U105B	11	
U106.1	48	
U106.3	41	
U106.4	41	
U106C	01	
U107	63	
U107.1A	20	
U107.1B	73	
U107.1C	41	
U107.1D	76	
U107.2	16	
U108B	01	
U109.1A	09	
U109.1B	13	
U109.1C	13	
U109.2A	15	
U109.2B	16	
U109.2C	75	
U109.3	29	
U109A	54	
U109B	73	
U110	27	
U111A	50	
U111B	55	
U111B	41	
U1000.1	68	ALT ADD 1 (ELEC HO), ALT ADD 2 (ELEC HO & CR)
U1000.2	68	ALT ADD 1 (ELEC HO), ALT ADD 2 (ELEC HO & CR)
U1001.1	62	
U1001A	70	DPS ONLY
V100	26	
V100.1	44	
V101.1	15	
V101.3	64	
V101.4	60	EX CR

<u>DOOR#</u>	<u>HS#</u>	<u>INFORMATION</u>
V101A	50	
V101B	73	EX CR
V102.2	18	
V102.3	73	
V102.4	18	
V102A	54	
V102B	41	
V102C	18	
V102D	18	
V102E	73	
V103.1	48	
V103A	67	
V103B	41	
V103C	13	
V103D	50	
V103E	41	
V104A	54	
V104B	41	
V104C	18	
V104D	73	
V105.1A	18	
V105.1B	39	
V105.2	41	
V105.3	41	
V105A	27	
V106.2	41	
V106A	54	
V106B	18	
V106C	12	
V106D	73	
V107.1	18	
V107.2A	18	
V107.2B	18	
V1000.1	68	ALT ADD 1 (ELEC HO), ALT ADD 2 (ELEC HO & CR)



1 DEMOLITION PLAN - FIRST FLOOR - UNIT A1
SCALE: 1/8" = 1'-0"

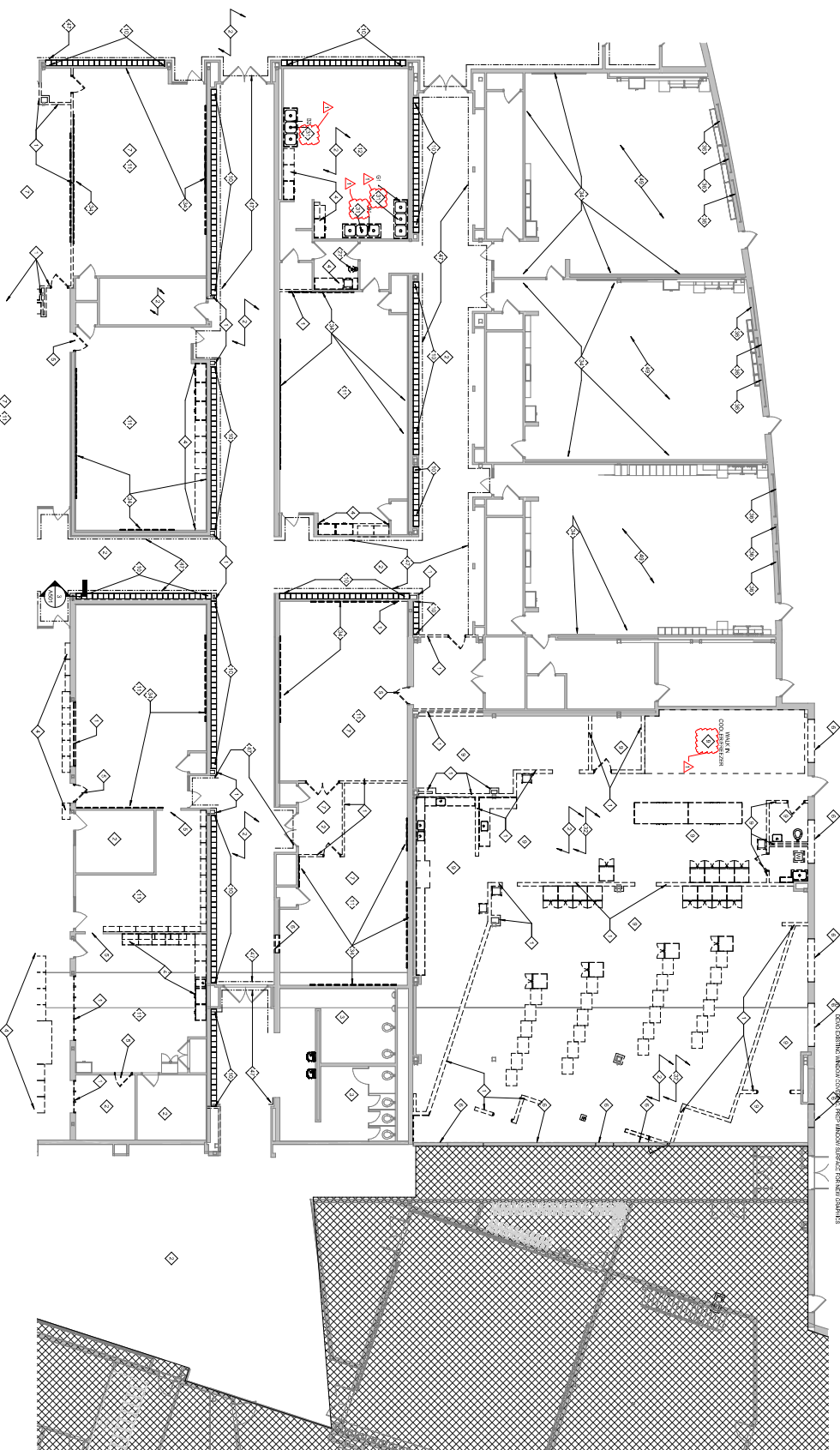
1. COORDINATE DEMOLITION WORK WITH NEW WORK.
2. CLEAN AND FRESH SURFACES FOR NEW WORK.
3. COORDINATE DEMOLITION WORK WITH MEET WORK.
4. OWNERS SHALL HAVE FIRST RIGHT OF REFUSAL OF ANY DEMOLISHED DOORS, CASEWORK, HANGERS/BOARDS, CHAIRS/BOARDS, ETC.
5. PATCH ANY DAMAGE DONE FROM THE REMOVAL OF EXISTING MEET EQUIPMENT.

 NOT IN SCOPE OF WORK

[illegible]

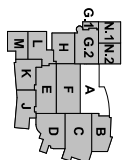
LANCER ASSOCIATES
ARCHITECTURE

145 N. EAST STREET
INDIANAPOLIS, IN 46204



- [illegible]

- GENERAL NOTES: DEMO**
1. LOCATE AND DEMO THE WORK WITH THE WORK.
 2. USE A NOT PREPARED FOR THE WORK.
 3. LOCATE THE DEMO THE WORK WITH THE WORK.
 4. OTHERS SHALL HAVE THE RIGHT TO DEMO THE WORK WITH THE WORK.
 5. DEMO THE WORK FROM THE DEMO OF DEMO THE WORK.
- NOT IN SCOPE OF WORK**
- 



AD101A.2

PROJECT: #221130
DATE: 10/06/2025
DRAWN BY: Author

DEMOLITION
PLAN - FIRST
FLOOR - UNIT
A2

REVISIONS:	
#	Date
1	10/23/2025

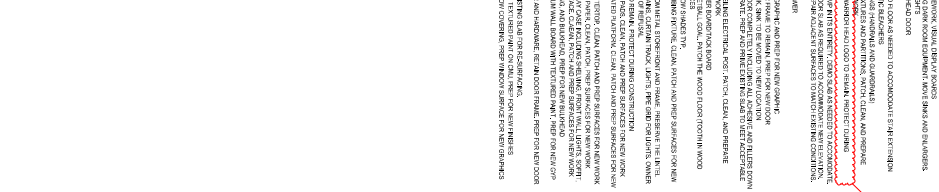


CLARK-PLEASANT COMMUNITY SCHOOL CORP.
 WHITELAND COMM. HIGH SCHOOL PHASE 4
 300 E MAIN ST, WHITELAND, IN 46184

LANCER ASSOCIATES
ARCHITECTURE

145 N EAST STREET
INDIANAPOLIS, IN 46204

N.1	N.2	A	B
G.1	G.2		



- NCER ASSOCIATES**
ARCHITECTURE
- 145 N EAST STREET
INDIANAPOLIS, IN 46204

 NOT IN SCOPE OF WORK

**ASSOCIATES
ARCHITECTURE**
145 N EAST STREET
INDIANAPOLIS, IN 46204

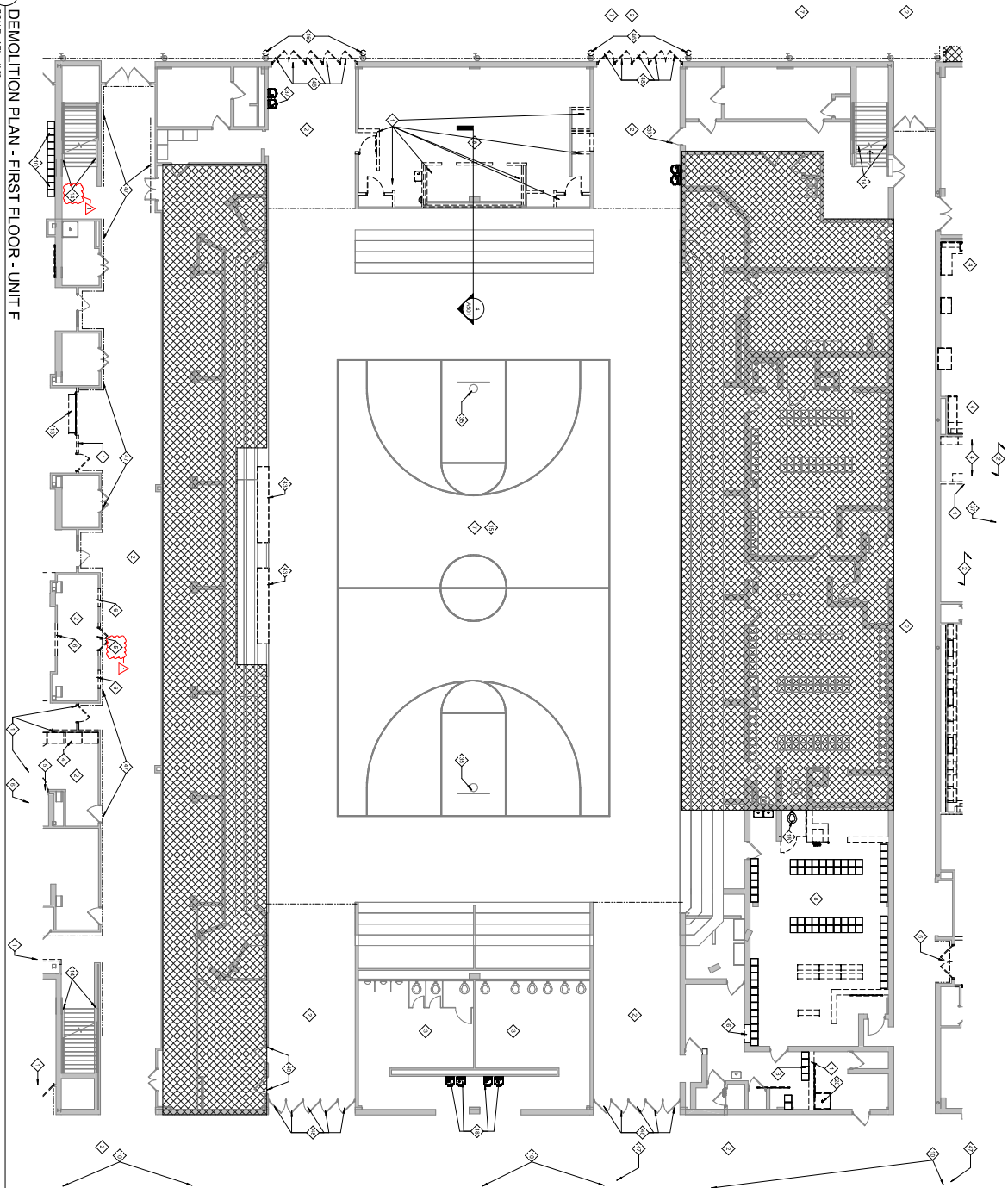
DOCUMENTS

PROJECT:	22118
DATE:	10/06/2005
DRAWN BY:	ANNE

DEMOLITION
PLAN - FIRST
FLOOR - UNIT D

AD101D

1 DEMOLITION PLAN - FIRST FLOOR - UNIT F
SCALE: 1/8" = 1'-0"

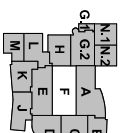


GENERAL NOTES: DEMO

1. COORDINATE DEMOLITION WORK WITH NEW WORK.
2. CLEAN AND PREP SURFACES FOR NEW WORK.
3. COORDINATE DEMOLITION WORK WITH MEET WORK.
4. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ANY DEMOLISHED DOORS, CASEWORK, MIRROR/DRAWERS, CHILDSHOOTS, ETC.
5. PATCH ANY DAMAGE DONE FROM THE REMOVAL OF EXISTING MEET EQUIPMENT.
- NOT IN SCOPE OF WORK**

◇ PLAN NOTES - DEMOLITION

- [illegible]



AD101F

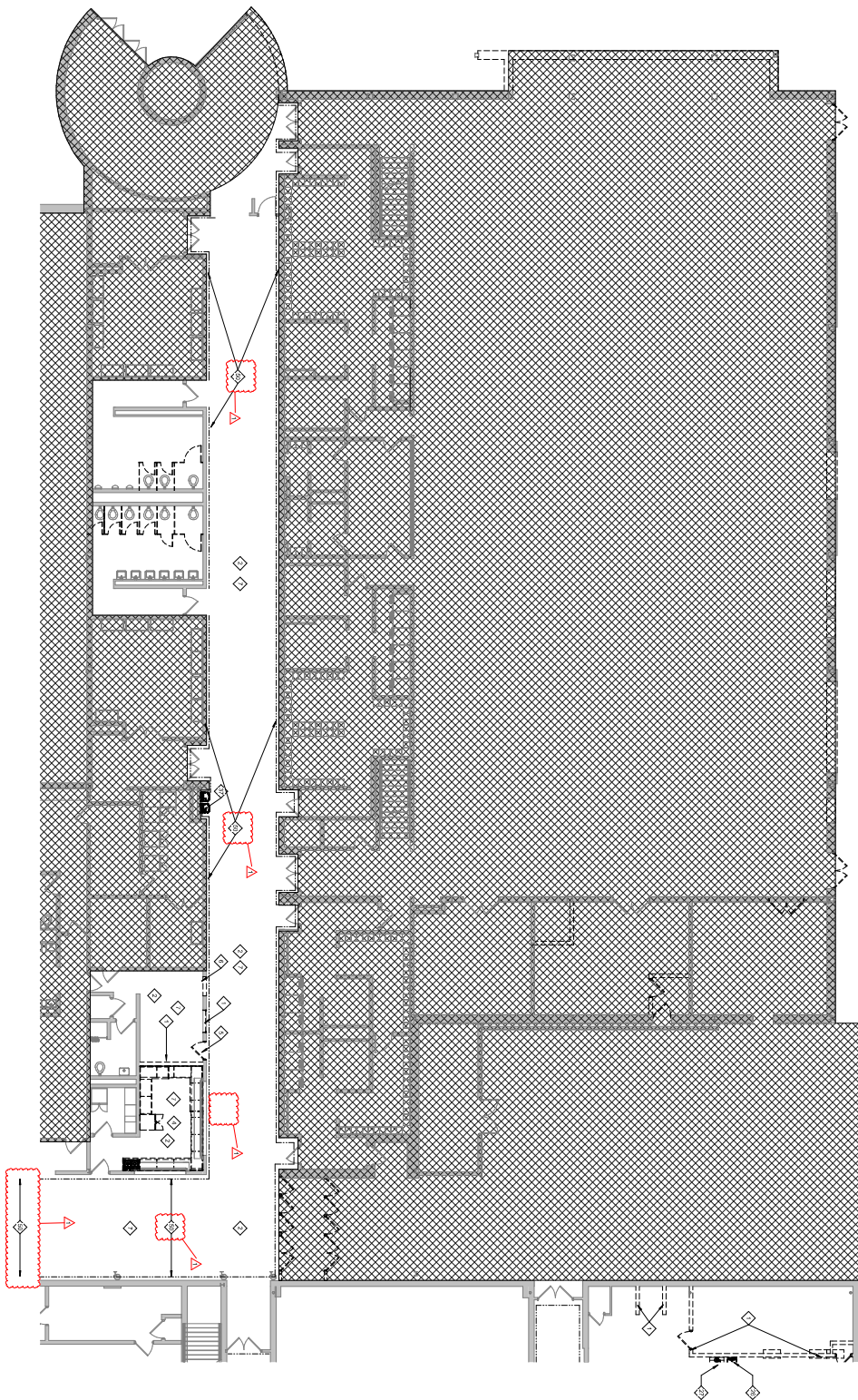
REVISIONS:	
#	Date
1	10/23/2025



CLARK-PLEASANT COMMUNITY SCHOOL CORP.
 WHITELAND COMM. HIGH SCHOOL PHASE 4
 300 E MAIN ST, WHITELAND, IN 46184

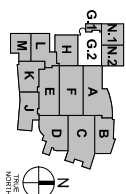
LANCER ASSOCIATES
ARCHITECTURE

145 N EAST STREET
INDIANAPOLIS, IN 46204



1. COORDINATE DEMOLITION WORK WITH NEW WORK.
2. CLEAN AND PREP SURFACES FOR NEW WORK.
3. COORDINATE DEMOLITION WORK WITH MEET WORK.
4. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ANY DEMOLISHED DOORS, CASEWORK, MANEUVERABLES CHAIRS, ETC.
5. PATCH ANY DAMAGE DONE FROM THE REMOVAL OF EXISTING MEET EQUIPMENT.

NOT IN SCOPE OF WORK

[illegible]

DEMOLITION
PLAN - FIRST
FLOOR - UNIT G

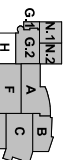
AD101G



CLARK-PLEASANT COMMUNITY SCHOOL CORP.
 WHITELAND COMM. HIGH SCHOOL PHASE 4
 300 E MAIN ST, WHITELAND, IN 46184

LANCER ASSOCIATES
ARCHITECTURE

145 N EAST STREET
INDIANAPOLIS, IN 46204



100% CONSTRUCTION
DOCUMENTS

PROJECT: #22130
DATE: 10/02/2025
DRAWN BY: Author

DEMOLITION
PLAN - FIRST
FLOOR - UNIT H

AD101H

 NOT IN SCOPE OF WORK

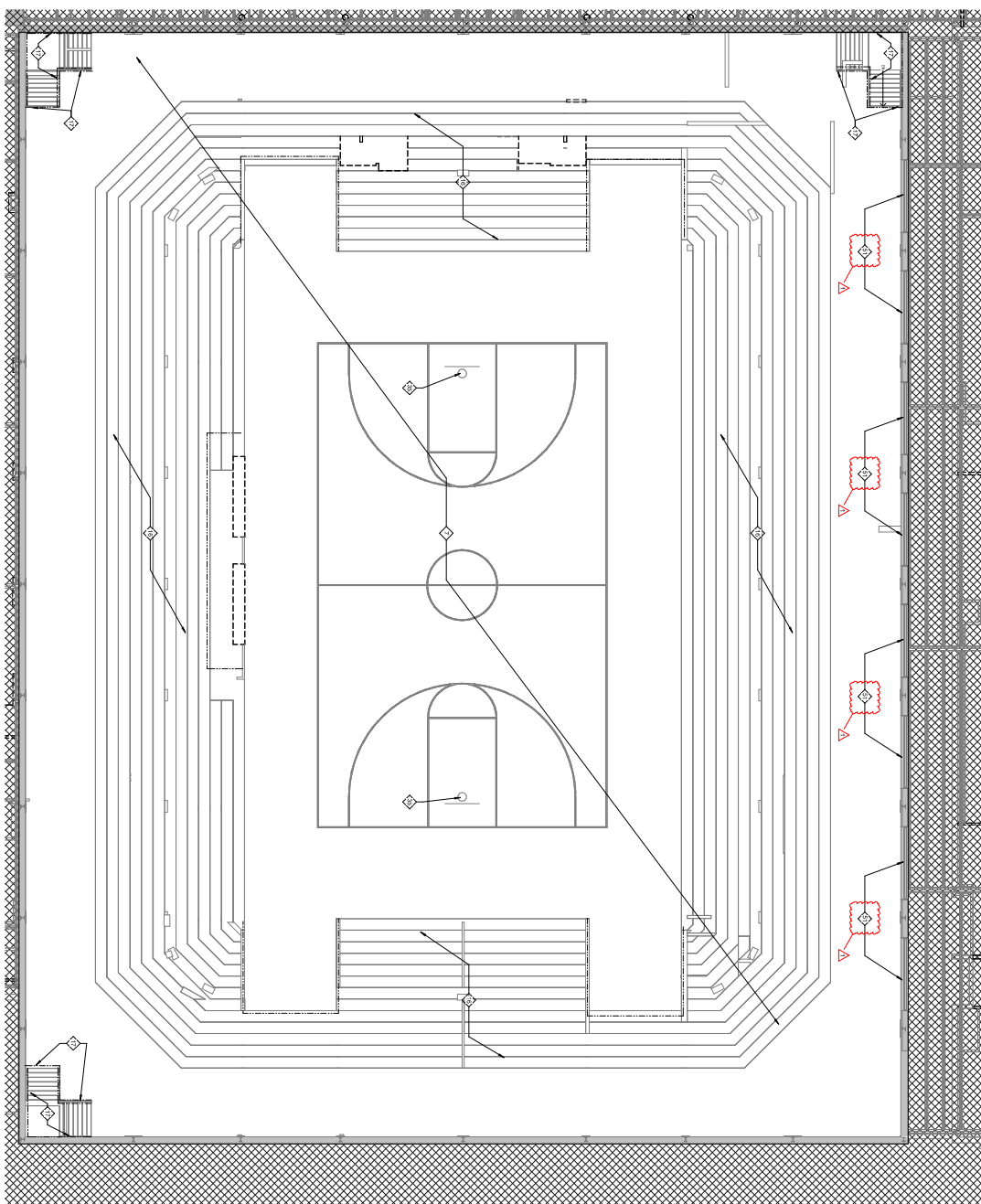
GENERAL NOTES: DEMO

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
 WHITELAND COMM. HIGH SCHOOL PHASE 4
 300 E MAIN ST, WHITELAND, IN 46184



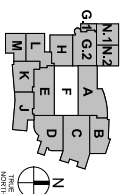
LANCER ASSOCIATES
ARCHITECTURE

145 N EAST STREET
INDIANAPOLIS, IN 46204



1. COORDINATE DEMOLITION WORK WITH NEW WORK.
2. CLEAN AND PREP SURFACES FOR NEW WORK.
3. COORDINATE DEMOLITION WORK WITH NEW WORK.
4. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ANY REMOVED DOORS, CASEWORK, MIRRORBOARDS, CHALKBOARDS, ETC.
5. PATCH ANY DAMAGE DONE FROM THE REMOVAL OF EXISTING NEW EQUIPMENT.

NOT IN SCOPE OF WORK

[illegible]

REVISIONS:	
#	Date
1	10/23/2025



CLARK-PLEASANT COMMUNITY SCHOOL CORP.
 WHITELAND COMM. HIGH SCHOOL PHASE 4
 300 E MAIN ST, WHITELAND, IN 46184

LANCER ASSOCIATES
ARCHITECTURE

145 N EAST STREET
INDIANAPOLIS, IN 46204

AD102F

[illegible]

1. NEW COINTEGRATED MODEL
2. CHANGING THE MODEL
3. NEW DATA SETS
4. NEW DATA SETS
5. NEW DATA SETS
6. NEW DATA SETS
7. NEW DATA SETS
8. NEW DATA SETS
9. NEW DATA SETS
10. NEW DATA SETS
11. NEW DATA SETS
12. NEW DATA SETS
13. NEW DATA SETS
14. NEW DATA SETS
15. NEW DATA SETS
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FLOOR PLAN FIRST FLOOR UNIT A.1	PROJECT: #22110 DATE: 10/06/2025 DRAWN BY: Author	100% CONSTRUCTION DOCUMENTS	REVISIONS: <table border="1"> <thead> <tr> <th>#</th> <th>Date</th> <th>Desc.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10/23/2025</td> <td>ADDENDUM 1</td> </tr> </tbody> </table>	#	Date	Desc.	1	10/23/2025	ADDENDUM 1
	#	Date	Desc.						
	1	10/23/2025	ADDENDUM 1						

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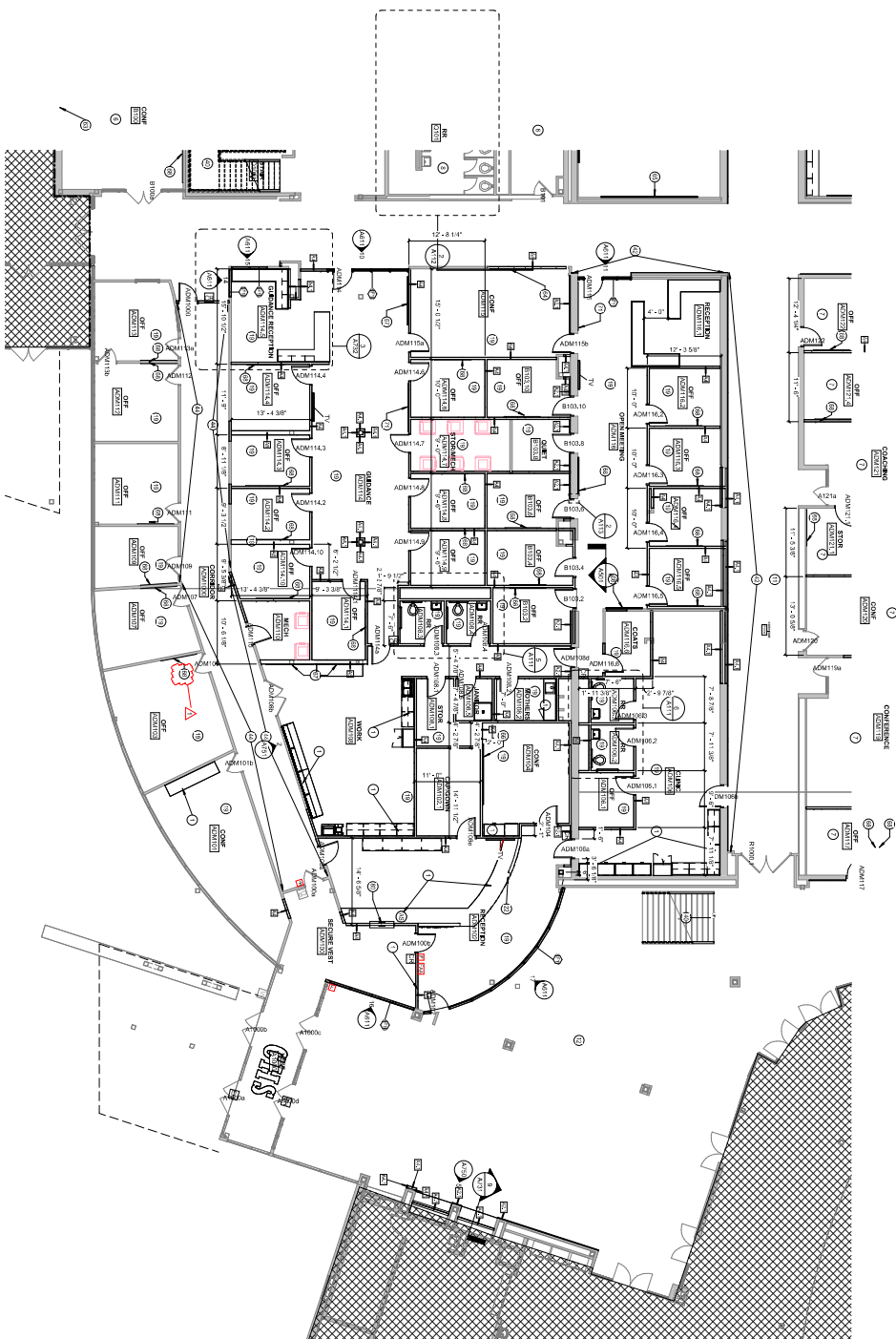
145 N EAST STREET
INDIANAPOLIS, IN 46204

PROJECT: #22130
DATE: 10/06/2025
DRAWN BY: Author

A compass rose with a circle divided into four quadrants by a vertical and a horizontal line. The top half is labeled 'TRUE' and the bottom half 'NORTH'. A thick black arrow points from the center towards the top-right, labeled 'M' for Magnetic North.

SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

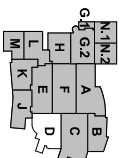


GENERAL NOTES

- [illegible]

O PLAN NOTES - FLOOR PLAN

- [illegible]



A compass rose with a circle divided into four quadrants by a vertical and a horizontal line. The letter 'N' is placed to the right of the circle, and the words 'TRUE NORTH' are written vertically to the left of the circle.

