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Letter of Transmittal

TO: Plan Holders

FROM: Travis Petitjean

DATE: 10/27/2025

SUBJECT: Addendum 1
Interior Renovations of Thomas County Central High School
Thomas County School District

WE ARE SENDING YOU:

- ☐ Enclosed
- ☐ Prints
- ☐ Change order

60 Pages via EMAIL (including cover)
☐ Specifications

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1	10/24/2025	Addendum 1

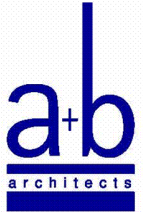
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REMARKS:

COPY : A+B File 25012 / A-1

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**INTERIOR RENOVATIONS OF
THOMAS COUNTY CENTRAL
HIGH SCHOOL
Thomas County School District**

**ADDENDUM NO. 1
October 27, 2025**

REVISIONS TO THE SPECIFICATIONS:

1. Section 004323 Alternates Form:
 - a. Delete in its entirety and replace with the attached Section 004323 Alternates Form.
2. Section 012300 Alternates:
 - a. Delete in its entirety and replace with the attached Section 012300 Alternates.
3. Section 014000 Quality Requirements:
 - a. Add the attached Schedule of Special Inspections.
 - b. Add the attached Statement of Special Inspections.
4. Section 087100 Door Hardware:
 - a. Add the attached Section 087100 in its entirety.
5. Section 230513 Common Requirements for HVAC Equipment:
 - a. On page 230513-2, paragraph 1.0.3.H., add the following:
"15. Section 238219 – Fan Coil Units (DX)
a. Fan Coil Units"
6. Section 230514 Closeout Document Requirements for HVAC:
 - a. On page 230514-3; paragraph 1.09.B., add "Fan Coil Units" to the Operational Instruction Verification Form.
 - b. On page 230514-4, Paragraph 1.10.A, change "Air Handling Units" to "Air Handling Units and Fan Coil Units" in the Transfer of Extra Materials and Spare Parts table.
7. Section 230900 Instrumentation and Control for HVAC:
 - a. On page 230900-4, Paragraph 2.02, add the following
"B. Conventional Thermostats: All conventional thermostats shall be mounted on wall at 4'-6" above finished floor, unless noted otherwise. Conventional thermostats may be provided by either the controls contractor or the equipment manufacturer. Conventional thermostats mount behind locking plastic or metal covers unless noted otherwise and as shown on drawings. All setpoints shall be adjustable.
1. FCU/CU Programmable Thermidistat: Thermidistat shall be seven day programmable type with four time periods per day and auto changeover. Thermostat shall accommodate remote inside air `temperature sensor with occupancy override feature. Thermidistat shall have configurable auxiliary output for exhaust fan or damper control. Thermidistat shall have

LCD display of room temperature and heating and cooling setpoints, relative humidity and permanent memory. Thermidistat shall support two stages of cooling, two or three stages of heating, and dehumidification control. Thermidistat shall retain heating and cooling setpoints after a power loss. Thermidistat shall not utilize batteries. Thermidistat shall incorporate keypad lock-out and adjustment for +/- 3°F off setpoint. Owner will provide start/stop times and temperatures for contractor to program the thermidistat. Where appropriate for the equipment, provide Honeywell wi-fi model TH8321WF1001 (no equal)."

- b. On page 230900-8, paragraph 3.10, add the following:

"D. Sequence of Operation for DX Fan Coil Units (FCU) and Air Cooled Condensing Units (CU):

1. Unit functions will be enabled for operation by the control system's time clock program, override timer program, night setback/setup program or morning warm up/cool down program.
2. Supply Fan Control: The supply fan shall run continuously when the control system's time clock program is in the occupied mode, override timer program is enabled, night setback/setup program is enabled or morning warm up/cool down program is enabled. Supply fan cycles as required during unoccupied periods.
3. Compressor and Electric Heat Control: The compressor(s) and outdoor condenser fan(s) shall be energized in stages as required a call for cooling. Upon a drop in space temperature, electric strip heat shall be energized in stage(s) as required to provide heat.
4. Safety Shutdown Control: The units shall be subject to shut down by the following:
 - a. Internal safeties
 - b. Field installed condensate overflow switch in the auxiliary drain pan for units specified with overflow switches
 - c. Duct mounted smoke detector on units over 2,000 cfm.
 - d. HVAC shutdown relay activated by building fire alarm panel."

8. Section 234100 Particulate Air Filtration And Bi-Polar Ionization Units:

- a. On page 234100-2, add the following as paragraph 2.03

"2.03 NEEDLEPOINT TYPE BI-POLAR IONIZATION UNITS (COMPACT TYPE)

- A. Needlepoint type compact type ionizer designed to produce positive and negative ions to kill mold, bacteria, viruses, and neutralize odors. Tube type bi-polar ionization units shall not be allowed. Technologies that do not address gas disassociation such as UV lights, powered particulate filters and/or polarized media filters shall not be considered. Uni-polar ion generators shall not be acceptable. "Plasma" particulate filters shall not be acceptable. The bipolar ionization system shall operate in such a manner that equal amounts of positive and negative ions are produced. Single pole ion devices shall not be acceptable. Bipolar ionization tubes manufactured of glass and steel mesh shall not be acceptable due to replacement requirements, maintenance, performance output reduction

over time and corrosion. Ionization output from each electrode shall be a minimum of 160 million positive and negative ions. Manufacturer shall demonstrate that no voltage potential exists due to exposed electrical components in the duct system or plenum. Ion generators shall be installed in a convenient location for visual inspection, removal, and servicing. All plasma ion generators shall include internal short circuit protection, overload protection, and automatic fault reset. Needlepoint type units shall be designed for mounting within HVAC equipment, as scheduled on the drawings. Interior mounted units shall include integral mounting tabs or magnet. Housing materials of unit shall be ABS plastic or 18-gauge powder coated steel, with carbon or stainless-steel ionization needles. Unit shall accept 24 VAC. Units shall have LED indicating operating status. Units shall be powered from the 24 VAC transformer integral with HVAC equipment. Power consumption shall be maximum 18 watts up to 2400 cfm during operating cycle. Unit shall not require airflow to operate properly, but units shall be wired to only operate when airflow is present. Units shall be suitable for -20° to 160°F temperature range, and 0-99% non-condensing humidity range. Unit shall be UL 867 approved. Unit shall be equipped with dry contact output capable of connection to BAS for monitoring a fault condition. Monitoring of the fault condition dry contact is not included in the scope of this project. Contact rating shall be 5 amp at 120V maximum. Unit shall be UL-2998 certified for no ozone. Bi-polar ionization unit shall be manufactured by Plasma Air International, Aerisa, Phenomenal Air, Global Plasma Solutions or Bioclimatic.”

9. Section 238219 Fan Coil Units:

- a. Add Section 238219 in its entirety, included herewith.

10. Section 275124 Sound Systems:

- a. Delete section 275124 in its entirety.

REVISIONS TO THE DRAWINGS:

11. Sheet A6100:

- a. Detail 1/A6100:
 - i. Delete Note 1.3 from all spaces on this Sheet except for the following; 5010-105, 5010-106, 5010-108, and 5010-109.

12. Sheet MD101:

- a. Delete Sheet MD101 in its entirety and replace with Sheet MD101, revised October 24, 2025, included herewith.

13. Sheet M101:

- a. Delete Sheet M101 in its entirety and replace with Sheet M101, revised October 24, 2025, included herewith.

14. Sheet M501:
 - a. Delete Sheet M501 in its entirety and replace with Sheet M501, revised October 24, 2025, included herewith.
15. Sheet M601:
 - a. Delete Sheet M601 in its entirety and replace with Sheet M601, revised October 24, 2025, included herewith.
16. Sheet ED101:
 - a. Delete Sheet ED101 in its entirety and replace with sheet ED101, revised October 24, 2025, included herewith.
 - i. Revised notes concerning PA and Intercom system work.
17. Sheet ED102:
 - a. Delete Sheet ED102 in its entirety and replace with sheet ED102, revised October 24, 2025, included herewith.
 - i. Revised notes concerning Intercom system work.
 - ii. Added HVAC unit demolition for existing locker room.
 - iii. Added double door removal in office.
18. Sheet ED103:
 - a. Delete Sheet ED103 in its entirety and replace with sheet ED103, revised October 24, 2025, included herewith.
 - i. Revised notes concerning Intercom system work.
19. Sheet E202:
 - a. Delete Sheet E202 in its entirety and replace with sheet E202, revised October 24, 2025, included herewith.
 - i. Added power for replacement of HVAC unit.
 - ii. Revised AV layout in office.
 - iii. Revised power for PA system (by others).
20. Sheet E301:
 - a. Delete Sheet E301 in its entirety and replace with sheet E301, revised October 24, 2025, included herewith.
 - i. Revised notes concerning PA and Intercom system work.
21. Sheet E302:
 - a. Delete Sheet E302 in its entirety and replace with sheet E302, revised October 24, 2025, included herewith.
 - i. Revised notes concerning Intercom system work.
 - ii. Revised AV layout with removal of double doors in office.
22. Sheet E303:
 - a. Delete Sheet E303 in its entirety and replace with sheet E303, revised October 24, 2025, included herewith.
 - i. Revised notes concerning Intercom system work.
23. Sheet E801:

- a. Delete Sheet E801 in its entirety and replace with sheet E801, revised October 24, 2025, included herewith.
 - i. Removed PA system detail.
 - ii. Revised lighting fixture schedule to add 'X' factory furnished battery designation.

END

SECTION 004323
ALTERNATES FORM

PART 1 - BID INFORMATION

- 1.01 Bidder: _____.
- 1.02 Project Name: Interior Renovations for Thomas County Central High School.
- 1.03 Project Location: 4686 Hwy 84, Thomasville, GA 31792
- 1.04 Owner: Thomas County School District
- 1.05 Architect: Altman + Barrett Architects.
- 1.06 Architect Project Number: 25012

PART 2 - BID FORM SUPPLEMENT

- 2.01 This form is required to be attached to the Bid Form.

PART 3 - DESCRIPTION

- 3.01 The undersigned Bidder proposes the amount below be added to or deducted from the Base Bid if particular alternates are accepted by Owner. Amounts listed for each alternate include costs of related coordination, modification, or adjustment.
- 3.02 If the alternate does not affect the Contract Sum, the Bidder shall indicate "NO CHANGE."
- 3.03 If the alternate does not affect the Work of this Contract, the Bidder shall indicate "NOT APPLICABLE."
- 3.04 The Bidder shall be responsible for determining from the Contract Documents the affects of each alternate on the Contract Time and the Contract Sum.
- 3.05 Owner reserves the right to accept or reject any alternate, in any order, and to award or amend the Contract accordingly within [60] days of the Notice of Award unless otherwise indicated in the Contract Documents.
- 3.06 Acceptance or non-acceptance of any alternates by the Owner shall have no affect on the Contract Time unless the "Schedule of Alternates" Article below provides a formatted space for the adjustment of the Contract Time.

PART 4 - SCHEDULE OF ALTERNATES

4.01 Alternate No. 1: HVAC Complete Unit Replacement for Mechanical 5010-144 and 5010-176:

- A. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.
- ____ Dollars (\$_____).
1. ADD____ DEDUCT____ (insert calendar days) to adjust the Contract Time for this alternate.

4.02 Alternate No. 2: HVAC Thermostats (Preferred Manufacturer/Type):

- A. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.
- ____ Dollars (\$_____).
1. ADD____ DEDUCT____ (insert calendar days) to adjust the Contract Time for this alternate.

4.03 Alternate No. 3: Split System Heat Pumps and Air Conditioners (Preferred Manufacturer):

- A. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.
- ____ Dollars (\$_____).
1. ADD____ DEDUCT____ (insert calendar days) to adjust the Contract Time for this alternate.

PART 5 - SUBMISSION OF BID SUPPLEMENT

- 5.01 Respectfully submitted this ____ day of _____, 2025.
- 5.02 Submitted By: _____ (Insert name of bidding firm or corporation).
- 5.03 Authorized Signature: _____ (Handwritten signature).
- 5.04 Signed By: _____ (Type or print name).
- 5.05 Title: _____ (Owner/Partner/President/Vice President).

END OF DOCUMENT 004323

SECTION 012300

ALTERNATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.03 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.04 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Execute accepted alternates under the same conditions as other work of the Contract.
- C. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 SCHEDULE OF ALTERNATES

- A. **Alternate No. 1: HVAC Complete Unit Replacement for Mechanical 5010-144 and 5010-176:**
 - 1. Additional costs for all work associated with mechanical unit replacement of CU-1A, CU-1B, CU-2A, CU-2B, AHU-1, and AHU-2.
- B. **Alternate No. 2: HVAC Thermostats (Preferred Manufacturer/Type):**
 - 1. Additional costs, if any, to provide HVAC Thermostats from Owner Preferred Manufacturer and as specified within Section 230900 in lieu of the other manufacturers specified. Base Bid proposal shall include HVAC thermostats by one of the specified manufacturers.

C. Alternate No. 3: Split System Heat Pumps and Air Conditioners (Preferred Manufacturer):

1. Additional costs, if any, to provide Split System Heat Pumps and Air Conditioners from Owner Preferred Manufacturer, Carrier Corporation, in lieu of the other manufacturers specified. Base Bid proposal shall include mechanical units by one of the specified manufacturers.

END OF SECTION 012300

SCHEDULE OF SPECIAL INSPECTIONS
FOR THOMAS COUNTY CENTRAL HIGH SCHOOL INTERIOR RENOVATION
APPENDIX B

1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's requirements.)

- 1) Inspection of anchors post-installed in solid grouted masonry: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, masonry unit, grout, masonry compressive strength, anchor embedment and tightening torque.
 - a) Field inspection
 - b) Periodic or as required by the research report issued by an approved source
 - c) Continuous Special Inspection: Where continuous special inspection is required, the Special Inspector shall observe the preparation, the drilling and cleaning of the hole, and the installation of the anchor for each and every anchor installed.
 - d) Periodic Special Inspection: Where periodic special inspection is required, the Special Inspector shall observe the preparation, the drilling and cleaning of the hole, and the installation of the first anchor installed by each installer or team of installers for each installation session. The Special Inspection is to remain in the vicinity of the work and continue to observe the work in such a manner as to observe a minimum of 10% of the anchors installed.
 - e) Anchors installed without the required inspection are unsatisfactory.

1705.2.1 Structural Steel Construction

- 1) Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, Section N 3.2 for compliance with construction documents)
 - a) Submittal Review
 - b) Each submittal
- 2) Material verification of structural steel
 - a) Shop (3) and field inspection
 - b) Periodic
- 3) Structural steel welding:
 - a) Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)
 - i) Shop (3) and field inspection
 - ii) Observe or Perform as noted (4)
 - b) Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2)
 - i) Shop (3) and field inspection
 - ii) Observe (4)
 - c) Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3)
 - i) Shop (3) and field inspection
 - ii) Observe or Perform as noted (4)
 - d) Nondestructive testing (NDT) of welded joints:
 - i) Complete penetration groove welds 5/16" or greater in risk category III or IV
 - (1) Shop (3) or field ultrasonic testing - 100%
 - (2) Periodic
 - ii) Complete penetration groove welds 5/16" or greater in risk category II
 - (1) Shop (3) or field ultrasonic testing - 10% of welds minimum
 - (2) Periodic
 - iii) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1
 - (a) Shop (3) or field radiographic or Ultrasonic testing
 - (b) Periodic

- iv) Fabricator's NDT reports when fabricator performs NDT
 - (a) Verify reports
 - (b) Each submittal (5)
- 4) Structural steel bolting:
 - a) Shop (3) and field inspection
 - b) Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1)
 - i) Observe or Perform as noted (4)
 - c) Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)
 - i) Observe (4)
 - ii) Snug-tight joints
 - (1) Periodic
 - d) Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3)
 - i) Perform (4)
- 5) Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)
 - a) Field inspection
 - b) Periodic
- 6) Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents
 - a) Field inspection
 - b) Periodic

1705.3 Concrete Construction

- 1) Inspect reinforcement, including prestressing tendons, and verify placement.
 - a) Shop (3) and field inspection
 - b) Periodic
- 2) Reinforcing bar welding:
 - a) Verification of weldability of bars other than ASTM A706.
 - i) Periodic
 - b) Inspection of single-pass fillet welds 5/16 or less in size.
 - i) Periodic
 - b) Inspection of all other welds.
 - i) Continuous
- 3) Inspection of anchors cast in concrete.
 - a) Shop (3) and field inspection
 - b) Periodic
- 4) Inspection of anchors post-installed in hardened concrete members per research reports, or, if no specific requirements are provided, requirements shall be provided by the registered design professional and approved by the building official, including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque
 - a) Field inspection
 - b) Periodic or as required by the research report issued by an approved source
 - c) Adhesive anchors installed in horizontal or upward-inclined orientation that resist sustained tension loads.
 - i) Continuous
 - d) Mechanical and adhesive anchors note defined in 4a.