A101D

FIRST FLOOR -
UNIT D

100% CONSTRUCTION
DOCUMENTS

PROJECT: #22130
DATE: 10/06/2005
DRAWN BY: Author

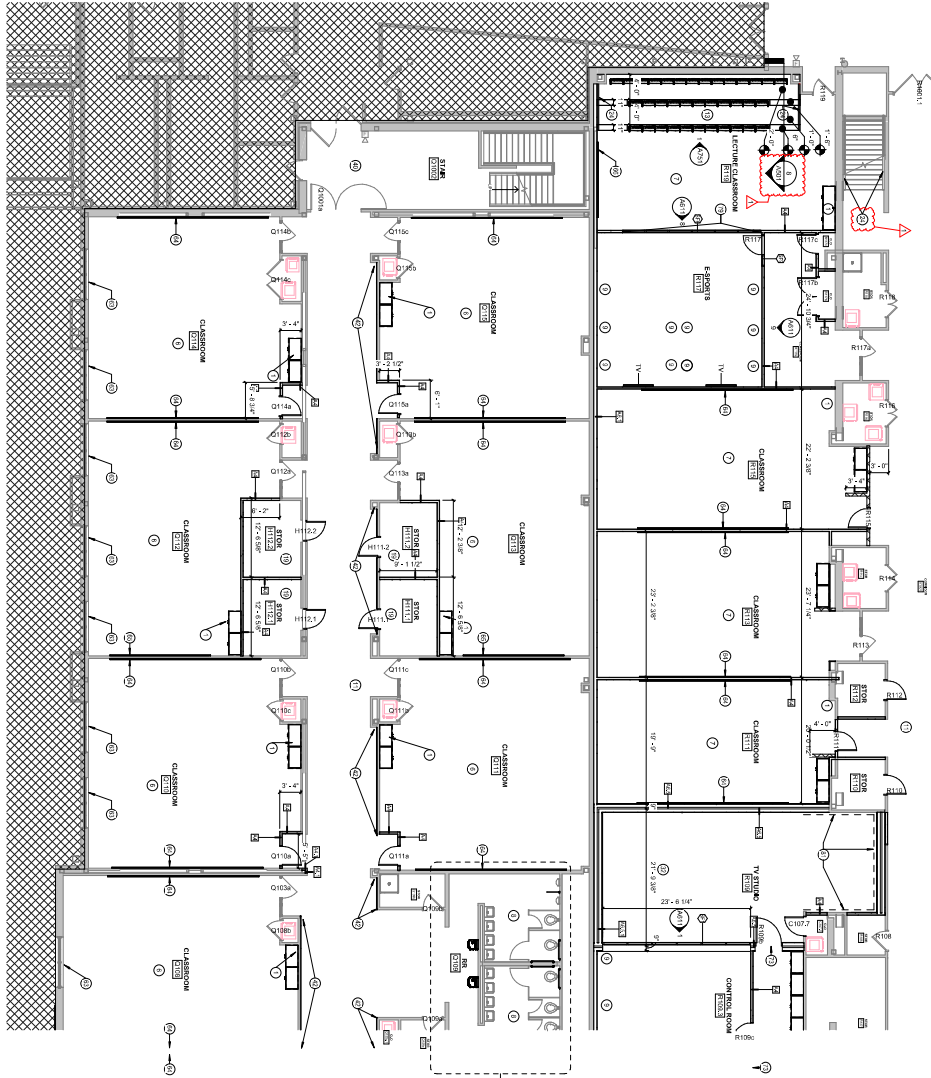
△ REVISIONS:	
#	Date
1	10/23/2025



CLARK-PLEASANT COMMUNITY SCHOOL CORP.
 WHITELAND COMM. HIGH SCHOOL PHASE 4
 300 E MAIN ST. WHITELAND, IN 46184

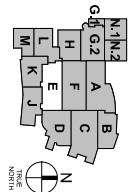
LANCER ASSOCIATES
ARCHITECTURE

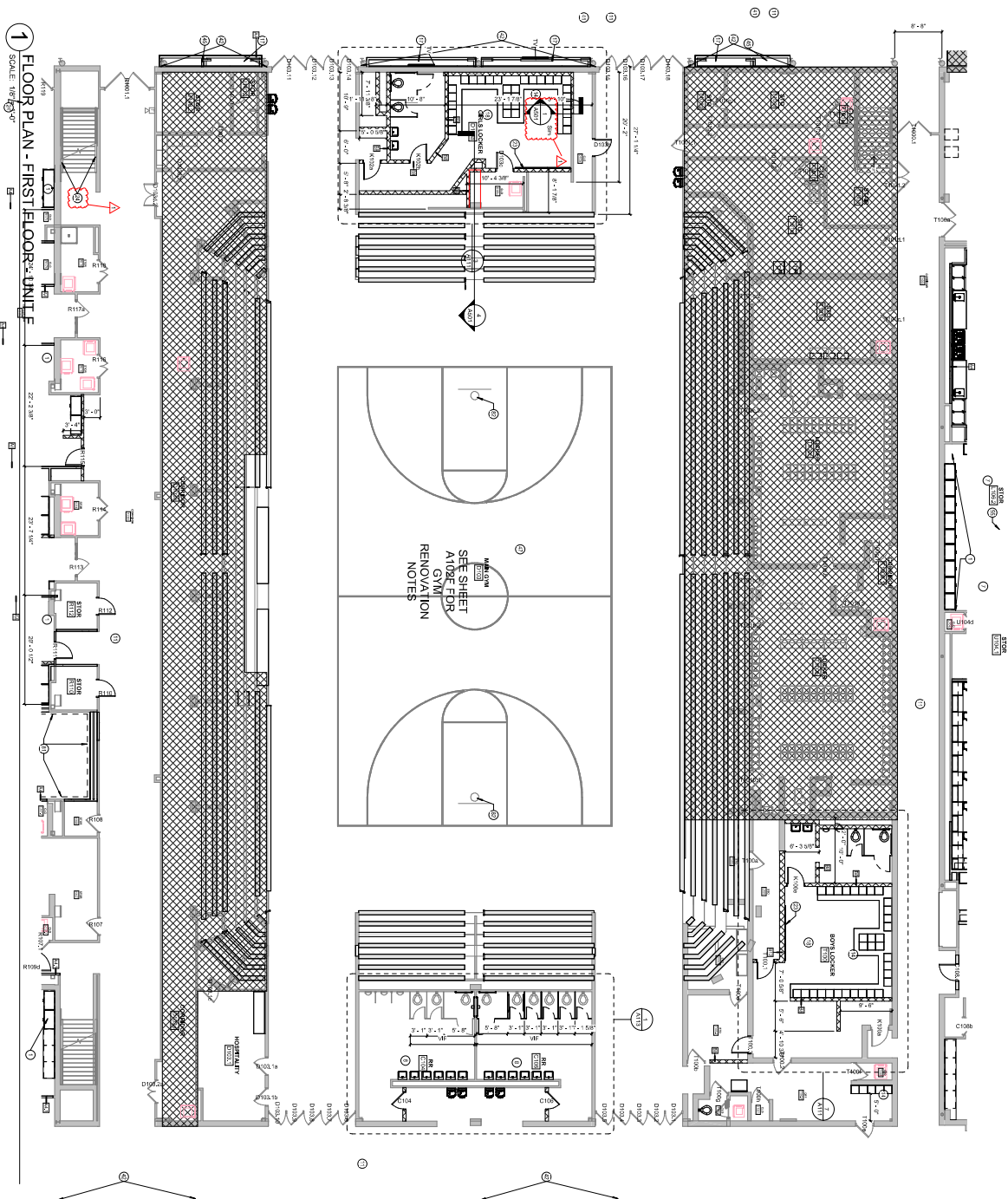
145 N EAST STREET
INDIANAPOLIS, IN 46204



1. "ANALYZE THE DATA" COMES FIRST. ALL STUDENT GROUPS WITH ONE EXCEPTION, THE 10TH GRADE, ARE REQUIRED TO ANALYZE THE DATA BEFORE THEY BEGIN TO DRAW CONCLUSIONS.
2. "ANALYZE THE DATA" SHOULD BE AN OUTSIDE COMBINATION OF INDIVIDUAL AND GROUP WORK. THE STUDENT SHOULD BE ABLE TO ANALYZE THE DATA ON HIS OWN.
3. "ANALYZE THE DATA" SHOULD BE A STUDENT'S FIRST EXPERIENCE WITH ANALYZING DATA. THE STUDENT SHOULD NOT BE REQUIRED TO ANALYZE DATA IN THE PRESENCE OF OTHER STUDENTS.
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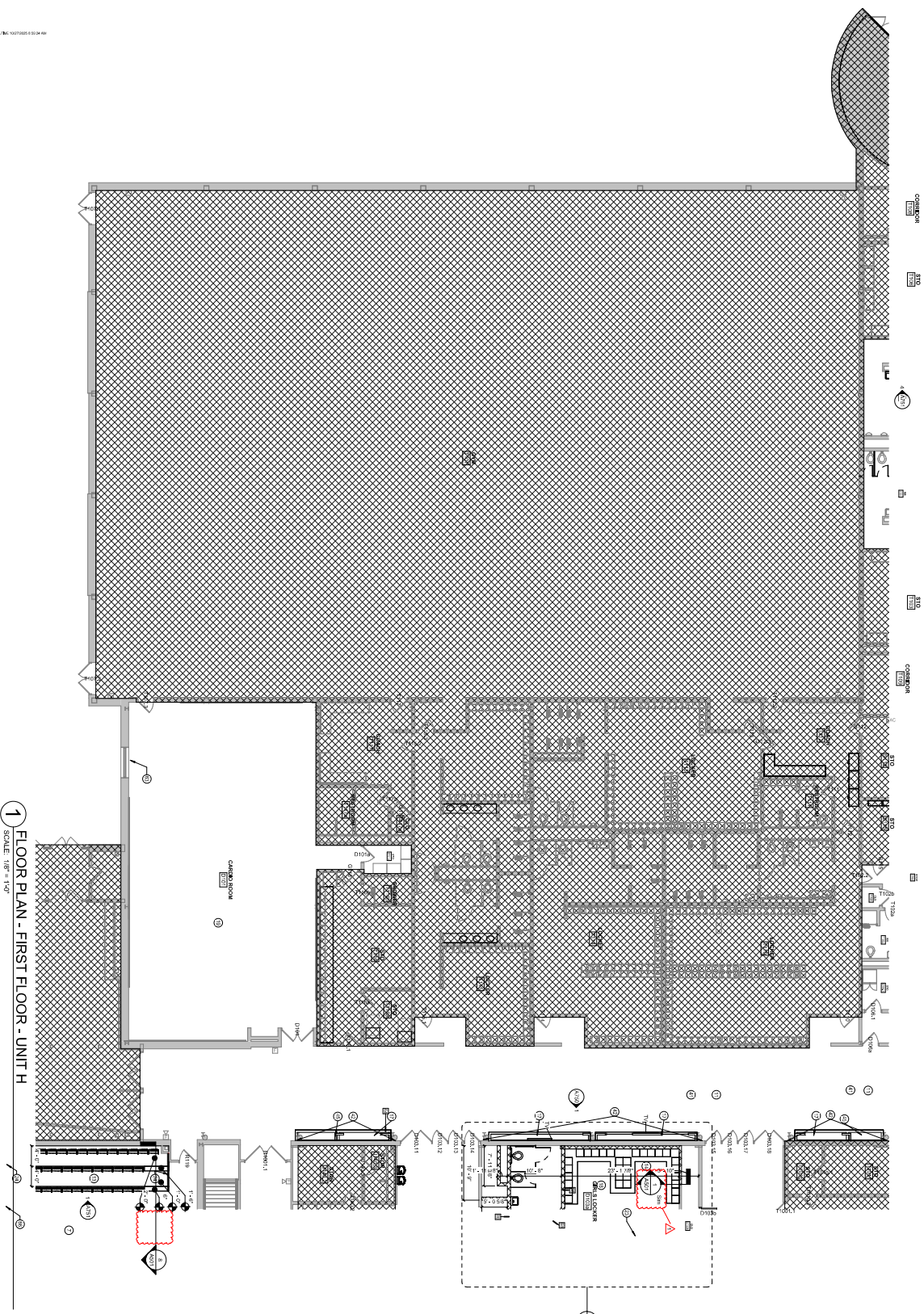
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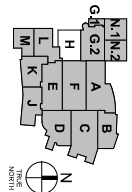


LANCER ASSOCIATES
ARCHITECTURE

145 N EAST STREET
INDIANAPOLIS, IN 46204



GENERAL NOTES



REVISIONS:		
#	Date	Desc.
1	10/23/2025	ADDENDUM 1



CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL PHASE 4
300 E MAIN ST, WHITELAND, IN 46184

LANCER ASSOCIATES
ARCHITECTURE

145 N EAST STREET
INDIANAPOLIS, IN 46204

1 FLOOR PLAN - SECOND FLOOR - UNIT F
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- [illegible]

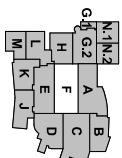
PLAN NOTES - FLOOR PLAN

- [illegible]

REVISIONS:		
#	Date	Desc.
1	10/23/2025	ADDENDUM 1



CLARK-PLEASANT COMMUNITY SCHOOL CORP.
 WHITELAND COMM. HIGH SCHOOL PHASE 4
 300 E MAIN ST, WHITELAND, IN 46184



A compass rose with a circle divided into four quadrants by a vertical and a horizontal line. The top half is shaded black. To the right of the circle is the letter 'N'. To the left of the circle, the words 'TRUE' and 'NORTH' are stacked vertically.

A102F

SECOND FLOOR
- UNIT F

LANCER ASSOCIATES
ARCHITECTURE

145 N EAST STREET
INDIANAPOLIS, IN 46204

- ## PLAN NOTES - RCP

PLAN NOTES - RCF

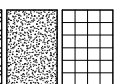
GENERAL NOTES

1. ALL INTERIOR CEILING JOISTS AT 2'-4" UNLESS OTHERWISE NOTED

1. OUTSIDE OF SCOPE OF WORK



TYPICAL CEILING TYPES



2x ACQUISITICA CEILING TILE (SEE TAGS FOR TYPE)
ACQ-A-TY17-2X, 2X TILE
ACQ-B-WHITE 2X TILE
ACQ-C-HIGH SPEC GLOSS HPS SMO TO APARTMENT OPTIMA
ACQ-D-SOLID 2X TILE SMO TO APARTMENT BACKS FACES

GYPSON BOARD CEILING

145 N EAST STREET
INDIANAPOLIS, IN 46204

145 N EAST STREET
ANAPOLIS, IN 46204

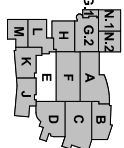
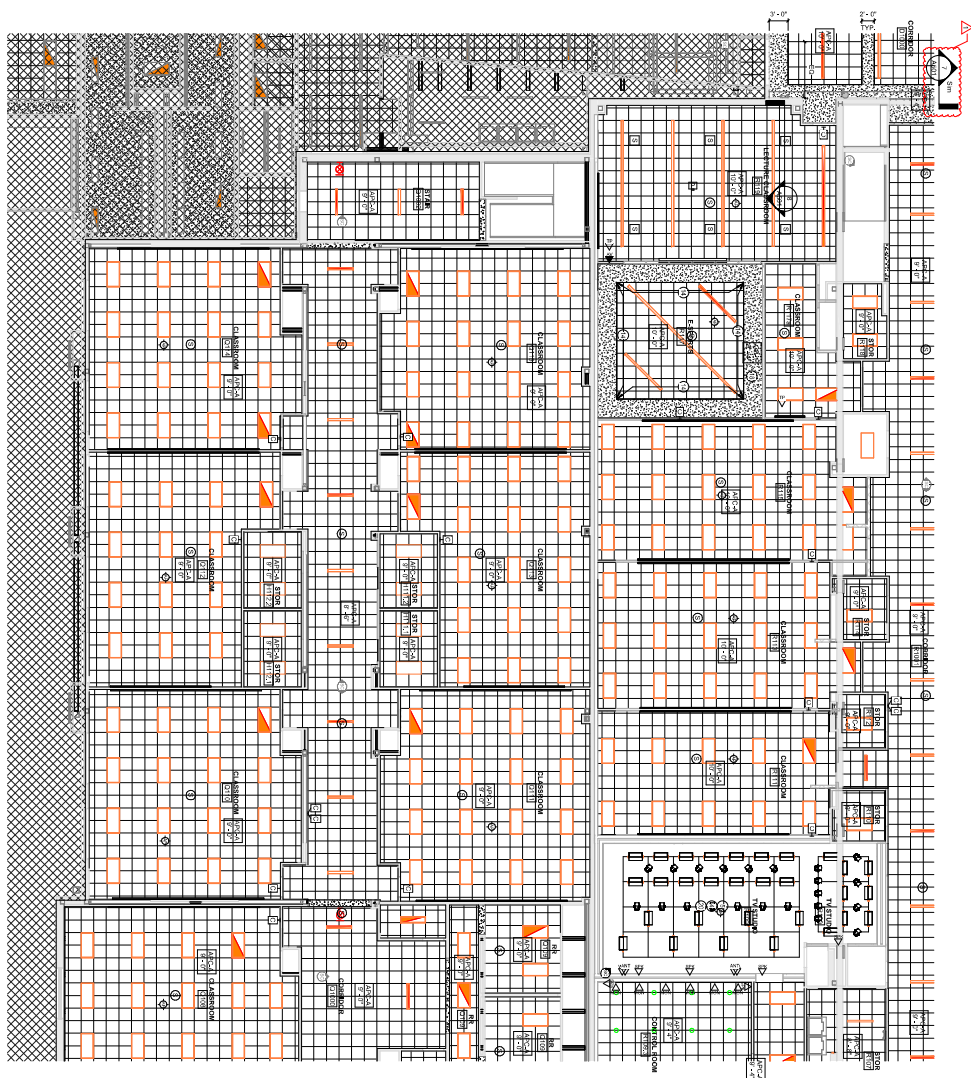
EXPOSED STRUCTURE (SEE KEYNOTE FOR FIRM)

149

entire

1 REFLECTED CEILING PLAN - FIRST FLOOR - UNIT E.1
SCALE: 1/8" = 1'-0"

① SCALE: 1/8" = 1'-0"



CEILING PLAN -
FIRST FLOOR -
UNIT E.1

A121E.1

REVISIONS:	
#	Date
1	10/23/2025

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
 WHITELAND COMM. HIGH SCHOOL PHASE 4
 300 E MAIN ST, WHITELAND, IN 46184



PLAN NOTES - RCP

- 1. REFLECTED CEILING PLAN - RCP
- 2. REFLECTED CEILING PLAN - RCP
- 3. REFLECTED CEILING PLAN - RCP
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GENERAL NOTES

- 1. ALL REFLECTED CEILING PLAN - RCP
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TYPICAL CEILING TYPES

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LANCER ASSOCIATES ARCHITECTURE

145 N EAST STREET
INDIANAPOLIS, IN 46204

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL PHASE 4
300 E MAIN ST, WHITELAND, IN 46184

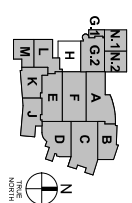
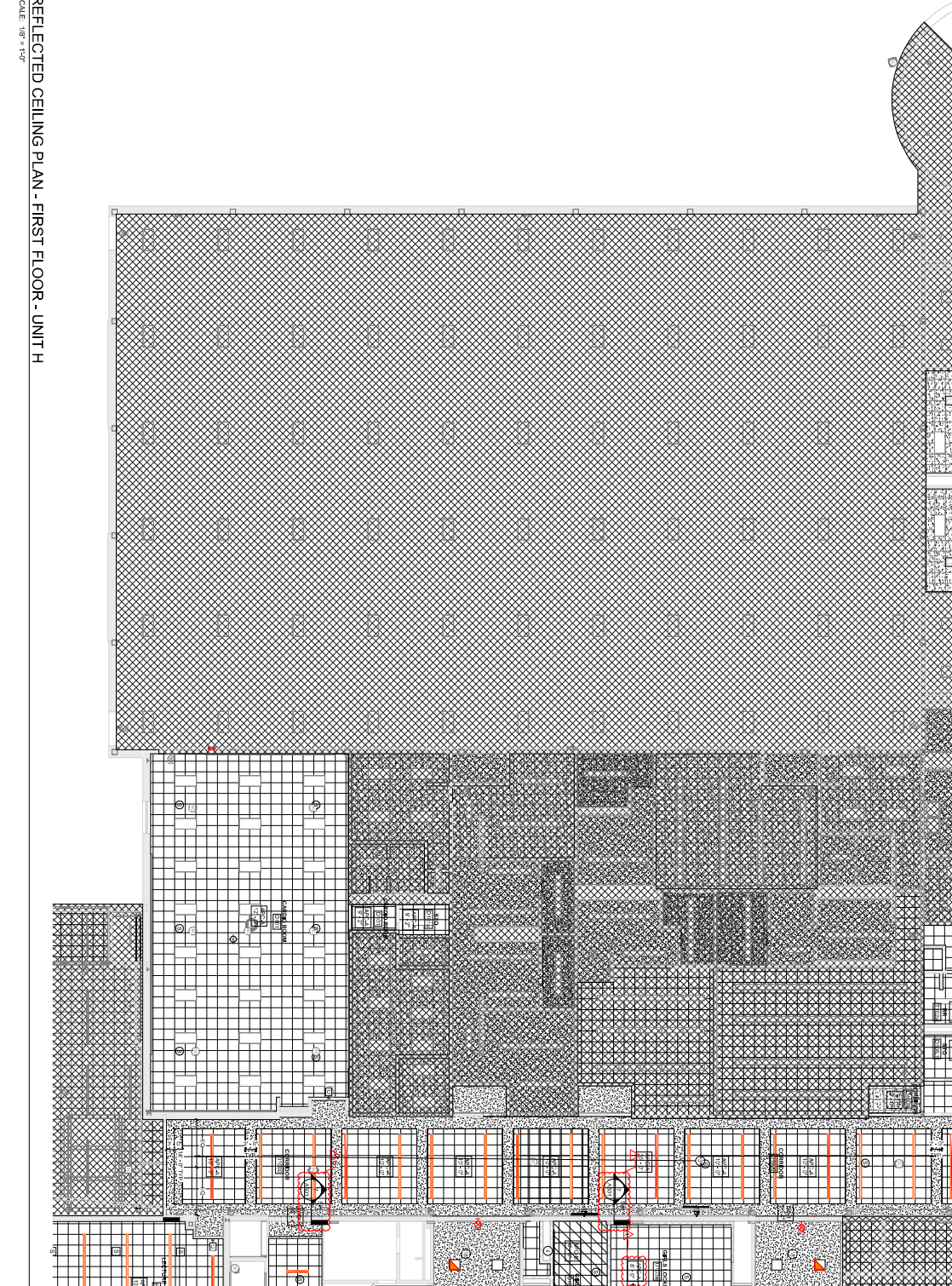


REV	DATE	DESCRIPTION
1	01/15/2020	ADDITIONAL 1



1 REFLECTED CEILING PLAN - FIRST FLOOR - UNIT G.2

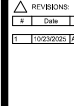
SCALE: 1/8" = 1'-0"



A121H

CEILING PLAN -
FIRST FLOOR -
UNIT H

DOCUMENTS



CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL PHASE 4
300 E MAIN ST, WHITELAND, IN 46184

PLAN NOTES - RCP

1. To be able to identify the structures of the heart and lungs.
2. To be able to describe the functions of the heart and lungs.
3. To be able to explain the importance of the heart and lungs in the body.
4. To be able to identify the structures of the heart and lungs.
5. To be able to describe the functions of the heart and lungs.
6. To be able to explain the importance of the heart and lungs in the body.
7. To be able to identify the structures of the heart and lungs.
8. To be able to describe the functions of the heart and lungs.
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12. To be able to explain the importance of the heart and lungs in the body.
13. To be able to identify the structures of the heart and lungs.
14. To be able to describe the functions of the heart and lungs.
15. To be able to explain the importance of the heart and lungs in the body.

GENERAL NOTES

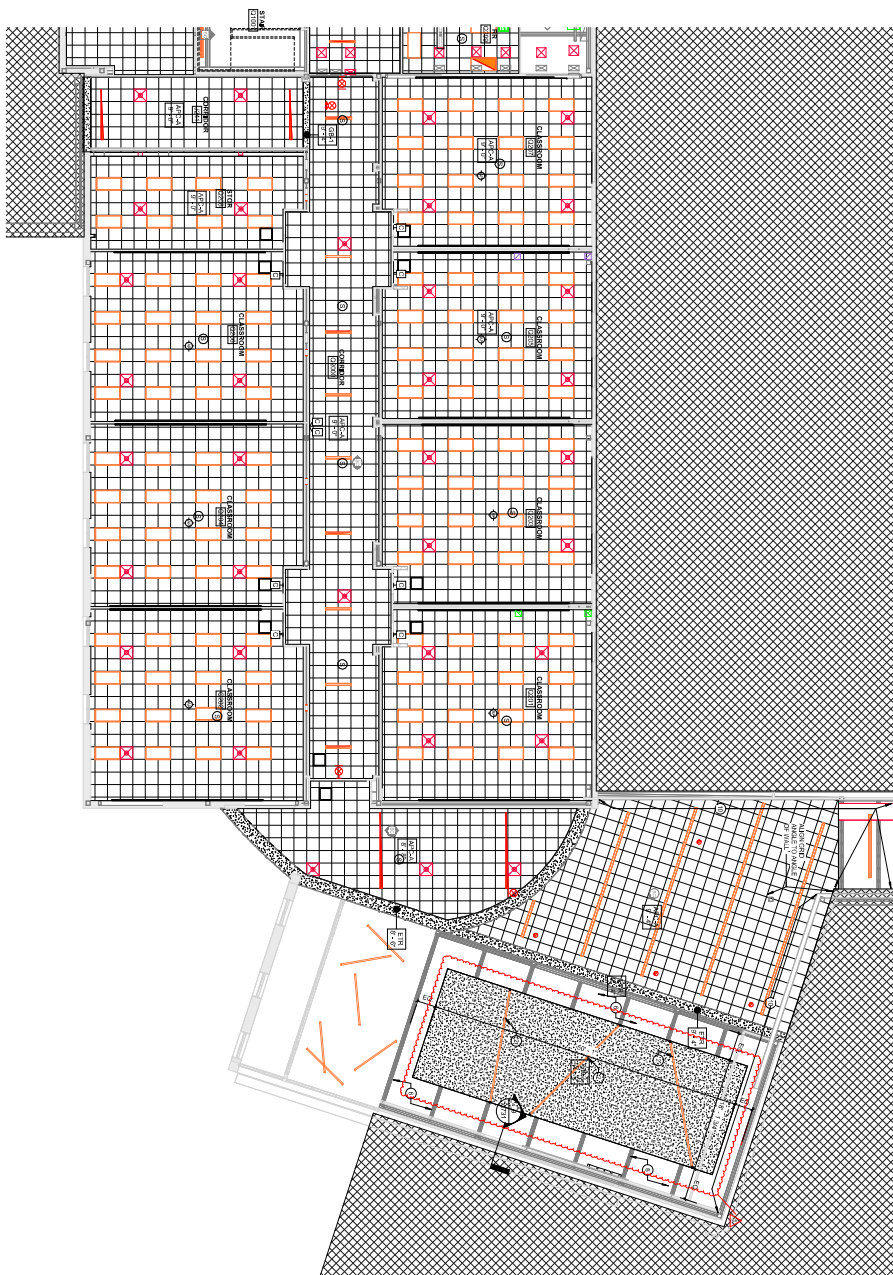
1. ALL INTERIOR GRILLINGS AT 9" ON CENTER UNLESS OTHERWISE NOTED.
2. OUTSIDE OF SCOPE OF WORK

TYPICAL CEILING TYPES

	NO ADDITIONAL CHANGE IN THE FLOOR FINISH TYPE
	WALL - ACOUSTIC INSULATION
	FLOOR - ACOUSTIC INSULATION
	OPTICAL BONDING CABLES
	FIBRE OPTIC
	EXPOSED BRICKWORK (SEE KEYNOTE FOR H400)

LANCER ASSOCIATES
ARCHITECTURE

145 N EAST STREET
INDIANAPOLIS, IN 46204



5. ALL INTERIOR CEILINGS AT 9'4" UNLESS OTHERWISE NOTED



202 ACOUSTICAL CEILING TILE (SEE TABS FOR TYPE)
APC-A, TYPICAL 2X2 TILE
APC-B, WHEATLE 2X2 TILE
APC-C, HIGH NOISE (2.95 WNC) 2X2 TO ACOUSTIC OPTIMA
APC-D, 0.10X0.2X2 TILE (SEE TABS FOR BACKSTAGE NOTATION)



EXPOSED STRUCTURE (SEE KEYNOTE FOR FINISH)

[illegible]

A122D

REFLECTED
CEILING PLAN -
SECOND FLOOR
- UNIT D

100% CONSTRUCTION
DOCUMENTS

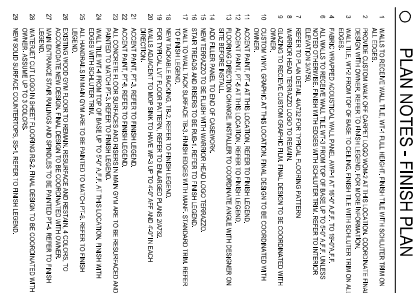
PROJECT: #22130
DATE: 10/06/2025
DRAWN BY: Author



CLARK-PLEASANT COMMUNITY SCHOOL CORP.
 WHITELAND COMM. HIGH SCHOOL PHASE 4
 300 E MAIN ST, WHITELAND, IN 46184

145 N EAST STREET
INDIANAPOLIS, IN 46204

- [illegible]



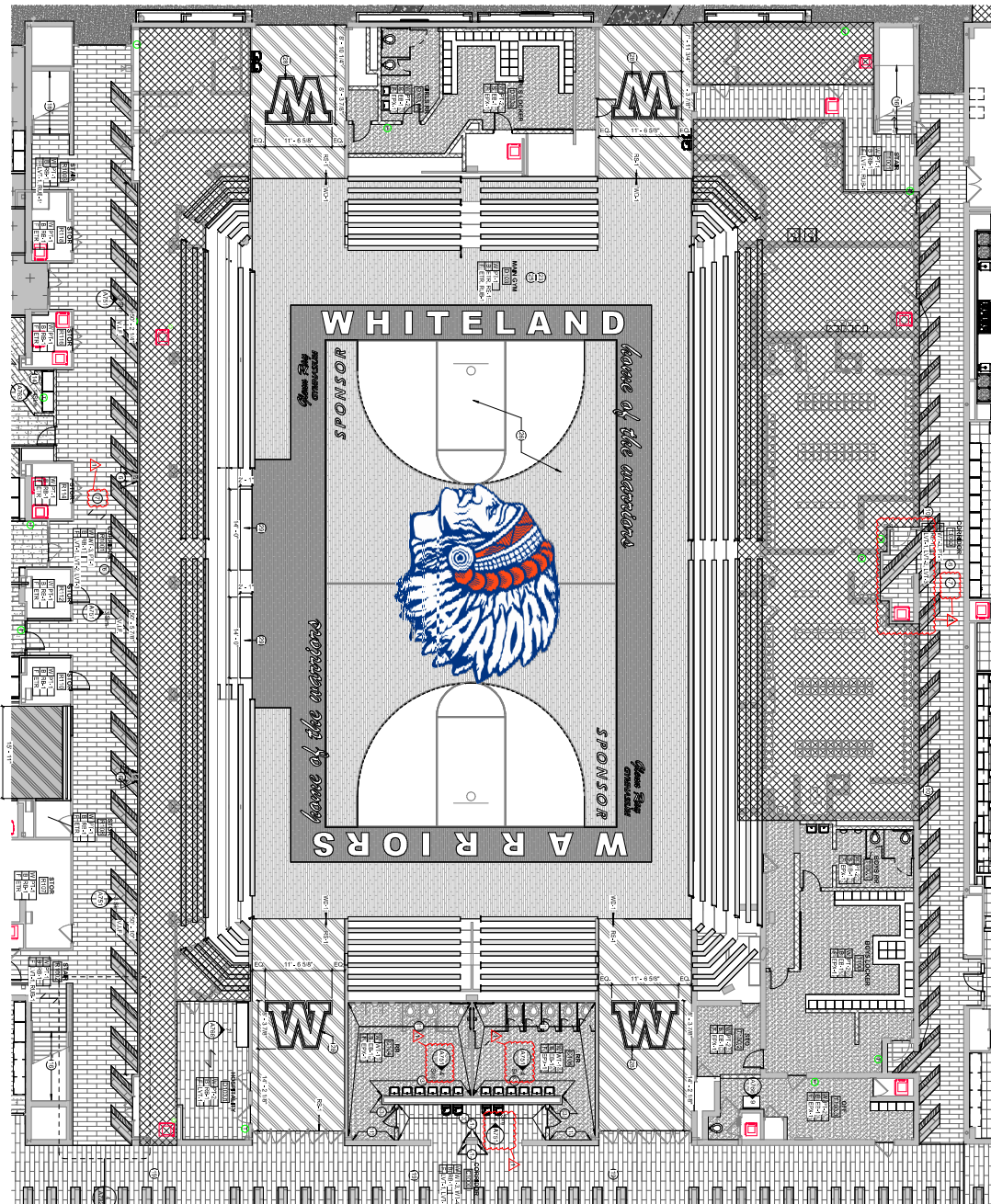
GENERAL FINISH PLAN NOTES

[illegible]

145 N EAST STREET
INDIANAPOLIS, IN 46204

A721A.2

1 INTERIOR FINISH PLAN - FIRST FLOOR - UNIT A.2
SCALE: 1/8" = 1'-0"



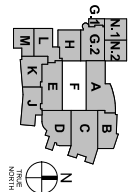
1 INTERIOR FINISH PLAN - FIRST FLOOR - UNIT F
SCALE: 1/8" = 1'-0"

GENERAL FINISH PLAN NOTES

1. ALL FINISHES TO BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
 - A. MASONRY: CMU, BLOCK, OR BRICK FINISHES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
 - i. CMU: 12" X 16" X 8" STANDARD WEIGHT, TYPE S, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - ii. BLOCK: 16" X 16" X 8" STANDARD WEIGHT, TYPE S, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - iii. BRICK: 8" X 8" X 16" STANDARD WEIGHT, TYPE S, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - B. CONCRETE: ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
 - i. SLAB: 4" THICK, TYPE I, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - ii. WALL: 8" THICK, TYPE I, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - iii. COLUMN: 12" X 12" X 12" STANDARD WEIGHT, TYPE S, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - C. ALL FINISHES: FINISHES TO BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
 - i. PAINT: ALL INTERIOR WALLS AND CEILING SHALL BE PAINTED WITH A HIGH QUALITY, WATER-BASED, EMULSION PAINT, TYPE I, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - ii. FLOOR: ALL FLOOR FINISHES SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
 - a. CARPET: 1/8" THICK, TYPE I, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - b. TILE: 12" X 12" X 1/2" STANDARD WEIGHT, TYPE S, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - c. POLISHED CONCRETE: 4" THICK, TYPE I, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.