- e) Periodic Continuous Special Inspection: Where continuous special inspection is required, the Special Inspector shall observe the preparation, the drilling and cleaning of the hole, and the installation of the anchor for each and every anchor installed.
- f) Periodic Special Inspection: Where periodic special inspection is required, the Special Inspector shall observe the preparation, the drilling and cleaning of the hole, and the installation of the first anchor installed by each installer or team of installers for each installation session. The Special Inspection is to remain in the vicinity of the work and continue to observe the work in such a manner as to observe a minimum of 10% of the anchors installed.
- g) Anchors installed without the required inspection are unsatisfactory.
- 5) Verify use of approved design mix
 - a) Shop (3) and field inspection
 - b) Periodic
- 6) Prior to placement:
 - a) Fabricate specimens for strength tests, fresh concrete sampling, perform slump or slump flow, and air content density tests, and determine temperature of concrete.
 - i) Shop (3) and field inspection
 - ii) Continuous
 - b) Verify that concrete specimens for strength tests are maintained in the required initial curing and laboratory curing environment, and that the maximum and minimum temperatures during the initial curing period are reported.
 - i) Shop (3) and field inspection
 - ii) Continuous
- 7) Inspection of concrete and shotcrete placement for proper application techniques
 - a) Shop (3) and field inspection
 - b) Continuous
- 8) Verify maintenance of specified curing temperature and techniques
 - a) Shop (3) and field inspection
 - b) Periodic
- 9) Inspection of prestressed concrete:
 - a) Shop (3) and field inspection
 - b) Application of prestressing force
 - i) Continuous
 - c) Grouting of bonded prestressing tendons
 - i) Continuous
- 10) Inspect erection of precast concrete members
 - a) Periodic
- 11) Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs
 - a) Review field testing and laboratory reports
 - b) Periodic
- 12) Inspection of formwork for shape, lines, location and dimensions
 - a) Field inspection
 - b) Periodic
- 13) Concrete strength testing and verification of compliance with construction documents
 - a) Field testing and review of laboratory reports
 - b) Periodic

1705.4 Masonry Construction

MINIMUM VERIFICATION REQUIREMENTS

(A) Level 1, 2 and 3 Quality Assurance:

- 1) Prior to construction, verification of compliance of submittals
 - a) Submittal Review
 - b) Prior to Construction

(B) Level 2 & 3 Quality Assurance:

- 1) Prior to construction verification of f'_m and f'_{AAC} except where specifically exempted by the code
 - a) Testing by unit strength method or prism test method
 - b) Prior to Construction
- 2) During construction, verification of Slump Flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to project site.
 - a) Testing by unit strength method or prism test method
 - b) Periodic

MINIMUM SPECIAL INSPECTION REQUIREMENTS

(D) Levels 2 and 3 Quality Assurance:

- 1) As masonry construction begins, verify that the following are in compliance:
 - a) Proportions of the site-prepared mortar
 - i) Field inspection
 - ii) Periodic
 - b) Grade and size of prestressing tendons and anchorages
 - i) Field Inspection
 - ii) Periodic
 - c) Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages
 - i) Field Inspection
 - ii) Periodic
- 2) Prior to grouting, verify that the following are in compliance:
 - a) Grout space
 - i) Field Inspection
 - ii) Level 2 - Periodic
 - b) Placement of reinforcement, connectors, and anchor bolts
 - i) Field inspection
 - ii) Level 2 - Periodic
- 3) Verify compliance of the following during construction:
 - i) Materials and procedures with the approved submittals
 - ii) Field inspection
 - iii) Periodic
- 4) Placement of masonry units and mortar joint construction
 - i) Field Inspection
 - ii) Periodic
- 5) Size and location of structural members
 - i) Field inspection

- ii) Periodic
- 6) Type, size, location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction
 - i) Field inspection
 - ii) Level 2 - Periodic
- 7) Welding of reinforcement
 - i) Field inspection
 - ii) Continuous
- 8) Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)
 - i) Field inspection
 - ii) Periodic
- 9) Application and measurement of prestressing force
 - i) Field testing
 - ii) Continuous
- 10) Placement of grout is in compliance
 - i) Field inspection
 - ii) Continuous
- 11) Observe preparation of grout specimens, mortar specimens, and/or prisms
 - a) Field inspection
 - b) Level 2 - Periodic

1705.6 Soils

- 1) Verify materials below shallow foundations are adequate to achieve the design bearing capacity.
 - a) Field inspection
 - b) Periodic
- 2) Verify excavations are extended to proper depth and have reached proper material.
 - a) Field inspection
 - b) Periodic
- 3) Perform classification and testing of compacted fill materials.
 - a) Field inspection
 - b) Periodic
- 4) Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill
 - a) Field inspection
 - b) Continuous
- 5) Prior to placement of controlled fill, inspect subgrade and verify that site has been prepared properly
 - a) Field inspection
 - b) Periodic

1705.10 Fabricated items

- 1) List of fabricated items requiring special inspection during fabrication:
 - a) Shop inspection
 - b) As noted in each applicable shop activity
- 2) List of fabricated items to be fabricated on the premises of a fabricator approved to perform such work without special inspection (including name of approved agency providing periodic auditing):
 - a)

INSPECTION AGENTS (FIRM – ADDRESS - TELEPHONE NO.)

25012 TCCHS Interior Renovations
Lindsey & Ritter, Inc.

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01400-5

- 1.
- 2.
- 3.
- 4.

Notes:

1. *The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.*
2. *The list of Special Inspectors may be submitted as a separate document, if noted so above.*
3. *Shop Inspections of fabricated items are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.1 and listed in activity 1709.2.*
4. *Observe: Observe on a random basis, operations need not be delayed pending these inspections. Perform: These tasks shall be performed for each welded joint, bolted connection, or steel element.*
5. *NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N6.*

Are Special Inspections for Seismic Resistance included in the Statement of Special Inspections? No

Are Special Inspections for Wind Resistance included in the Statement of Special Inspections? No

DATE:

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: Interior Renovations for Thomas County Central High

LOCATION: 4686 Highway 84, Thomasville, GA

PERMIT APPLICANT: Altman + Barrett Architects

APPLICANT'S ADDRESS: PO Box 665 – 117 West Main St., Hahira, GA

ARCHITECT OF RECORD: Walter Altman, AIA NCARB

STRUCTURAL ENGINEER OF RECORD: Bradley E Mercer, SE

MECHANICAL ENGINEER OF RECORD: Jake Andrews, PE

ELECTRICAL ENGINEER OF RECORD: Keith Blasingame, PE

REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: Walter Altman, AIA NCARB

This Statement of Special Inspections is submitted in accordance with Section 1704.3 of the 2018 International Building Code. It includes a *Schedule of Special Inspection Services* applicable to the above-referenced Project as well as the identity of the individuals, agencies, or firms intended to be retained for conducting these inspections. If applicable, it includes *Special Inspections for Seismic Resistance* and/or *Special Inspections for Wind Resistance*.

Are *Special Inspections for Seismic Resistance* included in the *Statement of Special Inspections*?

☐ Yes ☒ No

Are *Special Inspections for Wind Resistance* included in the *Statement of Special Inspections*?

☐ Yes ☒ No

The Special Inspector(s) shall keep records of all inspections and shall furnish interim inspection reports to the Building Official and to the Registered Design Professional in Responsible Charge at a frequency agreed upon by the Design Professional and the Building Official prior to the start of work. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge prior to completion of that phase of work. A *Final Report of Special Inspections* documenting required special inspections and corrections of any discrepancies noted in the inspections shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge at the conclusion of the project.

Frequency of interim report submittals to the Registered Design Professional in Responsible Charge:

☐ Weekly

☒ Bi-Weekly

☐ Monthly

Other; specify: _____

The Special Inspection program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of the Contractor.

Statement of Special Inspections Prepared by:

Walter Altman, AIA NCARB

Type or print name

Walter Altman

10/06/2025

Signature

Date

Building Official's Acceptance:

Signature

Date

Permit Number:

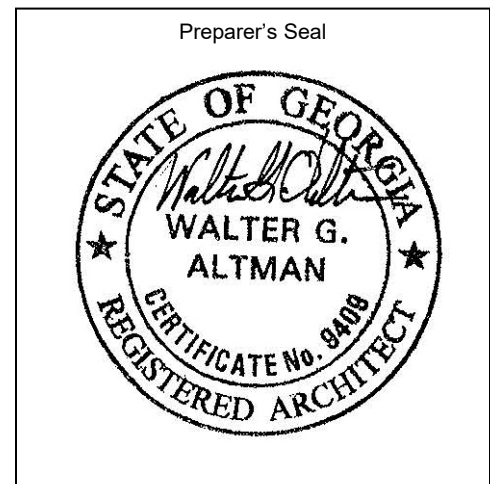
Frequency of interim report submittals to the Building Official:

☐ Monthly

☐ Bi- Monthly

☐ Upon Completion

Other; specify: _____



SECTION 087100

DOOR HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Hardware for aluminum, hollow metal, and wood doors.
- B. Hardware for fire-rated doors.
- C. Electrically operated and controlled hardware.
- D. Thresholds.
- E. Weatherstripping and gasketing.

1.02 RELATED REQUIREMENTS

- A. Section 06 20 00 - Finish Carpentry: Wood door frames.
- B. Section 07 92 00 - Joint Sealants: Sealants for setting exterior door thresholds.
- C. Section 08 11 13 - Hollow Metal Doors and Frames.
- D. Section 08 11 16 - Aluminum Doors and Frames.
- E. Section 08 12 13 - Hollow Metal Frames.
- F. Section 08 14 16 - Flush Wood Doors.
- G. Section 08 14 33 - Stile and Rail Wood Doors.
- H. Section 08 43 13 - Aluminum-Framed Storefronts: Door hardware, except as noted in section.
- I. Section 10 26 00 - Wall and Door Protection: Door and frame protection.
- J. Section 28 10 00 - Access Control: Electronic access control devices.
- K. Section 28 46 00 - Fire Detection and Alarm: Electrical connection to release magnetic holders.

1.03 REFERENCE STANDARDS

- A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.
- B. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2019.
- C. BHMA A156.1 - Standard for Butts and Hinges; 2021.
- D. BHMA A156.2 - Bored and Preamsembled Locks and Latches; 2022.
- E. BHMA A156.3 - Exit Devices; 2025.
- F. BHMA A156.4 - Door Closers and Pivots; 2024.
- G. BHMA A156.5 - Cylinders and Input Devices for Locks; 2020.
- H. BHMA A156.6 - Standard for Architectural Door Trim; 2021.
- I. BHMA A156.7 - Template Hinge Dimensions; 2022.
- J. BHMA A156.13 - Mortise Locks & Latches Series 1000; 2022.
- K. BHMA A156.15 - Release Devices - Closer Holder, Electromagnetic and Electromechanical; 2021.
- L. BHMA A156.16 - Standard for Auxiliary Hardware; 2023.
- M. BHMA A156.17 - Self Closing Hinges & Pivots; 2025.

- N. BHMA A156.18 - Standard for Materials and Finishes; 2020.
- O. BHMA A156.21 - Thresholds; 2025.
- P. BHMA A156.22 - Standard for Gasketing; 2021.
- Q. BHMA A156.25 - Electrified Locking Devices; 2023.
- R. BHMA A156.28 - Standard for Recommended Practices for Mechanical Keying Systems; 2023.
- S. BHMA A156.115 - Hardware Preparation in Steel Doors and Frames; 2016.
- T. BHMA A156.115W - Hardware Preparation in Wood Doors with Wood or Steel Frames; 2006.
- U. DHI (H&S) - Sequence and Format for the Hardware Schedule; 2019.
- V. DHI (KSN) - Keying Systems and Nomenclature; 2019.
- W. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- X. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.
- Y. ITS (DIR) - Directory of Listed Products; Current Edition.
- Z. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- AA. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2025.
- BB. NFPA 101 - Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- CC. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2022.
- DD. UL (DIR) - Online Certifications Directory; Current Edition.
- EE. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.
- FF. UL 294 - Access Control System Units; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate the manufacture, fabrication, and installation of products that door hardware is installed on.
- B. Sequence installation to ensure facility services connections are achieved in an orderly and expeditious manner.
- C. Preinstallation Meeting: Convene a preinstallation meeting one week prior to commencing work of this section; require attendance by affected installers and the following:
 - 1. Architect.
 - 2. Installer's Architectural Hardware Consultant (AHC).
 - 3. Hardware Installer.
- D. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
- E. Keying Requirements Meeting:
 - 1. Attendance Required:
 - a. Contractor.
 - b. Owner.
 - c. Installer's Architectural Hardware Consultant (AHC).
 - d. Manufacturer Representative / Key System Specialist.
 - 2. Agenda:
 - a. Establish keying requirements.
 - b. Verify locksets and locking hardware are functionally correct for project requirements.
 - c. Verify that keying and programming complies with project requirements.

- d. Establish keying submittal schedule and update requirements.
3. Incorporate "Keying Requirements Meeting" decisions into keying submittal upon review of door hardware keying system including, but not limited to, the following:
 - a. Access control requirements.
 - b. Flow of traffic and extent of security required.
4. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.
5. Deliver established keying requirements to manufacturers.

1.05 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions, finishes, and dimensions and profiles of individual components.
- C. Shop Drawings - Door Hardware Schedule: A detailed listing that includes each item of hardware to be installed on each door.
 1. Prepared by or under supervision of Architectural Hardware Consultant (AHC).
 2. Comply with DHI (H&S) using door numbering scheme and hardware set numbers as indicated in Contract Documents.
 - a. Submit in vertical format.
 3. Include complete description for each door listed.
- D. Shop Drawings - Electrified Door Hardware: Include diagrams for power, signal, and control wiring for electrified door hardware that include details of interface with building safety and security systems. Provide elevations and diagrams for each electrified door opening as follows:
 1. Prepared by or under supervision of Architectural Hardware Consultant (AHC).
 2. Elevations: Include front and back elevations of each door opening showing electrified devices with connections installed and an operations narrative describing how opening operates from either side at any given time.
 3. Diagrams: Include point-to-point wiring diagrams that show each device in door opening system with related colored wire connections to each device.
- E. Manufacturer's Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- F. Manufacturer's qualification statement.
- G. Supplier's qualification statement.
- H. Installer's qualification statement.
- I. Operation and Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
- J. Keying Schedule:
 1. Submit three copies of Keying Schedule complying with requirements established during Keying Requirements Meeting unless otherwise indicated.
- K. Executed Warranty.
- L. Project Record Documents: Record actual locations of concealed equipment, services, and conduit.
- M. Maintenance Materials and Tools: Furnish the following for Owner's use in maintenance of project.
 1. See Section 01 60 00 - Product Requirements, for additional provisions.
 2. Tools: One set of each special wrench or tool applicable for each different or special hardware component, whether supplied by hardware component manufacturer or not.

1.06 QUALITY ASSURANCE

- A. Standards for Fire-Rated Doors: Maintain one copy of each referenced standard on site, for use by Architect and Contractor.
- B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.
- C. Supplier Qualifications: Company with certified Architectural Hardware Consultant (AHC) to assist in work of this section.
- D. Installer Qualifications: Company specializing in performing work of the type specified for commercial door hardware with at least three years of documented experience.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. See Section 01 74 19 - Construction Waste Management and Disposal for packaging waste requirements.
- B. Package hardware items individually; label and identify each package with door opening code to match door hardware schedule.

1.08 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.
- B. Manufacturer Warranty: Provide manufacturer warranty against defects in material and workmanship for period indicated, from Date of Substantial Completion. Complete forms in Owner's name and register with manufacturer.
 - 1. Closers: Thirty-five years.
 - 2. Exit Devices:
 - a. Mechanical: Five years.
 - b. Electrical: Two years.
 - 3. Locksets:
 - a. Mechanical: Five years.
 - b. Electrical: Two years.
 - 4. Cylinders: Three years.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

- A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.
- B. Locks: Provide a lock for each door, unless it is indicated that lock is not required.
 - 1. Lock Function: Provide lock and latch function numbers and descriptions of manufacturer's Series, as indicated in hardware sets.
 - 2. Trim: Provide lever handle or pull trim on outside of each lock, unless otherwise indicated.
 - 3. Strikes:
 - a. Finish: To match lock or latch.
 - b. Curved-Lip Strikes: Provide as standard, with extended lip to protect frame, unless otherwise indicated.
- C. Closers:
 - 1. Provide door closer on each exterior door, unless otherwise indicated.
 - 2. Provide door closer on each fire-rated and smoke-rated door.
 - 3. Spring hinges are not an acceptable self-closing device, unless otherwise indicated.

- D. Drip Guards: Provide at head of out swinging exterior doors unless protected by roof or canopy directly overhead.
- E. Thresholds:
 - 1. Interior Applications: Provide when specified at interior doors for transition between two different floor types, and over building expansion joints, unless otherwise indicated.
 - 2. Exterior Applications: Provide at each exterior door, unless otherwise indicated.
- F. Weatherstripping and Gasketing:
 - 1. Provide weatherstripping on each exterior door at head, jambs, and meeting stiles of door pairs, unless otherwise indicated.
 - 2. Provide door bottom sweep on each exterior door, unless otherwise indicated.
- G. Electrically Operated and/or Controlled Hardware: Provide necessary power supplies, power transfer hinges, relays, and interfaces as required for proper operation; provide wiring between hardware and control components and to building power connection in compliance with NFPA 70.
- H. See Section 28 10 00 for additional access control system requirements.
- I. Fasteners:
 - 1. Provide fasteners of proper type, size, quantity, and finish that comply with commercially recognized standards for proposed applications.
 - a. Aluminum fasteners are not permitted.
 - b. Provide Phillips flat-head screws with heads finished to match door surface hardware unless otherwise indicated.
 - 2. Provide machine screws for attachment to reinforced hollow metal and aluminum frames.
 - a. Self-drilling (Tek) type screws are not permitted.
 - 3. Provide stainless steel machine screws and lead expansion shields for concrete and masonry substrates.
 - 4. Provide wall grip inserts for hollow wall construction.
 - 5. Fire-Resistance-Rated Applications: Comply with NFPA 80.
 - a. Provide wood or machine screws for hinges mortised to doors or frames, strike plates to frames, and closers to doors and frames.
 - b. Provide steel through bolts for attachment of surface mounted closers, hinges, or exit devices to door panels unless proper door blocking is provided.