PLAN NOTES - FINISH PLAN

1. ALL FINISHES TO BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
 - A. MASONRY: CMU, BLOCK, OR BRICK FINISHES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
 - i. CMU: 12" X 16" X 8" STANDARD WEIGHT, TYPE S, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - ii. BLOCK: 16" X 16" X 8" STANDARD WEIGHT, TYPE S, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - iii. BRICK: 8" X 8" X 16" STANDARD WEIGHT, TYPE S, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - B. CONCRETE: ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
 - i. SLAB: 4" THICK, TYPE I, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - ii. WALL: 8" THICK, TYPE I, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - iii. COLUMN: 12" X 12" X 12" STANDARD WEIGHT, TYPE S, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - C. ALL FINISHES: FINISHES TO BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
 - i. PAINT: ALL INTERIOR WALLS AND CEILING SHALL BE PAINTED WITH A HIGH QUALITY, WATER-BASED, EMULSION PAINT, TYPE I, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - ii. FLOOR: ALL FLOOR FINISHES SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
 - a. CARPET: 1/8" THICK, TYPE I, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - b. TILE: 12" X 12" X 1/2" STANDARD WEIGHT, TYPE S, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.
 - c. POLISHED CONCRETE: 4" THICK, TYPE I, WITH REINFORCING BARS (REBAR) AND CHAIRS (CHairs) AS SHOWN ON THE PLAN.



INTERIOR FINISH PLAN - FIRST FLOOR - UNIT F

A721F

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL PHASE 4
300 E MAIN ST, WHITELAND, IN 46184

LANCER ASSOCIATES ARCHITECTURE
145 N EAST STREET
INDIANAPOLIS, IN 46204

GENERAL FINISH PLAN NOTES

- [illegible]

Technical drawing of a kitchen layout showing a sink, stove, and refrigerator with dimensions and labels.

Labels:

- WALL MOUNTED SINK
- WALL MOUNTED STOVE
- WALL MOUNTED REFRIG.

Dimensions:

- Overall width: 2' - 11"
- Overall depth: 2' - 11"
- Stove width: 2' - 11"
- Sink width: 2' - 11"
- Refrigerator width: 2' - 11"
- Stove depth: 2' - 11"
- Sink depth: 2' - 11"
- Refrigerator depth: 2' - 11"
- Stove height: 2' - 11"
- Sink height: 2' - 11"
- Refrigerator height: 2' - 11"

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[illegible][illegible]

7 INT. ELEV. - CORRIDOR V1000 S
SCALE: 1/4" = 1'-0"



6 INT. ELEV. - TYP. SINGLE RR SIDE



5 INT. ELEV. - TYP. SINGLE RR SINK



4 INT. ELEV. - TYP. GROUP RR SINK, DRINKING FOUNTAIN



3 INT. ELEV. - TYP. LOCKER INSET AREA



2 INT. ELEV. - CORRIDOR ADM1000



1 INT. ELEV. - LECTURE R119 W

[illegible]

1. **PROBABILISTIC**
2. **LOCALIZATION** (THE LOCALIZATION THEORY OF HENRI LEBESGUE)
3. **WOODWARD** (THE WOODWARD PROPOSITION OF J. H. WOODWARD)
4. **ACQUIN** (THE ACQUIN PROPOSITION OF J. ACQUIN)
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100. **PROBABILISTIC**



13 CSWK - STOR U104.1 SOUTH
SCALE: 3/8" = 1'-0"



12 CSWK - STOR L106.2 WEST
SCALE: 3/8" = 1'-0"



11 CSWK - FABRICATION LAB C109 WEST
SCALE: 3/8" = 1'-0"



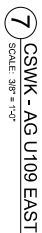
10 CSWK - FABRICATION LAB C109 SOUTH
SCALE: 3/8" = 1'-0"



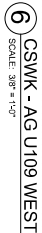
9 CSWK - FABRICATION LAB C109 EAST
SCALE: 3/8" = 1'-0"



8 CSWK - FABRICATION LAB C109 NORTH
SCALE: 3/8" = 1'-0"



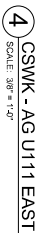
7 CSWK - AG U109 EAST
SCALE: 3/8" = 1'-0"



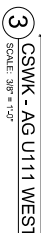
6 CSWK - AG U109 WEST
SCALE: 3/8" = 1'-0"



5 CSWK - ANIMALS U109.1 SOUTH
SCALE: 3/8" = 1'-0"



4 CSWK - AG U111 EAST
SCALE: 3/8" = 1'-0"



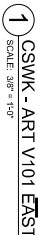
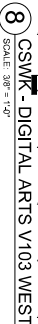
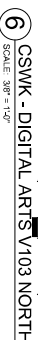
3 CSWK - AG U111 WEST
SCALE: 3/8" = 1'-0"

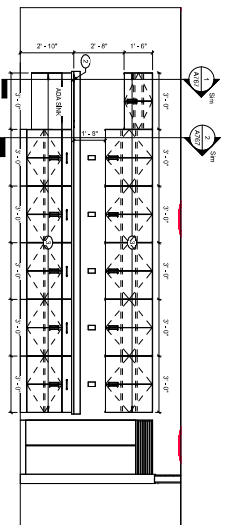


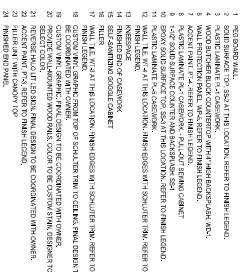
2 CSWK - T
SCALE: 3/8" = 1'-0"



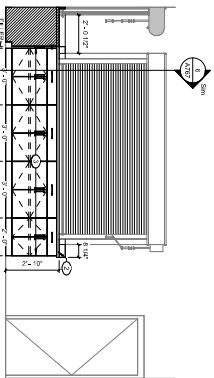
1 CSWK - TYP. AG ISLAND
SCALE: 3/8" = 1'-0"

[illegible][illegible]

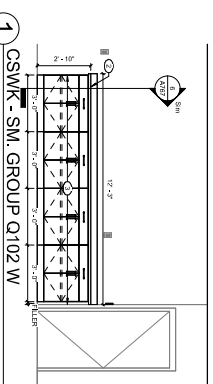


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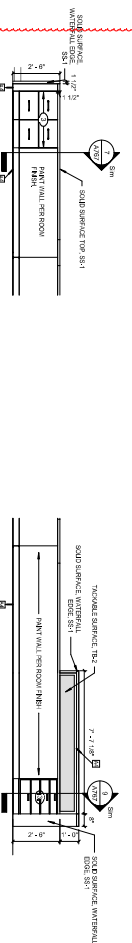
7 ENLARGED PLAN - CIRCULATION DESK
SCALE: 1/4" = 1'-0"



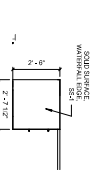
4 CSWK - CONCESSIONS D106 E
SCALE: 3/8" = 1'-0"



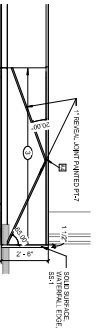
1 CSWK - SM. GROUP Q102 W
SCALE: 3/8" = 1'-0"



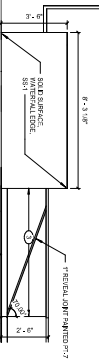
11 CSWK - CIRC. DESK INSIDE 2
SCALE: 3/8" = 1'-0"



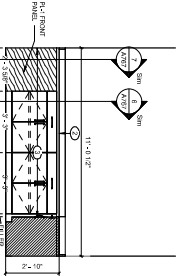
13 CSWK - CIRC. DESK E SIDE
SCALE: 3/8" = 1'-0"



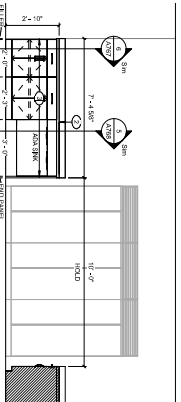
9 CSWK - CIRC. DESK FRONT 2
SCALE: 3/8" = 1'-0"



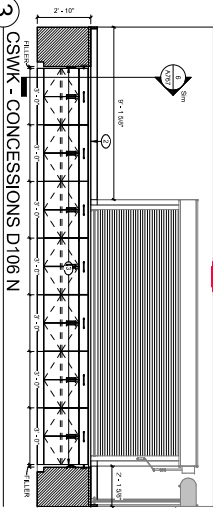
8 CSWK - CIRC. DESK FRONT 1
SCALE: 3/8" = 1'-0"



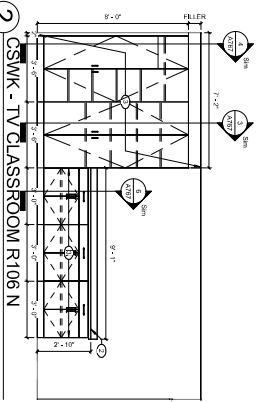
6 CSWK - CONCESSIONS D106 W
SCALE: 3/8" = 1'-0"



5 CSWK - CONCESSIONS D106 S
SCALE: 3/8" = 1'-0"



3 CSWK - CONCESSIONS D106 N
SCALE: 3/8" = 1'-0"



2 CSWK - T
SCALE: 3/8" = 1'-0"

[illegible][illegible]

SCALE: 3/8" = 1'-0"



15 CSWK - TYP. MEDIA CENTER SHELVES
SCALE: 3/8" = 1'-0"



14 CSWK - DARK ROOM V107 S
SCALE: 3/8" = 1'-0"



13 CSWK - DARK ROOM V107
SCALE: 3/8" = 1'-0"



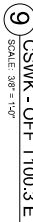
12 CSWK - GUIDANCE RECEPTION ADM114.5 - W
SCALE: 3/8" = 1'-0"



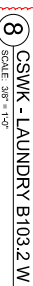
11 CSWK - GUIDANCE RECEPTION ADM14.5 - N
SCALE: 3/8" = 1'-0"



10 CSWK GUIDANCE RECEPTION ADM114.5 - E
SCALE: 3/8" = 1'-0"



CSWK - OFF 1100.3 E
SCALE: 3/8" = 1'-0"



8 CSWK - LAUNDRY B103.2 W
SCALE: 3/8" = 1'-0"



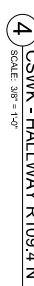
7 CSWK - H
SCALE: 3/8" = 1'-0"



6 CSWK - FACS LAB 1 U104 W
SCALE: 3/8" = 1'-0"



5 CSWK - WORKROOM S103 W
SCALE: 3/8" = 1'-0"



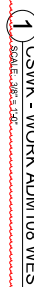
4 CSWA - HALLWAY R109.4 IN
SCALE: 3/8" = 1'-0"



3 CSWA - CONF ADM104 W
SCALE: 3/8" = 1'-0"



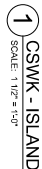
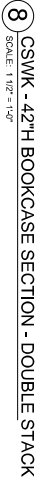
2 SCALE: 308 = 1-07



1 CSWK - WORK ADMIN 108 WES
SCALE: $3/8" = 1'-0"$

[illegible]

1. A VENDOR'S PERFORMANCE SHALL BE MEASURED BY THE FOLLOWING CRITERIA:
 - A. A VENDOR SHALL BE ELIGIBLE FOR A REBATE IF THE VENDOR'S AVERAGE MONTHLY SALES IN A MONTH ARE GREATER THAN THE VENDOR'S AVERAGE MONTHLY SALES IN THE PREVIOUS MONTH.
 - B. A VENDOR SHALL BE ELIGIBLE FOR A REBATE IF THE VENDOR'S AVERAGE MONTHLY SALES IN A MONTH ARE GREATER THAN THE VENDOR'S AVERAGE MONTHLY SALES IN THE PREVIOUS MONTH.
 - C. A VENDOR SHALL BE ELIGIBLE FOR A REBATE IF THE VENDOR'S AVERAGE MONTHLY SALES IN A MONTH ARE GREATER THAN THE VENDOR'S AVERAGE MONTHLY SALES IN THE PREVIOUS MONTH.
 - D. A VENDOR SHALL BE ELIGIBLE FOR A REBATE IF THE VENDOR'S AVERAGE MONTHLY SALES IN A MONTH ARE GREATER THAN THE VENDOR'S AVERAGE MONTHLY SALES IN THE PREVIOUS MONTH.
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10. A VENDOR SHALL BE ELIGIBLE FOR A REBATE IF THE VENDOR'S AVERAGE MONTHLY SALES IN A MONTH ARE GREATER THAN THE VENDOR'S AVERAGE MONTHLY SALES IN THE PREVIOUS MONTH.

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	CPCSC Whiteland Community High School Phase 4 Addendum 1 Narrative	October 24, 2025
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SPECIFICATIONS:

- 1) 274116 – INTEGRATED AUDIO VIDEO SYSTEM AND EQUIPMENT
 - a) Updated Part 1.1.D table of contents.
 - b) Added Dante requirement to Part 2.4 AV encoder type 3. Updated acceptable manufacturer model number.
 - c) Added USB 2.0 host port requirement to Part 2.5 AV encoder type 2. Updated acceptable manufacturer model number.
 - d) Updated Part 2.28 from PC Monitor to Video Monitor. Added additional requirements in reference to Radio R109.2 to Part 2.28.A.9. Updated acceptable manufacturer model number.
 - e) Added specification requirements for Part 2.57 Broadcast Stereo Monitor Headphones.
 - f) Added additional requirements to Radio Podcast Microphone Part 2.58.A.6 in reference to the factory terminated XLR cabling required for Radio R109.2

DRAWINGS:

- 1) SHEET T101 – FIRST FLOOR OVERALL DISTRIBUTION PLAN
 - g) Updated sheet note #6 to add requirement for additional wall mounted telecom equipment rack to be required.
- 2) SHEET T101E.2 – FIRST FLOOR DISTRIBUTION PLAN – UNIT E.2
 - a) Updated sheet note #1 to add requirement for additional wall mounted telecom equipment rack to be required.
- 3) SHEET T201A.1 – FIRST FLOOR TECHNOLOGY PLAN – UNIT A.1
 - a) Shifted data tags to improve device visibility on sheet.
- 4) SHEET T201A.2 – FIRST FLOOR TECHNOLOGY PLAN – UNIT A.2
 - a) Shifted data tags to improve device visibility on sheet.
- 5) SHEET T201C.1 – FIRST FLOOR TECHNOLOGY PLAN – UNIT C.1
 - a) Shifted data tags to improve device visibility on sheet.
 - b) Added two data locations consisting of four cables each to media center desk.
- 6) SHEET T201C.2 – FIRST FLOOR TECHNOLOGY PLAN – UNIT C.2
 - a) Shifted data tags to improve device visibility on sheet.
 - b) Relocated volume controls within Classroom S100 & S104 to be within new wall.

- 7) SHEET T201D – FIRST FLOOR TECHNOLOGY PLAN – UNIT D
 - a) Shifted data tags to improve device visibility on sheet.
- 8) SHEET T201E.1 – FIRST FLOOR TECHNOLOGY PLAN – UNIT E.1
 - a) Shifted data tags to improve device visibility on sheet.
 - b) Added AV input location type 3 to R117a.
- 9) SHEET T201F – FIRST FLOOR TECHNOLOGY PLAN – UNIT F
 - a) Shifted data tags to improve device visibility on sheet.
- 10) SHEET T201G.2 – FIRST FLOOR TECHNOLOGY PLAN – UNIT G.2
 - a) Shifted data tags to improve device visibility on sheet.
- 11) SHEET T202D – SECOND FLOOR TECHNOLOGY PLAN – UNIT D
 - a) Shifted data tags to improve device visibility on sheet.
- 12) SHEET T202E.1 – SECOND FLOOR TECHNOLOGY PLAN – UNIT E.1
 - a) Shifted data tags to improve device visibility on sheet.
 - b) Relocated clocks to improve visibility around wing walls.
- 13) SHEET T202E.2 – SECOND FLOOR TECHNOLOGY PLAN – UNIT E.2
 - a) Shifted data tags to improve device visibility on sheet.
 - b) Relocated clocks to improve visibility around wing walls.
- 14) SHEET T202F – SECOND FLOOR TECHNOLOGY PLAN – UNIT F
 - a) Updated devices to be cabled back to the nearest telecom room.
- 15) SHEET T210 – TV STUDIO ENLARGED LAYOUT
 - a) Added broadcast video location in R109.2.
 - b) Changed audio connection location type 1 to audio connection location type 4 in R109.2.
 - c) Added monitor location in R109.2.
 - d) Updated legend.
- 16) SHEET T301 – EXISTING TELECOM RACK ELEVATIONS
 - a) Updated existing IDF Candy telecom rack elevation to reflect current layout.
- 17) SHEET T302 – NEW TELECOM RACK ELEVATIONS
 - a) Updated new IDF Candy telecom rack elevation to add additional rack due to new data cable quantity.
- 18) SHEET T303 – AV DIAGRAMS
 - a) Updated AV encoder type in Lecture Classroom AV Diagram.
 - b) Updated USB encoding and decoding routing in Esports AV Diagram.
 - c) Added O.F.O.I. student video monitor to Esports AV Diagram.

- d) Added type designation to audio connection location in Esports AV Diagram.

19) SHEET T304 – AV DIAGRAMS

- a) Removed audio output from Main Gym AV Diagram.
- b) Updated AV connection location symbols in Main Gym AV Diagram.

20) SHEET T305 – AV DIAGRAMS

- a) Added AV camera type 2 connectivity serving Radio R109.2.
- b) Added audio workstation video monitor and AV decoder type 2.
- c) Updated monitor labels to align with the specification.
- d) Added AV decoder to teleprompter video monitor.
- e) Added AV equipment rack type.

21) SHEET T306 – AV DIAGRAMS

- a) Added video monitors serving Radio R109.2.
- b) Added flat panel display serving Radio R109.2.
- c) Re-located Blu-ray player and updated routing.
- d) Re-located edit workstation computers and updated routing.
- e) Updated labels and connectivity to AV network switch.
- f) Added AV equipment rack type.

22) SHEET T307 – AV DIAGRAMS

- a) Updated TV studio control room furniture elevation to align with spec and updates to the AV diagrams.

23) SHEET T308 – AV DIAGRAMS

- a) Added announcer consoles serving Radio R109.2.
- b) Re-located media player and updated routing.
- c) Added connectivity from the announcer consoles to the AV network switch.
- d) Updated audio connection location symbol serving Radio R109.2 to match floor plans and legend.

24) SHEET T400 – TECHNOLOGY DETAILS

- a) Updated audio connection location type 2 faceplate. Added callout to reference AV diagrams.
- b) Updated AV input location type 1 encoder type to align with specification.
- c) Updated AV input location type 3 encoder type to align with specification.

25) SHEET T500 – TELECOM SCHEDULES

- a) Updated IDF MCS3 telecom schedule as described above.
- b) Updated telecom room schedules to align with cabling updates within the main gymnasium.

SHEET INDEX:

1) SHEET T101 – FIRST FLOOR OVERALL DISTRIBUTION PLAN

- 2) SHEET T101E.2 – FIRST FLOOR DISTRIBUTION PLAN – UNIT E.2
- 3) SHEET T201A.1 – FIRST FLOOR TECHNOLOGY PLAN – UNIT A.1
- 4) SHEET T201A.2 – FIRST FLOOR TECHNOLOGY PLAN – UNIT A.2
- 5) SHEET T201C.1 – FIRST FLOOR TECHNOLOGY PLAN – UNIT C.1
- 6) SHEET T201C.2 – FIRST FLOOR TECHNOLOGY PLAN – UNIT C.2
- 7) SHEET T201D – FIRST FLOOR TECHNOLOGY PLAN – UNIT D
- 8) SHEET T201E.1 – FIRST FLOOR TECHNOLOGY PLAN – UNIT E.1
- 9) SHEET T201F – FIRST FLOOR TECHNOLOGY PLAN – UNIT F
- 10) SHEET T201G.2 – FIRST FLOOR TECHNOLOGY PLAN – UNIT G.2
- 11) SHEET T202D – SECOND FLOOR TECHNOLOGY PLAN – UNIT D
- 12) SHEET T202E.1 – SECOND FLOOR TECHNOLOGY PLAN – UNIT E.1
- 13) SHEET T202E.2 – SECOND FLOOR TECHNOLOGY PLAN – UNIT E.2
- 14) SHEET T202F – SECOND FLOOR TECHNOLOGY PLAN – UNIT F
- 15) SHEET T210 – TV STUDIO ENLARGED LAYOUT
- 16) SHEET T301 – EXISTING TELECOM RACK ELEVATIONS
- 17) SHEET T302 – NEW TELECOM RACK ELEVATIONS
- 18) SHEET T303 – AV DIAGRAMS
- 19) SHEET T304 – AV DIAGRAMS
- 20) SHEET T305 – AV DIAGRAMS
- 21) SHEET T306 – AV DIAGRAMS
- 22) SHEET T307 – AV DIAGRAMS
- 23) SHEET T308 – AV DIAGRAMS
- 24) SHEET T400 – TECHNOLOGY DETAILS
- 25) SHEET T500 – TELECOM SCHEDULES

SECTION 27 41 16 - INTEGRATED AUDIO VIDEO SYSTEMS AND EQUIPMENT

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. This section includes the minimum requirements for the installation, configuration, and training of the audio visual components as depicted on the Drawings and required by these specifications.
- B. These Specifications, together with the Drawings accompanying them, are intended to depict the installation requirements necessary to support this Project. Contractor shall furnish materials shown and/or called for on the Drawings but not mentioned in the Specifications, or vice versa, that are necessary for the installation and support of communications cabling, whether or not specifically called for in both. In addition, Contractor shall provide incidental equipment and materials required for the completion of systems included in this contract whether or not specified or shown on the drawings.
- C. All required cabling infrastructure including back boxes and conduit to support the AV systems are provided and installed by others. Contractor is required to provide, install, test, and configure all cabling, equipment, and AV systems as described within this specification and as shown on the T-series drawings.
- D. This section includes minimum requirements for the following:
 - 1. Wireless Presentation Receiver
 - 2. AV Encoder Type 1
 - 3. AV Encoder Type 2
 - 4. AV Encoder Type 3
 - 5. AV Encoder Type 4
 - 6. AV Decoder Type 1
 - 7. AV Decoder Type 2
 - 8. AV Decoder Type 3
 - 9. SDI to HDMI Converter
 - 10. HDMI to SDI Converter
 - 11. Streaming Codec
 - 12. AV Bridge
 - 13. Blu-ray Player
 - 14. Media Player
 - 15. AV Network Switch
 - 16. AV Control Panel Type 1
 - 17. AV Control Panel Type 2
 - 18. Touch Panel
 - 19. Wireless Controller
 - 20. Game Capture
 - 21. AV Camera Type 1
 - 22. AV Camera Type 2
 - 23. AV Camera Control Panel
 - 24. Video Projector
 - 25. Flat Panel Display
 - 26. Flat Panel Display Wall Mount
 - 27. Ceiling Recessed Electric Projection Screen
 - 28. **Video** Monitor
 - 29. Broadcast Reference Monitor Type 1 (TV Studio)
 - 30. Broadcast Reference Monitor Type 2 (TV Studio)
 - 31. Rasterizer (TV Studio)
 - 32. Master Sync Generator (TV Studio)
 - 33. Video Recorder (TV Studio)

34. Broadcast Video Camera (TV Studio)
35. Broadcast Video Camera Control Unit (TV Studio)
36. Broadcast Video Camera Lens (TV Studio)
37. Broadcast Video Camera Pedestal (TV Studio)
38. Video Production Engine (TV Studio)
39. Terminal Gear (TV Studio)
40. Replay System (TV Studio)
41. News Gathering Server (TV Studio)
42. Graphics System (TV Studio)
43. Teleprompter System (TV Studio)
44. Remote Broadcast Video Camera (Remote Production Kit)
45. Remote Production Video System (Remote Production Kit)
46. Remote Production Audio System (Remote Production Kit)
47. Single Sided On-Air Light (TV Studio)
48. Control Room Furniture (TV Studio)
49. Radio Studio Table
50. Wireless Audio Transmitter
51. Wireless Audio Receiver
52. Bluetooth Interface
53. Audio Transmitter
54. Audio Receiver
55. Announcer Console
56. Announcer Headset
57. **Broadcast Stereo Monitor Headphones**
58. Radio Podcasting Microphone
59. Audio Monitor Controller (TV Studio)
60. Intercom System (TV Studio)
61. Wireless Microphone System Type 1 (Media Center)
62. Wireless Microphone System Type 2 (Main Gym and TV Studio)
63. Wireless Microphone Antenna Distribution System
64. Wireless In-Ear Monitoring System (TV Studio)
65. Wireless IFB System (Remote Production Kit)
66. Digital Signal Processor Type 1
67. Digital Signal Processor Type 2
68. Hearing Assistance System
69. Digital Audio Mixing Console
70. Digital Audio I/O
71. Power Amplifier Type 1
72. Power Amplifier Type 2
73. Power Amplifier Type 3
74. Power Amplifier Type 4
75. Power Amplifier Type 5
76. Loudspeaker Type 1
77. Loudspeaker Type 2
78. Loudspeaker Type 3
79. Loudspeaker Type 4
80. Loudspeaker Type 5
81. Speaker Rigging Components
82. Power Sequencing System
83. Power Conditioner
84. Uninterruptible Power Supply Type 1
85. Uninterruptible Power Supply Type 2
86. AV Equipment Rack Type 1
87. AV Equipment Rack Type 2
88. AV Equipment Rack Type 3

89. AV Equipment Rack Blanks
90. AV Equipment Rack Vents
91. AV Equipment Rack Shelves
92. AV Equipment Rack Drawers

1.2 QUALITY ASSURANCE

- A. The following industry Standards are the basis for the audio-visual system described herein. The list is incorporated by this reference to them.
1. ANSI - American National Safety Institute
 2. ASTM - American Society of Testing and Materials
 3. EIA - Electronics Industries Association
 4. FCC - Federal Communications Commission
 5. NEMA - National Electrical Manufacturer's Association
 6. OSHA - Occupational Safety and Health Administration
 7. NEC - National Electric Code.
 8. NFPA - National Fire Protection Association.
 9. IEEE - Institute of Electrical and Electronics Engineers.
 10. ISO - International Standards Organization.
 11. UL - Underwriters Laboratories
 12. Davis and Davis, Sound System Engineering (2nd Edition), Howard W. Sams, 1987
 13. Giddings, Audio System Design and Installation (ASDI), Howard W. Sams, 1990
- B. All cable and equipment shall be installed in a neat and workmanlike manner. All methods of construction that are not specifically described or indicated in the contract documents shall be subject to the control and approval of the Design 27 Project Manager. Equipment and materials shall be of the quality and manufacturer indicated. The equipment specified is based upon the acceptable manufacturers listed. Where "Or equal" is stated, equipment shall be equivalent in every way to that of the equipment specified and subject to approval.
- C. Materials and work specified herein shall comply with the requirements of the local Authority Having Jurisdiction.
- D. Contractor should have the following qualifications:
1. Experienced in the installation of systems similar in complexity and scale to those included within the scope of work. If requested, the Contractor shall provide the names, locations, and points of contact for at least three installations of the type and complexity specified herein.
 2. Within the last two (2) years, installed an audio-visual system with similar equipment and functionality.
 3. Have at least one (1) person on staff with CTS-I certification.

1.3 SUBMITTALS

- A. As part of this specification section, Contractor shall be responsible for providing the following submittals.
1. Manufacturer Product Data
 2. Pre-Installation Shop Drawings
 3. User Interface Submittal
 4. As-Built Drawings
 5. Configuration files and Source Code

- B. Manufacturer Product Data - The Contractor shall provide manufacturers' catalog sheets, specifications, and installation instructions for all products to be installed within the scope of work. This is to verify that the submitted components comply with the Contract Documents. Submittals shall be formatted as follows.
1. Submit only products that appear in this section or that are required for a complete installation relating to the products in this section. Submission of products from multiple sections will be cause for rejection of submittal without review and subject to reformatting and resubmittal by Contractor.
 2. Each product intended to be used shall be included one time only. Do not submit similar products multiple times.
 3. Submittal shall include an index with page(s) listed in order of specification within corresponding section, with subsection number and generic name correlated to product submitted. Sheet index and/or product data sheets organized alphabetically, randomly or in any manner which does not match the specification order will be cause for rejection of submittal without review and subject to reformatting and resubmittal by Contractor.
 4. Following index sheet, include Manufacturer specification sheet stapled in order of properly organized index.
 - a. Where multiple products exist on a single sheet, Contractor shall clearly indicate, whether with highlight, arrow, PDF stamp, etc. the product intending to be used.
 - b. Failure to indicate specific product to be used will be cause for marking submittal Revise and Resubmit.
- C. Pre-Installation Shop Drawings – Prior to the start of field work the Contractor shall provide pre-installation shop drawings noting the intended installation means and methods for this scope of work. This is to ensure the Contractor understands the scope of work and to provide the field installation teams with all information necessary for successful implementation.
1. Drawings shall be created using modeling software, such as Autodesk AutoCAD. In addition, they shall be exported in PDF format for review by the designer and Owner.
 2. Drawings shall contain floor plans, RCPs (if applicable), section views, and details illustrating equipment location, including but not limited to equipment racks, IR amplifiers, projection screens, connection panels, flat panel displays, and loudspeakers. Drawings shall be at no less than 1/8"=1'-0" scale.
 3. Detailed wiring diagrams showing the interconnection between equipment devices. This shall include cable labeling, cable types, connector types and termination details, wiring color codes, and equipment manufacturer and models. Note cabling provided by Others. Diagrams included as part of Construction Documents are included to convey design intent and are not acceptable for use in Pre-Installation Shop Drawings and will be cause for rejection.
 4. Loudspeaker, video projector, projector lift, and projection screen mounting details, including hardware type, material, and load capacity. For all equipment mounted overhead, mounting details and design calculations shall be signed and sealed by a professional structural engineer currently licensed to practice in the State of the work to be performed. The details included in the Construction Documents are included to convey design intent and are not acceptable for use in Pre-Installation Shop Drawings and will be cause for rejection.
 5. Dimensioned plate and panel details that are custom for the project. Details shall include dimensioned locations of components, component type, engraving information, bill of materials, and plate finish and color. If custom part numbers are generated by a manufacturer, they shall be included on the plate details.
 6. Rack elevations showing equipment layout within racks with dimensions. The Contractor shall allocate space in the rack for all equipment that will ultimately be installed within, including any and all Owner Furnished equipment.