2.02 PERFORMANCE REQUIREMENTS

- A. Provide door hardware products that comply with the following requirements:
 - 1. Applicable provisions of federal, state, and local codes.
 - a. ICC (IBC).
 - 2. Accessibility: ADA Standards and ICC A117.1.
 - 3. Fire-Resistance-Rated Doors: NFPA 80, listed and labeled by qualified testing agency for fire protection ratings indicated, based on testing at positive pressure in accordance with NFPA 252 or UL 10C.
 - 4. Hardware on Fire-Resistance-Rated Doors: Listed and classified by UL (DIR) or ITS (DIR) as suitable for application indicated.
 - 5. Hardware Preparation for Steel Doors and Steel Frames: BHMA A156.115.
 - 6. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.
 - 7. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified.

2.03 HINGES

- A. Manufacturers:
 - 1. BEST, dormakaba Group: www.bestaccess.com/#sle.
 - 2. McKinney.

3. PBB.
- B. Properties:
 1. Butt Hinges: As applicable to each item specified.
 - a. Standard Weight Hinges: Minimum of two (2) permanently lubricated non-detachable bearings.
 - b. Heavy Weight Hinges: Minimum of four (4) permanently lubricated bearings on heavy weight hinges.
 - c. Template screw hole locations.
 - d. Bearing assembly installed after plating.
 - e. Bearings: Exposed fully hardened bearings.
 - f. Bearing Shells: Shapes consistent with barrels.
 - g. Pins: Easily seated, non-rising pins.
 - 1) Fully plated hinge pins.
 - 2) Non-Removable Pins: Slotted stainless steel screws.
 - h. UL 10C listed for fire-resistance-rated doors.
 2. Spring Hinges:
 - a. Heavy duty spring-hinges only where specified.
- C. Sizes: See Door Hardware Schedule.
 1. Sufficient size to allow 180 degree swing of door.
- D. Finishes: See Door Hardware Schedule.
 1. Fully polished butt hinges; front, back, and barrel.
 2. Clear-coated Aluminum finish continuous hinges.
- E. Grades:
 1. Butt Hinges: Comply with BHMA A156.1 and BHMA A156.7 for templated hinges.
- F. Material: Base metal as indicated for each item by BHMA material and finish designation.
- G. Types:
 1. Butt Hinges: Include full mortise hinges.
 2. Continuous Hinges: Provide Aluminum geared continuous hinges, where indicated in hardware sets.
- H. Quantities:
 1. Butt Hinges: Three (3) hinges per leaves up to 90 inches in height. Add one (1) for each additional 30 inches in height or fraction thereof.
 - a. Hinge weight and size unless otherwise indicated in hardware sets:
 - 1) For doors up to 36 inches wide and up to 1-3/4 inches thick provide hinges with a minimum thickness of 0.134 inch and a minimum of 4-1/2 inches in height.
 - 2) For doors from 36 inches wide up to 42 inches wide and up to 1-3/4 inches thick provide hinges with a minimum thickness of 0.145 inch and a minimum of 4-1/2 inches in height.
 - 3) For doors from 42 inches wide up to 48 inches wide and up to 1-3/4 inches thick provide hinges with a minimum thickness of 0.180 inch and a minimum of 5 inches in height.
 - 4) For doors greater than 1-3/4 inches thick provide hinges with a minimum thickness of 0.180 inch and a minimum of 5 inches in height.
- I. Applications: At swinging doors.
 1. Provide non-removable pins at out-swinging doors with locking hardware and all exterior doors.
- J. Products:
 1. Butt Hinges: Ball Bearing; FBB Series.
 2. Spring Hinges: 2060R.

2.04 EXIT DEVICES

- A. Manufacturers:
 - 1. BEST, dormakaba Group: www.bestaccess.com/#sle.
 - 2. dormakaba: www.dormakaba.com/#sle.
 - 3. Sargent.
- B. Properties:
 - 1. Actuation: Push Pad.
 - 2. Chassis:
 - a. Construction: Investment cast steel, zinc dichromate plated.
 - b. Compatibility: Standard Stile and Narrow Stile doors.
 - 3. Touchpads: 'T' style metal touchpads and rail assemblies with matching chassis covers end caps.
 - 4. Latch Bolts: Stainless steel deadlocking with 3/4 inch projection using latch bolt.
 - 5. Lever Design: Match project standard lockset trims.
 - 6. Cylinder: Include where cylinder dogging or locking trim is indicated.
 - 7. Strike as recommended by manufacturer for application indicated.
 - 8. Sound dampening on touch bar.
 - 9. Dogging:
 - a. Non-Fire-Resistance-Rated Devices: Cylinder dogging.
 - b. Fire-Resistance-Rated Devices: Manual dogging is not permitted.
 - c. Motorized Latch Retraction Exit Devices: No dogging.
 - 10. Touch bar assembly on wide style exit devices to have a 1/4 inch clearance to allow for vision frames.
 - 11. All exposed exit device components to be of architectural metals and "true" architectural finishes.
 - 12. Handing: Field-reversible.
 - 13. Fasteners on Back Side of Device Channel: Concealed - exposed fasteners not allowed.
 - a. Provide through-bolts, where indicated in hardware sets.
 - 14. Vertical Latch Assemblies' Operation: Gravity, without use of springs.
 - a. Latch Bolts: Stainless steel, with 1/2 inch throw.
- C. Grades: Complying with BHMA A156.3, Grade 1.
 - 1. Provide exit devices tested and certified by UL or by a recognized independent laboratory for mechanical operational testing to 10 million cycles minimum with inspection confirming Grade 1 Loaded Forces have been maintained.
- D. Standards Compliance:
 - 1. UL Listed for Panic and Fire for Class II Circuitry.
 - 2. Provide UL (DIR) listed exit device assemblies for fire-resistance-rated doors.
 - 3. Comply with UL 10C.
- E. Options:
 - 1. Electrified Devices:
 - a. Latchbolt Retraction: Motorized latchbolt retraction.
 - 2. Internally mounted switch used to signal other components.
 - 3. Furnish less bottom rod (LBR) at scheduled locations to eliminate use of floor mounted strikes.
 - 4. Electrified Device Voltage: 24 VDC.
- F. Products:
 - 1. BEST(Precision) 2000 Series.

2.05 REMOVABLE MULLIONS

- A. Manufacturers:
 - 1. BEST, dormakaba Group: www.bestaccess.com/#sle.

2. dormakaba: www.dormakaba.com/#sle.
 3. Sargent.
- B. Properties:
1. Rectangular shape 3 inches by 2 inches tubes with minimum 1/8 inch wall thickness.
 2. Pre-drilled holes for installation of exit device strikes.
 3. Spacers: Provide as required for proper installation, based on frame profile and dimensions.
- C. Grades: Comply with BHMA A156.3.
- D. Materials: Manufacturer's standard for specified items.
1. Top and Bottom Brackets: Investment-cast steel.
- E. Options:
1. Furnish Keyed Removable "KR" feature and corresponding cylinders as specified.
 - a. Mullions capable of being installed without physical key present.
 - b. Physical key required to operate.
- F. Applications: As indicated on drawings and in Door Hardware Schedule.
1. Fire-Resistance-Rated Openings: Mullions with UL Listed Labels and mullion stabilizers.
- G. Products:
1. BEST, Precision 822 Series.

2.06 LOCK CYLINDERS

- A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.
- B. Properties:
1. Lock Cylinders: Provide key access on outside of each lock, unless otherwise indicated.
 - a. Provide cams and/or tailpieces as required for locking devices.
 - b. Provide cylinders with appropriate format interchangeable cores where indicated.
- C. Grades:
1. Standard Security Cylinders: Comply with BHMA A156.5.
- D. Material:
1. Manufacturer's standard corrosion-resistant brass alloy.
- E. Types: As applicable to each item specified.
- F. Products:
1. Rim/mortise. 12E / 1E Series.

2.07 CYLINDRICAL LOCKS

- A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.
 2. dormakaba: www.dormakaba.com/#sle.
 3. Sargent.
- B. Properties:
1. UL listed for use on single or pairs of doors with fire-resistance-rating up to 3 hours and latchbolt throw of 1/2 inch.
 2. Mechanical Locks:
 - a. Fitting modified ANSI A115.2 door preparation.
 - b. Door Thickness Fit: 1-3/8 inches to 2-1/4 inches thick doors.
 - c. Construction: Hub, side plate, shrouded rose, locking pin to be a one-piece casting with a shrouded locking lug.
 - 1) Through-bolted anti-rotational studs.

- 2) Lock chassis constructed of steel, stainless steel and zinc components.
- d. Cast stainless steel latch retractor with roller bearings for exceptionally smooth operation and superior strength and durability.
- e. Bored Hole: 2-1/8 inch diameter.
- f. Backset: 2-3/4 inches unless otherwise indicated.
- g. Latch: Single piece tail-piece construction.
 - 1) Latchbolt Throw: 9/16 inch, minimum.
- h. Cylinders:
 - 1) Cylinder Core Types: Locks capable of supporting manufacturers' cores, as applicable.
 - (a) Small format interchangeable.
- i. Lever Trim:
 - 1) Style: See Door Hardware Schedule.
 - 2) Functionality: Allow the lever handle to move up to 45 degrees from horizontal position prior to engaging the latchbolt assembly.
 - 3) Strength: Locksets outside locked lever designed to withstand minimum 1,400 inch-lbs. of torque. In excess of that, a replaceable part will shear. Key from outside and/or inside lever will still operate lockset.
 - 4) Independent spring mechanism for each lever.
 - (a) Contain lever springs in the main lock hub.
 - 5) Outside Lever Sleeve: Seamless one-piece construction.
 - 6) Keyed Levers: Removable only after core is removed by authorized control key.
- 3. Electrified Locks (where applicable): Same properties as standard locks, and as follows:
 - a. Voltage: 24 VDC.
 - b. Function: Electrically locked (Fail Safe) or unlocked (Fail Secure), as indicated for each lock in Door Hardware Schedule.
 - c. Temperature Control Module (TCM).
 - d. Internal request-to-exit feature.
- C. Finishes: See Door Hardware Schedule.
 - 1. Core Faces: Match finish of lockset.
- D. Grades: Comply with BHMA A156.2, Grade 1, Series 4000, Operational Grade 1, Extra Heavy Duty.
 - 1. Durability: Passing 100 Million cycle tests verified by third party testing agency.
- E. Material: Manufacturer's standard for specified lock.
 - 1. Critical Latch and Chassis Components: Brass or corrosion-resistance treated steel.
 - 2. Outside Lever Sleeve: Hardened steel alloy.
- F. Products: Cylindrical locks, including mechanical and electrified types.
 - 1. 9K Series.

2.08 CLOSERS

- A. Manufacturers:
 - 1. BEST, dormakaba Group: www.bestaccess.com/#sle.
 - 2. dormakaba: www.dormakaba.com/#sle.
 - 3. LCN.
- B. Properties:
 - 1. Surface Mounted Closers: Manufacturer's standard.
 - a. Construction: Corrosion-resistant silicone aluminum alloy.
 - b. Maximum Projection from Face of Door: 2-7/16 inches.
 - c. Hydraulic Fluid: All-weather type.
 - d. Arm Assembly: Standard for product specified.

- 1) Include hold-open, integral stop, or spring-loaded stop feature, as specified in Door Hardware Schedule.
 - 2) Parallel arm to be a heavy-duty rigid arm.
 - 3) Where "IS" or "S-IS" arms are specified in hardware sets, if manufacturer does not offer this arm provide a regular arm mount closer in conjunction with a heavy-duty overhead stop equal to a dormakaba 900 Series.
- e. Covers:
- 1) Type: Standard for product selected.
 - (a) Full.
 - 2) Material: Plastic.
 - 3) Finish: Painted.
 - 4) Attachment: Two-point flange mounting, dual-clamp friction fit closer cover.
- C. Grades:
1. Closers: Comply with BHMA A156.4, Grade 1.
 - a. Underwriters Laboratories Compliance:
 - 1) Product Listing: UL (DIR) and ULC for use on fire-resistance-rated doors.
 - (a) UL 228 - Door Closers-Holders, With or Without Integral Smoke Detectors.
- D. Types:
1. Rack-and-pinion, surface-mounted. 1-1/2 inches minimum bore.
- E. Options:
1. Delayed action, adjustable with an independent valve.
 2. Advanced backcheck.
 3. Adjustable, for force or angle of opening hold open.
 4. Cushion limit stay.
- F. Installation:
1. Mounting: Includes surface mounted and concealed, overhead mounted installations.
 2. Mount closers on non-public side of door and stair side of stair doors unless otherwise noted in hardware sets.
 3. At out swinging exterior doors, mount closer on interior side of door.
 4. Provide adapter plates, shim spacers, and blade stop spacers as required by frame and door conditions.
 5. Where an overlapping astragal is included on pairs of swinging doors, provide coordinator to ensure door leaves close in proper order.
- G. Products:
1. Surface Mounted:
 - a. HD8000 Series.

2.09 OVERHEAD STOPS

- A. Manufacturers:
 - 1. Dormakaba.
 - 2. ABH.
 - 3. Glynn-Johnson.
- B. Properties:
 - 1. Stop settings at 90 degrees, unless otherwise indicated.
- C. Sizes: Manufacturer's standard for the application.
- D. Finishes:
 - 1. Arms and Brackets: Zinc-plated.
- E. Grades: As applicable to specified item.
 - 1. Comply with BHMA A156.8, Grade 1
- F. Material: Base metal as indicated for each item by BHMA material and finish designation.
 - 1. Track Channel: Extruded Aluminum alloy.
 - 2. Side Block: Machined from solid brass alloy.
- G. Types:
 - 1. Surface applied.
- H. Products:
 - 1. 900 Series (Heavy Duty)

2.10 PROTECTION PLATES

- A. Manufacturers:
 - 1. Burns.
 - 2. Rockwood.
 - 3. Don-Jo.
- B. Properties:
 - 1. Plates:
 - a. Kick Plates: Provide along bottom edge of push side of door, where indicated in hardware sets.
 - 1) Size: 10 inches high by 2 inches less than door width (LDW) on push side of door.
 - b. Edges: Beveled, on four (4) unless otherwise indicated.
- C. Grades: Comply with BHMA A156.6.
- D. Material: As indicated for each item by BHMA material and finish designation.
 - 1. Metal Properties: Stainless steel.
 - a. Metal, Standard Duty: Thickness 0.050 inch, minimum.
- E. Installation:
 - 1. Fasteners: Countersunk screw fasteners
- F. Products:
 - 1. KP50.

2.11 STOPS AND HOLDERS

- A. Manufacturers:
 - 1. Burns.
 - 2. Rockwood.
 - 3. Don-Jo.
- B. General: Provide overhead stop/holder when wall or floor stop is not feasible.

- C. Grades:
 - 1. Door Holders, Wall Bumpers, and Floor Stops: Comply with BHMA A156.16 and Resilient Material Retention Test as described in this standard.
- D. Material: Base metal as indicated for each item by BHMA material and finish designation.
- E. Types:
 - 1. Wall Bumpers: Bumper, concave, wall stop.
- F. Installation:
 - 1. Non-Masonry Walls: Confirm adequate wall reinforcement has been installed to allow lasting installation of wall bumpers.
- G. Products:
 - 1. Wall Bumpers. 575

2.12 THRESHOLDS

- A. Manufacturers:
 - 1. National Guard Products, Inc (NGP): www.ngpinc.com/#sle.
 - 2. Reese.
 - 3. Pemko.
- B. Properties:
 - 1. Threshold Surface: Fluted horizontal grooves across full width.
- C. Threshold Grades: Comply with BHMA A156.21.
- D. Material: Base metal as indicated for each item by BHMA material and finish designation.
 - 1. Threshold Assemblies: Aluminum.
- E. Types: As applicable to project conditions. Provide barrier-free type at every location where specified.
 - 1. Saddle Thresholds: Without thermal break.
 - 2. Verify existing conditions and provide suitable threshold for existing floor covering(s).
- F. Products:
 - 1. 425

2.13 WEATHERSTRIPPING AND GASKETING

- A. Manufacturers:
 - 1. National Guard Products, Inc (NGP): www.ngpinc.com/#sle.
 - 2. Reese.
 - 3. Pemko.
- B. Properties:
 - 1. Weatherstripping Air Leakage Performance: Not exceeding 0.3 cfm/sq ft of door opening at 0.3 inches of water pressure differential for single doors, and 0.5 cfm/sq ft of door area at 0.3 inches of water pressure differential for double doors for gasketing other than smoke control, as tested according to ASTM E283/E283M; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.
 - 2. Adhesive-Backed Perimeter Gasketing: Silicone gasket material applied to frame (or door edge where applicable) with self- adhesive.
 - 3. Rigid, Housed, Perimeter Gasketing: Sponge neoprene gasket material held in place by aluminum housing; fastened to frame stop with screws.
- C. Grades: Comply with BHMA A156.22.
- D. Products:
 - 1. Weatherstripping: See Door Hardware Schedule.
 - 2. Smoke Seals: See Door Hardware Schedule.

3. Meeting Stile Seals: See Door Hardware Schedule.
4. Door Bottom Seals:
 - a. Door Sweeps: See Door Hardware Schedule.

2.14 MISCELLANEOUS ITEMS

- A. Manufacturers:
 1. Burns Manufacturing, Inc: www.burnsmfg.com/#sle.
 2. Don-Jo Manufacturing, Inc: www.don-jo.com/#sle.
 3. Rockwood.
- B. Properties:
 1. Silencers: Provide at equal locations on door frame to mute sound of door's impact upon closing.
 - a. Single Door: Provide three on strike jamb of frame.
 - b. Pair of Doors: Provide two on head of frame, one for each door at latch side.
 - c. Material: Rubber, gray color.
- C. Products:
 1. Silencers
 - a. 500.

2.15 ELECTRIFIED HARDWARE

- A. Manufacturers:
 1. BEST, dormakaba Group: www.bestaccess.com/#sle.
 2. RCI.
 3. Sargent.
- B. Properties:
 1. Door Position Switches: Recessed devices with magnetic contacts.
 - a. Power Requirement: 50mA Max, 100 VDC.
 - b. SPDT configuration.
 2. Power Supply Units: Manufacturer's standard.
 - a. Regulatory Compliance:
 - 1) United States Compliance:
 - (a) UL listed for Class II Output.
 - (b) Comply with UL 294 standards incorporating enhanced Access Control communications capabilities.
 - b. Enclosures: Lockable NEMA Type 1, with hinged cover and knockouts.
 - c. Power: 24VDC filtered, regulated output.
 - 1) Incoming Power Voltage: 120 VAC.
 - 2) Input circuit protection fuse.
 - 3) Output circuit protection with 3 Amp push-to-reset breaker.
 - d. Emergency Release Terminals: Designed to release devices upon activation of fire alarm system.
 - e. Auxiliary contacts for remote signaling.
 - f. User-selectable time delay from 0 to 4 minutes.
 - g. Fire Alarm System Interface: Standard.
 - 1) Fire alarm terminal with green LED indicating power is available.
 - h. Output Distribution Board with indicator LEDs.
 - i. Battery backup.
 - j. On/Off LED power indicator.
 3. Power Transfers: Manufacturer's standard.
 - a. Mortised Type:
 - 1) Stainless steel housing and flexible tube.

- 2) Capacity: Up to 5/16 inch diameter wire bundle (ten (10) 22-gauge Teflon coated wires).
 - 3) Accommodate 120 degree door swing.
- C. Products:
1. Door Position Switches:
 - a. RCI 9540 Recessed Magnetic Contact/Door Position Switch
 2. Power Supplies:
 - a. BEST Precision RPSMLR2 Series
 3. Power Transfers:
 - a. BEST EPT-5 (Mortise type, no wires)

2.16 KEYS AND CORES

- A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.
- B. Properties: Complying with guidelines of BHMA A156.28.
1. Provide small format interchangeable core.
 2. Provide Patented CORMAX keys and cores. Verify existing keyway requirements with Owner.
 3. Provide keying information in compliance with DHI (KSN) standards.
 4. Keying Schedule: Arrange for a keying meeting, with Architect, Owner and hardware supplier, and other involved parties to ensure locksets and locking hardware, are functionally correct and keying complies with project requirements.
 5. Keying: Great grand master keyed. Verify requirements with Owner.
 6. Include construction keying and control keying with removable core cylinders.
 7. Do not make brass construction cores and construction control and operating keys a part of Owner's permanent keying system, nor furnish in the same keyway (or key section) as Owner, permanent keying system.
 8. Key to existing keying system. Verify requirements with Owner.
 9. Supply keys in following quantities:
 - a. Grand Master Keys: 1 each.
 - b. Master Keys: 4 each.
 - c. Construction Master Keys: 6 each.
 - d. Construction Keys: 15 each.
 - e. Construction Control Keys: 2 each.
 - f. Control Keys if New System: 2 each.
 - g. Change Keys: 2 each for each cylinder.
 10. Provide key collection envelopes, receipt cards, and index cards in quantity suitable to manage number of keys.
 11. Deliver keys with identifying tags to Owner by security shipment direct from manufacturer.
 12. Permanent Keys and Cores: Stamped with applicable key marking for identification. Do not include actual key cuts within visual key control marks or codes. Stamp permanent keys "Do Not Duplicate."
 13. Include installation of permanent cores and return construction cores to hardware supplier. Construction cores and keys to remain property of hardware supplier.
- C. Products:
1. Patented:
 - a. CORMAX.

2.17 FINISHES

- A. Finishes: Identified in Hardware Sets.
- B. Exceptions:

1. Where base material metal is specified to be different, provide finish that is an equivalent appearance in accordance with BHMA A156.18.
2. Hinges for Fire-Rated Doors: Steel base material with painted finish, in compliance with NFPA 80.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that doors and frames are ready to receive this work; labeled, fire-rated doors and frames are properly installed, and dimensions are as indicated on shop drawings.
- B. Correct all defects prior to proceeding with installation.
- C. Verify that electric power is available to power operated devices and of correct characteristics.

3.02 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.
- B. Install hardware using the manufacturer's fasteners provided. Drill and tap all screw holes located in metallic materials. Do not use "Riv-Nuts" or similar products.
- C. Install hardware on fire-rated doors and frames in accordance with applicable codes and NFPA 80.
- D. Use templates provided by hardware item manufacturer.
- E. Do not install surface mounted items until application of finishes to substrate are fully completed.
- F. Wash down masonry walls and complete painting or staining of doors and frames.
- G. Complete finish flooring prior to installation of thresholds.
- H. Door Hardware Mounting Heights: Distance from finished floor to center line of hardware item as directed by hardware manufacturer.
- I. Set exterior door thresholds with full-width bead of elastomeric sealant at each point of contact with floor providing a continuous weather seal. Anchor thresholds with stainless steel countersunk screws.
 1. See Section 07 92 00 for additional requirements.
- J. Include in installation for existing doors and frames any necessary field modification and field preparation of doors and frames for new hardware. Provide necessary fillers, reinforcements, and fasteners for mounting new hardware and to cover existing door and frame preparations.

3.03 FIELD QUALITY CONTROL

- A. Perform field inspection and testing under provisions of Section 01 40 00 - Quality Requirements.

3.04 ADJUSTING

- A. Adjust work under provisions of Section 01 70 00 - Execution and Closeout Requirements.
- B. Adjust hardware for smooth operation.
- C. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

3.05 CLEANING

- A. Clean finished hardware in accordance with manufacturer's written instructions after final adjustments have been made.
- B. Clean adjacent surfaces soiled by hardware installation activities.
- C. Replace items that cannot be cleaned to manufacturer's level of finish quality at no additional cost.
- D. See Section 01 74 19 - Construction Waste Management and Disposal, for additional requirements.

3.06 PROTECTION

- A. Protect finished Work under provisions of Section 01 70 00 - Execution and Closeout Requirements.
- B. Do not permit adjacent work to damage hardware or finish.

3.07 HARDWARE SETS

Manufacturer List

Code:	Name:
ABH	Architectural Builders Hardware
BES	BEST
PRE	BEST (Precision)
BRN	Burns Manufacturing
DK	dormakaba
NGP	National Guard Products
RCI	Rutherford Controls, Inc.

Option List

Code:	Name:
TS	Touchbar Monitoring Switch
LBR	Less bottom rod
B4E Heavy	Heavy Beveled Edges
RP3	Rings for 7-pin cylinder
FL	Fire Rated Hardware
S3B	Strike with Plastic Box
CSK	Countersunk Holes
PATD	Patented keyed core
S3	ANSI 4-7/8" Strike
MLR	Motorized Latch Retraction
CD	Cylinder Dogging
S458	Optional roller strike
10-24 SS MS/LA	10-24 Stainless Steel Machine Screw/Lead Anchor
LAR	Length As Required
RP	Rim Cylinder Ring
NRP	Non-Removable Pin

Finish List

Code:	Name:
A	Anodized Aluminum
B	Brown
W	White
US27	Mill Aluminum
26D	Satin Chromium plated
32D	Satin Stainless Steel
600	Primer
626	Satin Chromium plated
630	Satin Stainless Steel
689	Aluminum painted

HARDWARE SETS

Set #1 - EXT.ALUM. / CARD READER

Doors: 5010-153A, 5010-175B

6	Hinge / Pivot	Existing to Remain		
2	Power Transfer	EPT-5		PRE
1	Mullion	RM 0 KR 822 MCS	689	PRE
1	Exit Device	MLR TS 2103 A S458 1703	630	PRE
1	Exit Device	TS 2102 CD A S458 1702	630	PRE
2	Rim Cylinder	12E 7 2 PATD RP	626	BES
1	Mortise Cylinder	1E 7 4 RP3 PATD	626	BES
1	Door Closer	HD80 16 SDS PC SNDTPK	689	BES
2	Blade Stop Spacer	BSHD	689	BES
2	Drop Plate	DP80	689	BES
1	Gasketing	5100N 86"		NGP
1	Gasketing	Provided by Aluminum Door Manufacturer		
2	Sweep	200S LAR	A	NGP
1	Threshold	425 LAR (10-24 SS MS/LA)	A	NGP
2	Door Position Switch	9540	W	RCI
1	Power Supply	RPSMLR2BB		PRE
1	Card Reader	Existing to remain		

NOTE: Existing Aluminum frame. Verify existing hinge preps and provide hinges or pivots as required. Doors normally closed, latched, and locked. Turning key in outside cylinder retracts latch bolt, allowing active leaf to be pulled open. Presenting valid credential to card reader retracts motorized latch bolt, allowing entry through active leaf. Door Position Switches monitor door status. Request-to-Exit Switches in exit devices are activated upon depressing push pad, shunting forced door alarm at Access Control System. Manual free egress is possible at all times through both leaves. Coordinate wiring and electrical requirements with Electrical Contractor and Access Control Contractor.

Set #2 - EXT.HM.

Doors: 5010-170A

6	Hinge	FBB199 NRP 4-1/2" X 4-1/2"	32D	BES
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1	Mullion	RM 0 KR 822 MCS	600	PRE
1	Exit Device	2103 CD A S458 1703	630	PRE
1	Exit Device	2102 CD A S458 1702	630	PRE
2	Rim Cylinder	12E 7 2 PATD RP	626	BES
2	Mortise Cylinder	1E 7 4 RP3 PATD	626	BES
2	Door Closer	HD80 16 SDS PC SNDTPK	689	BES
2	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
1	Gasketing	5100N 86"		NGP
1	Gasketing	127S Head & Jambs (2)	A	NGP
2	Sweep	200S LAR	A	NGP
1	Threshold	425 LAR (10-24 SS MS/LA)	A	NGP

NOTE: Existing HM frame. Verify type and condition of existing hinge preps.

Set #3 - EXT.HM.

Doors: 5010-168B

3	Hinge	FBB199 NRP 4-1/2" X 4-1/2"	32D	BES
1	Exit Device	2103 CD A 1703 48"	630	PRE
1	Rim Cylinder	12E 7 2 PATD RP	626	BES
1	Mortise Cylinder	1E 7 4 RP3 PATD	626	BES
1	Door Closer	HD80 16 SDS PC SNDTPK	689	BES
1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
1	Gasketing	127S Head & Jambs (2)	A	NGP
1	Sweep	200S LAR	A	NGP
1	Threshold	425 LAR (10-24 SS MS/LA)	A	NGP

NOTE: Existing HM frame. Verify type, size, and condition of existing hinge preps.

Set #4 - EXT.HM. / CARD READER

Doors: 5020-107A

6	Hinge	FBB199 NRP 4-1/2" X 4-1/2"	32D	BES
2	Power Transfer	EPT-5		PRE
1	Mullion	RM 0 KR 822 MCS	600	PRE
1	Exit Device	MLR TS 2103 A S458 1703 48"	630	PRE
1	Exit Device	TS 2102 CD A S458 1702 48"	630	PRE
2	Rim Cylinder	12E 7 2 PATD RP	626	BES
1	Mortise Cylinder	1E 7 4 RP3 PATD	626	BES
2	Door Closer	HD80 16 SDS PC SNDTPK	689	BES
2	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
1	Gasketing	5100N 86"		NGP
1	Gasketing	127S Head & Jambs (2)	A	NGP
2	Sweep	200S LAR	A	NGP
1	Threshold	425 LAR (10-24 SS MS/LA)	A	NGP
1	Power Supply	RPSMLR2BB		PRE
2	Door Position Switch	9540	W	RCI

1 Card Reader Provided by Access Control System Contractor

NOTE: Existing HM frame. Verify type and condition of existing hinge preps. Operation: Turning key in outside cylinder retracts latch bolt, allowing active leaf to be pulled open. Presenting valid credential to card reader retracts motorized latch bolt, allowing entry through active leaf. Door Position Switches monitor door status. Request-to-Exit Switches in exit devices are activated upon depressing push pad, shunting forced door alarm at Access Control System. Manual free egress is possible at all times through both leaves. Coordinate wiring and electrical requirements with Electrical Contractor and Access Control Contractor.

Set #5 – EXT.HM.

Doors: 5020-110B

6	Hinge	FBB199 NRP 4-1/2" X 4-1/2"	32D	BES
1	Mullion	RM 0 KR 822 MCS	600	PRE
1	Exit Device	2103 CD A S458 1703 48"	630	PRE
1	Exit Device	2102 CD A S458 1702 48"	630	PRE
2	Rim Cylinder	12E 7 2 PATD RP	626	BES
2	Mortise Cylinder	1E 7 4 RP3 PATD	626	BES
2	Door Closer	HD80 16 SDS PC SNDTPK	689	BES
2	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
1	Gasketing	5100N 86"		NGP
1	Gasketing	127S Head & Jambs (2)	A	NGP
2	Sweep	200S LAR	A	NGP
1	Threshold	425 LAR (10-24 SS MS/LA)	A	NGP

NOTE: Existing HM frame. Verify type and condition of existing hinge preps.

Set #6 -

Doors: 5010-166A, 5010-175A

6	Hinge	FBB168 NRP 4-1/2" X 4-1/2"	26D	BES
1	Mullion	RM 0 KR 822 MCS	600	PRE
1	Exit Device	2103 CD D S458 4903	630	PRE
1	Exit Device	2102 CD D S458 4902	630	PRE
2	Rim Cylinder	12E 7 2 PATD RP	626	BES
2	Mortise Cylinder	1E 7 4 RP3 PATD	626	BES
2	Door Closer	HD80 16 SPA PC SNDTPK	689	BES
2	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
2	Wall Stop	575	630	BRN
1	Gasketing	5100N Mullion		NGP
1	Gasketing	5050 Head & Jambs (2)	B	NGP

Set #7 -

Doors: 5010-104C, 5010-104D

6	Hinge	FBB168 NRP 4-1/2" X 4-1/2"	26D	BES
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1	Exit Device	2203 CD LBR 4903 D	630	PRE
1	Exit Device	2202 CD LBR 4902 D	630	PRE
1	Rim Cylinder	12E 7 2 PATD RP	626	BES
2	Mortise Cylinder	1E 7 4 RP3 PATD	626	BES
2	Door Closer	HD80 16 SDST PC SNDTPK	689	BES
2	Kick Plate	KP50 10" Door Width less 1" CSK B4E Heavy	630	BRN
1	Gasketing	5050 Head & Jambs (2)	B	NGP
1	Gasketing	5070 84"	B	NGP

Set #8 -

Doors: 5010-104A, 5010-104B

6	Hinge	FBB168 NRP 5 X 4-1/2"	26D	BES
1	Exit Device	2203 CD LBR 4903 D 48"	630	PRE
1	Exit Device	2202 CD LBR 4902 D 48"	630	PRE
1	Rim Cylinder	12E 7 2 PATD RP	626	BES
2	Mortise Cylinder	1E 7 4 RP3 PATD	626	BES
2	Door Closer	HD80 16 SDST PC SNDTPK	689	BES
2	Kick Plate	KP50 10" Door Width less 1" CSK B4E Heavy	630	BRN
1	Gasketing	5050 Head & Jambs (2)	B	NGP
1	Gasketing	5070 84"	B	NGP

NOTE: Existing frame. Verify size, type, and condition of existing hinge preps on frame. Provide new heavy wt. hinges as required. Prep existing head as required to properly install new exit device strikes.

Set #9 -

Doors: 5010-168A

6	Hinge	FBB168 4-1/2" X 4-1/2"	26D	BES
1	Flushbolt	1863S	US32D	ABH
1	Flushbolt	1855S	US32D	ABH
1	Dust Proof Strike	1870	US32D	ABH
1	Cylindrical Lock	9K 3 7 R 14 D S3B PATD	626	BES
2	Door Closer	HD80 16 DST PC SNDTPK	689	BES
2	Kick Plate	KP50 10" Door Width less 1" CSK B4E Heavy	630	BRN
1	Astragal	139SP LAR	A	NGP
1	Gasketing	5050 Head & Jambs (2)	B	NGP

NOTE: Mount astragal on push side (Wrestling Room) of inactive leaf.

Set #10 -

Doors: 5010-169A

6	Hinge	FBB168 NRP 4-1/2" X 4-1/2"	26D	BES
1	Flushbolt	1863S	US32D	ABH
1	Flushbolt	1855S	US32D	ABH
1	Dust Proof Strike	1870	US32D	ABH

1	Cylindrical Lock	9K 3 7 R 14 D S3B PATD	626	BES
2	Door Closer	HD80 16 DST PC SNDTPK	689	BES
2	Kick Plate	KP50 10" Door Width less 1" CSK B4E Heavy	630	BRN
1	Wall Stop	575	630	BRN
2	Silencer	500	Gray	BRN

NOTE: Mount wall stop for LHR leaf only.