7. Wiring schedule showing the source and destination of wiring and indicating whether the wire is in conduit or cable tray.
- D. User Interface Submittals – The Contractor shall provide user interface submittals to convey the look and feel of user interfaces along with intended functionality. This is to ensure the Contractor understands the scope of work and to streamline the programming process prior to field installation.
1. Submit within 14 days of Pre-Installation Shop Drawing submittal.
 2. Submit individual PDF files with screenshots of touch panels to be configured for the project.
 - a. In text below screenshot, describe what pressing each button will accomplish in the program.
 - b. Include both what users would experience in the room as well as on the touch panel. Ex. “Pressing Power On will turn on projector, lower projector screen and take users to the [SOURCES] page of touch panel.
 - c. Where identical buttons exist on multiple pages, describe their function only once.
 3. If button panels with user replaceable or custom buttons are included in project scope, submit PDF screenshot of proposed button configuration.
 - a. In text below screenshot, describe what pressing each button will accomplish in the program.
- E. As-Built Drawings - The Contractor shall provide Final documentation noting the actual installed conditions for this scope of work. This is to provide the Owner with accurate historical data of the project for future reference. As-Built Drawings shall be submitted during project close-out for inclusion in the O&M manual. Submittals shall be formatted as follows.
1. Submit one (1) PDF set of redlined Contractor generated As-Built Drawings. The Owner reserves the right to request an electronic copy of the shop drawings in both Autodesk CAD (.DWG) format and PDF format.
 2. As-Built Drawings that utilize the Contract Documents as a base, shall be inclusive of all Published Addendums, ASIs, Accepted PCOs, PRs, SIs, etc. Changes made via RFI or Field Directive that were not published changes to the Contract Drawings shall be noted as such on the As-Built with the noted RFI or FD #.
 3. All text notes included on As-Built shall be easily legible on PDF. Handwritten notes that are not legible shall be replaced with PDF text.
 4. Include equipment manufacturer/model as installed in the field.
 5. Include revised functional diagrams based on those submitted and approved during the Pre-Installation Shop Drawing submittal.
- F. Configuration Files and Source Code – The Contractor shall provide the final equipment configuration files and Source Code installed on the project. These files shall be submitted concurrently with As-Built Drawings.
1. Include configuration files for all equipment, including but not limited to, digital signal processors, video switchers, control processors, amplifiers, etc. Owner notes that any changes made during the warranty period not completed by the Contractor will void the system warranty.
 2. Include any passwords that may have been created that are required to access equipment. Owner notes that any changes made during the warranty period not completed by the Contractor will void the system warranty.
 3. Contractor is not required to provide manufacturer software used for configuration.

- a. Include any control processor source code in its uncompiled format. Owner notes that any changes made during the warranty period not completed by the Contractor will void the system warranty.

1.4 CLOSE-OUT DOCUMENTS

- A. Provide close-out documents in accordance with the General Conditions unless otherwise indicated:
 1. Provide the following for products incorporated into the final installation:
 - a. Manufacturer's data for each type of product. Include manufacturer's serial numbers within the list of product.
 - b. Each products Owner/Instruction Manual. Provide high quality copies where necessary, with all text legible and illustrations of equal resolution and sharpness as the original manual. Faxed copies or copies with portions of the information missing or smeared not acceptable.
 2. Provide as-built drawings depicting what is actually incorporated within the project delivered as electronic files. All text within drawings shall be legible.
 3. Provide recorded test reports of Contractor commissioning.
 4. Prepare and provide a complete and typical procedure for the operation of the equipment as a system including:
 - a. Describe the operation of system capabilities.
 - b. Assume the intended reader of the manual to be technically inexperienced and unfamiliar with this facility.
 5. Any other pertinent data generated during the project or required for future service.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Equipment and components shall arrive onsite properly protected and undamaged with containers, packaging and labels intact.
- B. Store, handle and protect materials and equipment in accordance with Manufacturer's recommendations.
- C. Store materials and equipment in dry, environmentally controlled space. Do not install equipment and materials until spaces are enclosed, watertight, and dry. Protect equipment from dust and other airborne materials.
- D. Provide additional protection during handling as necessary to prevent breaking, scraping, marring, or otherwise damaging products or surrounding areas.
- E. Protect all equipment and components that are to be installed within this project from theft, vandalism, and exposure to rain, freezing temperatures and direct sunlight.
- F. Protect installed equipment and components from damage and prevent use by unauthorized persons.

1.6 WARRANTY

- A. The Contractor shall warrantee the completed work for a period of one (1) year, from the date of acceptance of the work, to be free of defect in design, workmanship, or material.
- B. Contractor shall repair, adjust, and/or replace, whichever the Owner determines to be in its best interests, any defective equipment, materials, or workmanship, as well as such parts of the work damaged or destroyed by such defect, during the warranty period, at the Contractor's sole cost and expense. If parts or components need to be repaired, then a loaner will be supplied and installed until the part or component can be repaired and reinstalled.
- C. All service work shall be performed by manufacturer certified technicians.
- D. Contractor to provide Owner a phone number for technical support. All support calls shall be answered within twenty-four (24) hours. All repairs shall be underway within forty-eight (48) hours and completed (or loaner supplied) within seven (7) days.
- E. At the end of the warranty period, the Contractor shall complete one (1) site visit to evaluate the status of the audio-visual systems. All equipment within this scope of work found to be defective shall be replaced at no cost to the Owner.
- F. Guarantees of material, equipment, and workmanship running in favor of the Contractor shall be transferred and assigned to the Owner on completion of the work and acceptance of said work by the Owner.

PART 2 - PRODUCTS

2.1 WIRELESS PRESENTATION RECEIVER

- A. Shall meet or exceed the following specifications:
 - 1. Shall have a minimum of one (1) RJ-45 LAN connection.
 - 2. Shall have a minimum of one (1) HDMI output.
 - 3. Shall have a minimum of one (1) USB 2.0 host type A.
 - 4. Shall support resolutions of up to and including 1920x1080 or higher.
 - 5. Shall support Miracast.
 - 6. Shall be capable of a minimum of two (2) simultaneous users at once.
 - 7. Provide necessary adapters and accessories as required.
 - 8. Acceptable Manufacturers:
 - a. Airtame 2
 - b. AirCord
 - c. Airtame Ethernet Adapter

2.2 AV ENCODER TYPE 1

- A. Shall meet or exceed the following specifications:
 - 1. Shall be capable of transmitting audio, video, and control over one (1) STP cable.
 - 2. Shall have a minimum of one (1) HDMI input.
 - 3. Shall have a minimum of one (1) LAN port.
 - 4. Shall have GPIO, RS-232, and IR control connectivity options.
 - 5. Shall have a minimum of one (1) analog stereo audio input.
 - 6. Shall support power over ethernet (PoE) IEEE 802.3af.

7. Shall support AES67 audio codec.
8. Shall support resolutions up to and including 3840 x 2160p or higher.
9. Shall be HDCP and AES compliant.
10. Coordinate color with architect prior to procurement.
11. Acceptable Manufacturers:
 - a. Visionary Solutions E5100
 - b. Or Equal

2.3 AV ENCODER TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall be capable of transmitting audio, video, and control over one (1) STP cable.
2. Shall have a minimum of one (1) HDMI input.
3. Shall have a minimum of one (1) USB host port.
4. Shall have a minimum of one (1) USB-C input.
5. Shall have a minimum of one (1) LAN port.
6. Shall have GPIO, RS-232, and IR control connectivity options.
7. Shall have a minimum of one (1) analog stereo audio input.
8. Shall support power over ethernet (PoE) IEEE 802.3af.
9. Shall support AES67 audio codec.
10. Shall support resolutions up to and including 3840 x 2160p or higher.
11. Shall be HDCP and AES compliant.
12. Coordinate color with architect prior to procurement.
13. Acceptable Manufacturers:
 - a. Visionary Solutions E5200
 - b. Or Equal

2.4 AV ENCODER TYPE 3

A. Shall meet or exceed the following specifications:

1. Shall be capable of transmitting audio, video, and control over one (1) STP cable.
2. Shall have a minimum of one (1) HDMI input.
3. Shall have a minimum of one (1) LAN port.
4. Shall support power over ethernet (PoE) IEEE 802.3af.
5. **Shall support Dante audio codec.**
6. Shall support AES67 audio codec.
7. Shall support resolutions up to and including 3840 x 2160p or higher.
8. Shall be HDCP and AES compliant.
9. Shall come in double gang decora style form factor.
10. Coordinate color with architect prior to procurement.
11. Acceptable Manufacturers:
 - a. **Visionary Solutions DuetE5-WP-H**
 - b. Or Equal

2.5 AV ENCODER TYPE 4

A. Shall meet or exceed the following specifications:

1. Shall be capable of transmitting audio, video, and control over one (1) STP cable.
2. Shall have a minimum of one (1) HDMI input.

3. **Shall have a minimum of one (1) USB 2.0 host port.**
4. Shall have a minimum of one (1) LAN port.
5. Shall support power over ethernet (PoE) IEEE 802.3af.
6. Shall support Dante audio codec.
7. Shall support AES67 audio codec.
8. Shall support resolutions up to and including 3840 x 2160p or higher.
9. Shall be HDCP and AES compliant.
10. Shall come in double gang decora style form factor.
11. Coordinate color with architect prior to procurement.
12. Acceptable Manufacturers:
 - a. **Visionary Solutions DuetE5-WP**
 - b. Or Equal

2.6 AV DECODER TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall be capable of transmitting audio, video, and control over one (1) STP cable.
2. Shall have a minimum of one (1) HDMI output.
3. Shall have a minimum of one (1) LAN port.
4. Shall have GPIO, RS-232, and IR control connectivity options.
5. Shall have a minimum of one (1) analog stereo audio output.
6. Shall support power over ethernet (PoE) IEEE 802.3af.
7. Shall support AES67 audio codec.
8. Shall support resolutions up to and including 3840 x 2160p or higher.
9. Shall be HDCP and AES compliant.
10. Coordinate color with architect prior to procurement.
11. Acceptable Manufacturers:
 - a. Visionary Solutions D5100
 - b. Or Equal

2.7 AV DECODER TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall be capable of transmitting audio, video, and control over one (1) STP cable.
2. Shall have a minimum of one (1) HDMI output.
3. Shall have a minimum of two (2) USB device ports.
4. Shall have a minimum of one (1) USB-C output.
5. Shall have a minimum of one (1) LAN port.
6. Shall have GPIO, RS-232, and IR control connectivity options.
7. Shall have a minimum of one (1) analog stereo audio output.
8. Shall support power over ethernet (PoE) IEEE 802.3af.
9. Shall support AES67 audio codec.
10. Shall support resolutions up to and including 3840 x 2160p or higher.
11. Shall be HDCP and AES compliant.
12. Coordinate color with architect prior to procurement.
13. Acceptable Manufacturers:
 - a. Visionary Solutions D5200
 - b. Or Equal

2.8 AV DECODER TYPE 3

A. Shall meet or exceed the following specifications:

1. Shall be capable of transmitting audio, video, and control over one (1) STP cable.
2. Shall have a minimum of one (1) HDMI output.
3. Shall have a minimum of two (2) USB device ports.
4. Shall have a minimum of one (1) LAN port.
5. Shall have GPIO, RS-232, and IR control connectivity options.
6. Shall have a minimum of one (1) analog stereo audio output.
7. Shall support power over ethernet (PoE) IEEE 802.3af.
8. Shall support Dante audio codec.
9. Shall support AES67 audio codec.
10. Shall support resolutions up to and including 3840 x 2160p or higher.
11. Shall be HDCP and AES compliant.
12. Coordinate color with architect prior to procurement.
13. Acceptable Manufacturers:
 - a. Visionary Solutions DuetD-5
 - b. Or Equal

2.9 HDMI TO SDI CONVERTER

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of one (1) 12G-SDI input.
2. Shall have one (1) HDMI output.
3. Shall have an AC power supply.
4. Shall support resolutions up to and including 3840 x 2160p or higher.
5. Shall support EDID emulation up to UHD at 60 Hz.
6. Shall support 4:4:4 chroma subsampling rates.
7. Shall support HDR signals.
8. Shall be HDCP compliant.
9. Acceptable Manufacturers:
 - a. AJA
 - b. Or equal

2.10 HDMI TO SDI CONVERTER

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of one (1) HDMI input.
2. Shall have one (1) 12G-SDI output.
3. Shall have an AC power supply.
4. Shall support resolutions up to and including 3840 x 2160p or higher.
5. Shall support EDID emulation up to UHD at 60 Hz.
6. Shall support 4:4:4 chroma subsampling rates.
7. Shall support HDR signals.
8. Shall be HDCP compliant.
9. Acceptable Manufacturers:
 - a. AJA
 - b. Or equal

2.11 STREAMING CODEC

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of one (1) SDI input and one (1) SDI output.
2. Shall have a minimum of one (1) HDMI input and one (1) HDMI output.
3. Shall have a minimum of one (1) stereo audio input and one (1) stereo audio output.
4. Shall support ethernet control connectivity.
5. Shall encode up to 1080p at 60 Hz in H.264 or MPEG-4.
6. Shall be capable of streaming to a minimum of two (2) independent destinations simultaneously.
7. Shall support picture-in-picture streaming or recording.
8. Shall have web-based GUI.
9. Shall support RTP/UDP, RTSP, RTMP, RTMPS, HLS, and Unicast.
10. Shall support data rates up to 20 Mbps or more.
11. Shall support recording and storage to SD, SDHC, SDXC, USB, NFS, CIFS, and SMB
12. Shall be 1RU rack mountable.
13. Acceptable Manufacturers:
 - a. AJA HELO Plus
 - b. Or equal

2.12 AV BRIDGE

A. Shall meet or exceed the following specifications:

1. Shall support resolutions up to and including 1920x1080p.
2. Shall be capable of routing signal from USB 2.0 devices.
3. Shall have a minimum of one (1) HDMI input.
4. Shall have a minimum of one (1) USB 2.0 host type B port.
5. Shall have R-232 control.
6. Shall allow the integration of pro audio and video equipment into PC software.
7. Shall provide ability to integrate soft codecs such as Skype, Cisco Jabber, Microsoft Lync, etc.
8. Shall allow video and audio to be captured and be live streamed to an owner approved streaming platform.
9. Acceptable Manufacturers:
 - a. Extron MediaPort 200
 - b. Or Equal

2.13 BLU-RAY PLAYER

A. Shall meet or exceed the following specifications:

1. Shall support resolutions up to and including 1920x1080p.
2. Shall have a minimum of one (1) HDMI output.
3. Shall have a minimum of one (1) balanced stereo line level output.
4. Shall support industry standard Blu-ray, DVD, and CD formats.
5. Shall support industry standard file formats and file systems.
6. Shall be RS-232 controllable from the touch panel.
7. Shall be rack mountable.
8. Acceptable Manufacturers:

- a. Denon Pro DN-500BD MKII
- b. Or Equal

2.14 MEDIA PLAYER

A. Shall meet or exceed the following specifications:

- 1. Shall support industry standard CD, WAV, MP3, and AAC file formats.
- 2. Shall support Bluetooth connectivity.
- 3. Shall include tempo control.
- 4. Shall support playback from AV network connected devices.
- 5. Shall be RS-232 controllable.
- 6. Shall be rack mountable.
- 7. Acceptable Manufacturers:
 - a. Denon Pro DN-700CB
 - b. Or equal

2.15 AV NETWORK SWITCH

A. Shall meet or exceed the following specifications:

- 1. Shall have quantity of ethernet (RJ45) and 1000/10GBASE-X SFP+ ports required to support audio-visual systems shown on the T-series drawings.
- 2. Shall be manageable.
- 3. Shall support a minimum of power over ethernet type 2 (PoE+) IEEE 802.3at.
- 4. Shall be 1RU rack mountable.
- 5. Acceptable Manufacturers:
 - a. Netgear M4250 Series
 - b. Or equal

2.16 AV CONTROL PANEL TYPE 1

A. Shall meet the following specifications:

- 1. Shall have one (1) RS-232 or one (1) IR control port compatible with FLAT PANEL DISPLAY.
- 2. Shall control the following functionality: volume up/down, source selection, and system power on/off.
- 3. Shall have a minimum of eight (8) programmable buttons.
- 4.
- 5. Acceptable Manufacturers:
 - a. Extron MLC 62 RS D
 - b. Or equal

2.17 AV CONTROL PANEL TYPE 2

A. Shall meet the following specifications:

- 1. Shall be compatible with Mac and Windows OS.

2. Shall have a minimum of one (1) USB 2.0 interface.
3. Shall have a minimum of fifteen (15) customizable LCD keys.
4. Provide compatible desktop stand
5. Shall offer control plug-ins for the following but not limited to: YouTube, Twitch, Discord, OBS Studio, etc.
6. Acceptable Manufacturers:
 - a. Elgato Stream Deck MK.2
 - b. Or equal

2.18 TOUCH PANEL

A. Shall meet the following specifications:

1. Shall have ethernet monitoring and control.
2. Shall have a capacitive touch screen interface.
3. Shall have a resolution of 1920x1200.
4. Shall be 10.1" diagonal.
5. Shall have a contrast ratio of 800:1.
6. Provide all necessary hardware and brackets required for installation as shown on the T-series drawings.
7. Confirm color with architect.
8. Acceptable Manufacturers:
 - a. Q-SYS TSC-101-G3
 - b. Q-SYS TSC-710T-G3 for MAIN GYM
 - c. Or equal

2.19 WIRELESS CONTROLLER

A. Shall meet the following specifications:

1. Shall have a minimum 10" diagonal screen.
2. Shall have a minimum resolution of 1920 x 1080.
3. Shall support capacitive touch interface.
4. Shall support Q-SYS control application. Contractor shall be responsible for providing and configuring control applications.
5. Shall communicate wirelessly with AV control system.
6. Acceptable Manufacturers:
 - a. Apple
 - b. iPort Luxeport Case compatible with wireless controller
 - c. iPort Luxeport BaseStation compatible with case
 - d. Or Equal

2.20 GAME CAPTURE

A. Shall meet or exceed the following specifications:

1. Shall support resolutions up to and including 3840x2160.
2. Shall have a minimum of one (1) HDMI capture input.
3. Shall have a minimum of one (1) USB 3 device port.
4. Shall have a minimum of one (1) HDMI passthrough.
5. Shall support refresh rates up to 144 fps at 4K resolutions for HDMI passthrough and HDMI capture.

6. Shall support HDR content.
7. Acceptable Manufacturers:

- a. Elgato 4K X
- b. Or equal

2.21 AV CAMERA TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall support resolutions up to and including 3840x2160.
2. Shall have a minimum of one (1) SDI output.
3. Shall have a minimum of one (1) USB device port.
4. Shall have a minimum of one (1) HDMI output.
5. Shall have a minimum of one (1) RS-232 or RS-485 control port.
6. Shall have a minimum of one (1) NDI output.
7. Shall have a 12x optical zoom with auto focus.
8. Shall have a 70°H by 40°V field of view
9. Shall have a minimum pan range of $\pm 170^\circ$ and tilt range of $+90/-30^\circ$
10. Procure and install all necessary hardware and accessories according to the T-series drawings.
11. Confirm color and finish with architect prior to procurement.
12. Acceptable Manufacturers:
 - a. PTZOPTICS PT12X-4K
 - b. Or Equal

2.22 AV CAMERA TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall support resolutions up to and including 3840x2160.
2. Shall have a minimum of one (1) SDI output.
3. Shall have a minimum of one (1) USB 3 port.
4. Shall have a minimum of one (1) HDMI output.
5. Shall have a minimum of one (1) RS-485 control port.
6. Shall have a minimum of one (1) NDI output.
7. Shall have a 20x optical zoom with auto focus.
8. Shall have a 60°H by 30°V field of view
9. Contractor shall procure and install all necessary hardware and accessories required for complete and functional system.
10. Confirm color and finish with architect prior to procurement.
11. Acceptable Manufacturers:
 - a. PTZOPTICS PT20X-STUDIO-4K
 - b. Or Equal

2.23 AV CAMERA CONTROL PANEL

A. Shall meet the following specifications:

1. Shall have RS-232 or RS-485 control option.
2. Shall have ethernet control option.
3. Shall be capable of being powered via PoE type 2 (PoE+) IEEE 802.3at.
4. Shall control AV CAMERA TYPE 1 and AV CAMERA TYPE 2.

5. Confirm color and finish with architect prior to procurement.
6. Acceptable Manufacturers:
 - a. PT-JOY-G4
 - b. Or Equal

2.24 VIDEO PROJECTOR TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall support a native resolution of 1920x1200.
2. Shall accept a minimum of one (1) HDMI input.
3. Shall provide a minimum output of 10,000 lumens.
4. Shall be RS-232 controllable.
5. Provide lens as required based on aspect ratio and distance to screen.
6. Provide all mounts and associated mounting accessories required.
7. Confirm final color and finish with Architect.
8. Acceptable Manufacturers:
 - a. Epson Pro EB-PU2010
 - b. Or Equal

2.25 FLAT PANEL DISPLAY

A. Shall meet or exceed the following specifications:

1. Shall support resolutions up to and including 3840x2160p, 60 Hz.
2. Shall be LED Backlit.
3. Shall have a minimum contrast ratio of 4000:1.
4. Shall have a minimum brightness of 400 cd/m²
5. Shall be RS-232 controllable.
6. Shall be commercial grade. Consumer grade displays are not acceptable.
7. Shall have integrated smart TV app compatibility (i.e. youtube app).
8. "MON" (Monitor locations within the T-series drawings) displays shall be 18/5 rated.
9. "DS" (Digital Signage locations within the T-series drawings) displays shall be 24/7 rated.
10. Reference T-series drawings for display sizes.
11. Reference AV diagrams for locations where panels are to be installed.
12. Acceptable Manufacturers:
 - a. Samsung
 - b. LG
 - c. Sony
 - d. Panasonic
 - e. Or equal

2.26 FLAT PANEL DISPLAY WALL MOUNT

A. Shall meet or exceed the following specifications:

1. Shall support weight of associated display.
2. Shall be non-articulating mount.
3. Shall have an adjustable tilt of -5 or +20 degrees.
4. Shall provide access to backbox without removing mount.
5. Mount shall be selected to ensure total depth of flat panel display and mount does not exceed 4" from the wall.

6. Provide all mounting hardware and accessories as required by the T-series drawings and manufacturer recommendations.
7. Acceptable Manufacturers:
 - a. Chief
 - b. Peerless-AV
 - c. AvTeq
 - d. Or equal

2.27 CEILING RECESSED ELECTRIC PROJECTION SCREEN

- A. Contractor shall provide ceiling recessed electric projection screens properly sized as shown on the T-series drawings.
- B. Shall meet or exceed the following specifications:
 1. Reference T-series drawings for required screen sizes.
 2. Screen surface material shall be white.
 3. Screen material shall have a minimum gain of 1.0.
 4. Screen shall have a minimum 2" black border.
 5. Shall provide relay output for control.
 6. Shall be tab-tensioned.
 7. Provide and install necessary hardware to ceiling-mount screen
 8. Acceptable Manufacturers:
 - a. Draper Access V
 - b. Da-Lite
 - c. Or equal

2.28 **VIDEO** MONITOR (TV STUDIO)

- A. Shall meet or exceed the following specifications:
 1. Shall support resolutions up to and including 3840x2160p.
 2. Shall have a minimum of two (2) HDMI inputs.
 3. Shall have a minimum of one (1) DisplayPort input.
 4. Shall have a minimum of one (1) USB-C port.
 5. Shall have a minimum of one (1) 3.5 mm stereo headphone output.
 6. Shall be a minimum 100x100mm VESA compatible.
 7. Shall have a minimum contrast ratio of 1300:1.
 8. Shall have a minimum brightness of 350 cd/m²
 9. Refer to the T-series TV studio furniture elevations for all TV studio **video** monitor locations. **Contractor shall procure and install four (4) video monitors for the RADIO STUDIO TABLE in Radio R109.2**
 10. Acceptable Manufacturers:
 - a. **ViewSonic VP3268a-4K**
 - b. Or equal

2.29 BROADCAST REFERENCE MONITOR TYPE 1 (TV STUDIO)

- A. Shall meet or exceed the following specifications:
 1. Shall support resolutions up to and including 3840x2160p.

2. Shall have a minimum of two (2) SDI inputs and two (2) SDI outputs.
3. Shall have a minimum of one (1) HDMI input.
4. Shall be equipped with but not limited to the following: in-monitor audio level metering, selectable video vectorscope or histogram, aspect ratio markers, tally, color bars.
5. Shall be capable of saving up to eight (8) scenes.
6. Shall have built-in speakers and a headphones output.
7. Shall have a minimum contrast ratio of 1000:1.
8. Shall have a minimum brightness of 1000 cd/m²
9. Shall have RS-422 control connectivity.
10. Refer to the T-series TV studio furniture elevations for all broadcast reference monitor type 1 locations.
11. Acceptable Manufacturers:
 - a. Wohler vMON-240-4K+
 - b. Or equal

2.30 BROADCAST REFERENCE MONITOR TYPE 2 (TV STUDIO)

A. Shall meet or exceed the following specifications:

1. Shall be 3 RU rack mountable. Shall have two (2) 8" LCD screens.
2. Shall support resolutions up to and including 3840x2160p.
3. Shall have a minimum of two (2) SDI inputs and one (1) SDI output per screen.
4. Shall have a minimum of one (1) HDMI input.
5. Shall be equipped with but not limited to the following: in-monitor audio level metering, selectable video vectorscope or histogram, aspect ratio markers, tally, color bars.
6. Shall have built-in speakers and headphones outputs.
7. Shall have a minimum contrast ratio of 900:1.
8. Shall have a minimum brightness of 290 cd/m²
9. Shall have RS-422 control connectivity.
10. Refer to the T-series TV studio furniture elevations for all broadcast reference monitor type 2 locations.
11. Acceptable Manufacturers:
 - a. Wohler vMON-3280-4K
 - b. Or equal

2.31 RASTERIZER (TV STUDIO)

A. Shall meet or exceed the following specifications:

1. Shall support up to 4K resolutions, formats, and frame rates.
2. Shall have a minimum of four (4) SDI inputs with loop through output.
3. Shall have ethernet control.
4. Shall have a minimum of two (2) Display Port outputs.
5. Shall have a minimum of two (2) USB device ports.
6. Shall have GPIO connectivity.
7. Shall provide wide color gamut, color management, and high dynamic range tools for camera shading applications.
8. Shall allow access to standard software applications including but not limited to: waveform display, vector display, diamond display, lightning display, picture display, video session, audio display, event log, timing display, and external reference display.
9. Acceptable Manufacturers:

- a. Telestream Prism MPP-100
- b. Or equal

2.32 MASTER SYNC GENERATOR (TV STUDIO)

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of four (4) SFP slots for IP and PTP applications.
2. Shall have a built-in dual-band GNSS receiver.
3. Shall have a minimum of four (4) multi-rate SDI test signal outputs.
4. Shall have a minimum of six (6) BNC black outputs.
5. Shall have GPIO connectivity.
6. Shall have ethernet control.
7. Shall have linear timecode (LTC) output.
8. Shall provide precise timing for SDI and IP.
9. Shall support up to 4K resolutions, formats, and frame rates.
10. Shall have a word clock and digital audio reference sync (DARS) output.
11. Acceptable Manufacturers:

- a. Telestream SPG9000
- b. Or equal

2.33 VIDEO RECORDER (TV STUDIO)

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of one (1) SDI and one (1) HDMI input.
2. Shall have a minimum of two (2) SDI and one (1) HDMI outputs.
3. Shall have a minimum of one (1) SDI monitor outputs.
4. Shall support up to 4K resolutions, formats, and frame rates.
5. Shall have RS-422 control port.
6. Shall have ethernet control.
7. Shall have time code and video reference connections.
8. Shall have one (1) USB-C port.
9. Acceptable Manufacturers:

- a. BlackMagic Design HyperDeck Studio 4K Pro
- b. Or equal

2.34 BROADCAST VIDEO CAMERA (TV STUDIO)

A. Shall meet or exceed the following specifications:

1. Shall support formats, resolutions, and frame rates up to and including 4K UHD.
2. Shall have a minimum of one (1) triax or electrical optical connection to BROADCAST VIDEO CAMERA CONTROL UNIT.
3. Shall have a minimum of two (2) SDI inputs.
4. Shall have a minimum of two (2) SDI outputs for teleprompter and talent monitors.
5. Shall have one (1) genlock input.
6. Shall accept B4 lenses.
7. Shall have a 2/3 inch type 4K CMOS sensor with global shutter.
8. Shall have four (4) density ND filters.
9. Shall have servo-controlled ND and CC filters.
10. Shall have one (1) 1G LAN port.
11. Shall have viewfinder connection

12. Shall have two (2) balanced microphone or line level XLR inputs.
13. Shall have one (1) 5-pin XLR for intercom headset.
14. Shall have a minimum of one (1) remote control port.
15. Provide compatible BROADCAST VIDEO CAMERA LENS.
16. Provide compatible viewfinder.
17. Acceptable Manufacturers:
 - a. Sony HDC-3500
 - b.
 - c. Sony HKC-FB30
 - d. Sony VCT-14
 - e. Sony HDVF-EL70
 - f. Or equal

2.35 BROADCAST VIDEO CAMERA CONTROL UNIT (TV STUDIO)

A. Shall meet or exceed the following specifications:

1. Shall support formats, resolutions, and frame rates up to and 1920x1080p.
2. Shall be capable of expanding to support 4K formats, resolutions, and frame rates.
3. Shall have a minimum of one (1) triax or electrical optical connection to BROADCAST VIDEO CAMERA.
4. Shall have a minimum of four (4) SDI inputs.
5. Shall have a minimum of four (4) SDI outputs.
6. Shall have a minimum of one (1) SDI input for teleprompter.
7. Shall have a minimum of one
8. Shall have one (1) genlock input.
9. Shall intercom, tally, and GPIO connectivity.
10. Shall have ethernet control connectivity.
11. Procure and install compatible remote control panel via ethernet or proprietary remote control port. Coordinate with CONTROL ROOM FURNITURE manufacturer to install remote control panels in furniture as detailed in the TV studio furniture elevation.
12. Acceptable Manufacturers:
 - a. Sony HDCU-3500
 - b. Sony RCP-3100
 - c. Or equal

2.36 BROADCAST VIDEO CAMERA LENS (TV STUDIO)

A. Shall meet or exceed the following specifications:

1. Shall support formats, resolutions, and frame rates up to and including 4K UHD.
2. Shall be compatible with BROADCAST VIDEO CAMERA.
3. Shall have a minimum 7.6 to 175mm servo lens.
4. Shall have a minimum 23x zoom ratio.
5. Shall have a minimum object distance of 0.8m
6. Shall have a minimum angular field of view of 64.5°x39° at 7.6mm and 3.1°x1.8° at 175mm.
7. Shall procure and install compatible full servo remote control kits.
8. Acceptable Manufacturers:
 - a. Fujinon UA23X7.6BERD, Fujinon SS-15D
 - b. Canon CJ25EX7.6B, Canon SS-41-IASD
 - c. Or equal

2.37 BROADCAST VIDEO CAMERA PEDESTAL

A. Shall meet or exceed the following specifications:

1. Shall support equipment loads up to 165 pounds at 125 psi.
2. Shall be pneumatic construction.
3. Pedestal shall be secured to a dolly.
4. Shall have a six position track lock.
5. Shall have foot operated brake.
6. Shall have cable guards
7. Provide compatible fluid head
8. Provide compatible telescopic pan bar and tie down knob.
9. Provide pedestal adapter to accommodate BROADCAST VIDEO CAMERA.
10. Provide hand pump.
11. Acceptable Manufacturers:
 - a. Cartoni P70 HP
 - b. Cartoni Master 40
 - c. Cartoni AH844/M, AH925
 - d. Cartoni AP866
 - e. Or equal

2.38 VIDEO PRODUCTION ENGINE (TV STUDIO)

A. Shall meet or exceed the following specifications:

1. Shall support formats, resolutions, and frame rates up to and including 4K UHD.
2. Shall be modular with a minimum of nine (9) available slots for input and output processing cards.
3. Shall be capable of signal processing, routing, and production switching.
4. Video matrix shall be capable of up to 160x160.
5. Audio matrix shall be capable of up to 3545x3546.
6. Shall be no more than 5RU.
7. Shall provide up to eighteen (18) multiviewer outputs.
8. Shall provide up to one hundred sixty (160) 3Gb/s input frame syncs and seventy-two (72) UHD input frame syncs.
9. Shall include single mode fiber optic, 12G-SDI, Dante, NDI, MADI, and ethernet control connectivity as required by the T-series drawings.
10. Shall include all applicable licenses and software.
11. Provide all control panels and switchers required for a complete and functional system and the T-series drawings.
12. Shall include redundant power supply.
13. Acceptable Manufacturers:
 - a. Ross ULTRIX-NS-FR5
 - b. Ross SWR-SDPE
 - c. Ross ULTRIX-MOD-SFP
 - d. Ross ULTRIX-MODX-IO
 - e. Ross ULTRIX-HDX-IO
 - f. Ross ULTRIMIX-DANTE
 - g. Ross ULTRIX-MOD-NDI
 - h. Ross SFP-RJ45-1G
 - i. Ross SFP-FIBER-12G
 - j. Ross SFP-MADI-1310SM
 - k. Ross ULTRIPower-PS

- l. Ross ULTRIPower
- m. Ross SWR-SDPE
- n. Ross CUF-PSU
- o. Ross ULTRITOUCH-PS
- p. Ross ULTRITOUCH-2-HR
- q. Ross TD-TOUCHSCREEN
- r. Ross TD3S-PANEL
- s. Ross RCP-ME
- t. Ross RCP-QE36
- u. Ross ULTRISYNC
- v. Ross ULTRISCAPE
- w. Ross CUFR-ADD-FSFC
- x. Ross CUFR-ADD-ME1
- y. Ross CUFR-ADD-ME2
- z. Ross ULTRIX-IO-BAF
- aa. Ross ULTRIX-MACD-BAF
- bb. Ross CUFR-DOCKIT
- cc. Or equal

2.39 TERMINAL GEAR (TV STUDIO)

A. Shall meet or exceed the following specifications:

- 1. Shall be modular with a minimum of twenty (20) available slots for input and output processing cards.
- 2. Shall include the amount of sync pulse generator cards required by the T-series drawings.
- 3. Shall include TELEPROMPTER SYSTEM card.
- 4. Shall include analog video DA as required for a complete and functional system and the T-series drawings.
- 5.
- 6. Shall include SDI re-clocking DA as required for a complete and functional system and the T-series drawings.
- 7. Shall include a minimum of four (4) TELEPROMPTER SYSTEM SDI outputs and all license(s) required to interface with the TELEPROMPTER SYSTEM software.
- 8. Shall include all applicable licenses and software required by the T-series drawings.
- 9. Shall include redundant power supply.
- 10. Acceptable Manufacturers:
 - a. openGear OGX-FR-CN
 - b. openGear SPG-8260-W-R2S
 - c. openGear UDA-8705A-R2L
 - d. openGear SRA-8802-R2
 - e. openGear CSOGP
 - f. openGear PS-OGX
 - g. openGear FSB-OGX
 - h. Or equal

2.40 REPLAY SYSTEM (TV STUDIO)

A. Shall meet or exceed the following specifications:

- 1. Shall support formats, resolutions, and frame rates up to and including 4K UHD.
- 2. Shall have a minimum of one (1) Display Port output.
- 3. Shall have a minimum of two (2) USB device ports.

4. Shall include a minimum of eight (8) channels of video input and eight (8) channels of video output.
5. Shall have one (1) genlock input.
6. Shall have a minimum of two (2) quad view outputs.
7. Shall have a minimum of two hundred forty (240) hours of media storage.
8. Shall be native AVC-I.
9. Shall include all applicable licenses and software required by the T-series drawings.
10. Shall be remotely controlled.
11. Shall be capable of slow motion camera record.
12. Provide compatible control surface and PoE injector to power control surface as required.
13. Acceptable Manufacturers:
 - a. Ross MIRA+-AVC-8-03-HW
 - b. Ross MIRA+-8CH-SW
 - c. Ross MIRA-CS-X
 - d. Or equal

2.41 NEWS GATHERING SERVER (TV STUDIO)

- A. Shall meet or exceed the following specifications:
1. Shall be controllable by a remote keyboard and mouse.
 2. Shall provide license allowing integration of social media platforms.
 3. Shall be compatible with TELEPROMPTER SYSTEM control hardware.
 4. Shall provide a minimum of ten (10) client licenses.
 5. Provide all applicable licenses and software required by the T-series drawings including the TELEPROMPTER SYSTEM software.
 6. Acceptable Manufacturers:
 - a. Ross INC-HW-SERVER-G5-W-SE
 - b. Ross INC-SW-NEWS-EDU
 - c. Ross INC-EXP-SOCIAL-INCL
 - d. Ross INC-EXP-MOS-CUE-INCL
 - e. Ross INC-SW-CUEIT
 - f. Ross INC-HW-CUE-HAND
 - g. Ross INC-EXP-USER-EDU-INCL
 - h. Ross INC-EXP-USER-EDU
 - i. Or equal

2.42 GRAPHICS SYSTEM (TV STUDIO)

- A. Shall meet or exceed the following specifications:
1. Shall have a minimum of one (1) Display Port output.
 2. Shall have a minimum of two (2) USB device ports.
 3. Shall have a minimum of four (4) HD-SDI outputs or one (1) quad-link 4K video output.
 4. Shall have one (1) genlock input.
 5. Shall be ethernet controlled.
 6. Provide all applicable licenses and software required by the T-series drawings.
 7. Shall provide manufacturer recommended graphics package.
 8. Shall provide manufacturer recommended editing keyboard.
 9. Provide a minimum of five (5) software licenses.
 10. Acceptable Manufacturers:
 - a. Ross XPN-1RU-M9

- b. Ross XST-DLQ-EDU
- c. Ross XDS0-0001-EDU
- d. Ross XPN-KBD
- e. Ross CTS-CS-XPN-PKG
- f. Or equal

2.43 TELEPROMPTER SYSTEM (TV STUDIO)

A. Shall meet or exceed the following specifications:

1. Shall have ethernet interface to teleprompter software.
2. Shall provide a minimum of four (4) SDI outputs.
3. Shall be compatible with TERMINAL GEAR FRAME.
4. Provide a minimum 24" diagonal TALENT MONITOR with one (1) SDI input, one (1) USB device port, 1000:1 contrast ratio and 1500 nit with a native resolution of 1920x180.
5. Provide a minimum 19" diagonal TELEPROMPTER MONITOR with one (1) SDI input, one (1) USB device port, 1000:1 contrast ratio and 1500 nit with a native resolution of 1280x1024.
6. Provide compatible teleprompter hood.
7. Provide compatible time display. Shall be able to display LTC, VITC SMPTE, and D-VITC SMPTE timecode formats. Shall be able to display 12 hour and 24 hour time. Shall be fed from USB device port on talent monitor.
8. Provide compatible cue light display. Shall be able to display double digit alphanumerics. Shall be fed from USB device port on teleprompter monitor.
9. Provide operator hand controller. Shall be capable of communicating with the teleprompter software via ethernet.
10. Provide all mounting hardware and accessories as required by the T-series drawings and manufacturer recommendations.
11. Acceptable Manufacturers:
 - a. openGear CSOGP
 - b. CueScript CSMV219
 - c. CueScript TM24
 - d. CueScript CSTD
 - e. CueScript CSCN
 - f. CueScript CSSC
 - g. CueScript CSTMML
 - h. CueScript CSHM
 - i. Or equal

2.44 REMOTE PRODUCTION BROADCAST VIDEO CAMERA (REMOTE PRODUCTION KIT)

A. Shall meet or exceed the following specifications:

1. Shall support formats, resolutions, and frame rates up to and including 4K UHD.
2. Shall have a minimum of one (1) SDI output.
3. Shall have a minimum of one (1) HDMI output.
4. Shall have a minimum of one (1) USB-C port.
5. Shall have ethernet control.
6. Shall have one (1) genlock input.
7. Shall have a minimum of one (1) SD card slot.
8. Shall have a 15x optical zoom with auto focus.
9. Shall have a 9-blade iris.
10. Shall have optical image stabilization.
11. Shall have independent 3-density ND filter.

12. Shall have a minimum of one (1) remote control terminal.
13. Provide compatible shotgun microphone with built-in pop filter or windscreen.
14. Provide compatible 90Wh lithium-ion battery.
15. Provide compatible professional stereo monitor headphones with closed ear design.
16. Provide compatible tripod with fluid head per broadcast video camera. Camera tripod shall support the total weight of the broadcast video camera and all required mounting hardware and accessories.
17. Provide one (1) omnidirectional dynamic microphone with built-in pop filter or windscreen.
18. Provide one (1) plug-on wireless transmitter that accepts microphone or line level signals.
19. Provide one (1) digital stereo portable wireless receiver compatible with plug-on wireless transmitter. Contractor shall procure all required mounting hardware and accessories.
20. Contractor shall procure a custom-fitted hard case for broadcast video camera and all required accessories.
21. Acceptable Manufacturers:
 - a. Canon XF605, Shure VP82, Canon BP-A60
 - b. Panasonic AG-CX370, Panasonic AG-MC200G, Panasonic AG-VBR118G
 - c. Sony PXW-Z280, Rode NTG1, Sony BP-U90
 - d. VariZoom VZROCK
 - e. Sony MDR-7506
 - f. Manfrotto MVH502A, 546B
 - g. Electro-Voice RE50B
 - h. Lectrosonics DPR-A
 - i. Lectrosonics DCHR, MCDTA5XLRM
 - j. Or equal

2.45 REMOTE PRODUCTION VIDEO SYSTEM (REMOTE PRODUCTION KIT)

A. Shall meet or exceed the following specifications:

1. Shall have one (1) PowerCON TRUE1 20 amp inlet and one (1) PowerCON TRUE1 20 amp outlet.
2. Shall have a minimum of five (5) NEMA 5-15R outlets.
3. Shall have 15 amp hydraulic and magnetic circuit breaker.
4. Shall have surge suppression.
5. Shall have EMI filtering.
6. Shall have quantity of ethernet (RJ45) and 1000/10GBASE-X SFP+ ports required to support audio-visual systems shown on the T-series drawings.
7. AV network switch shall be manageable.
8. Shall support a minimum of power over ethernet type 2 (PoE+) IEEE 802.3at.
9. Provide roto molded LLDPE 4RU rack.
10. Provide one (1) two (2) channel single mode LC fiber to SDI receiver per mobile video equipment rack.
11. Provide one (1) two (2) channel SDI to single mode LC fiber transmitter per mobile video equipment rack.
12. Provide one (1) single mode LC fiber and SDI transceiver per mobile video equipment rack.
13. Acceptable Manufacturers:
 - a. Whirlwind PLR-PS1T
 - b. Netgear M4250 Series
 - c. SKB 1SKB-R4U
 - d. AJA FIDO-2R
 - e. AJA FIDO-2T
 - f. AJA FIDO-TR

g. Or equal

2.46 REMOTE PRODUCTION AUDIO SYSTEM (REMOTE PRODUCTION KIT)

A. Shall meet or exceed the following specifications:

1. Shall have one (1) PowerCON TRUE1 20 amp inlet and one (1) PowerCON TRUE1 20 amp outlet.
2. Shall have a minimum of five (5) NEMA 5-15R outlets.
3. Shall have 15 amp hydraulic and magnetic circuit breaker.
4. Shall have surge suppression.
5. Shall have EMI filtering.
6. Shall have quantity of ethernet (RJ45) and 1000/10GBASE-X SFP+ ports required to support audio-visual systems shown on the T-series drawings.
7. AV network switch shall be manageable.
8. Shall support a minimum of power over ethernet type 2 (PoE+) IEEE 802.3at.
9. Provide Dante to analog audio inputs as required by the T-series drawings.
10. Provide Dante to analog audio outputs as required by the T-series drawings.
11. Provide WIRELESS IFB SYSTEM transmitter and receiver.
12. Provide one (1) ANNOUNCER CONSOLE per mobile audio equipment rack.
13. Provide 12RU shock protection, 20" usable depth, standard 19" mounting rail rack, and 4" casters (two (2) locking casters).
14. Provide two (2) compatible 2RU rack drawers.
15. Acceptable Manufacturers:
 - a. Whirlwind PLR-PS1T
 - b. Netgear M4250 Series
 - c. Lectrosonics IFBT4
 - d. Lectrosonics IFBlue
 - e. Audinate ADP-DAI-AU-2X0
 - f. Audinate ADP-DAO-AU-0X2
 - g. ProX T-12RSP
 - h. Or equal

2.47 SINGLE SIDED ON-AIR LIGHT (TV STUDIO)

A. Shall meet the following specifications:

1. Shall read "ON AIR" in capital lettering.
2. Shall be wall mountable.
3. Shall light up when activated. Refer to AV diagrams for wiring requirements.
4. Lights and color shall be blue.
5. Include power supplies that shall provide required amperage for operation.
6. Include white cover base plate to mount over single gang box.
7. Acceptable Manufacturers:
 - a. Titus Labs HPL Series On-Air Light with Extron PS Series Power Supply
 - b. Or equal

2.48 CONTROL ROOM FURNITURE (TV STUDIO)

A. Shall meet or exceed the following specifications:

1. Shall be fixed height.
2. Shall be custom dimensions as required by the T-series drawings.

3. Shall have full cable core to accommodate electrical, AV cabling, and converters required by the T-series drawings.
4. Shall have integrated electrical outlets required to serve furniture mounted equipment.
5. Shall have integrated 4RU 45 degree turrets required to mount AV equipment.
6. Shall include desktop PDUs with a minimum of two (2) electrical outlets and two (2) USB ports.
7. Shall include mounting arm and pole to support the weight of the audio workstation loudspeakers.
8. Acceptable Manufacturers:
 - a. Time Base Corporation
 - b. Or equal

2.49 RADIO STUDIO TABLE

A. Shall meet the following specifications:

1. Shall accommodate up to four seats.
2. Shall include standard boom microphone knockouts for all seats.
3. Shall include cabling pass thru within table for discrete cable management.
4. Confirm final finish and color options with architect prior to procurement.
5. Shall provide a quantity of one (1) table.
6. Acceptable Manufacturers:
 - a. Time Base Corporation
 - b. AKA Design ProVoice V4
 - c. Or equal

2.50 WIRELESS AUDIO TRANSMITTER

A. Shall meet or exceed the following specifications:

1. Shall be capable of accepting analog audio input via XLR or 1/4" connectors.
2. Shall be capable of transmitting audio signals up to 100 feet.
3. Shall have integrated external articulating antenna.
4. Shall be mountable to the rear of a display or cart.
5. Acceptable Manufacturers:
 - a. Denon DN-202WT
 - b. Or equal

2.51 WIRELESS AUDIO RECEIVER

A. Shall meet or exceed the following specifications:

1. Shall be capable of receiving audio signals from the transmitter up to 100 feet.
2. Shall be capable of outputting analog audio via XLR or 1/4" connectors.
3. Shall have integrated external articulating antenna.
4. Shall be rack mountable.
5. Acceptable Manufacturers:
 - a. Denon DN-202WR
 - b. Or Equal

2.52 BLUETOOTH INTERFACE

A. Shall meet or exceed the following specifications:

1. Shall provide Bluetooth connectivity.
2. Shall support playback of WAV, MP3, and AAC files.
3. Shall have sync push button.
4. Shall sum stereo audio to one (1) mono output.
5. Shall be capable of transmitting one channel of audio over one (1) STP cable.
6. Shall have one (1) twisted pair pass through.
7. Shall be capable of daisy-chaining up to three compatible modules
8. Shall be compatible with AUDIO RECEIVER.
9. Shall come in single gang decora style form factor.
10. Confirm color and finish with architect prior to procurement.
11. Acceptable Manufacturers:
 - a. RDL D-BT1A
 - b. Or Equal

2.53 AUDIO TRANSMITTER

A. Shall meet or exceed the following specifications:

1. Shall have one (1) 3.5 mm stereo line level input summed to one (1) mono output.
2. Shall have one (1) XLR microphone level input.
3. Shall be capable of transmitting two channels of audio over one (1) STP cable.
4. Shall have one (1) twisted pair pass through.
5. Shall be capable of daisy-chaining up to three compatible modules.
6. Shall be compatible with AUDIO RECEIVER.
7. Shall come in single gang decora style form factor.
8. Confirm color and finish with architect prior to procurement.
9. Acceptable Manufacturers:
 - a. RDL D-TPS2AM
 - b. Or Equal

2.54 AUDIO RECEIVER

A. Shall meet or exceed the following specifications:

1. Shall be capable of receiving three channels of audio over one (1) STP input.
2. Shall have a minimum of three (3) balanced mono analog audio outputs.
3. Local power shall be capable of powering all connected modules over one (1) STP cable.
4. Contractor shall procure and install compatible power supply as required.
5. Shall be compatible with BLUETOOTH INTERFACE and AUDIO TRANSMITTER.
6. Acceptable Manufacturers:
 - a. RDL TX-TPR3A
 - b. Or Equal

2.55 ANNOUNCER CONSOLE

A. Shall meet or exceed the following specifications:

1. Shall have 2x2 channels of Dante audio routing.
2. Shall have a minimum of one (1) balanced microphone level XLR input.
3. Shall have a minimum of one (1) balanced microphone level XLR output.
4. Shall have one (1) main and one (1) talkback channel.
5. Shall have a two (2) channel balanced line level stereo headphones output.
6. Shall be capable of being powered via PoE type 2 (PoE+) IEEE 802.3af.
7. Shall have a minimum of two (2) remote control inputs.
8. Shall have a tally function.
9. Buttons shall be configured according to the T-series drawings.
10. Acceptable Manufacturers:
 - a. Stage Technologies M204
 - b. Or equal

2.56 ANNOUNCER HEADSET

A. Shall meet or exceed the following specifications:

1. Shall be closed-back, supra-aural earcups.
2. Shall have supercardioid dynamic microphone.
3. Shall have adjustable headband.
4. Microphone shall pivot up to 270 degrees.
5. Shall have single sided detachable XLR and 1/4" cable.
6. Shall include replaceable ear pads and microphone windscreen.
7. Acceptable Manufacturers:
 - a. Shure BRH50M
 - b. Or equal

2.57 **BROADCAST STEREO MONITOR HEADPHONES**

A. **Shall meet or exceed the following specifications:**

1. **Shall have dynamic closed-ear design.**
2. **Shall have folding construction.**
3. **Shall have gold-plated connectors.**
4. **Shall have 3.5 mm (1/8") to 6.3 mm (1/4") adapter.**
5. **Shall have a minimum 9 foot cord length.**
6. **Shall have a minimum sensitivity of 106 dBWm.**
7. **Shall have a minimum power handling of 1,000 mW.**
8. **Shall include protective carry pouch.**
9. **Acceptable Manufacturers:**
 - a. **Sony MDR-7506**
 - b. **Or equal**

2.58 RADIO PODCAST MICROPHONE

A. Shall meet or exceed the following specifications:

1. Shall have cardioid dynamic microphone.
2. Shall have a frequency response of 50Hz to 16000Hz
3. Shall have balanced microphone level XLR output.
4. Shall have 5/8"-27 thread mount.

5. Shall have all-metal construction.
6. Provide four (4) factory terminated twenty-five (25) foot **and four (4) factory terminated ten (10) foot XLR cables. One of each shall be procured and installed at each RADIO PODCAST MICROPHONE location. Refer to the T-series AV diagrams for additional routing and connectivity requirements.**
7. Microphone shall pivot up to 270 degrees.
8. Shall have single sided detachable XLR and 1/4" cable.
9. Shall include replaceable ear pads and microphone windscreen.
10. Provide desk mounted boom arm.
11. Provide black windscreen.
12. Acceptable Manufacturers:
 - a. Shure MV7X
 - b. Shure KMS23840-US
 - c. Shure AMV7-K-WS
 - d. Or equal

2.59 TV STUDIO AUDIO MONITOR CONTROLLER

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of two (2) balanced line level stereo inputs.
2. Shall have a minimum of two (2) balanced line level stereo outputs.
3. Shall have a minimum of one (1) balanced line level mono output.
4. Shall have a minimum of two (2) balanced line level headphone outputs with selectable volume control rotary knob.
5. Shall have buttons to switch between two (2) sets of stereo monitors, subwoofer, mono summing, and muting functions.
6. Shall have a selectable rotary knob to control overall volume of selected monitor and subwoofer outputs.
7. Acceptable Manufacturers:
 - a. Radial Nuance Select
 - b. Or equal

2.60 INTERCOM SYSTEM (TV STUDIO)

A. Shall meet or exceed the following specifications:

1. Shall provide 2-wire, 4-wire, Dante, AES67 and native wireless intercom connectivity for up to a minimum of four (4) intercom channels.
2. Provide the number of licensed ports required by the T-series drawings.
3. Shall support ethernet control.
4. Ensure headset, video cameras, intercom beltpacks, and all connected equipment requiring intercom have the same connector.
5. Acceptable Manufacturers:
 - a. Clear-Com Arcadia Central Station
 - b. Clear-Com HelixNet HXII-RM (Quantity: 9)
 - c. Clear-Com HelixNet HXII-KB (Quantity: 4)
 - d. Clear-Com FreeSpeak FSII-TCVR (Quantity: 5)
 - e. Clear-Com FreeSpeak FSII-BP (Quantity: 16)
 - f. Clear-Com CC-300 (Quantity: 16)
 - g. Or equal

2.61 WIRELESS MICROPHONE SYSTEM TYPE 1 (MEDIA CENTER)

A. Shall meet or exceed the following specifications:

1. Shall utilize a 64 MHz bandwidth
2. Shall provide digital predictive switching for true diversity.
3. Shall have up to 60 frequency presets available.
4. Shall provide automatic frequency scanning.
5. Transmitters and receivers shall utilize a metal housing.
6. Coordinate operating frequency with local RF environment.
7. Acceptable Manufacturers:
 - a. Shure QLXD4
 - b. Shure QLXD2/SM58 (Quantity: 1 per receiver)
 - c. Shure QLXD1 (Quantity: 1 per receiver)
 - d. Shure WL183M (Quantity: 1 per receiver)
 - e. Shure WH20 (Quantity: 1 per receiver)
 - f. Shure SB900C Rechargeable Battery (Quantity: 1 per transmitter)
 - g. Shure SBC200 Dual Charging Case (Quantity: 1 per every 2 transmitters)
 - h. Shure UA8 (Provide quantity shown on T-series AV diagrams)
 - i. Or Equal

2.62 WIRELESS MICROPHONE SYSTEM TYPE 2 (TV STUDIO AND MAIN GYM)

A. Shall meet or exceed the following specifications:

1. Shall utilize a 64 MHz bandwidth
2. Shall provide digital predictive switching for true diversity.
3. Shall have up to 60 frequency presets available.
4. Shall provide automatic frequency scanning.
5. Transmitters and receivers shall utilize a metal housing.
6. Coordinate operating frequency with local RF environment.
7. Acceptable Manufacturers:
 - a. Shure ULXD4Q
 - b. Shure ULXD2/SM58 (Quantity: 4 per receiver)
 - c. Shure ULXD1 (Quantity: 4 per receiver)
 - d. Shure WL183M (Quantity: 4 per receiver)
 - e. Shure SB900C (Quantity: 1 per transmitter)
 - f. Shure SBRC-US (Quantity: 1)
 - g. Shure SBC-AX Charging Module (Quantity: 4)
 - h. Shure UA874US (Quantity: 2)
 - i. Or equal

2.63 WIRELESS MICROPHONE ANTENNA DISTRIBUTION SYSTEM

A. Shall meet or exceed the following specifications:

1. Shall operate in the 470 MHz to 960 MHz radio frequency range
2. Shall have a minimum of one (1) BNC RF input per channel
3. Shall have a minimum of four (4) BNC RF outputs per channel
4. Shall have a minimum of four (4) DC power outputs for compatible wireless audio receivers
5. All BNC RF outputs and inputs shall have 50 ohm impedance

6. Shall have a metal housing.
7. Provide necessary adapters and accessories as required. Refer to the T-series AV diagrams for more information.
8. Acceptable Manufacturers:
 - a. Shure UA844+SWB
 - b. Shure UA834WB in-line antenna amplifier
 - c. Shure UABIAST in-line power adapter
 - d. Shure UA221 passive antenna splitter
 - e. Shure UA8 1/2 wave dipole antenna for applications in which line of sight distances from transmitter to antenna are under 100 feet (Provide quantity shown on T-series AV diagrams)
 - f. Shure UA874US active directional antenna for applications in which line of sight distances from transmitter to antenna are over 100 feet (Provide quantity shown on T-series AV diagrams)
 - g. Or equal

2.64 WIRELESS IN-EAR MONITORING SYSTEM (TV STUDIO)

- A. Shall meet or exceed the following specifications:
1. Shall utilize a 36 to 40 MHz bandwidth.
 2. Shall operate in the 470 MHz to 960 MHz radio frequency range.
 3. Shall have an audio frequency response of 35Hz – 15000Hz.
 4. Shall have a minimum signal to noise ratio of 90 dB.
 5. Shall provide digital predictive switching for true diversity.
 6. Shall have up to 60 frequency presets available.
 7. Shall provide automatic frequency scanning.
 8. Shall have metal housing.
 9. Coordinate operating frequency with local RF environment.
 10. Acceptable Manufacturers:
 - 1) Shure P9T (Quantity: 4)
 - 2) Shure P9RA+ (Quantity: 4)
 - 3) Shure SE425 (Quantity: 4)
 - 4) Shure EAC-IFB (Quantity: 4)
 - 5) Or equal

2.65 WIRELESS IFB SYSTEM (FIELD CAMERA KIT)

- A. Shall meet or exceed the following specifications:
1. Shall have a minimum of one (1) XLR input. XLR input shall be programmable.
 2. Shall operate in the 470 MHz to 960 MHz radio frequency range.
 3. Shall deliver a minimum RF power output of 250 mW.
 4. Shall have an audio frequency response of 100Hz – 8000Hz in IFB mode.
 5. Shall have a minimum signal to noise ratio of 90 dB.
 6. Shall provide digital predictive switching for true diversity.
 7. Shall have up to 256 UHF frequencies.
 8. Shall provide automatic frequency scanning.
 9. Shall have metal housing.
 10. Coordinate operating frequency with local RF environment.
 11. Receiver shall be capable of storing up to ten (10) frequency presets.
 12. Acceptable Manufacturers:

- 1) Lectrosonics IFBT4
- 2) IFBlue IFBR1C (Quantity: 4)
- 3) Or equal

2.66 DIGITAL SIGNAL PROCESSOR TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of eight (8) balanced flex channels (input or output) with AEC.
2. Shall provide an open architecture for signal routing.
3. Shall be capable of routing up to 64 networked audio channels over Q-LAN or AES67.
4. Shall support a minimum of 8x8 channels of Dante audio routing.
5. Shall have a maximum input level of +24dBu and maximum output level of +20 dBu.
6. Shall have a minimum dynamic range of 108dB, 20Hz – 20000Hz.
7. Control software to include, but not limited to: matrix mixers, limiters, gain adjustment, delay, parametric equalizers, crossovers, and compressors.
8. Acceptable Manufacturers:
 - a. Q-SYS Core 8 Flex
 - b. Or Equal

2.67 DIGITAL SIGNAL PROCESSOR TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of eight (8) balanced microphone or line level input channels with AEC, eight (8) balanced flex channels (input or output) with AEC, and eight (8) balanced output channels with AEC.
2. Shall have a minimum of one (1) USB-C port.
3. Shall provide an open architecture for signal routing.
4. Shall be capable of routing up to 160 networked audio channels over Q-LAN or AES67.
5. Shall support a minimum of 8x8 channels of Dante audio routing.
6. Shall have a maximum input level of +24dBu and maximum output level of +20 dBu.
7. Shall have a minimum dynamic range of 111dB, 20Hz – 20000Hz.
8. Shall have a maximum of 0.006% THD from 20Hz – 20000Hz.
9. Control software to include, but not limited to: matrix mixers, limiters, gain adjustment, delay, parametric equalizers, crossovers, and compressors.
10. Acceptable Manufacturers:
 - a. Q-SYS Core 24f
 - b. Or Equal

2.68 HEARING ASSISTANCE SYSTEM

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of one (1) balanced line level mono XLR input and one (1) unbalanced consumer level stereo RCA input.
2. Shall have an internal audio compressor.
3. Shall have an operating frequency of 216MHz.
4. Shall have a maximum RF output power of 100mW.
5. Provide remote antennas as shown on the T-series drawings.
6. Provide quantity and type of receivers to meet ADA requirements.
7. Provide charging carrying case to accommodate all receivers.