Set #11 -

Doors: 5020-110A

6	Hinge	FBB168 NRP 4-1/2" X 4-1/2"	26D	BES
2	Exit Device	FL 2208 LBR 4908 D	630	PRE
2	Rim Cylinder	12E 7 2 PATD RP	626	BES
1	Door Closer	HD80 16 AF80P PC SNDTPK	689	BES
2	Kick Plate	KP50 10" Door Width less 1" CSK B4E Heavy	630	BRN
2	Wall Stop	575	630	BRN
1	Gasketing	5050 Head & Jambs (2)	B	NGP
1	Gasketing	672NA SET	A	NGP
2	Automatic Door Bottom	423N 36"	US27	NGP

Set #12 -

Doors: 5020-109A

3	Hinge	FBB168 NRP 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 R 14 D S3 PATD	626	BES
1	Door Closer	HD80 16 DS PC SNDTPK	689	BES
1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
1	Gasketing	5050 Head & Jambs (2)	B	NGP
1	Automatic Door Bottom	423N 36"	US27	NGP

Set #13 -

Doors: 5010-148A, 5010-152A

3	Hinge	FBB168 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 D 14 D S3 PATD	626	BES
1	Door Closer	HD80 16 ISH PC SNDTPK	689	BES
1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
3	Silencer	500	Gray	BRN

Set #14 -

Doors: 5010-139A, 5010-145A, 5010-149A, 5010-154A

3	Hinge	FBB168 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 R 14 D S3 PATD	626	BES
1	Door Closer	HD80 16 AF80P PC SNDTPK	689	BES

1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
1	Mop Plate	MP50 Door Width less 1" 6" CSK B4E Heavy	630	BRN
1	Wall Stop	575	630	BRN
3	Silencer	500	Gray	BRN

NOTE: Mount closer on pull side of door.

Set #15 -

Doors: 5010-143A

3	Hinge	FBB168 NRP 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 R 14 D S3 PATD	626	BES
1	Mop Plate	MP50 Door Width less 1" 6" CSK B4E Heavy	630	BRN
1	Wall Stop	575	630	BRN
3	Silencer	500	Gray	BRN

Set #16 -

Doors: 5010-169B

3	Hinge	FBB168 NRP 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 R 14 D S3 PATD	626	BES
1	Door Closer	HD80 16 AF80P PC SNDTPK	689	BES
1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
1	Wall Stop	575	630	BRN
3	Silencer	500	Gray	BRN

Set #17 -

Doors: 5020-112A

3	Hinge	FBB168 NRP 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 R 14 D S3 PATD	626	BES
1	Door Closer	HD80 16 DS PC SNDTPK	689	BES
1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
3	Silencer	500	Gray	BRN

Set #18 -

Doors: 5020-115A

3	Hinge	FBB168 NRP 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 R 14 D S3 PATD	626	BES
1	Door Closer	HD80 16 DST PC SNDTPK	689	BES
1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
3	Silencer	500	Gray	BRN

Set #19 -

Doors: 5010-138A

3	Hinge	FBB168 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 R 14 D S3 PATD	626	BES
1	Wall Stop	575	630	BRN
3	Silencer	500	Gray	BRN

NOTE: Verify desired lock function with Owner.

Set #20 -

Doors: 5010-164A

3	Hinge	FBB191 4-1/2" X 4-1/2"	32D	BES
1	Cylindrical Lock	9K 3 7 D 14 D S3 PATD	626	BES
1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
1	Wall Stop	575	630	BRN
3	Silencer	500	Gray	BRN
1	Mop Plate	MP50 Door Width less 1" 6" CSK B4E Heavy	630	BRN

Set #21 -

Doors: 5010-144.1A

3	Hinge	FBB179 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 D 14 D S3 PATD	626	BES
1	Door Closer	HD80 16 AF80P PC SNDTPK	689	BES
1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
1	Wall Stop	575	630	BRN
3	Silencer	500	Gray	BRN

Set #22 -

Doors: 5020-114A

3	Hinge	FBB179 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 D 14 D S3 PATD	626	BES
1	Wall Stop	575	630	BRN
3	Silencer	500	Gray	BRN

Set #23 -

Doors: 5010-171A

3	Hinge	FBB168 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 D 14 D S3 PATD	626	BES
1	Door Closer	HD80 16 ISH PC SNDTPK	689	BES
1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN

3	Silencer	500	Gray	BRN
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Set #24 -

Doors: 5010-173A, 5010-174A

3	Hinge	FBB179 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 AB 14 D S3 PATD	626	BES
3	Silencer	500	Gray	BRN
1	Wall Stop	575	630	BRN
1	Coat Hook	602	630	BRN

Set #25 -

Doors: 5020-111A

3	Hinge	FBB179 NRP 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 AB 14 D S3 PATD	626	BES
1	Overhead Stop	90 2 S	626	DK
3	Silencer	500	Gray	BRN

Set #26 -

Doors: 5010-158A

3	Hinge	FBB179 4-1/2" X 4-1/2"	26D	BES
1	Cylindrical Lock	9K 3 7 AB 14 D S3 PATD	626	BES
1	Wall Stop	575	630	BRN
1	Gasketing	5050 Head & Jambs (2)	B	NGP
1	Coat Hook	602	630	BRN

Set #27 -

Doors: 5010-141A, 5010-142A, 5010-156A, 5010-157A

3	Hinge	FBB179 4-1/2" X 4-1/2"	26D	BES
1	Privacy Set	9K 3 0 L 14 D S3	626	BES
1	Door Closer	HD80 16 AF80P PC SNDTPK	689	BES
1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
1	Mop Plate	MP50 Door Width less 1" 6" CSK B4E Heavy	630	BRN
1	Gasketing	2525 Head & Jambs (2)	B	NGP
1	Wall Stop	575	630	BRN

Set #28 -

Doors: 5010-163A

3	Hinge	FBB179 4-1/2" X 4-1/2"	26D	BES
1	Privacy Set	9K 3 0 L 14 D S3	626	BES
1	Door Closer	HD80 16 IS PC SNDTPK	689	BES

1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
1	Mop Plate	MP50 Door Width less 1" 6" CSK B4E Heavy	630	BRN
1	Gasketing	2525 Head & Jambs (2)	B	NGP

Set #29 -

Doors: 5010-160A

3	Hinge	FBF179 4-1/2" X 4-1/2"	26D	BES
1	Privacy Set	9K 3 0 L 14 D S3	626	BES
1	Door Closer	HD80 16 AF80P PC SNDTPK	689	BES
1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
1	Gasketing	2525 Head & Jambs (2)	B	NGP
1	Wall Stop	575	630	BRN

Set #30 -

Doors: 5020-113A

3	Hinge	FBF179 4-1/2" X 4-1/2"	26D	BES
1	Privacy Set	9K 3 0 L 14 D S3	626	BES
1	Door Closer	HD80 16 DS PC SNDTPK	689	BES
1	Kick Plate	KP50 10" Door Width less 2" CSK B4E Heavy	630	BRN
1	Gasketing	2525 Head & Jambs (2)	B	NGP

Set #31 - STALL

Doors: 5010-162B, 5010-162C, 5010-162D, 5010-162E, 5010-162F, 5010-162G, 5010-165B, 5010-165C, 5010-165D

2	Hinge	2060R 4-1/2" X 4-1/2"	32D	BES
1	Hinge	FBF191 4-1/2" X 4-1/2"	32D	BES
1	Privacy Set	9K 3 0 L 14 D S3	626	BES
1	Wall Stop	575	630	BRN
2	Silencer	500	Gray	BRN

NOTE: No wall stop at Door 165B

Set #32 -

Doors: 5010-140A, 5010-146A, 5010-150A, 5010-155A, 5010-162A, 5010-165A

3	Hinge	FBF168 4-1/2" X 4-1/2"	26D	BES
1	Push / Pull	73L x 5326C	630	BRN
1	Door Closer	HD80 16 AF80P PC SNDTPK	689	BES
1	Kick Plate	KP50 10" Door Width less 1" CSK B4E Heavy	630	BRN
1	Mop Plate	MP50 Door Width less 1" 6" CSK B4E Heavy	630	BRN
1	Wall Stop	575	630	BRN
3	Silencer	500	Gray	BRN

Set #33 - PLATES FOR EXISTING HINGE PREPS

Doors: 5010-167B

3 Hinge Filler Plate As Required

NOTE: Bondo and sand hinge and strike prep of existing door frame. Provide hinge filler plates as required.

OPENING LIST:

OPENING #	SET #	RATING
5010-104A	8	
5010-104B	8	
5010-104C	7	
5010-104D	7	
5010-138A	19	
5010-139A	14	
5010-140A	32	
5010-141A	27	
5010-142A	27	
5010-143A	15	
5010-144.1A	21	
5010-145A	14	
5010-146A	32	
5010-148A	13	60
5010-149A	14	
5010-150A	32	
5010-152A	13	60
5010-153A	1	
5010-154A	14	
5010-155A	32	
5010-156A	27	
5010-157A	27	
5010-158A	26	
5010-160A	29	
5010-162A	32	
5010-162B	31	
5010-162C	31	
5010-162D	31	
5010-162E	31	
5010-162F	31	
5010-162G	31	
5010-163A	28	
5010-164A	20	
5010-165A	32	
5010-165B	31	
5010-165C	31	
5010-165D	31	
5010-166A	6	
5010-167B	33	

5010-168A	9	
5010-168B	3	
5010-169A	10	
5010-169B	16	
5010-170A	2	
5010-171A	23	
5010-173A	24	
5010-174A	24	
5010-175A	6	
5010-175B	1	
5020-107A	4	
5020-109A	12	60
5020-110A	11	60
5020-110B	5	
5020-111A	25	
5020-112A	17	
5020-113A	30	
5020-114A	22	
5020-115A	18	

END OF SECTION

SECTION 238219

FAN COIL UNITS

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section includes DX fan-coil units and accessories.

1.02 SUBMITTALS

- A. Product Data: Include rated capacities, fan curves, operating characteristics, furnished specialties, and accessories.
- B. Operation and Maintenance Data: For fan-coil units, submit operation and maintenance data under provisions of Division 23 - Common Requirements for HVAC Equipment.

1.03 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Capacities, pressure drops and selection procedure shall be in accordance with ARI – 240.

1.04 WARRANTY

- A. See Division 23 - Closeout Document Requirements for HVAC for warranty information.

PART 2 - PRODUCTS

2.01 FAN COIL UNITS (FCUS) (6 TONS NOMINAL AND LARGER)

- A. General: Furnish and install DX fan coil units of the packaged type complete with internally insulated casing, drain pan, forward curved blade centrifugal or plenum fan, fan motor, belt or direct drive, and access panels to all internal parts. Coil shall be of the direct expansion type. Unit shall be multi-position design for horizontal or vertical installation without modification. Supplementary heating shall be provided by external mounted electric resistance heaters.
- B. Casing: Galvanized steel with baked-on enamel finish. The internal insulation shall be minimum 1/2" thick, anti-microbial coated insulation complying with NFPA-90A. Access panels shall be removable on both sides to provide complete access to all internal components. Air flow arrangement shall be as indicated on the drawings.
- C. Fan: Fan shall be belt drive, statically and dynamically balanced. Provide adjustable sheaves.
- D. Motors: Motors shall be mounted on an adjustable mount furnished with the unit. Fan motor shall be two speed, with pre-programmed variable frequency drive control for staged air volume. Staged air volume shall utilize VFD to adjust indoor motor speed with cooling operation. During the first stage of cooling, VFD shall adjust the fan motor to provide two-thirds of total cfm of unit. Upon call for second stage, unit shall require 100% of cfm, and during heating VFD shall operate at 100% cfm. VFD shall allow soft start of motor to slowly ramp up to speed, and shall provide internal overcurrent protection for the fan motor. Fan pulley adjustment shall be made to establish fan performance settings and total

cfm. VFD shall not be used to balance air flow. Motor shall have permanently lubricated sealed bearings and thermally protected motor for FCU blowers shall be provided integral with the unit. Variable frequency drive shall be IGBT PWM type, installed inside fan coil unit cabinet and factory mounted, wired and tested. Provide display kit to allow ability to access VFD controller programs for setup and diagnostics, and to troubleshoot VFD faults.

1. Controls: Factory supplied, field installed auxiliary electric resistance heating coils contactors shall be furnished integral with the factory installed strip heater control panel and controlled as specified under Division 23 - Instrumentation and Control for HVAC. Provide factory installed control transformer for all necessary control functions.

E. Coils:

1. General: Coil capacities, pressure drops, leaving air temperatures and selection procedures shall be certified as complying with ARI Standards. Coil shall have continuous configuration aluminum plate fins. Fin collars shall be drawn and belled, then securely bonded to the tube by means of mechanical expansion of the tube. Tubes shall be seamless copper. Provide minimum three-row coil for 6 ton units and four-row coil for 7-1/2 tons and larger.

2. Direct Expansion Refrigerant Coil: Coil shall be proof-tested at 650 psig and leak tested at 150 psig air pressure under water. Coil shall be designed for working pressure of 200 psig. Coil shall be cleaned, dehydrated and sealed with a dry nitrogen charge for shipment. All refrigerant piping and specialties must be approved by the unit manufacturer. Provide hard shut off type thermal expansion valve (TXV) at unit. Provide condensate pan capable of sloping to either drain connection.

3. Electric Resistance Heating Coil: Electric resistance heaters shall be factory supplied for field mounting, open coil type constructed of 80% nickel, 20% chromium elements. Factory installed controls shall include NEMA 1 wired control panel enclosure housing, automatic high temperature limiter, staging and back-up contactors, with multiple staging as required, fusing per NEC, control transformer and fan relay.

F. Filters: Provide an internal 2" filter rack upstream of cooling coil with access from either right or left side of unit.

G. Manufacturers: All fan coil units shall be manufactured by Carrier, Trane, or Aeon.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine areas to receive fan-coil units for compliance with requirements for installation tolerances and other conditions affecting performance.
- B. Examine roughing-in for piping and electrical connections to verify actual locations before fan-coil-unit installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Install fan-coil units level and plumb.
- B. Install fan-coil units to comply with NFPA 90A.
- C. Install unit and associated duct, piping, conduits, etc. so that all access panels are completely removable and unit can be easily serviced. Clearance shall be provided to allow for easy removal of unit filters.

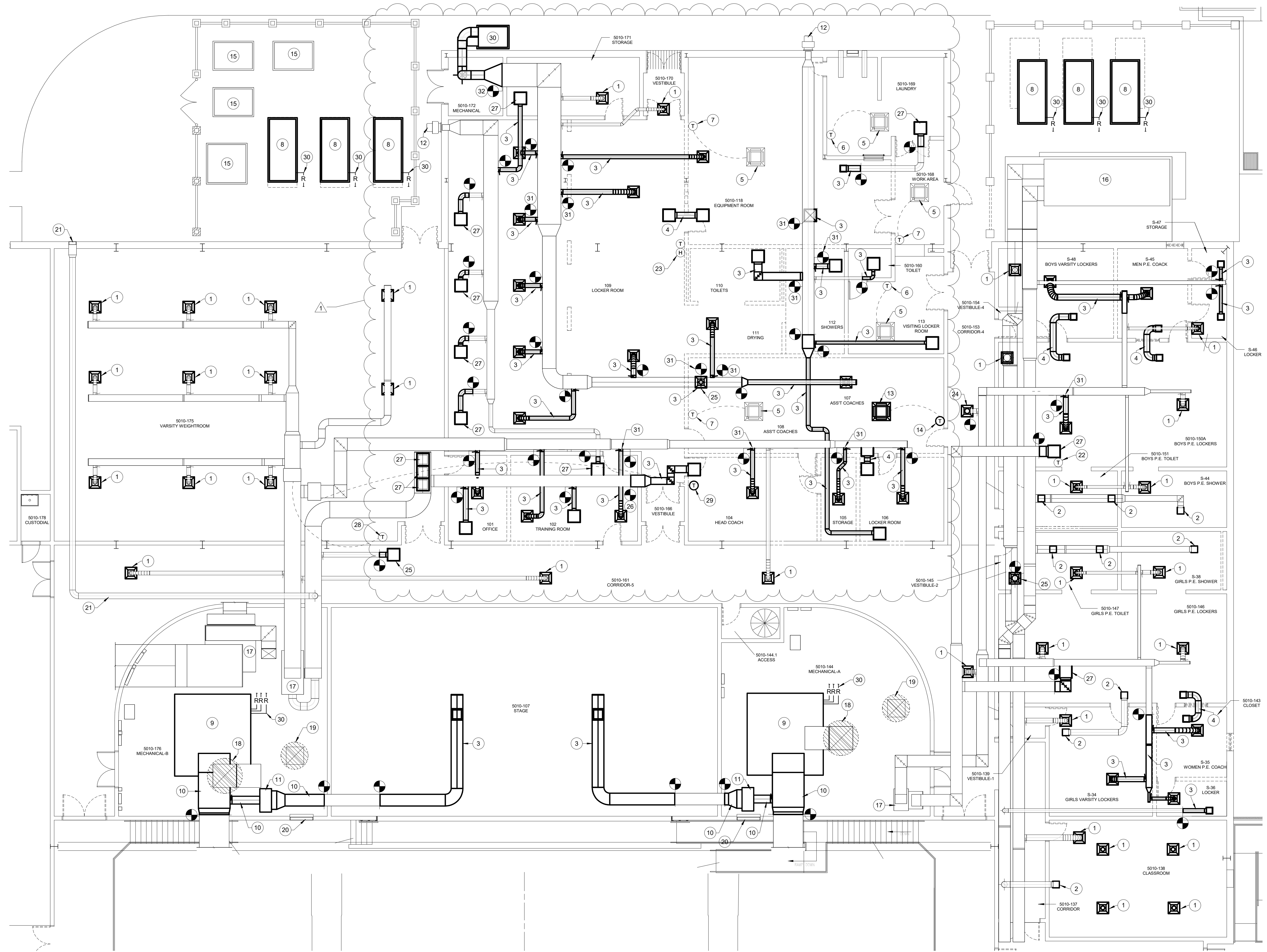
- D. Do not operate units for any purpose until ductwork is clean, filters are in place, bearings lubricated, and fan has been test run under observation. Install new filters in each fan-coil unit within two weeks after Substantial Completion.
- E. Install in accordance with manufacturer's installation instructions.
- F. Vertical units may be supported on a return air plenum stand (see drawings for requirements).
- G. For units with multiple drain outlets, contractor shall field adjust the slope of the drain pan towards the side of the unit that has been trapped.
- H. For units 6 tons and larger, field mounted heater shall connect directly to fan coil unit, with flexible connector on the discharge of the heater. Do not install flex connection between the fan coil unit and heater. For horizontal discharge, ensure heater control box faces down after the heater is installed on the fan coil unit.

3.03 CONNECTIONS

- A. Piping installation requirements are specified in other Division 23 Sections. Drawings indicate general arrangement of piping, fittings, and specialties. Install piping adjacent to machine to allow service and maintenance. Connect refrigerant piping to fan-coil-unit. Connect condensate drain to fan coil unit.
- B. Connect supply and return ducts to fan-coil units with flexible duct connectors specified in Division 23 - Air Duct Accessories. Comply with safety requirements in UL 1995 for duct connections.

END OF SECTION 238219

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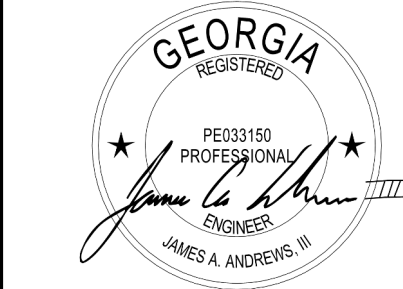


MECHANICAL DEMOLITION PLAN - BUILDING 5010
1/8" = 1'-0"

MECHANICAL NOTES: (THIS SHEET ONLY)

1. REMOVE EXISTING SUPPLY DIFFUSER AND DISCONNECT FROM EXISTING FLEX DUCT. CONTRACTOR SHALL VERIFY THAT THE EXISTING FLEX DUCT IS LEAK FREE AND IN ACCEPTABLE CONDITION. REPLACE FLEX DUCT AS REQUIRED. PREPARE DUCTWORK FOR CONNECTION TO NEW SUPPLY DIFFUSERS AS INDICATED ON THE NEW WORK DRAWINGS.
2. REMOVE EXISTING RETURN GRILLE. PREPARE DUCTWORK TO CONNECT TO NEW RETURN GRILLE IN NEW WORK. SEE NEW WORK DRAWINGS.
3. REMOVE EXISTING DUCTWORK, DIFFUSER, GRILLES, INSULATION, DUCT SUPPORTS, FLEX DUCT AND ALL APPURTENANCES TO THE POINT INDICATED.
4. REMOVE EXISTING TRANSFER DUCT, DIFFUSER, GRILLES, DUCT SUPPORTS AND ALL APPURTENANCES IN ITS ENTIRETY.
5. EXISTING DX SPLIT CEILING CASSETTE TO REMAIN. CONTRACTOR SHALL MOVE CEILING CASSETTE AS NEEDED TO FIT IN NEW CEILING GRID. SEE NEW WORK SHEET FOR NEW LOCATION.
6. EXISTING DX CEILING CASSETTE THERMOSTAT. THERMOSTAT TO REMAIN IN THIS LOCATION. THERMOSTAT LOCATION IS FROM EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY EXACT LOCATION. IF EXISTING WALL WHERE THERMOSTAT IS LOCATED IS TO BE REMOVED CONTRACTOR SHALL MOVE EXISTING THERMOSTAT TO NEW LOCATION AFTER NEW WALLS ARE CONSTRUCTED.
7. EXISTING DX CEILING CASSETTE THERMOSTAT. WALL WHERE THERMOSTAT IS LOCATED IS BEING REMOVED. THERMOSTAT LOCATION IS FROM EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY EXACT LOCATION. SEE NEW WORK SHEET FOR NEW LOCATION OF THERMOSTAT.
8. REMOVE EXISTING CONDENSING UNIT AND EXISTING CONCRETE PAD IN ITS ENTIRETY.
9. REMOVE EXISTING AIR HANDLER AND CONCRETE PAD IN ITS ENTIRETY.
10. REMOVE EXISTING DUCTWORK TO THE POINT INDICATED.
11. REMOVE EXISTING ZONE DAMPER IN ITS ENTIRETY.
12. EXISTING EXHAUST FAN TO REMAIN.
13. REMOVE EXISTING DX SPLIT CEILING CASSETTE IN ITS ENTIRETY.
14. REMOVE EXISTING DX CEILING CASSETTE THERMOSTAT.
15. EXISTING CONDENSING UNITS TO REMAIN.
16. EXISTING ENERGY RECOVERY UNIT TO REMAIN.
17. EXISTING AIR HANDLER TO REMAIN.
18. EXISTING MECHANICAL ROOM SUPPLY FAN TO REMAIN.
19. EXISTING OUTDOOR AIR INTAKE TO REMAIN.
20. EXISTING RETURN LOUVER INTO MECHANICAL ROOM TO REMAIN.
21. EXISTING OUTDOOR AIR LOUVER AND OUTDOOR AIR DUCT TO REMAIN.
22. EXISTING THERMOSTAT SERVING FCU-21 TO REMAIN.
23. REMOVE EXISTING THERMOSTAT AND HUMIDISTAT SERVING OUTSIDE AIR UNIT. SEE NEW WORK SHEET FOR LOCATION OF THERMOSTAT/HUMIDISTAT SERVING NEW DX FAN COIL UNIT.
24. REMOVE EXISTING SUPPLY DIFFUSER AND EXISTING FLEX DUCT. PREPARE EXISTING DUCTWORK TO CONNECT TO NEW SUPPLY DIFFUSER AND FLEX DUCT. SEE NEW WORK SHEET.
25. COMPLETELY REMOVE DUCTWORK, FLEX DUCT AND DIFFUSER. PATCH EXISTING DUCTWORK. SEE NEW WORK SHEET FOR LOCATION OF NEW DIFFUSER.
26. CAP DUCT AT THIS APPROXIMATE LOCATION.
27. CONTRACTOR SHALL REMOVE RETURN GRILLE, AND DUCTWORK TO THE POINT INDICATED. SEE NEW WORK DRAWINGS FOR LOCATION OF NEW RETURN GRILLE.
28. EXISTING THERMOSTAT SERVING ZONE DAMPER TO REMAIN.
29. RELOCATE EXISTING THERMOSTAT SERVING ZONE DAMPER. SEE NEW WORK SHEET FOR NEW LOCATION. RELOCATE EXISTING THERMOSTAT SERVING ZONE DAMPER. SEE NEW WORK SHEET FOR NEW LOCATION.
30. REMOVE EXISTING PACKAGED UNIT AND DUCTWORK TO THE POINT INDICATED. SEE NEW WORK SHEET.
31. PATCH AND REPAIR MAIN TRUCK LINE AT THIS APPROXIMATE LOCATION. DUCT OPENING IS NOT TO BE REUSED IN NEW WORK. MAKE DUCT PATCH AIR TIGHT AND REINSULATE TO MATCH EXISTING.
32. REMOVE EXISTING DUCTWORK TO THE POINT INDICATED. PREPARE REMAINING DUCTWORK FOR CONNECTION TO NEW DUCT WORK. SEE NEW WORK SHEETS.

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Interior Renovations for Thomas
County Central High School
4686 Hwy 84, Thomasville Ga 31792
Thomas County School District

Project Status

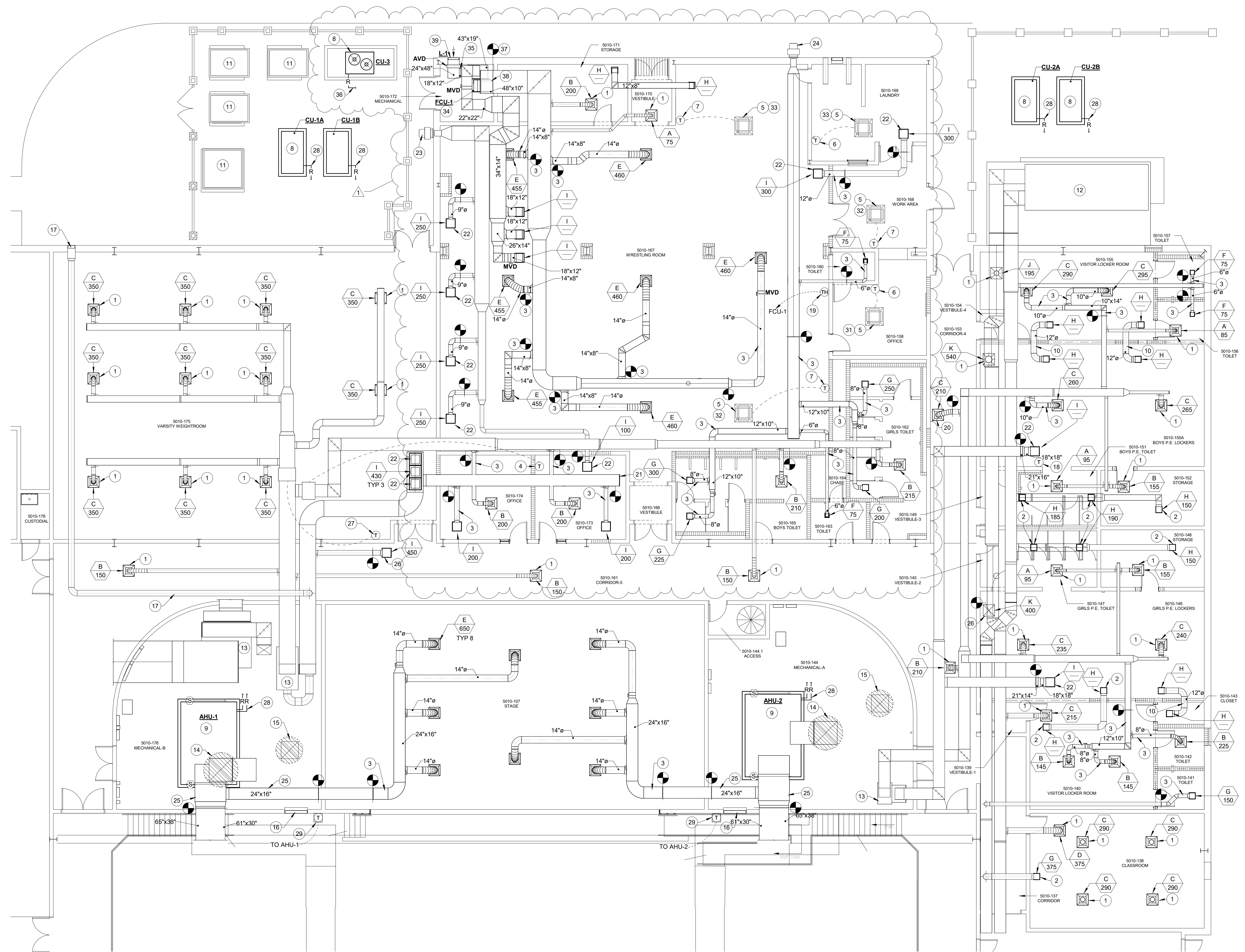
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PROJECT NO: 25012

MECHANICAL DUCT DEMO FLOOR PLAN

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MECHANICAL NEW WORK PLAN - BUILDING 5010
1/8" = 1'-0"

MECHANICAL NOTES: (THIS SHEET ONLY)

1. INSTALL NEW SUPPLY DIFFUSER IN LAY IN CEILING AND CONNECT TO EXISTING FLEX DUCT.
2. INSTALL NEW RETURN/EXHAUST GRILLE IN LAY IN CEILING AND CONNECT TO EXISTING RETURN/EXHAUST DUCTWORK.
3. INSTALL NEW DUCTWORK, DIFFUSER, GRILLES, INSULATION, DUCT SUPPORTS, FLEX DUCT AND ALL APPURTENANCES.
4. NEW LOCATION FOR EXISTING THERMOSTAT SERVING ZONE DAMPER. SEE DEMOLITION SHEET FOR ORIGINAL LOCATION.
5. EXISTING DX SPLIT CEILING CASSETTE, SHOWN ON DEMO PLANS, SHALL BE MOVED TO THIS APPROXIMATE LOCATION TO FIT NEW CEILING GRID. EXISTING REFERERANT PIPING AND CONDENSATE PIPING SHALL BE MODIFIED IN ORDER TO MOVE EXISTING DX CEILING CASSETT AND MAKE OPERATIONAL.
6. EXISTING DX CEILING CASSETTE THERMOSTAT. THERMOSTAT LOCATION FROM EXISTING DRAWINGS CONTRACTOR SHALL VERIFY EXACT LOCATION.
7. EXISTING DX CEILING CASSETTE THERMOSTAT MOVED DURING DEMOLITION AND NEW WORK. SEE DEMOLITION DRAWINGS FOR ORIGINAL LOCATION.
8. INSTALL NEW CONDENSING UNIT AND CONCRETE PAD. CONCRETE PAD SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES.
9. INSTALL NEW AIR HANDLER AND CONCRETE PAD. CONCRETE PAD SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES. CONTRACTOR SHALL LOCATE EXISTING AHU ELECTRICAL CONNECTION ORIGINATING THROUGH MECHANICAL ROOM FLOOR AND NOT PLACE NEW AIR HANDLER OR CONCRETE PAD ON TOP OF ELECTRICAL CONNECTION.
10. INSTALL NEW TRANSFER AIR DUCTWORK, GRILLES, DUCT SUPPORTS AND ALL APPURTENANCES. TRANSFER AIR GRILLES SHALL BE PLACED IN NEW LAY IN CEILING. CONTRACTOR SHALL REUSE EXISTING TRANSFER AIR DUCT PENETRATIONS AS APPROPRIATE. FOR EXISTING DUCT PENETRATIONS SEE DEMO SHEET. IF A NEW DUCT PENETRATION IS CREATED IN ORDER TO ROUTE TRANSFER AIR DUCT CONTRACTOR SHALL PATCH EXISTING OPENING.
11. EXISTING CONDENSING UNITS.
12. EXISTING ENERGY RECOVERY UNIT. CONTRACTOR SHALL TURN ON ENERGY RECOVERY UNIT AFTER NEW WORK IS FINISHED AND VERIFY PROPER OPERATION.
13. EXISTING AIR HANDLER.
14. EXISTING MECHANICAL ROOM SUPPLY FAN
15. EXISTING OUTDOOR AIR INTAKE.
16. EXISTING RETURN LOUVER INTO MECHANICAL ROOM.
17. EXISTING OUTDOOR AIR LOUVER AND OUTDOOR AIR DUCT.
18. EXISTING THERMOSTAT SERVING FCU-21.
19. INSTALL NEW THERMOSTAT AND HUMIDISTAT SERVING NEW DX AIR HANDLER.
20. INSTALL NEW SUPPLY DIFFUSER AND FLEX DUCT. CONNECT FLEX DUCT TO EXISTING SUPPLY DUCT.
21. CAP DUCT AT THIS APPROXIMATE LOCATION.
22. INSTALL NEW RETURN GRILLE AND RETURN DUCTWORK AND PLACE IN LAY IN CEILING. CONTRACTOR SHALL ATTACH NEW RETURN DUCT TO EXISTING DUCTWORK.
23. EXISTING EXHAUST FAN.
24. EXISTING EXHAUST FAN. CONTRACTOR SHALL REBALANCE EXHAUST FAN FOR 1125 CFM.
25. INSTALL NEW SUPPLY DUCTWORK FROM NEW AIR HANDLER IN MECHANICAL ROOM. DUCTWORK SHALL BE ROUTED FROM AIR HANDLER TO EXISTING DUCTWORK. CONNECT NEW DUCTWORK TO EXISTING.
26. CONTRACTOR SHALL INSTALL NEW SUPPLY GRILLE AND DUCTWORK. PLACE SUPPLY GRILLE IN NEW LAY IN CEILING. CONTRACTOR SHALL CONNECT SUPPLY DUCT TO EXISTING SUPPLY DUCT IN THIS APPROXIMATE LOCATION.
27. EXISTING THERMOSTAT SERVING ZONE DAMPER.
28. CONTRACTOR SHALL INSTALL NEW REFRIGERANT PIPING. PIPING SHALL BE ROUTED ALONG SAME PATH AS THE REFRIGERANT PIPING REMOVED DURING DEMOLITION.
29. INSTALL NEW SUPPLY DUCTWORK FROM NEW AIR HANDLER IN MECHANICAL ROOM. DUCTWORK SHALL BE ROUTED FROM AIR HANDLER TO EXISTING DUCTWORK. CONNECT NEW DUCTWORK TO EXISTING.
30. REMOVE REFRIGERANT PIPING SERVING EXISTING AIR HANDLER AND CONDENSING UNIT IN ITS ENTIRETY. CONTRACTOR SHALL INSTALL REFRIGERANT PIPING FOR NEW CONDENSING UNITS AND AIR HANDLER ALONG SAME PATH. SEE NEW WORK.
31. EXISTING 1 TON DX SPLIT CEILING MOUNT CASSETTE.
32. EXISTING 1 1/4 TON DX SPLIT CEILING MOUNT CASSETTE.
33. EXISTING 2 1/2 TON DX SPLIT CEILING MOUNT CASSETTE.
34. INSTALL NEW VERTICLE DX FAN COIL UNIT ATOP NEW 4" CONCRETE PAD.
35. O.A. DUCT WITH MVD
36. CONTRACTOR SHALL INSTALL NEW REFRIGERANT PIPING. ROUTE REFRIGERANT PIPING TO NEW VERTICAL FAN COIL UNIT (FCU-1) IN MECHANICAL ROOM.
37. INSTALL NEW 48 X 10 SUPPLY DUCT AND ROUTE INTO MECHANICAL ROOM. CONNECT NEW SUPPLY DUCT TO EXISTING DUCT.
38. ROUTE NEW 24 X 24 SUPPLY DUCT FROM THE TOP OF FCU-1 UP TO AND ATTACH TO UNDERSIDE OF THE NEW 48 X 10 ROUTED INTO THE MECHANICAL ROOM.
39. PLACE NEW LOUVER (L-1) IN EXISTING OPENING.