8. Provide rechargeable lithium-ion batteries to accommodate all receivers as required.
9. Acceptable Manufacturers:
 - a. Listen Tech LT-800-216 (as shown on T-series AV diagrams)
 - b. Listen Tech LA-122 (as shown on T-series drawings)
 - c. Listen Tech LR-5200-216 (Quantity: 32 per transmitter)
 - d. Listen Tech LA-164 (Quantity: 32 per transmitter)
 - e. Listen Tech LA-165 (Quantity: 32 per transmitter)
 - f. Listen Tech LA-438 (Quantity: 32 per transmitter)
 - g. Listen Tech LA-380 (Quantity: 3)
 - h. Listen Tech LA-365 (Quantity: 32 per transmitter as required)
 - i. Or equal

2.69 DIGITAL AUDIO MIXING CONSOLE

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of sixty-four (64) input channels with full processing.
2. Shall have a minimum of six (6) local balanced microphone or line level XLR inputs.
3. Shall have a minimum of six (6) local balanced line level XLR outputs.
4. Shall have a minimum of forty-two (42) mix buses with full processing and sixteen (16) DCA groups.
5. Shall have BNC word clock connector.
6. Shall be Dante compatible.
7. Shall be MADI compatible.
8. Shall have integrated processing including high-pass filters, parametric EQs, graphic EQs, compressors, gates, ducking, etc.
9. Shall have a minimum of two (2) expansion slots.
10. Shall have up to 500 recallable scene memories per show.
11. Shall have proprietary digital snake connector to interface with DIGITAL AUDIO I/O.
12. Shall have automatic mic mixer functionality for up to sixty-four (64) channels.
13. Shall incorporate a LED capacitive touchscreen display with gesture control.
14. Shall support sampling rates up to 96kHz.
15. Shall have a minimum of twelve (12) illuminated motorized faders in six (6) layers for a total of seventy-two (72) fader strips.
16. Shall have assignable soft keys and rotary knobs.
17. Shall have a minimum of twelve (12) stereo FX buses with dedicated FX returns.
18. Shall support wireless remote mixing apps.
19. Shall have a LAN port for TCP/IP control of mixer via a wireless router.
20. Shall support multi-track recording.
21. Acceptable Manufacturers:
 - a. Allen & Heath Avantis Solo
 - b. Allen & Heath Dante 64x64
 - c. Allen & Heath superMADI
 - d. Or equal

2.70 DIGITAL AUDIO I/O

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of sixteen (16) balanced microphone or line level XLR inputs.
2. Shall have a minimum of sixteen (16) balanced line level XLR outputs.
3. Inputs shall have digitally controlled gain, pad, and 48V.
4. Shall be rack mountable.

5. Shall have a minimum of one (1) ethernet connection compatible with the DIGITAL AUDIO MIXING CONSOLE.
6. Acceptable Manufacturers:
 - a. Allen & Heath DX32
 - b. Allen & Heath M-AIN
 - c. Allen & Heath M-OUT
 - d. Or equal

2.71 POWER AMPLIFIER TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall have a minimum continuous power rating of 150 watts into a 70V load per channel.
2. Shall provide two (2) channels of amplification.
3. Shall provide protection of circuit components in the event of over-drive, output overload, or short circuits.
4. Shall have a maximum of 0.05% THD from 20Hz – 20000Hz.
5. Shall have a signal to noise ratio of at least 103dB.
6. Shall have a maximum input level of +24dBu.
7. Acceptable Manufacturers:
 - a. Biamp Voltera A 300.2
 - b. Or equal

2.72 POWER AMPLIFIER TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall have a minimum continuous power rating of 150 watts into a 70V load per channel.
2. Shall provide four (4) channels of amplification.
3. Shall provide protection of circuit components in the event of over-drive, output overload, or short circuits.
4. Shall have a maximum of 0.05% THD from 20Hz – 20000Hz.
5. Shall have a signal to noise ratio of at least 103dB.
6. Shall have a maximum input level of +24dBu.
7. Acceptable Manufacturers:
 - a. Biamp Voltera A 600.4
 - b. Or equal

2.73 POWER AMPLIFIER TYPE 3

A. Shall meet or exceed the following specifications:

1. Shall have a minimum continuous power rating of 1250 watts into an 8 ohm load per channel.
2. Shall provide four channels of amplification.
3. Shall provide protection of circuit components in the event of over-drive, output overload, or short circuits.
4. Shall have a maximum of 0.05% THD from 20Hz – 20000Hz.
5. Shall have a signal to noise ratio of at least 110dB.
6. Shall have a maximum input level of +35dBu.
7. Shall be Dante compatible.

8. Shall support ethernet control.
9. Acceptable Manufacturers:
 - a. Community ALC-1604D
 - b. Or equal

2.74 POWER AMPLIFIER TYPE 4

A. Shall meet or exceed the following specifications:

1. Shall have a minimum continuous power rating of 2400 watts into a 4 ohm load per channel.
2. Shall provide two channels of amplification.
3. Shall provide protection of circuit components in the event of over-drive, output overload, or short circuits.
4. Shall have a maximum of 0.05% THD from 20Hz – 20000Hz.
5. Shall have a signal to noise ratio of at least 111dB.
6. Shall have a maximum input level of +35dBu.
7. Shall be Dante compatible.
8. Shall support ethernet control.
9. Acceptable Manufacturers:
 - a. Community ALC-3202D
 - b. Or equal

2.75 POWER AMPLIFIER TYPE 5

A. Shall meet or exceed the following specifications:

1. Shall have a minimum continuous power rating of 300 watts into 8 ohm load per channel.
2. Shall provide eight (8) channels of amplification.
3. Shall provide protection of circuit components in the event of over-drive, output overload, or short circuits.
4. Shall have a maximum of 0.35% THD from 20Hz – 20000Hz.
5. Shall have a signal to noise ratio of at least 108dB.
6. Shall have a maximum input level of +20dBu.
7. Shall support ethernet control.
8. Acceptable Manufacturers:
 - a. Crown Audio DCi 8|300N
 - b. Or equal

2.76 LOUDSPEAKER TYPE 1

A. Shall meet or exceed the following specifications:

1. Shall be ceiling mounted.
2. Shall be a two-way configuration with an 8" LF driver and 1.25" HF driver.
3. Shall have a coverage pattern of 115° conical.
4. Shall have a nominal continuous power handling of no less than 175W.
5. Shall have a sensitivity of no less than 94dB.
6. Shall have a frequency response of 75Hz – 20000Hz ±10dB.
7. Shall have 70V tap. Tap loudspeaker as shown on T-series drawings.
8. Procure and install all required mounting hardware, brackets, and accessories required for a complete and functional installation as shown on the T-series drawings.

9. Verify color with Architect.
10. Acceptable Manufacturers:
 - a. Biamp Desono DX-IC8
 - b. Or equal

2.77 LOUDSPEAKER TYPE 2

A. Shall meet or exceed the following specifications:

1. Shall be a two-way coaxial configuration with a 12" LF driver and a 1.4" HF driver.
2. Shall have a coverage pattern of 120° H x 60° V.
3. Shall have a power rating of no less than 800W at 8 ohms.
4. Shall have a nominal sensitivity of no less than 94dB.
5. Shall have a frequency response of 43Hz – 18500Hz ±3dB.
6. Procure and install all required mounting hardware, brackets, and accessories required for a complete and functional installation as shown on the T-series drawings.
7. Coordinate color and finish with the architect.
8. Acceptable Manufacturers:
 - a. Community IP8-1122/26
 - b. Or equal

2.78 LOUDSPEAKER TYPE 3

A. Shall meet or exceed the following specifications:

1. Shall be directing radiating configuration with one 18" LF driver.
2. Shall have a power rating of no less than 700W at 8 ohms.
3. Shall have a nominal sensitivity of no less than 104dB at half space measurements.
4. Shall have a frequency response of 32Hz – 145Hz ±3dB.
5. Procure and install all required mounting hardware, brackets, and accessories required for a complete and functional installation as shown on the T-series drawings.
6. Confirm final color and finish with Architect.
7. Acceptable Manufacturers:
 - a. Biamp IS6-118
 - b. Or equal

2.79 LOUDSPEAKER TYPE 4

A. Shall meet or exceed the following specifications:

1. Shall be a two-way configuration with an 5" LF driver and 1" HF driver.
2. Shall have a maximum continuous SPL of 101 dB.
3. Shall have a frequency response of 48Hz – 23 kHz ±3dB.
4. Procure and install all required mounting hardware, brackets, and accessories required for a complete and functional installation as shown on the T-series drawings.
5. Confirm final color and finish with Architect.
6. Acceptable Manufacturers:
 - a. JBL LSR705i
 - b. Or equal

2.80 LOUDSPEAKER TYPE 5

A. Shall meet or exceed the following specifications:

1. Shall have a minimum of one (1) balanced line level XLR input.
2. Shall have 10" low frequency driver.
3. Shall have low frequency extension to a minimum of 27 Hz.
4. Shall have a coverage 360° pattern.
5. Shall have an amplifier power rating of 200 watts.
6. Shall have a peak SPL of 113 dB
7. Shall have an integrated class D amplifier.
8. Shall provide protection of circuit components in the event of over-drive, output overload, or short circuits.
9. Procure and install all required mounting hardware, brackets, and accessories required for a complete and functional installation as shown on the T-series drawings.
10. Verify color with Architect.
11. Acceptable Manufacturers:
 - a. JBL Pro LSR310S
 - b. Or equal

2.81 SPEAKER RIGGING COMPONENTS

- A. Contractor shall provide and install speaker rigging components as necessary to mount main loudspeakers as shown on the T-series drawings.
- B. Structural support members to have a safety factor of at least 5. Mounting hardware and wire rope to have a safety factor of 8. All fasteners to be graded and certified for use in the intended applications. Overhead suspension hardware shall comply with ASME B30.20 standards and all applicable local building and safety codes.
- C. Overhead suspension hardware must be of a type that includes product traceability controls.
- D. Rigging, mounting and support systems for loudspeakers shall be designed and sealed by a registered professional engineer licensed to practice in the State of Indiana. Once the systems are installed, the engineer shall physically inspect the methods and means used to verify compliance with the original design.
- E. Loudspeaker Rigging Components shall meet or exceed the following specifications:
1. Loudspeaker Rigging Components shall be made of quenched or tempered forged steel.
 2. Loudspeaker Rigging Components shall meet or exceed all the requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements
 3. Loudspeaker Rigging Components shall be hot dip galvanized or self-colored.
 4. Shackles shall meet the performance requirements of Federal Specification RR-C-271D Type IVA, Grade A, Class1.
 5. Turnbuckles shall meet the performance requirements of Federal Specifications FF-T-791b, Type 1 Form 1 - CLASS 4, and ASTM F-1145.
 6. Wire rope thimble shall meet the performance requirements of Federal Specification FF-T-276b Type II.
 7. Wire rope shall be sized as 7x19 utility cable.
 8. Provide all screw pin type shackles with mouse wire.
 9. All end fittings shall be moused to the body with mousing cable.
 10. Select size of product based working load limits required.

11. Confirm final product selection with architect.
12. Acceptable product:
 - a. Chicago Hardware Company
 - b. Crosby Group
 - c. Wire Rope Corporation of America (WRCA)
 - d. Or equal

2.82 POWER SEQUENCING SYSTEM

- A. Contractor to provide and install rack mounted power sequencing system for the AV/IDF N103d AV equipment rack.
- B. Contractor to ensure all equipment is powered in the correct order to avoid audible pops and clicks from the audio-video system in response to power sequencing.
- C. Rack mounted power sequencing system shall meet or exceed the following specifications:
 1. Shall include a sequencer with a minimum of six (6) sequenced isolated ground outlets
 2. Shall allow for adjustable start delay times.
 3. Acceptable Manufacturers:
 - a. Middle Atlantic MPR Series
 - b. Middle Atlantic MPR-SEQA
 - c. Middle Atlantic RLM-20IGA
 - d. Or equal

2.83 POWER CONDITIONER

- A. Shall meet or exceed the following specifications:
 1. Shall include nine (9) NEMA 5-20R outlets.
 2. Shall have a 20 amp rating.
 3. Shall be 1 RU rack-mountable.
 4. Contractor shall supply the number of power conditioners required by the T-series AV equipment rack elevations.
 5. Acceptable Manufacturers:
 - a. Middle Atlantic PDX-920R
 - b. Furman PL-PRO DMC
 - c. Or equal

2.84 UNINTERRUPTIBLE POWER SUPPLY TYPE 1

- A. Contractor to provide uninterruptible power supply as required by the T-series drawings.
- B. Uninterruptible power supply shall meet or exceed the following specifications:
 1. Shall have 120V input on NEMA 5-20P.
 2. Shall support a minimum of 2000 VA for a minimum runtime of 15 minutes.
 3. Shall be 2RU rack mountable.
 4. Shall support battery expansion packs for future expansion by Owner.
 5. Acceptable Manufacturers:

- a. APC
- b. Middle Atlantic
- c. Tripp Lite
- d. Or equal

2.85 UNINTERRUPTIBLE POWER SUPPLY TYPE 2

- A. Contractor to provide uninterruptible power supply as required by the T-series drawings.
- B. Uninterruptible power supply shall meet or exceed the following specifications:
 - 1. Shall have 120V input on L5-30P.
 - 2. Shall support a minimum of 3000 VA for a minimum runtime of 15 minutes.
 - 3. Shall be 2RU rack mountable.
 - 4. Shall support battery expansion packs for future expansion by Owner.
 - 5. Acceptable Manufacturers:
 - a. APC
 - b. Middle Atlantic
 - c. Tripp Lite
 - d. Or equal

2.86 AV EQUIPMENT RACK TYPE 1

- A. Shall meet or exceed the following specifications:
 - 1. Shall have 12 units of available rack space.
 - 2. Shall have 16-gauge steel construction with black textured powder coat finish.
 - 3. Universal 19" mounting rails with 10/32 and 12/24 tapped holes in EIA universal 5/8", 5/8", 1/2" mounting hole pattern.
 - 4. Shall have locking, vented doors, side panels, and fans.
 - 5. Shall have an overall depth of 26" and useable depth of 24".
 - 6. Shall be constructed to swing open for cabling access.
 - 7. Shall have a large 12.5" x 12.5" knockout at the rear and additional knockouts large enough to accommodate anticipated cable fill.
 - 8. Equipment installed shall not exceed the manufacturer approved weight capacity.
 - 9. Procure and install all required mounting hardware and accessories required for a complete and functional installation as shown on the T-series drawings.
 - 10. Acceptable Manufacturers:
 - a. Middle Atlantic DWR-12-26PD
 - b. Or Equal

2.87 AV EQUIPMENT RACK TYPE 2

- 1. Shall have 18 units of available rack space.
- 2. Shall have 16-gauge steel construction with black textured powder coat finish.
- 3. Universal 19" mounting rails with 10/32 and 12/24 tapped holes in EIA universal 5/8", 5/8", 1/2" mounting hole pattern.
- 4. Shall have locking, vented doors, side panels, and fans.
- 5. Shall have an overall depth of 26" and useable depth of 24".
- 6. Shall be constructed to swing open for cabling access.
- 7. Shall have a large 12.5" x 12.5" knockout at the rear and additional knockouts large enough to accommodate anticipated cable fill.

8. Equipment installed shall not exceed the manufacturer approved weight capacity.
9. Procure and install all required mounting hardware and accessories required for a complete and functional installation as shown on the T-series drawings.
10. Acceptable Manufacturers:
 - a. Middle Atlantic DWR-18-26PD
 - b. Or equal

2.88 AV EQUIPMENT RACK TYPE 3

1. Shall have 44 units of available rack space.
2. Shall have 14-gauge steel construction with black textured powder coat finish.
3. Shall have locking, vented doors, side panels, and fans.
4. Shall have an overall depth of 31" and useable depth of 29".
5. Minimum overall height of 84" with a minimum open rack mounting space of 77".
6. Universal 19" mounting rails with 10/32 and 12/24 tapped holes in EIA universal 5/8", 5/8", 1/2" mounting hole pattern.
7. Procure and install all required mounting hardware, cable management, and accessories required for a complete and functional installation as shown on the T-series drawings.
8. Equipment installed shall not exceed the manufacturer approved weight capacity.
9. Acceptable Manufacturers:
 - a. Middle Atlantic MRK-4431-AV
 - b. Or equal

2.89 AV EQUIPMENT RACK BLANKS

- A. Contractor to provide equipment rack blanks as required by the T-series drawings.
- B. Shall meet or exceed the following specifications:
 1. Shall have a flanged construction.
 2. Shall be made of 1/16" thick aluminum.
 3. Shall have a black textured powder coat finish.
 4. Provide quantity and sizes as required by the T-series drawings.
 5. Acceptable Manufacturers:
 - a. Middle Atlantic
 - b. Or equal

2.90 AV EQUIPMENT RACK VENTS

- A. Contractor to provide equipment rack vents as required by the T-series drawings.
- B. Equipment rack vents shall meet or exceed the following specifications:
 1. Shall have a flanged construction.
 2. Shall be made of 1/16" thick aluminum.
 3. Shall have a black textured powder coat finish.
 4. Provide quantity and sizes as required by the T-series drawings.
 5. Acceptable Manufacturers:
 - a. Middle Atlantic
 - b. Or Equal

2.91 AV EQUIPMENT RACK SHELVES

- A. Contractor to provide equipment rack shelves as required by the T-series drawings.
- B. Equipment rack shelves shall meet or exceed the following specifications:
 - 1. Shall have a flanged construction.
 - 2. Shall have 16-gauge steel construction with black textured powder coat finish.
 - 3. Shall have a minimum load capacity of 50 pounds.
 - 4. Provide quantity and sizes as required by the T-series drawings.
 - 5. Acceptable Manufacturers:
 - a. Middle Atlantic
 - b. Or Equal

2.92 AV EQUIPMENT RACK DRAWERS

- A. Contractor to provide equipment rack drawers as required by the T-series drawings.
- B. Equipment rack drawers shall meet or exceed the following specifications:
 - 1. Shall have a flanged construction.
 - 2. Shall have 16-gauge steel construction with black textured powder coat finish.
 - 3. Shall have a minimum load capacity of 50 pounds.
 - 4. Provide quantity and sizes as required by the T-series drawings.
 - 5. Acceptable Manufacturers:
 - a. Middle Atlantic
 - b. Or Equal

PART 3 - EXECUTION

3.1 GENERAL

- A. Coordinate incorporation of the Work specified herein with other project work to facilitate a cohesive final product.
- B. The installation recommendations contained within ANSI and Telecommunications Distribution Methods Manual are mandatory minimum standards and requirements.
- C. Mount equipment and enclosures plumb and level.
- D. Permanently installed equipment to be firmly and safely held in place. Design equipment supports to support loads imposed with a safety factor of at least five. Seismic bracing shall be installed on appropriate equipment where local codes require such installation.
- E. Verify all locations of equipment in all rooms with Owner's Representative, Owner, and Consultant.
- F. Follow all manufacturer requirements and recommendations for the installation of all AV equipment.

3.2 TESTING

- A. Prior to turning on the system, verify all electronic devices are properly grounded and each audio video AC receptacle has the proper hot, neutral, and ground connections.
- B. Audio Testing:
 - 1. Verify each amplifier channel is correctly wired by providing a test signal to each channel and verify the correct speakers are operating.
 - 2. Adjust the input and output gain of each device to properly set the system gain.
 - 3. Adjust the output level of each amplifier channel and/or speaker tap settings to achieve $85 \text{ dB} \pm 2 \text{ dB}$ in the area covered by the respective speaker zone when the output of the sound reinforcement system is set to 0 dBu.
 - 4. Equalize all loudspeakers to provide an acceptable frequency response based on the specifications of the provided loudspeakers.
 - 5. Verify no hum or buzz is present in the system at all operating levels. If present, propose a resolution and correct the issue at no cost to the Owner.
- C. Video Testing:
 - 1. Using a video signal generator, verify performance of all equipment meets manufacturer's specifications.
 - 2. Verify correct operation of all inputs and outputs
 - 3. Flat panel displays shall be set up by the contractor for immediate usage by the Owner once system is commissioned.

3.3 AUDIO VIDEO CONTROL SYSTEM

- A. Control system shall be programmed to at a minimum switch between available AV sources, power on/off video displays, raise/lower projection screen, control system volume, and control zone selection of audio where applicable.
- B. Contractor to provide a minimum of three iterations of the touchscreen layout and programming for review by the Owner and Consultant. The first phase will involve only the layout and proposed operation. Once reviewed, the Contractor will utilize this information to begin programming the touch panels. The touch panels will be reviewed again after the programming has been implemented in the field. Any changes from this phase shall be incorporated into the work. Final review will occur at the one year walk-through.
- C. Control system and room type functionality shall be programmed at a minimum as described below:
 - 1. MEDIA CENTER
 - a. Shall include one (1) custom programmed touch panel. At a minimum, control system shall be programmed to switch between available sources, source routing, and volume.
 - b. Contractor shall be required to program and set up system controls within the DSP control processor software.
 - c. Shall include owner provided flat panel displays mounted on mobile carts for video playback.
 - d. Wireless audio transmitters shall be installed on each owner provided mobile cart. Each wireless audio transmitter shall send audio to the wireless audio receiver connected to the digital signal processor.
 - e. Shall include upgraded audio system consisting of ceiling mounted loudspeakers in a summed mono configuration. All ceiling mounted loudspeakers shall be fed from

one zone. Contractor shall ensure loudspeaker coverage of 80 dBA at a minimum and no more than 95 dBA at a maximum based on the volume range configured on the touch panel. All areas shall have consistent coverage no greater than ± 2 dB.

- f. Digital signal processor shall receive paging signal from the building paging system, override the cafeteria program audio and allow the page broadcast to be played through the audio system loudspeakers.
- g. Coordinate AV network switch setup requirements with owner. Coordinate all additional AV traffic and protocols on the high school network with the owner prior to programming and commissioning.

2. LECTURE CLASSROOM

- a. Shall include one (1) custom programmed touch panel. At a minimum, control system shall be programmed to switch between available sources, source routing, and volume.
- b. Contractor shall be required to program and set up system controls within the DSP control processor software.
- c. Shall include ceiling mounted video projector for video playback. Contractor shall utilize vertical lens shift as required.
- d. Electric projection screen control shall be via the touch panel.
- e. Shall be programmed to switch between one (1) hardwired HDMI input, one (1) wireless presentation receiver, and one (1) decoded e-sports feed. Ceiling mounted projector shall be capable of receiving any video source routed through the AV network switch.
- f. Shall include upgraded audio system consisting of ceiling mounted loudspeakers in a summed mono configuration. All ceiling mounted loudspeakers shall be fed from one zone. Contractor shall ensure loudspeaker coverage of 80 dBA at a minimum and no more than 95 dBA at a maximum based on the volume range configured on the touch panel. All areas shall have consistent coverage no greater than ± 2 dB.
- g. Digital signal processor shall receive paging signal from the building paging system, override the cafeteria program audio and allow the page broadcast to be played through the audio system loudspeakers.
- h. Coordinate AV network switch setup requirements with owner. Coordinate all additional AV traffic and protocols on the high school network with the owner prior to programming and commissioning.

3. E-SPORTS

- a. Shall include two (2) custom programmed touch panels, both mounted in a table top stand to be set at the instructor's desk for system control. At a minimum, control system shall be programmed to switch between available audio sources, source routing, and volume.
- b. Contractor shall be required to program and set up system controls within the DSP control processor software.
- c. Analog audio shall be routed into or out of the AV equipment rack via XLR and Dante. XLR connections shall terminate to the DSP and Dante connections shall terminate to the AV network switch. Two microphone inputs, two line level outputs shall be installed at the announcer location.
- d. Shall include two (2) AV cameras to be encoded. Both cameras shall be decoded as a USB peripheral and available as a source via the instructor's preferred live streaming platform. Both cameras shall cover the student players.
- e. Shall include two (2) AV inputs underneath each monitor location. AV inputs shall be encoded and then decoded at the instructor's PC to be used as available sources on the instructor's preferred live streaming platform.
- f. Shall include two (2)

- g. Digital signal processor shall receive paging signal from the building paging system, override the cafeteria program audio and allow the page broadcast to be played through the audio system loudspeakers.
- h. Coordinate AV network switch setup requirements with owner. Coordinate all additional AV traffic and protocols on the high school network with the owner prior to programming and commissioning.

4. MAIN GYM

- a. Shall include two (2) custom programmed touch panels, one (1) wall mounted behind the scorer's table and one (1) custom programmed wireless controller for system control. At a minimum, control system shall be programmed to switch between available audio sources, source routing, and volume.
- b. Contractor shall be required to program and set up system controls within the DSP control processor software.
- c. Confirm all rigging with structural engineer as required.
- d. A minimum ten (10) foot service loop shall be provided and secured at each loudspeaker location.
- e. Contractor shall be required to program and set up system controls within the DSP control processor software.
- f. Analog audio shall be routed into or out of the AV equipment rack via XLR, Bluetooth, or 3.5mm connectivity. XLR, 3.5mm, and Bluetooth connections shall terminate to the DSP. One microphone input, one line level input, one line level output, one Bluetooth input, and one 3.5mm input shall be installed behind the scorer's table.
- g. Contractor shall ensure loudspeaker coverage of 80 dBA at a minimum and no more than 95 dBA at a maximum based on the volume range configured on the touch panel. All areas shall have consistent coverage no greater than ± 2 dB.
- h. Fiber outlet locations shall be installed behind the scorer's table and mezzanine plan north. The telecommunications contractor shall route and terminate fiber optic cabling as required by the T-series drawings. All video cabling and connectivity to the video scoreboard shall be procured and installed by others.
- i. Shall include four (4) wireless microphone channels for voice reinforcement. All wireless microphones shall terminate to the DSP.
- j. All audio will be summed, mixed, and processed according to industry standards. Audio from the DSP will feed one zone. Audio will be fed to the power amplifiers over STP cabling via the AV network switch. The loudspeaker configuration shall feed all twenty-two (22) loudspeakers. All loudspeakers shall be wired as shown on the T-series AV diagram allowing for future zoning flexibility.
- k. The DSP shall receive an analog audio paging signal from the building paging system. When audio is present, the DSP shall override the program audio to allow the page to be played over the loudspeaker system.
- l. Coordinate AV network switch setup requirements with owner. Coordinate all additional AV traffic and protocols on the high school network with the owner prior to programming and commissioning.

5. TV STUDIO

- a. All video and audio inputs and outputs shall be setup as a combined networked and analog matrix routing system via the video production engine in the AV equipment rack.
- b. Shall include one (1) custom programmed touch panels, one (1) mounted in a table top stand to be set at the instructor's desk for system control. At a minimum, control system shall be programmed to switch between available audio sources, source routing, and volume.

- c. Contractor shall be required to program and set up system controls within the DSP control processor software.
- d. Broadcast video cameras shall be connected to triax or electrical optical connectors in the TV studio technical facilities panels.
- e. The teleprompter software shall be routed to five (5) teleprompter screens attached to each camera tripod.
- f. Program shall be routed to five (5) talent monitors attached to each camera tripod
- g. Graphics and edited video with audio clips shall have the capability of being uploaded to the production switcher environment.
- h. The tally cue light shall be connected to a USB device port on the teleprompter monitor.
- i. All radio audio inputs and outputs shall be connected to the digital I/O.
- j. All loudspeakers shall be fed from the digital audio mixing console. Contractor shall ensure loudspeaker coverage of 80 dBA at a minimum and no more than 95 dBA at a maximum based on the volume range configured on the touch panel. All areas shall have consistent coverage no greater than ± 2 dB.
- k. A program stereo mix shall be routed to the production engine via MADI or Dante.
- l. Shall include eight (8) rack mounted wireless microphones connected to the production audio expander
- m. Four (4) separate mono mixes shall be sent from the production audio expander to the intercom IFB system. All four mixes shall be extracted from the IFB system and injected into the wireless in-ear monitoring system.
- n. All wireless audio antenna inputs shall be connected to the corresponding channel from the antenna da system.
- o. An overall mono mix shall be sent to the intercom central station for monitoring.
- p. The announcer output from the intercom main station shall be routed to the TV studio audio speakers.
- q. Channels A and B shall be routed in and out of each intercom station and remote stations located throughout the TV Studio and Radio.
- r. Route an independent intercom channel to the IFB system.
- s. The production switcher, video router, all computer workstations, all wireless audio devices, and the switching control panel for the production switcher shall be connected to the AV network switch.
- t. Digital signal processor shall receive paging signal from the building paging system, override the cafeteria program audio and allow the page broadcast to be played through the audio system loudspeakers.
- u. Coordinate AV network switch setup requirements with owner. Coordinate all additional AV traffic and protocols on the high school network with the owner prior to programming and commissioning.

3.4 TRAINING

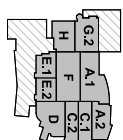
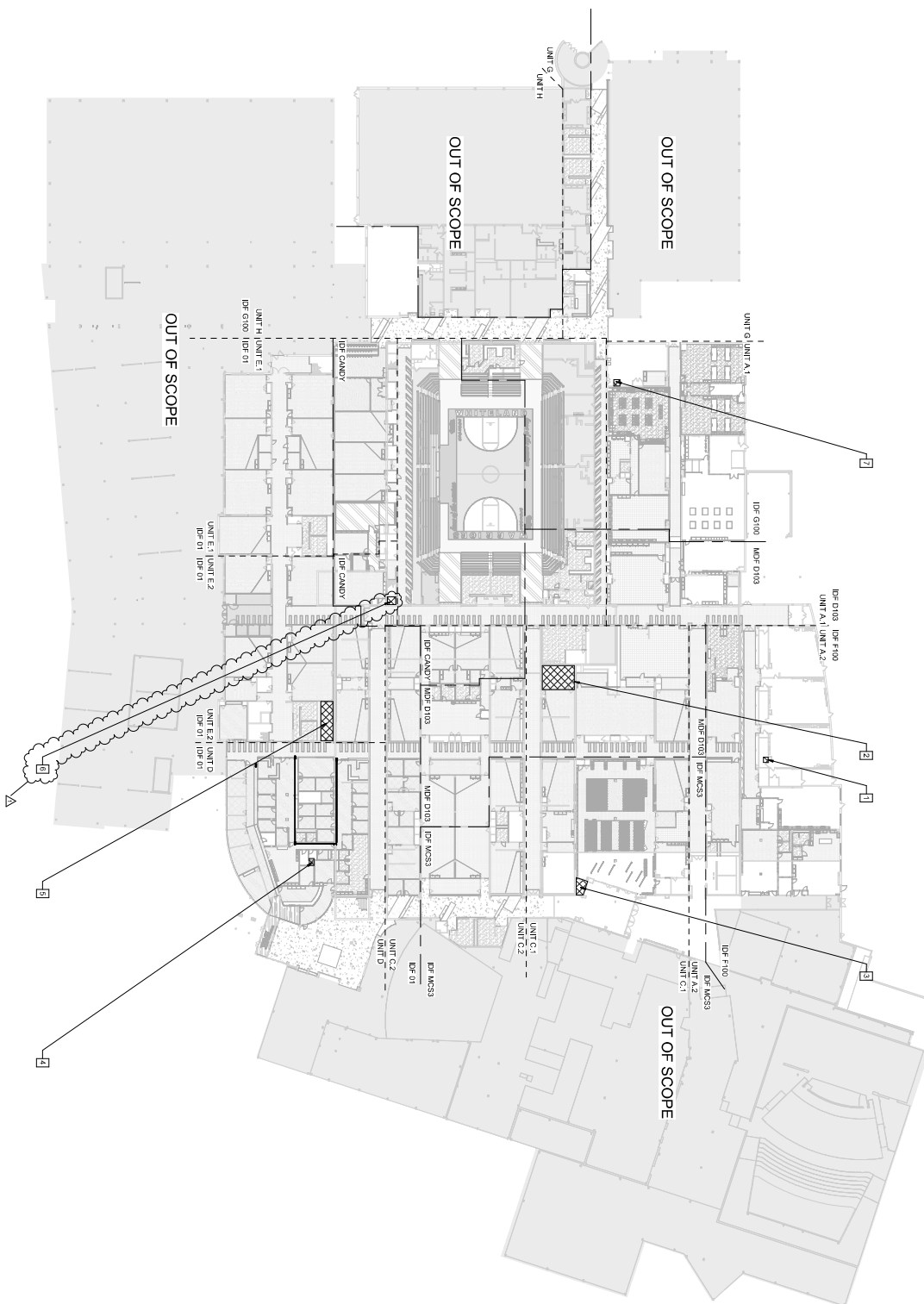
- A. After final completion, provide instruction to Owner designated personnel.
- B. Provide a minimum of eight (8) hours of training to the Owner. Training session(s) shall cover the following topics at a minimum:
 - 1. System Equipment Connectivity
 - 2. Device Configurations
 - 3. Operation, maintenance, and upgrade procedures.
- C. Training to be arranged with Owner personnel. Training schedule shall be coordinated with Owner personnel and their needs.
- D. Training to occur in maximum of 2-hour increments per personnel or groups of personnel.