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M101
FACILITY NO: 736-0191



MECHANICAL DUCT FLOOR PLAN

PROJECT NO: 25012

AIR HANDLING UNITS

TAG	CARRIER MODEL NO.	TOTAL COOLING MBH	SENSIBLE COOLING MBH	SUPPLY CFM	MAXIMUM OUTSIDE AIR CFM	COOLING COIL CONDITIONS				APPROXIMATE E.S.P. IN. WG.	SUPPLY MOTOR HP	HEATING KW	HEAT STAGES	NOTES
						ENTERING AIR °F DB	WB	LEAVING AIR °F DB	WB					
AHU-1	39MN 50W	795.0	564.0	21,000	5000	80	67	55.4	54.8	1.50	2 @ 7.5 HP EA.	100	6	1:2:3:4:5:6:7:8:9:10:11:12
AHU-2	39MN 50W	795.0	564.0	21,000	5000	80	67	55.4	54.8	1.50	2 @ 7.5 HP EA.	100	6	1:2:3:4:5:6:7:8:9:10:11:12

- HORIZONTAL, DRAW-THRU, AIR HANDLING UNIT. UNIT SHALL BE OF DOUBLE-WALL (R-13) CONSTRUCTION FOR ALL SECTIONS WITH GALVANIZED G90 STEEL INTERIOR AND EXTERIOR.
- PROVIDE MINIMUM 6-ROW/11 FPI DX COOLING COIL, MAXIMUM 550 FPM. COIL CAPACITIES BASED ON AIR ENTERING EVAPORATOR AT SCHEDULED CONDITIONS AND MATCHED WITH INDICATED CONDENSING UNIT. COILS SHALL BE FURNISHED WITH FACTORY-MOUNTED TXV'S ON EACH CIRCUIT.
- PROVIDE FLAT FILTER SECTION WITH 2" DEEP, MERV 8, PLEATED FILTERS.
- STATIC PRESSURE SCHEDULED DOES NOT INCLUDE WET COOLING COIL, HEATING COIL, FILTER OR SYSTEM EFFECT LOSSES.
- PROVIDE SELF-DRAINING, DOUBLE-WALL, DOUBLE-SLOPED, 304 STAINLESS STEEL DRAIN PAN UNDER DX COOLING COIL SECTION. PROVIDE TRAPPED CONDENSATE DRAIN. SEE CONDENSATE DRAIN TRAP DETAIL.
- PROVIDE PREMIUM-EFFICIENCY SUPPLY FAN MOTOR.
- PROVIDE PLENUM SUPPLY FANS AND INTERNAL ISOLATION. PROVIDE EXTERNAL LUBE LINES FROM FAN BEARINGS. PROVIDE FACTORY-MOUNTED VFD'S.
- PROVIDE HINGED ACCESS DOORS WITH QUARTER-TURN HANDLES FOR ACCESS TO FILTERS, COILS, HEATER, FAN, AND ELECTRICAL/CONTROLS.
- PROVIDE ELECTRIC HEATER (INCLUDING FUSES AND HIGH-LIMIT SWITCH).
- PROVIDE FACTORY INTERNAL CONTROL PANEL WITH SEPARATE LOW-VOLTAGE AND HIGH-VOLTAGE CONNECTIONS.
- PROVIDE UNIT ELECTRO-MECHANICAL CONTROLLER CAPABLE OF CONTROLLING ALL FEATURES AND OPTIONS OF THE SPLIT SYSTEM.
- PROVIDE A2L CONTROL BOX AND REFRIGERANT SENSOR.

CONDENSING UNITS

TAG	CARRIER MODEL No.	TOTAL COOLING MBH	MINIMUM STAGES CAPACITY	MINIMUM COOLING AMBIENT OPERATING TEMPERATURE °F	NOTES
CU-1A	38RC5030	397.5	2	35	1:2:3:4:5:6:7:8:9:10:11:12
CU-1B	38RC5030	397.5	2	35	1:2:3:4:5:6:7:8:9:10:11:12
CU-2A	38RC5030	397.5	2	35	1:2:3:4:5:6:7:8:9:10:11:12
CU-2B	38RC5030	397.5	2	35	1:2:3:4:5:6:7:8:9:10:11:12
CU-3	38AX2012	122.8	2	35	1:2:3:4:5:6:7:8:9:10:11:13

- COOLING CAPACITIES BASED ON 95°F AMBIENT AIR TEMPERATURES.
- ALL REFRIGERANT LINES TO BE INSTALLED AND SIZED PER MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
- SCHEDULED CAPACITIES ARE OVERALL CAPACITIES REQUIRED FOR MATCHED CONDENSING UNIT AND EVAPORATOR COIL WITH 2" F SUCTION LINE LOSS.
- PROVIDE INTEGRAL CONTROLS INCLUDING CONTACTORS, CRANKCASE HEATER, 5 MINUTE COMPRESSOR TIME DELAY RELAY AND COMPRESSOR OVER TEMPERATURE (OVERLOAD) PROTECTION.
- PROVIDE ALL CONTROLS, ACCESSORIES, AND SYSTEM MODIFICATIONS TO PERMIT COOLING OPERATION TO SPECIFIED TEMPERATURE.
- PROVIDE LIQUID AND SUCTION LINE SERVICE VALVES/GAUGE PORTS.
- PROVIDE HIGH PRESSURE SWITCH AND LOW PRESSURE SWITCH.
- PROVIDE FIELD-INSTALLED, FACTORY-PROVIDED, SUCTION ACCUMULATOR. VERIFY INSTALLATION LOCATION WITH MANUFACTURER.
- UNIT SHALL UTILIZE R-32 REFRIGERANT.
- PROVIDE LOUVERED HAIL GUARDS.
- PROVIDE FACTORY-INSTALLED PHASE PROTECTION.
- PROVIDE FACTORY-MOUNTED ELECTRO-MECHANICAL CONTROLLER TO COMMUNICATE WITH AIR HANDLING UNIT.
- UNIT SHALL UTILIZE R-454B REFRIGERANT.

BI-POLAR IONIZATION UNITS

TAG	ASSOCIATED EQUIPMENT	CFM	GLOBAL PLASMA SOLUTIONS MODEL #	NOTES
BPIU-1	AHU-1	21000	GPS IMOD	1:2:3:4
BPIU-2	AHU-2	21000	GPS IMOD	1:2:3:4
BPIU-3	FCU-1	3480	GPS-FC48	1:2:4:5

- NEEDLE-POINT TYPE IONIZER WITH ABS PLASTIC OR POWDER-COATED STEEL HOUSING AND CARBON OR STAINLESS STEEL IONIZATION NEEDLES.
- PROVIDE LED TO VERIFY IONIZATION.
- PROVIDE 120 VAC OR 240 VAC. SEE ELECTRICAL DRAWINGS.
- UNIT(S) SHALL BE MOUNTED UPSTREAM OF THE UNIT COOLING COIL.
- PROVIDE FACTORY FURNISHED 24 VAC INPUT TERMINAL FOR POWERING BIPOLAR UNIT FROM ASSOCIATED EQUIPMENT'S 24V TERMINAL.

GRILLES

TAG	TITUS MODEL No.	SIZE OR LENGTH	FINISH	THROW	NOTES
A	TMS-AA	6" DIA.	WHITE	4-WAY	1:4:5:7:8
B	TMS-AA	8" DIA.	WHITE	4-WAY	1:4:5:7:8
C	TMS-AA	10" DIA.	WHITE	4-WAY	1:4:5:7:8
D	TMS-AA	12" DIA.	WHITE	4-WAY	1:4:5:7:8
E	TMS-AA	14" DIA.	4-WAY	4-WAY	1:4:5:7:8
F	50F	6 X 6	WHITE	-----	3:4:6:7
G	50F	12 X 12	WHITE	-----	3:4:6:7
H	50F	12 X 12	WHITE	-----	3:6:7
I	50F	18 X 18	WHITE	-----	3:6:7
J	TDC-AA	12 X 12	WHITE	2-WAY	2:4:5:7:8:9
K	TDC-AA	15 X 15	WHITE	2-WAY	2:4:5:7:8:9
L	350FL	24 X 24	WHITE	-----	6:7:10
M	50F	8 X 8	WHITE	-----	3:6:7

- LOUVERED-FACED, SQUARE-CONE, ALUMINUM, CEILING SUPPLY DIFFUSER WITH FIXED AIR DISCHARGE PATTERN. PROVIDE FULL FACED LOUVERS.
- LOUVERED-FACED, HIGH-CAPACITY, ALUMINUM, CEILING SUPPLY DIFFUSER WITH FIXED AIR DISCHARGE PATTERN AS SCHEDULED.
- ALL ALUMINUM 1" X 1" X 1" "EGG CRATE" EXHAUST/RETURN GRILLE.
- PROVIDE OPPOSED BLADE DAMPER.
- IN 24 X 24 PANEL FOR LAY-IN CEILING.
- FLANGED FRAME FOR SURFACE MOUNTING.
- NC LEVEL NOT TO EXCEED NC 30.
- SEE CEILING GRILLE DUCT CONNECTION DETAIL.
- TWO-WAY CORNER THROW.
- ALUMINUM RETURN GRILLE WITH FACE BARS HORIZONTAL (PARALLEL TO LONG DIMENSION). PROVIDE FIXED STATIONARY BLADES AT 35° TO 45° DEFLECTION, AT 3/4" SPACING.

FAN COIL UNITS

TAG	CARRIER MODEL NUMBER	GROSS TOTAL COOLING MBH	SENSIBLE COOLING MBH	TOTAL SUPPLY CFM	O.A. CFM	HEATING KW	APPROX ESP IN. WG	BLOWER MOTOR BHP	MINIMUM STAGES		ENTERING AIR TEMPERATURE		NOTES
									COOL	HEAT	FDB	FWB	
FCU-1	40RLAA12	122.8	94.8	3480	1000	35	0.60	2.40	2	2	81.0	66.8	1:2:3:4:5:6:7:8:9:10:11:12

- VERTICAL, DRAW-THRU, FAN COIL UNIT WITH SINGLE WALL CONSTRUCTION AND 1" THICK, R4.2 INTERIOR INSULATION. PROVIDE BAKED ENAMEL FINISH.
- COOLING CAPACITIES BASED ON AIR ENTERING EVAPORATOR AT SCHEDULED CONDITIONS AND MATCHED WITH INDICATED CONDENSING UNIT.
- PROVIDE DX COOLING COIL WITH FACTORY INSTALLED THERMOSTATIC EXPANSION VALVE FOR REFRIGERANT CONTROL.
- SCHEDULED CAPACITIES ARE OVERALL CAPACITIES FOR MATCHED CONDENSING UNIT AND EVAPORATOR COIL WITH 2" F LINE LOSS.
- EXTERNAL STATIC PRESSURE SCHEDULED DOES NOT INCLUDE WET COOLING COIL, CASING, ELECTRIC HEAT COIL, OR FILTER LOSSES. BLOWER MOTOR MUST OVERCOME E.S.P. AT CONNECTED VOLTAGE.
- PROVIDE UNIT-MOUNTED, FACTORY-PROVIDED, FIELD-INSTALLED, ELECTRIC STRIP HEATER OF INDICATED KW AT CONNECTED VOLTAGE. PROVIDE SINGLE-POINT POWER CONNECTION.
- PROVIDE FAN MOTOR CONTACTOR, TERMINAL STRIP, AND ALL CONTROLS.
- PROVIDE INTEGRAL FILTER RACK DESIGNED TO ACCOMMODATE 1" FILTERS.
- PROVIDE DOUBLE-SLOPED, REMOVABLE, CONDENSATE DRAIN PAN. PROVIDE TRAPPED CONDENSATE DRAIN. SEE CONDENSATE DRAIN TRAP DETAIL.
- PROVIDE 2-SPEED FAN CONTROLLER.
- PROVIDE DEHUMIDIFICATION CIRCUIT AND CONTROL.
- THE OUTDOOR AIR CFM FOR THIS UNIT HAS BEEN DETERMINED BASED ON ASHRAE 62.1 INDOOR AIR QUALITY PROCEDURE RATHER THAN THE PRESRIPTIVE VENTILATION RATE PROCEDURE. THE OUTDOOR AIR RATES USING THIS PROCEDURE ARE LOWER THAN THE PRESRIPTIVE PROCEDURE. THIS UNIT SHALL BE PROVIDED WITH A CONTRACTOR-INSTALLED NEEDLE-POINT BI-POLAR IONIZATION UNIT TO REDUCE CONTAMINANT LEVELS TO THOSE EQUAL OR LOWER THAN THE VENTILATION RATE PROCEDURE PRODUCE.

LOUVERS

TAG	GREENHECK MODEL No.	MINIMUM FREE AREA FT.	WIDTH INCHES	HEIGHT INCHES	DEPTH INCHES	CFM	MOUNTING HEIGHT B.E. A.F.F.	NOTES
L-1	EDJ-401	3.91	24	48	4	1000	SEE NOTES	1:2:3:4:5:6:7

- AMCA CERTIFIED LOUVER WITH BACK MOUNTED 1/2" MESH BIRDSCREEN.
- SEE SPECIFICATIONS FOR FINISH COLOR SELECTED BY ARCHITECT. BASIS OF BID SHALL BE KYNAR.
- STATIONARY LOUVER WITH DRAINABLE HEADS AND NON-DRAINABLE BLADES. SEE STATIONARY LOUVER DETAIL.
- SEAL AND CAULK FULL PERIMETER OF LOUVER WATERTIGHT.
- SECURE LOUVER TO WALL ON MAXIMUM 2'-0" CENTERS ON FOUR SIDES. PROVIDE 22 GAUGE GALVANIZED SLEEVE THROUGH WALL.
- PROVIDE FLANGED FRAME FOR ENTIRE PERIMETER OF LOUVER.
- INSTALL LOUVER IN EXISTING WALL OPENING REMAINING FROM DEMOLITION.

GENERAL NOTES

- SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT BUILDING ARRANGEMENT, DIMENSIONS AND DETAILS. THESE DRAWINGS ARE DIAGRAMMATIC, AND ARE NOT TO BE SCALED.
- COORDINATE DUCT AND PIPE ROUTING AND EQUIPMENT LOCATION WITH PLUMBING AND ELECTRICAL INSTALLATIONS AND WITH BUILDING STRUCTURAL MEMBERS. OFF-SET DUCTS/PIPING AND SHIFT EQUIPMENT AS REQUIRED TO AVOID CONFLICTS WITH OTHER INSTALLATIONS.
- COORDINATE LOCATION OF CEILING REGISTERS WITH LIGHTING LAYOUT. SPRINKLER HEADS AND CEILING GRID SYSTEMS AND APPURTENANCES. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION.
- DUCT SIZES INDICATED ON THE PLANS ARE CLEAR INSIDE DIMENSIONS REQUIRED. WHERE LINER IS INDICATED OR NOTED, INCREASE DUCT SIZE TO ACHIEVE INDICATED DIMENSION(S).
- REFER TO THE ELECTRICAL DRAWINGS FOR VOLTAGE, PHASE, MAXIMUM ALLOWABLE CURRENT DRAW, AMPERAGE AND CONNECTION ARRANGEMENT (SINGLE, MULTI-POINT, ETC.) OF ALL MECHANICAL EQUIPMENT PRIOR TO ORDERING/INSTALLING EQUIPMENT.
- SUPPORT ALL DUCTS, PIPING AND EQUIPMENT FROM PRIMARY BUILDING STRUCTURAL MEMBERS AND PROVIDE SUPPLEMENTAL STRUCTURAL FRAMING AS REQUIRED BETWEEN PRIMARY BUILDING STRUCTURAL MEMBERS TO SUPPORT ALL SYSTEMS INSIDE THE BUILDING.
- PROVIDE PIPE SLEEVE THRU ALL WALLS AND THRU ALL FLOOR SLABS. SEE PIPE SLEEVE DETAIL.
- PROVIDE PIPE HANGERS FOR ALL SUSPENDED PIPING AS SHOWN IN DETAILS.