- E. Training plan, timeline, and agenda shall be provided to Owner and signed off by Owner and Contractor.
- F. Warranty certificate and agreement shall be provided to Owner at initial training session.
- G. Provide a digital video copy of the training sessions.

3.5 SYSTEM ACCEPTANCE

- A. Contractor shall demonstrate to the Owner and Architect that all systems have been installed per the plans and specifications and that all programming functions, display functions, control functions and all interfaced equipment operate as expected.
- B. Contractor shall demonstrate to the Owner and Architect that all the end user staff has a working knowledge of how to operate the installed equipment and that the facilities staff also has a working knowledge of the troubleshooting methods for non-critical service problems.
- C. Contractor shall have a Delivery and Acceptance form signed by the Owner representative, agreeing that the installation is complete and its operation is acceptable except as noted on the Delivery and Acceptance form. This will also serve as the start of the warranty period.
- D. Contractor shall work with the General Contractor to complete all punch lists and work required to allow the General Contractor to close out the project in a timely manner. This will include but not limited to any work that would impact any final inspection for turnover of the building.

END OF SECTION 27 41 16



A compass rose with a circle divided into four quadrants by a vertical and horizontal line. The top half is labeled 'TRUE' and the bottom half 'MAGNETIC'. The letter 'N' is at the top, and 'M' is at the bottom.

T101

PROJECT: #22150
DATE: 10/06/2025
DRAWN BY: WAF

**FIRST FLOOR
OVERALL
DISTRIBUTION
PLAN**

△ REVISIONS:		
5	Date	
1	10/24/25	A



CLARK-PLEASANT COMMUNITY SCHOOL CORP.
 WHITELAND COMM. HIGH SCHOOL PHASE 4
 300 E MAIN ST, WHITELAND, IN 46184

SHEET NOTE

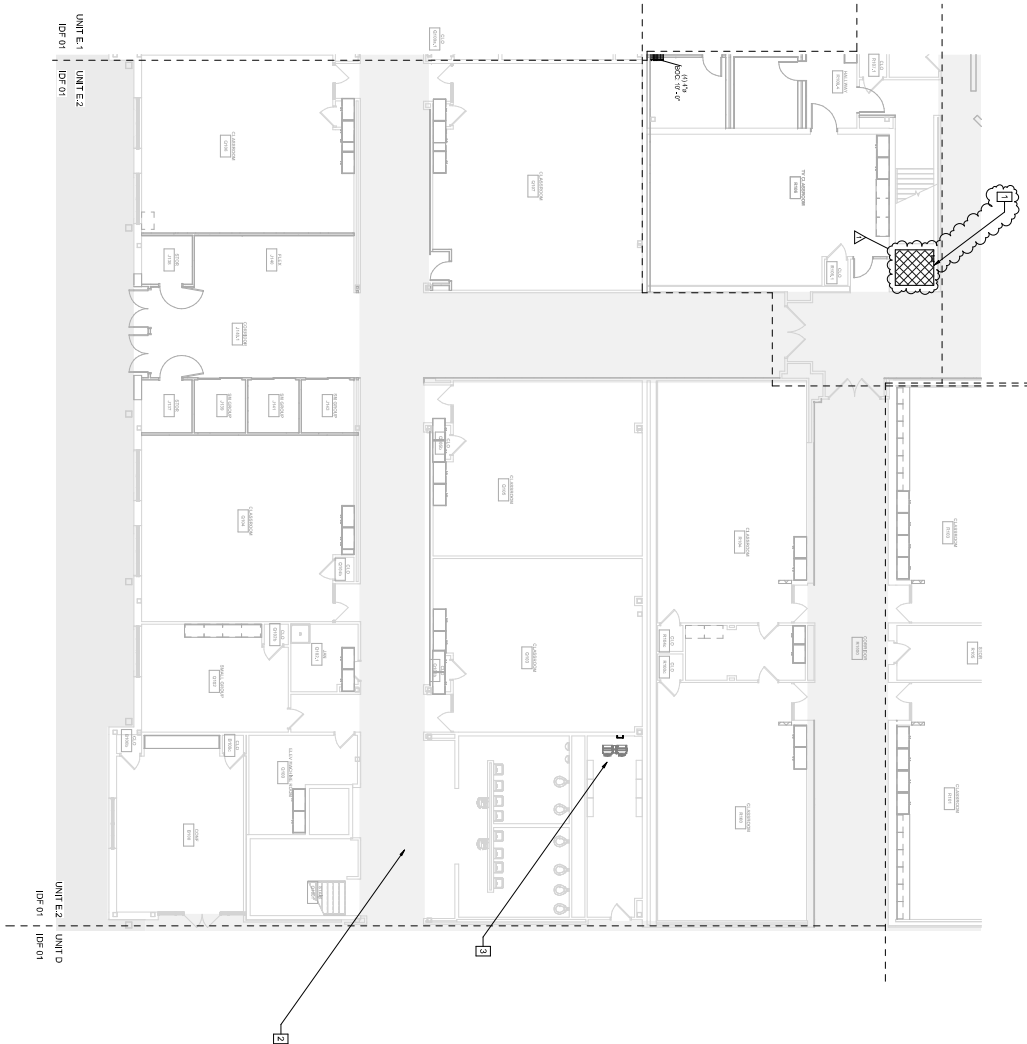
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|------------------------|---|
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| B | CONJUNCTIONS MUST BE IDENTIFIABLE BY THE FIRST LINE |
| C | CONJUNCTIONS MUST BE IDENTIFIABLE BY THE FIRST LINE |
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| Z | CONJUNCTIONS MUST BE IDENTIFIABLE BY THE FIRST LINE |

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27
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+ ACQUISITION
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46205
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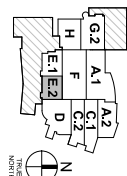
FIRST FLOOR DISTRIBUTION PLAN - UNIT E2



SHEET NOTES

1. REFER TO SHEET T101E.1 FOR GENERAL NOTES AND SPECIFICATIONS.
2. REFER TO SHEET T101E.1 FOR GENERAL NOTES AND SPECIFICATIONS.
3. REFER TO SHEET T101E.1 FOR GENERAL NOTES AND SPECIFICATIONS.

GENERAL PATHWAY NOTES	
A	NOT TO BE USED FOR ANY OTHER PURPOSES.
B	NOT TO BE USED FOR ANY OTHER PURPOSES.
C	NOT TO BE USED FOR ANY OTHER PURPOSES.
D	NOT TO BE USED FOR ANY OTHER PURPOSES.
E	NOT TO BE USED FOR ANY OTHER PURPOSES.
F	NOT TO BE USED FOR ANY OTHER PURPOSES.
G	NOT TO BE USED FOR ANY OTHER PURPOSES.
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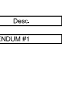


T101E.2

FIRST FLOOR DISTRIBUTION PLAN - UNIT E2

DATE: 10/10/2020
DRAWN BY: [Name]
CHECKED BY: [Name]

REVISIONS	DATE	BY
1	10/10/2020	ARCHITECT

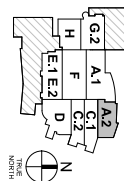
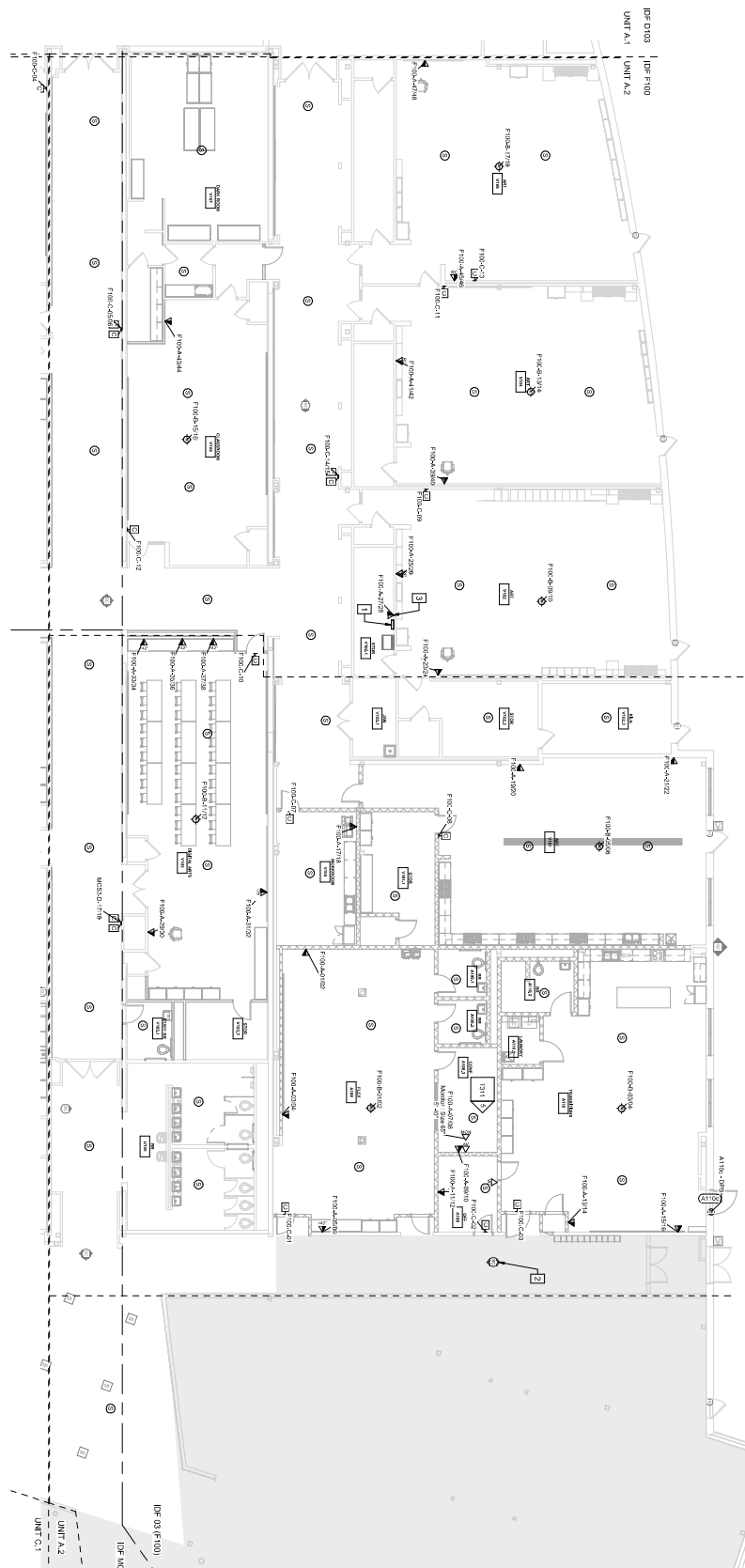


CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL PHASE 4
300 E MAIN ST, WHITELAND, IN 46184

DESIGN
27
10/10/2020
ARCHITECT
BICKEL & BICKEL, INC.

LANCER ASSOCIATES ARCHITECTURE
145 N EAST STREET
INDIANAPOLIS, IN 46204

FIRST FLOOR TECHNOLOGY PLAN -
1/8" = 1'-0"



FIRST FLOOR
TECHNOLOGY
PLAN - UNIT A.2

DATE: 03/15/2023
BY: JACOB WOOD

PROJECT: 2023-001
SHEET: 001 OF 001

1/8" = 1'-0"

DATE: 03/15/2023
BY: JACOB WOOD

PROJECT: 2023-001
SHEET: 001 OF 001

1/8" = 1'-0"

DATE: 03/15/2023
BY: JACOB WOOD

PROJECT: 2023-001
SHEET: 001 OF 001

1/8" = 1'-0"

DATE: 03/15/2023
BY: JACOB WOOD

PROJECT: 2023-001
SHEET: 001 OF 001

1/8" = 1'-0"

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PROJECT: 2023-001
SHEET: 001 OF 001

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PROJECT: 2023-001
SHEET: 001 OF 001

1/8" = 1'-0"

DATE: 03/15/2023
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PROJECT: 2023-001
SHEET: 001 OF 001

1/8" = 1'-0"

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PROJECT: 2023-001
SHEET: 001 OF 001

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SHEET: 001 OF 001

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SHEET: 001 OF 001

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SHEET: 001 OF 001

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DATE: 03/15/2023
BY: JACOB WOOD

PROJECT: 2023-001
SHEET: 001 OF 001

1/8" = 1'-0"

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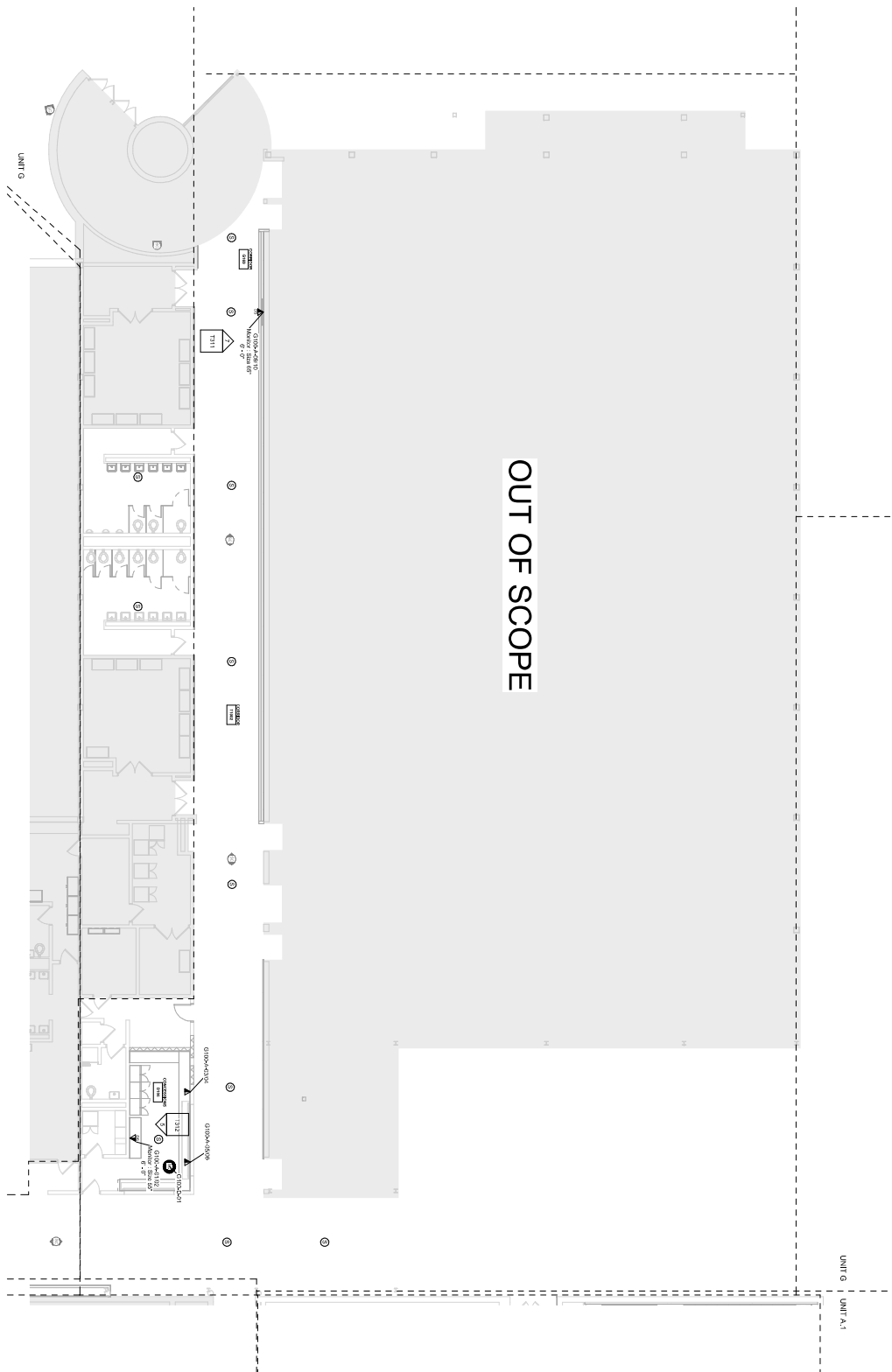
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INDIANAPOLIS, IN 46204

145 N EAST STREET
INDIANAPOLIS, IN 46204

LANCER ASSOCIATES
ARCHITECTURE

145 N EAST STREET
INDIANAPOLIS, IN 46204

1 FIRST FLOOR TECHNOLOGY PLAN -
UNIT G.2
1/8" = 1'-0"



OUT OF SCOPE

UNIT G	UNIT A.1
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GENERAL HORIZONTAL CABLING NOTES

- [illegible]

TECHNOLOGY LEGEND

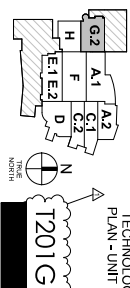
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|  | DAY HILL LOCATION |
|  | DAYTON, OHIO LOCATION |
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CLARK-PLEASANT COMMUNITY SCHOOL CORP.
 WHITELAND COMM. HIGH SCHOOL PHASE 4
 300 E MAIN ST, WHITELAND, IN 46184



REVISIONS:		
#	Date	
1	10/24/25	A

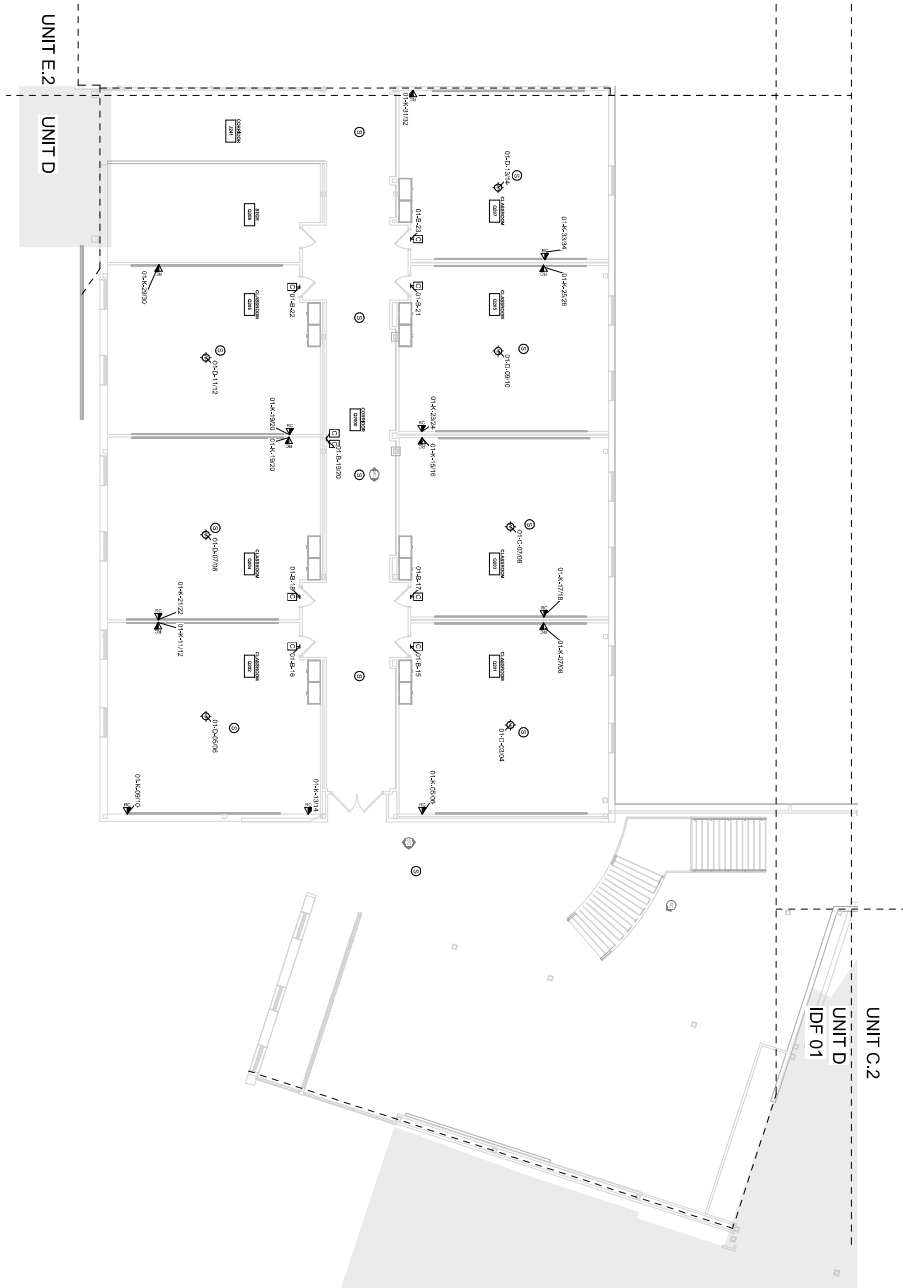
**FIRST FLOOR
TECHNOLOGY
PLAN - UNIT**



LANCER ASSOCIATES
ARCHITECTURE
145 N. EAST STREET

DESIGN
27
TECHNOLOGY
ACOUSTICS
1650 E. 4TH
INDIANAPOLIS
46205
317.536.8
DESIGN27

SECOND FLOOR TECHNOLOGY PLAN -
UNIT D
1/8" = 1'-0"



GENERAL HORIZONTAL CABLING NOTES

- [illegible]

TECHNOLOGY LEGEND

- | | |
|---|--|
|  | CLON LOCATION |
|  | CLON LOCATION |
|  | DATA LOCATION |
|  | DATA RECALL LOCATION |
|  | DATA SOURCE LOCATION |
|  | DATA STORAGE CONNECTION LOCATION |
|  | HOSTING LOCATION |
|  | IMAGE CONNECTION LOCATION |
|  | IMAGE CONNECTION LOCATION - CLON MOUNTED |
|  | IMAGE LOCATION - FILE 1 |
|  | IMAGE LOCATION - FILE 2 |
|  | IMAGE LOCATION - FILE 3 |
|  | INTERNAL FILTERS - FILE LOCATION |
|  | INTERNAL LOCATION - CLON MOUNTED |
|  | INTERNAL LOCATION - FILE MOUNTED |
|  | INTERNAL LOCATION - FILE MOUNTED |
|  | INTERNAL CONNECTION LOCATION - FILE 1 |
|  | INTERNAL CONNECTION LOCATION - FILE 2 |
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|  | INTERNAL CONNECTION LOCATION - FILE 30 |

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
 WHITELAND COMM. HIGH SCHOOL PHASE 4
 300 E MAIN ST, WHITELAND, IN 46184



REVISIONS:		
#	Date	
1	10/24/25	A

100% CONSTRUCTION

DOCUMENTS
PROJECT: #22130

DATE: 10/06/2025

DRAWN BY: KCP

SECOND EDITION

SECOND FLOOR

TECHNOLOGI
PLAN - UNIT D

—

$\{T_{2022}\}$

1202D

1000000

1800

**SECOND FLOOR
TECHNOLOGY
PLAN - UNIT D**

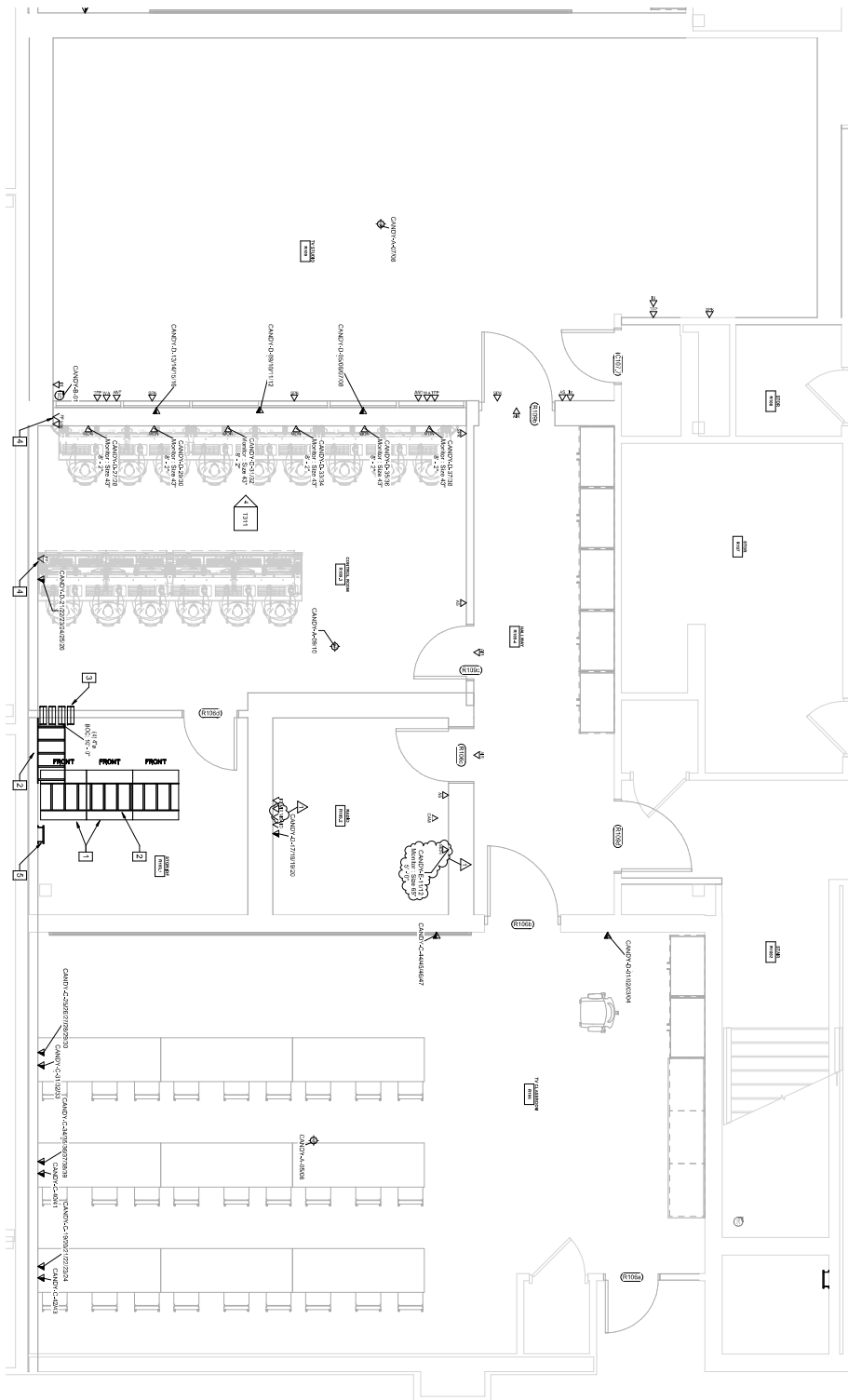
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1202D

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1800



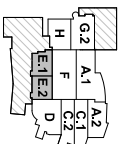
*NOTE: REFERENCE ALTERNATE #3 WITHIN FRONT-END DOCUMENTATION FOR DEDUCT ALTERNATE FOR TV STUDIO

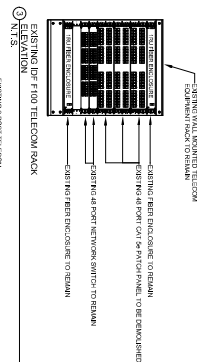
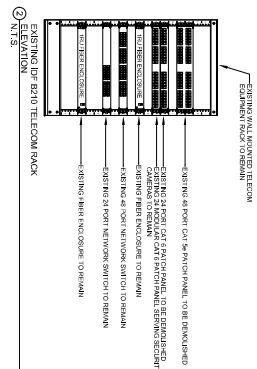
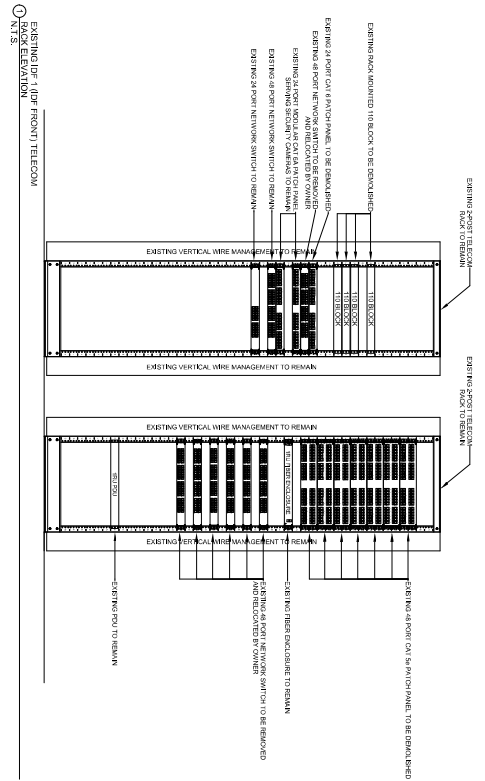
GENERAL HORIZONTAL CLAIMS NOTES	
A	GENERAL CATEGORY OF COMPLAINANT CLAIMS
B	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
C	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
D	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
E	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
F	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
G	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
H	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
I	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
J	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
K	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
L	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
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O	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
P	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
Q	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
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Y	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN
Z	CLAIMANT'S REQUEST FOR A REMEDY OR OTHER ACTION TO BE TAKEN

[illegible]

SHEET NOTES

1. ALL EQUIPMENT RACKS SERVING TV STUDIO, REFERENCE TO RACK ELEVATION AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. EQUIPMENT RACKS FOR TV STUDIO CABLING AS REQUIRED.
3. ABOVE CEILING CONCEALS WITH BUSHINGS ON THE ENDS FOR TV STUDIO CABLING.
4. ALL CABLING SERVING TV STUDIO EQUIPMENT WITHIN CONSOLES SHALL UNITE, INTEGRATED THROUGH SUBSTANTIATED, TO DESIGN SPECIFICATIONS, REFERENCE TECHNICAL DRAWING 14-1 AND 15-1 AND DRAWINGS FOR ADDITIONAL INFORMATION.
5. SECONDARY BOUNCING BUSHING, CONTACTOR SHALL WITHIN TO GROUND RACKS AND EQUIPMENT WITHIN TO GROUND RACK.

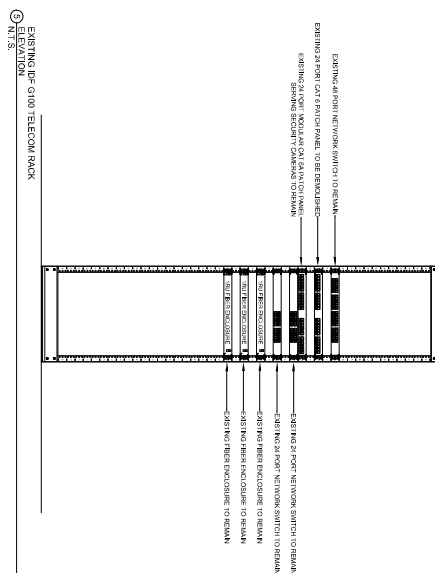
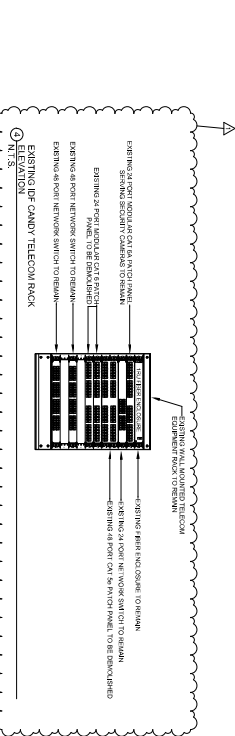




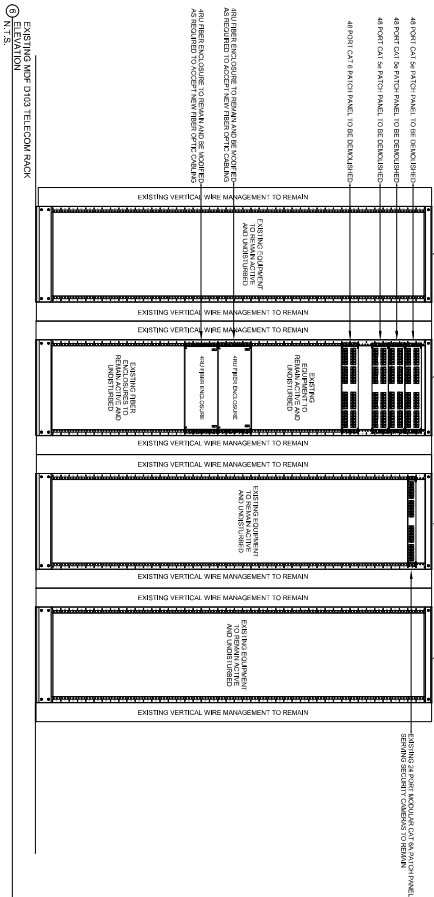
EXISTING 100' FRONT TELECOM RACK ELEVATION
N.T.S.

EXISTING 80'0' TELECOM RACK ELEVATION
N.T.S.

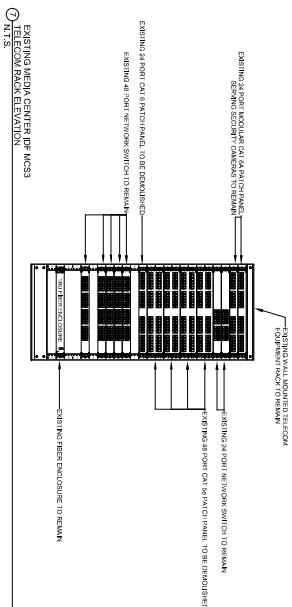
EXISTING 100'0' TELECOM RACK ELEVATION
N.T.S.



EXISTING 20'0' CENTER PATCH PANEL ELEVATION
N.T.S.



EXISTING 20'0' CENTER PATCH PANEL ELEVATION
N.T.S.



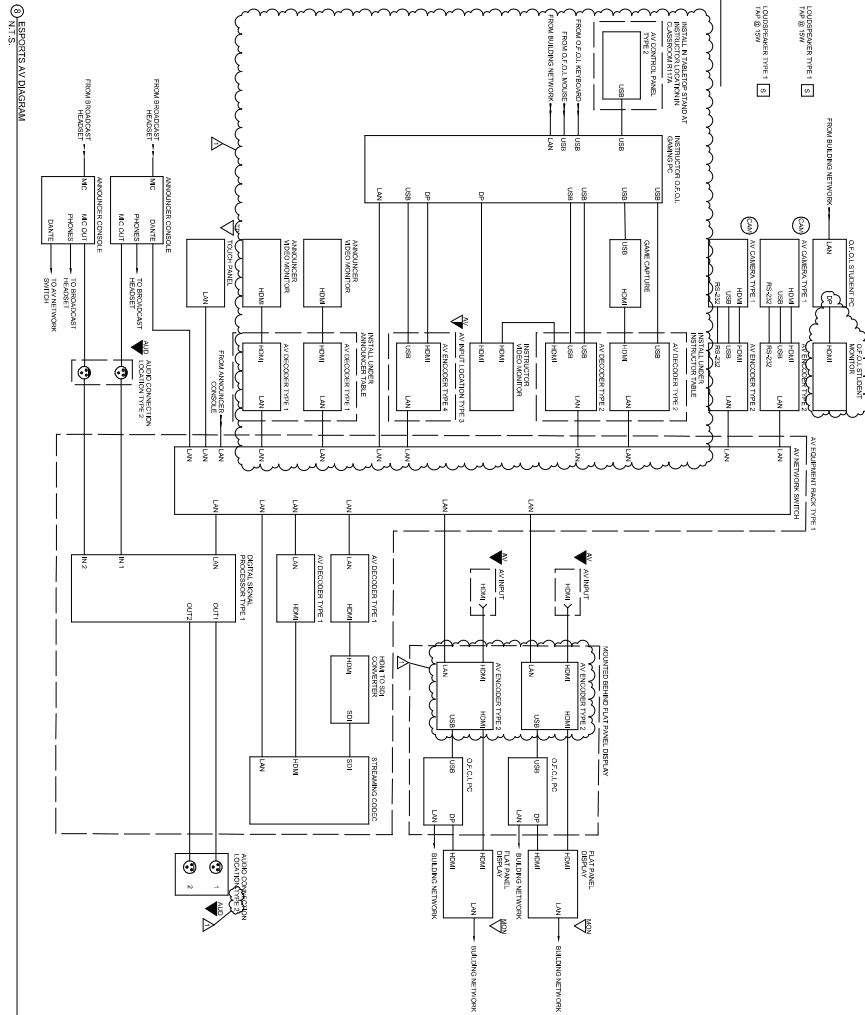
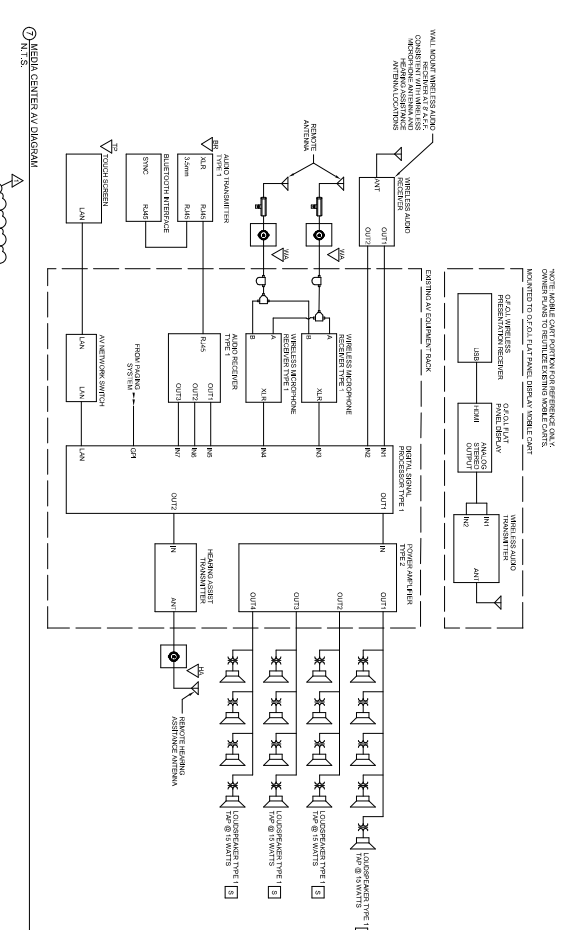
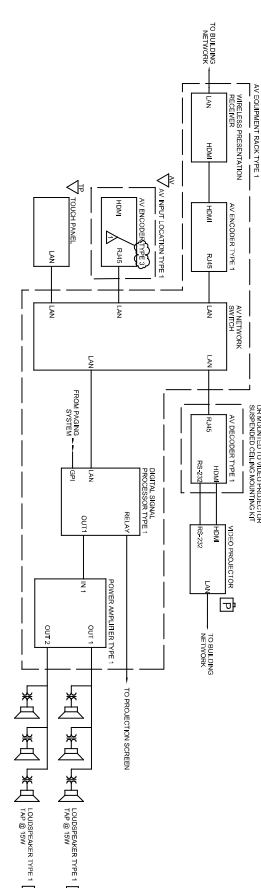
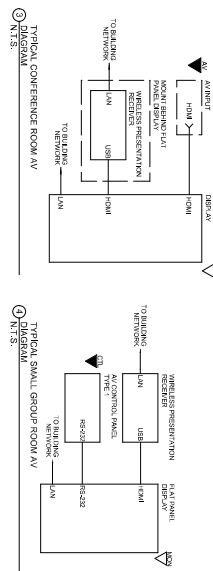
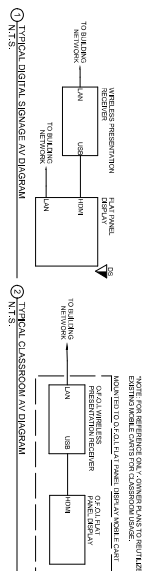
EXISTING 20'0' CENTER PATCH PANEL ELEVATION
N.T.S.

CLARK-PLEASANT COMMUNITY SCHOOL CORP.
WHITELAND COMM. HIGH SCHOOL PHASE 4
300 E MAIN ST, WHITELAND, IN 46184

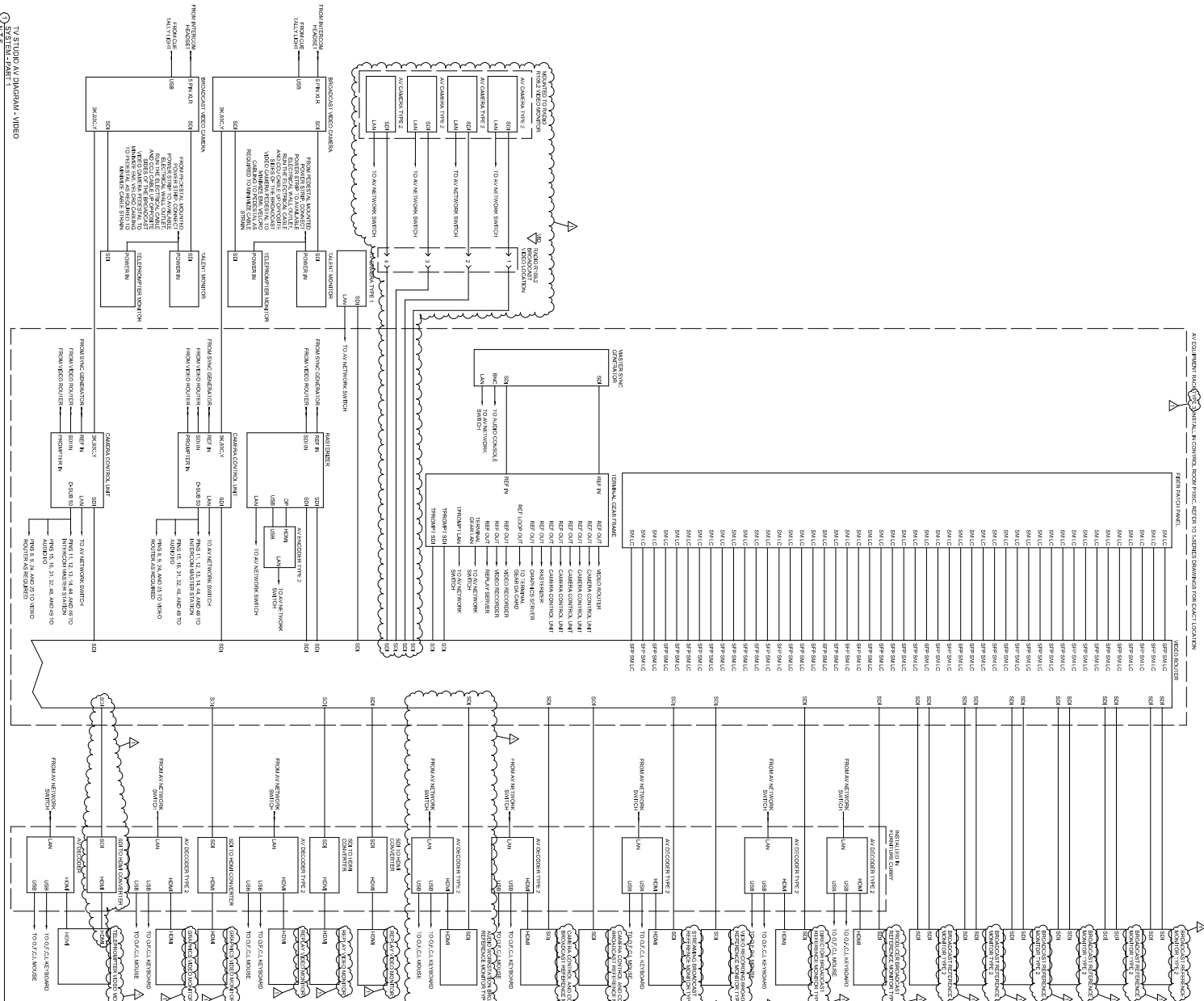


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1	12/24/2021	1

EXISTING TELECOM RACK ELEVATIONS

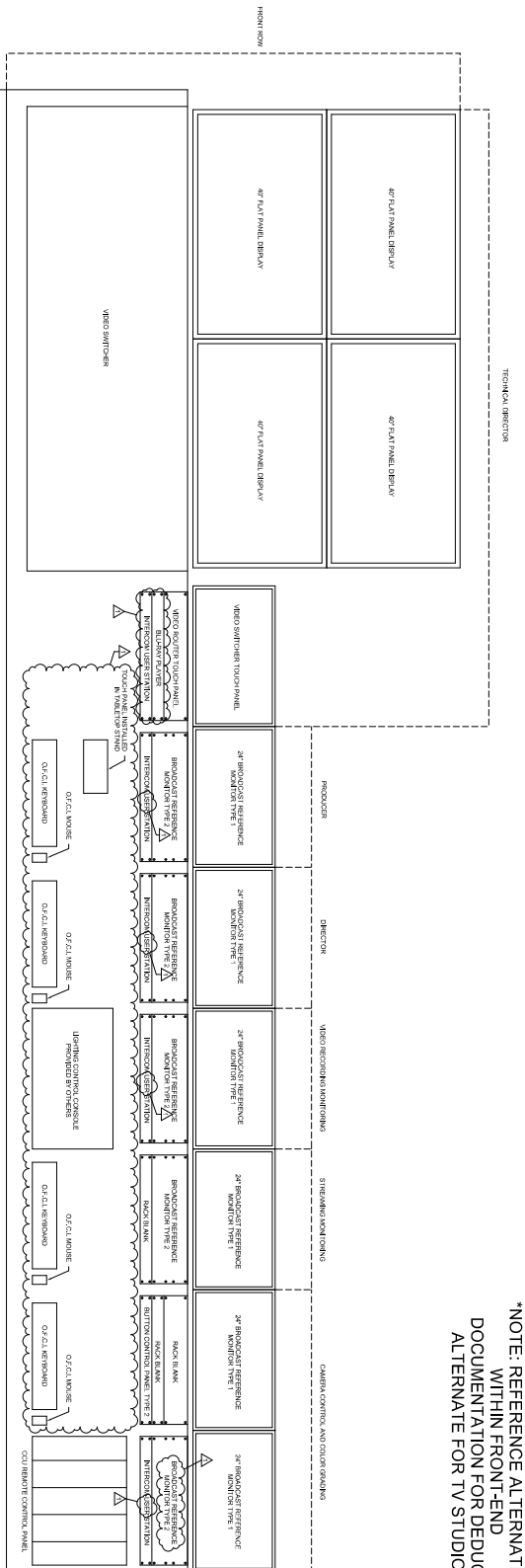


*NOTE: REFERENCE ALTERNATE #3 WITHIN FRONT-END DOCUMENTATION FOR DEDUCT ALTERNATE FOR TV STUDIO

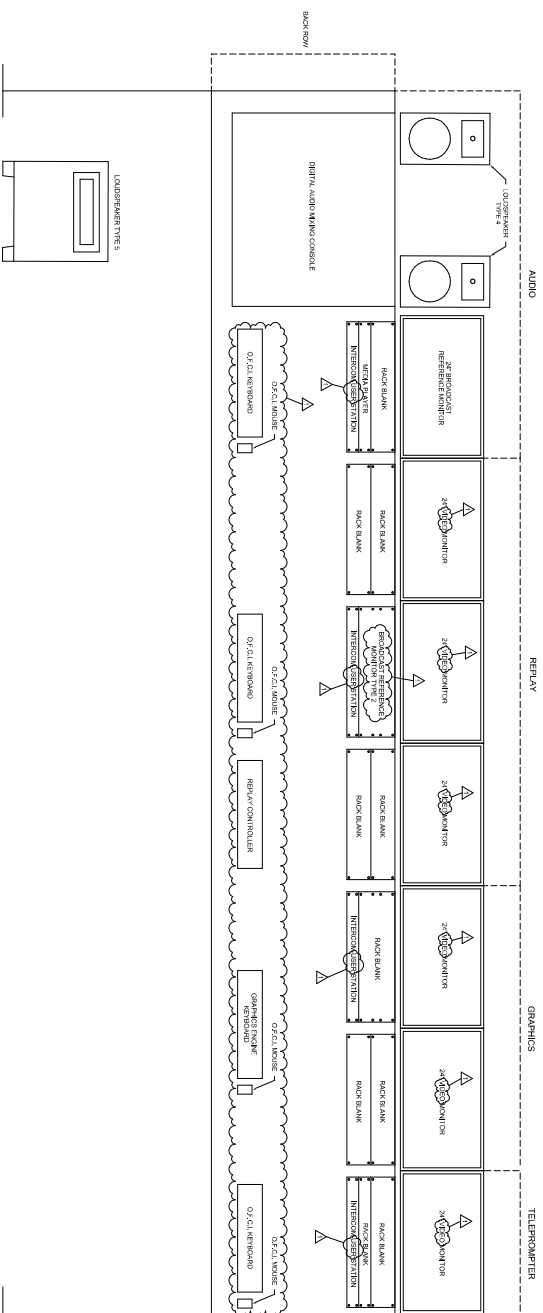


TV STUDIO AV DIAGRAM - VIDEO
© 2011 CLARK PLEASANT COMMUNITY SCHOOL CORP.

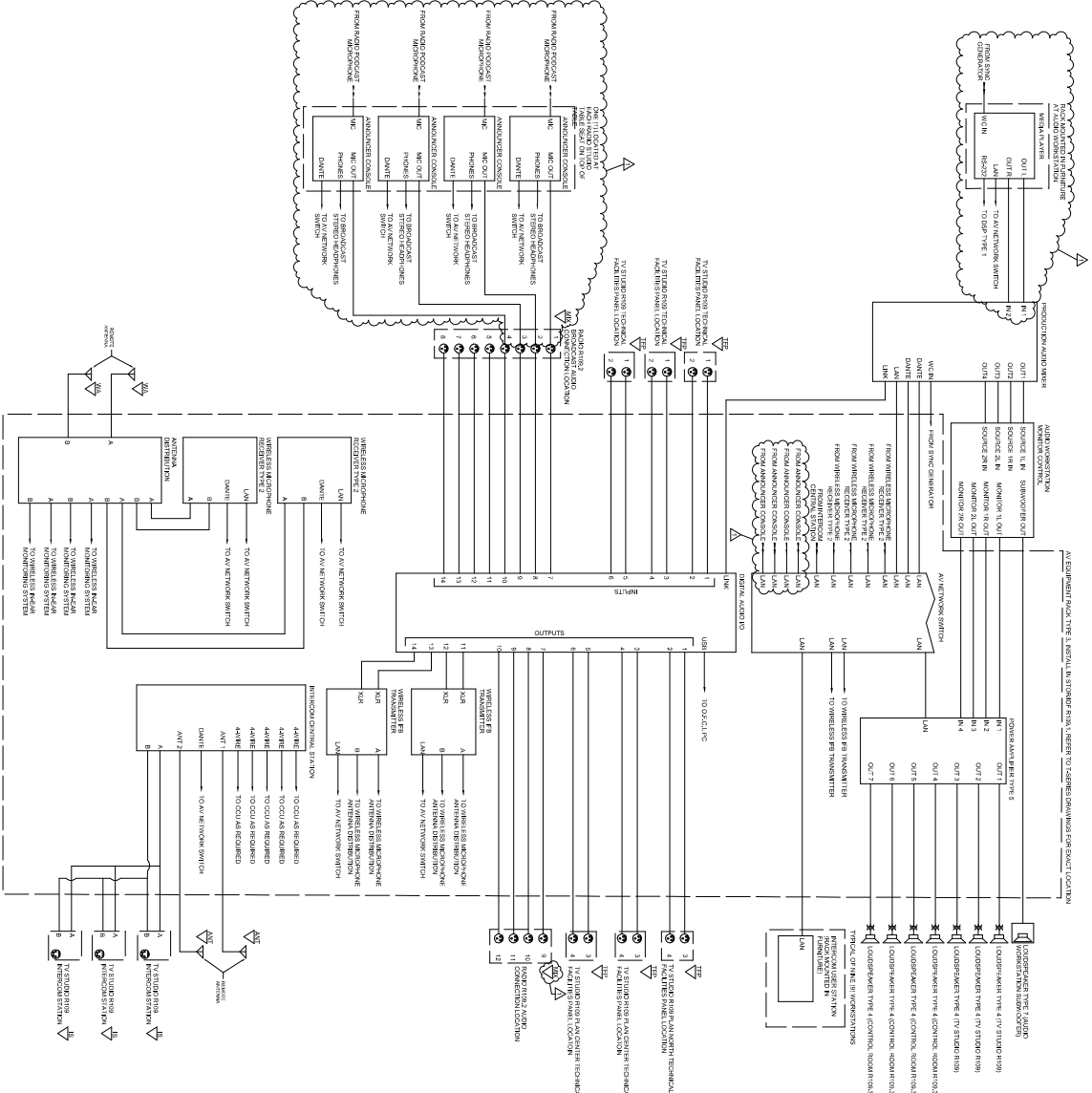




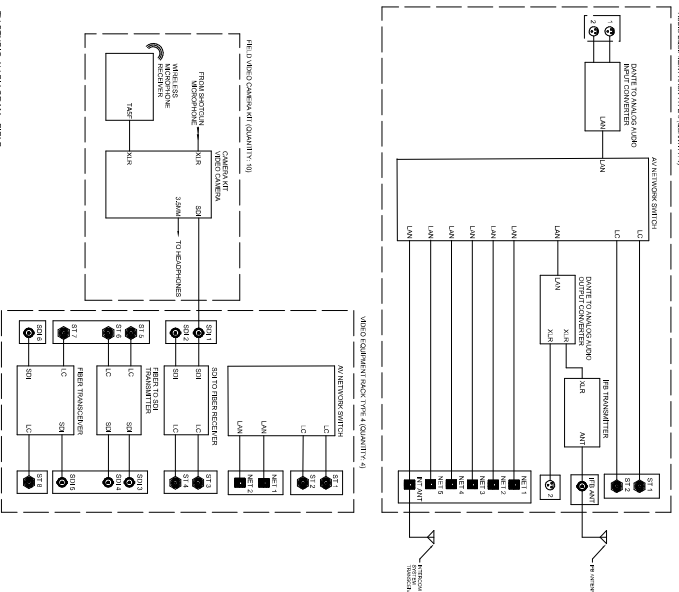
*NOTE: REFERENCE ALTERNATE #3
WITHIN FRONT-END
DOCUMENTATION FOR DEDUCT
ALTERNATE FOR TV STUDIO



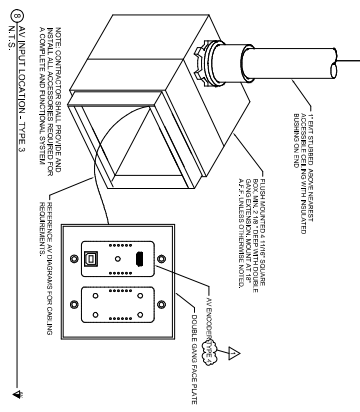
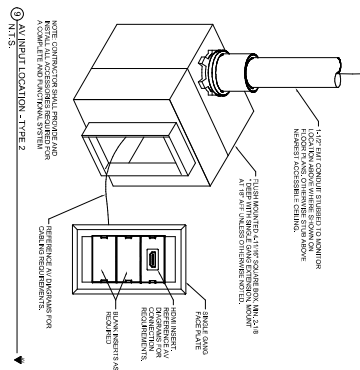
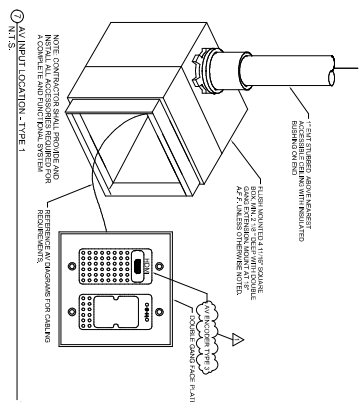
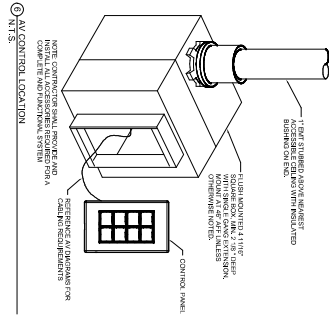
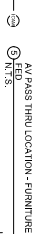
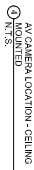
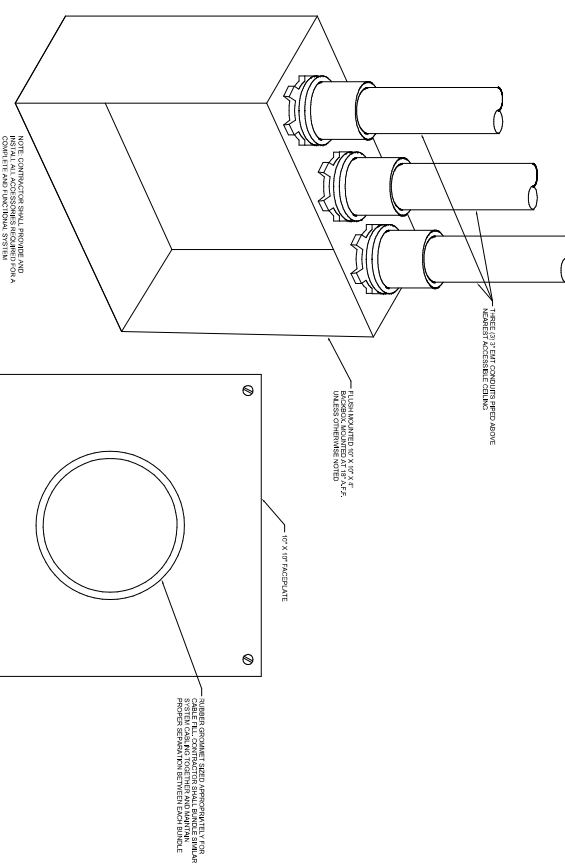
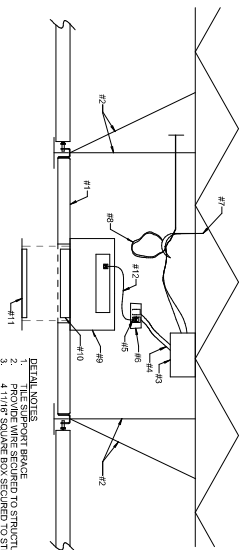
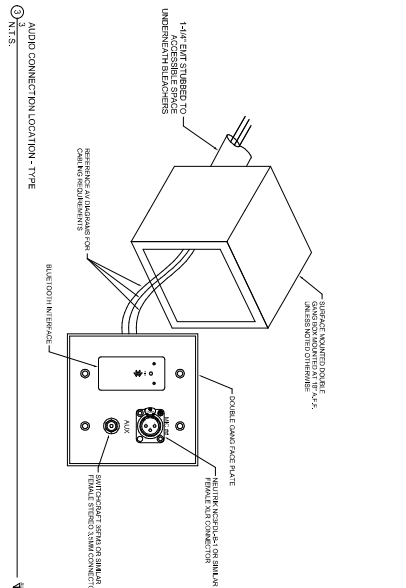
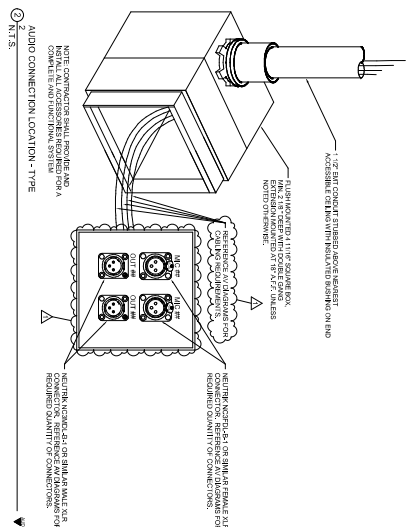
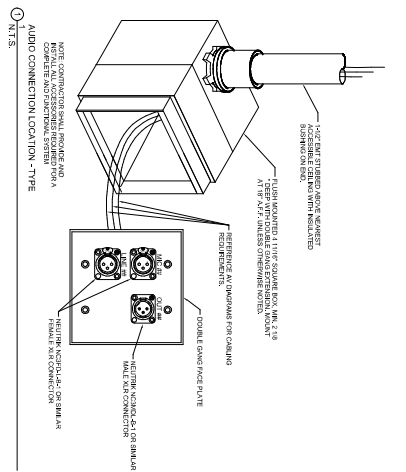
*NOTE: REFERENCE ALTERNATE #3 WITHIN FRONT-END DOCUMENTATION FOR DEDUCT ALTERNATE FOR TV STUDIO



TV STUDIO MAINS - AUDIO AND INTERCOM SYSTEM



TV STUDIO MAINS - VIDEO



[illegible]

***NOTE: VERIFY FINAL LABELING AND PATCH PANEL IDENTIFIER WITHIN RACKS WITH OWNER PRIOR TO LABELING.**