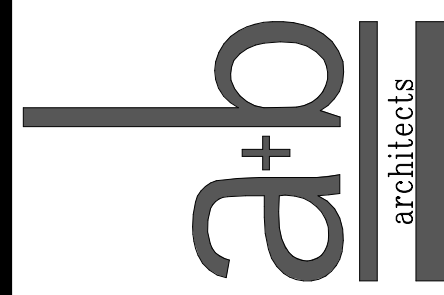
MECHANICAL LEGEND

	GRILLE, REGISTER, DIFFUSER DESIGNATION WITH CFM SHOWN BELOW FOR TAB FIRM TO BALANCE DEVICE
	RECTANGULAR (OR FLAT OVAL) DUCT SIZE: 1ST DIMENSION IS SIZE DRAWN
	RIGID ROUND DUCTWORK (OR FLUE PIPING)
	FLEXIBLE ROUND DUCTWORK
	RECTANGULAR TO ROUND TRANSITION
	FLEXIBLE CONNECTION
	DUCT LINER - SEE SPECIFICATION OR SHEET NOTES FOR THICKNESS AND TYPE
	SQUARE ELBOW WITH TURNING VANES
	45° BRANCH ENTRY FITTING
	90° ROUND TO ROUND SADDLE TAP
	ACCESS PANEL
	WALL SLEEVE
	BELLMOUTH TAKE-OFF FITTING
	45° TAKE-OFF FITTING
	SUPPLY DUCT TO OR FROM ABOVE (OR SUPPLY GRILLE)
	RETURN DUCT TO OR FROM ABOVE (OR RETURN GRILLE)
	ROOF MOUNTED EQUIPMENT
	CONCRETE EQUIPMENT PAD
	SUPPLY ARROW INDICATING DIRECTION OF AIRFLOW OR DUCT/PIPE OFFSET UP
	RETURN OR EXHAUST AIRFLOW (DIRECTION)
	THERMOSTAT OR TEMPERATURE SENSOR WITH LOCKING COVER
	THERMOSTAT OR TEMPERATURE SENSOR
	HUMIDISTAT OR HUMIDITY SENSOR
	POWER CONTACTOR PROVIDED BY MECHANICAL
	DUCT MOUNTED SMOKE DETECTOR (PROVIDED AND WIRED BY ELEC.)
	DIRECTION OF FLOW
	CONDENSATE DRAIN PIPING
	REFRIGERANT PIPING
	PIPE SLEEVE THROUGH WALL OR FLOOR - SEE PIPE SLEEVE DETAIL
	DROPPING OR RISING PIPE
	PIPE TO OR FROM ABOVE
	CONDENSATE DRAIN PIPING
	REFRIGERANT PIPING
	PIPE SLEEVE THROUGH WALL OR FLOOR - SEE PIPE SLEEVE DETAIL
	DROPPING OR RISING PIPE
	PIPE TO OR FROM ABOVE
	PIPE ELBOW - 45° OR 90°
	PIPE TEE
	DB, WB DRY BULB, WET BULB
	SS STAINLESS STEEL
	FPM FEET PER MINUTE
	CFM CUBIC FEET PER MINUTE (AIRFLOW)
	OA OUTSIDE AIR
	MBH BTU's PER HOUR x 1000
	APPROX. APPROXIMATELY
	ESP (IN. W.G.) EXTERNAL STATIC PRESSURE (INCHES OF WATER GAUGE)
	HP HORSEPOWER
	RPM REVOLUTIONS PER MINUTE (MOTOR SPEED)
	UNO UNLESS OTHERWISE NOTED
	AFF ABOVE FINISHED FLOOR
	UC UNDERCUT
	GPM GALLONS PER MINUTE (WATERFLOW)
	KW KILOWATTS
	ΔT TEMPERATURE DIFFERENCE
	B.E., T.E. BOTTOM ELEVATION - TOP ELEVATION
	NIC NOT IN CONTRACT
	RH RELATIVE HUMIDITY
	NHS NOT TO SCALE
	Limit of SCOPE OF WORK
	1 M1 SECTION OR DETAIL IDENTIFICATION NUMBER
	Sheet NUMBER ON WHICH SECTION OR DETAIL IS SHOWN

DEMOLITION LEGEND

	EXISTING EQUIPMENT, PIPING OR DUCTWORK TO REMAIN
	EXISTING EQUIPMENT, PIPING OR DUCTWORK TO BE REMOVED

Altman + Barrett



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DATE: October 6, 2025
DRAWN: JSP
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REVISIONS: 1.10/24/2025
www.altmanbarrettarchitects.com

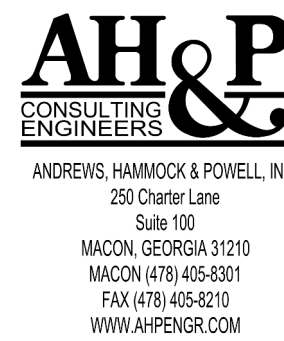
Interior Renovations for Thomas
County Central High School
4686 Hwy 84, Thomasville Ga 31792
Thomas County School District

Project Status

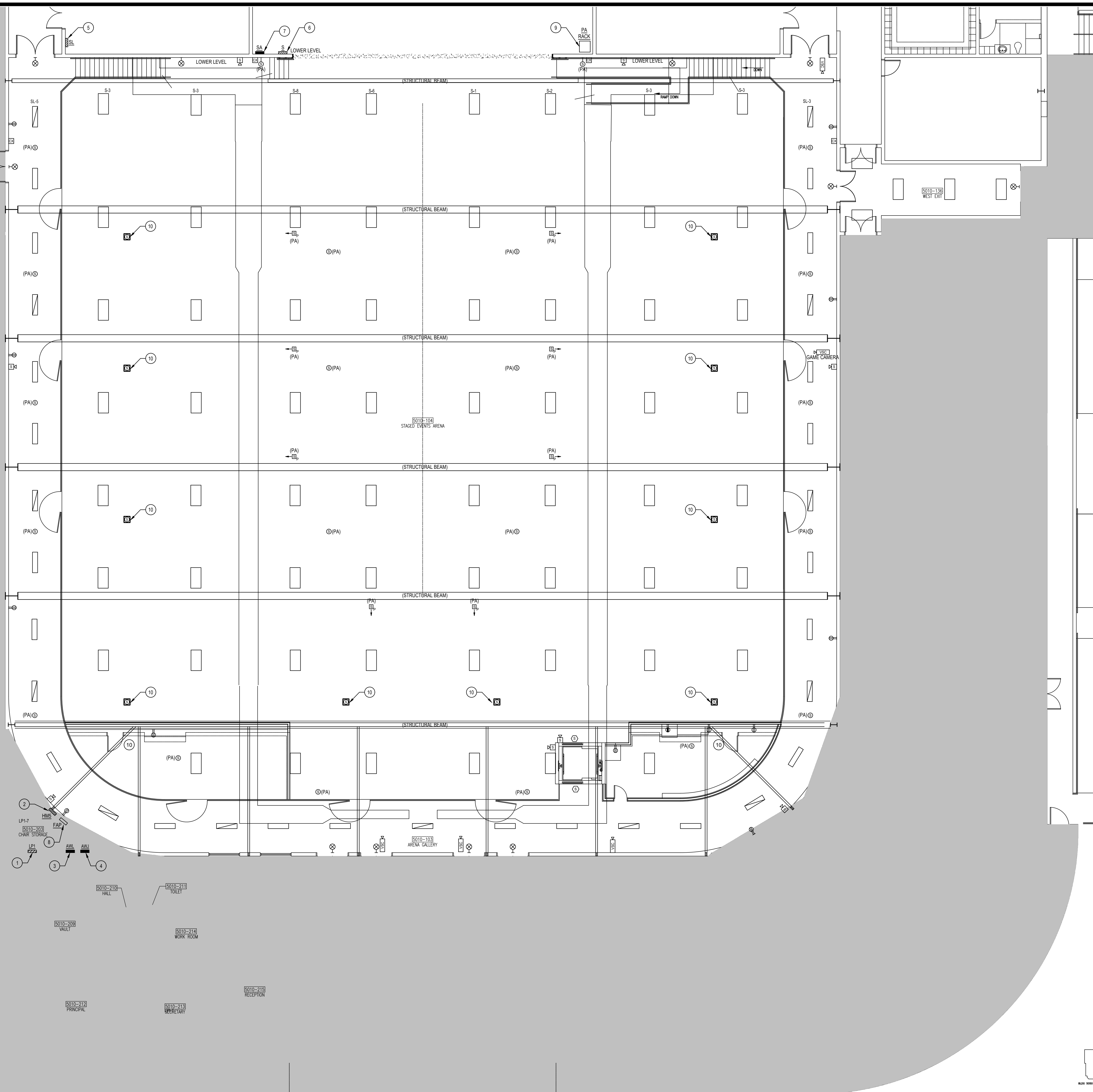
M601
FACILITY NO: 736-0191

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PROJECT NO: 25012



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ELECTRICAL DEMOLITION PLAN - BUILDING 5010 GYMNASIUM
SCALE: _____ $\frac{1}{8}" = 1'-0"$

NOTES: (THIS SHEET ONLY)

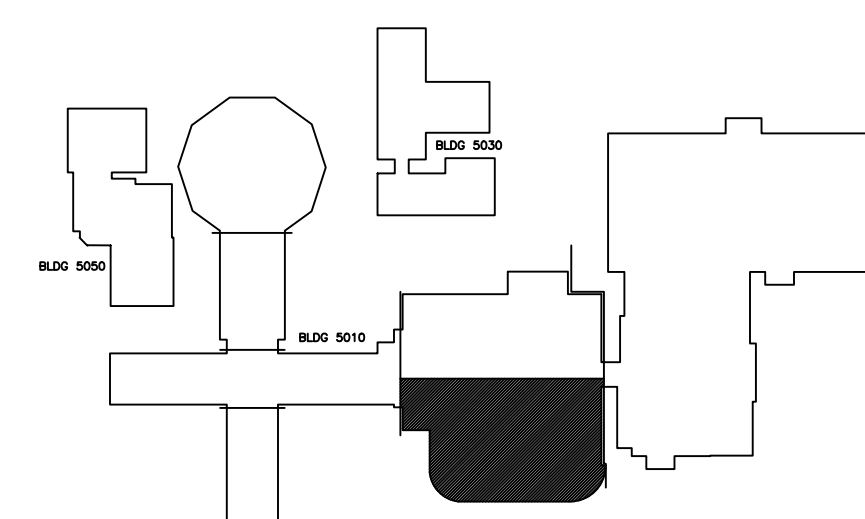
- 1 EXISTING PANEL 'LP1', 480/277V, 3PH, 4W PANELBOARD SHALL REMAIN.
- 2 EXISTING PANEL 'HMS', 480/277V, 3PH, 4W PANELBOARD SHALL REMAIN.
- 3 EXISTING PANEL 'AW', 208/120V, 3PH, 4W, 200AMP M.B. PANELBOARD SHALL REMAIN.
- 4 EXISTING PANEL 'AW2', 208/120V, 3PH, 4W, 150AMP M.B. PANELBOARD SHALL REMAIN.
- 5 EXISTING PANEL 'SE', 480/277V, 3PH, 4W PANELBOARD SHALL REMAIN.
- 6 EXISTING PANEL 'S', 480/277V, 3PH, 4W PANELBOARD SHALL REMAIN.
- 7 EXISTING PANEL 'SA', 208/120V, 3PH, 4W, 100AMP M.B. PANELBOARD SHALL REMAIN.
- 8 EXISTING FIRE LITE RACK ALARM PANEL SHALL REMAIN.
- 9 EXISTING PA SYSTEM RACK AND EQUIPMENT SHALL REMAIN.
- 10 GENERAL: EXISTING GYMNASIUM INTERCOM AND PA SYSTEM SPEAKERS AND CABINETS SHALL BE REMOVED BY OTHERS.
- 11 DEMO LIGHTING IN STORAGE ROOM BELOW. MAINTAIN LIGHTING CIRCUIT FOR REUSE.

GENERAL DEMOLITION NOTES:

- 1 DEMO EXISTING INTERIOR LIGHT FIXTURES AND EXIT SIGNS SHOWN IN GYMNASIUM IN THEIR ENTIRETY. DEMO EXPOSED LIGHTING FEEDER CIRCUITS IN GYMNASIUM TO PERMIT NEW PANEL SYSTEM INSTALL. SEE NEW WORK PLANS FOR NEW LIGHTING AND CIRCUIT WIRING.
- 2 DEMO EXISTING CONVENIENCE OUTLET CIRCUITS SHOWN ON WALLS SLATED TO BE DEMOLISHED. MAINTAIN POWER TO DOWNSTREAM DEVICES. EXISTING DEVICES SHOWN ON WALLS TO REMAIN SHALL BE REPLACED WITH SPECIFIED DEVICES
- 3 DEMO ELECTRICAL CIRCUITS IN THEIR ENTIRETY FROM ALL MECHANICAL EQUIPMENT SHOWN TO BE DEMOLISHED ON MECHANICAL DEMOLITION PLANS. INCLUDING ROOF TOP UNITS, EXHAUST FANS, WALL HEATERS, WATER SOURCE HP'S AND PUMPS ETC. ALL MECHANICAL EQUIPMENT SHOWN TO BE REMOVED AND REINSTALLED DURING CONSTRUCTION ON MECHANICAL PLANS SHALL BE DISCONNECTED AND RECONNECTED TO THE EXISTING ELECTRICAL CIRCUITS.
- 4 EXISTING COMPUTER DATA OUTLETS, CABLES, AND RACEWAYS SHALL BE REMOVED FROM WALLS SLATED TO BE DEMOLISHED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING DATA OUTLETS AND ALL ASSOCIATED DATA HANDLING ELECTRONIC EQUIPMENT DURING DEMOLITION AND RENOVATIONS OF ALL AREAS. HANG ALL ITEMS REMOVED OVER TO OWNER.
- 5 CONTRACTOR SHALL UTILIZE THOMAS COUNTY'S FIRE ALARM SERVICE PROVIDER GEORGIA FLORIDA ALARM TO DO FIRE ALARM LAYOUT ON THIS PROJECT. EXISTING DEVICES SHALL REMAIN WHERE POSSIBLE. WHERE FLOORPLANS CHANGES DEVICES SHALL BE RELOCATED AND REWORKED FOR NEW FLOOR PLAN AS SHOWN.
- 6 DEMO TV'S AND MOUNT TV'S AND DISTRIBUTION SYSTEM INCLUDING ALL EXISTING OUTLETS, RACEWAYS, AND DISTRIBUTION CABLES ETC. SHALL REMAIN IN THE BUILDING. SECURE ALL SYSTEM COMPONENTS DURING DEMOLITION AND CONSTRUCTION.
- 7 EXISTING GYMNASIUM INTERCOM AND A SYSTEM COMPONENTS INCLUDING SPEAKERS AND CABLES WILL BE REMOVED BY OTHERS. CONTRACTOR SHALL DISCONNECT CONDUITS ASSOCIATED WITH THESE SYSTEMS SHALL BE DEMOLISHED BY THIS CONTRACTOR.
- 8 ALL CCTV SYSTEM CAMERAS AND SECURITY SYSTEM SHALL REMAIN UNLESS NOTED OTHERWISE. CONTRACTOR SHALL BE RESPONSIBLE FOR EXISTING CCTV CAMERAS AND SYSTEM DEVICES DURING DEMOLITION AND RENOVATION OF THIS BUILDING. ALL ASSOCIATED ITEMS DAMAGED SHALL BE REPLACED AT NO COST TO OWNER. CONTRACTOR SHALL REINSTALL THESE DEVICES IN NEW CEILINGS.
- 9 CONTRACTOR SHALL PROTECT EXISTING CEILING MOUNTED GAZE CAMERAS AND ASSOCIATED WIRING DURING DEMOLITION AND NEW CEILING PANEL SYSTEM INSTALL.
- 10 ALL WIRELESS ACCESS POINTS SHALL REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR EXISTING EQUIPMENT DURING DEMOLITION AND RENOVATION OF THIS BUILDING. ALL ASSOCIATED ITEMS DAMAGED SHALL BE REPLACED AT NO COST TO OWNER. CONTRACTOR SHALL REINSTALL CEILING MOUNTED DEVICES IN NEW CEILINGS.
- 11 THIS FACILITY CONTAINS A CENITEKX WIRELESS CREDIT ALERT SYSTEM. THIS CONTRACTOR SHALL PROVIDE CENITEKX FOR THE COST TO REMOVE AND REINSTALL THE EXISTING SYSTEM DEVICES WITHIN WORK AREA. THIS COST SHALL BE INCLUDED IN USER ITEM BUDGET.

GENERAL GYM CEILING NOTE:

GYMNASIUM INSULATION IS BEING REPLACED UNDER THIS PROJECT AND NEW CEILING PANEL SYSTEM IS BEING INSTALLED. THIS CONTRACTOR SHALL REMOVE OR TEMPORARILY SUSPEND ALL CONDUIT AND ELECTRICAL DEVICES ATTACHED TO CEILING STRUCTURE TO ACCOMMODATE THE WORK REQUIRED FOR DEMOLITION AND NEW WORK.



KEY PLAN

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Interior Renovations for
Thomas County High School
4686 Hwy 84, Thomasville, GA 31792
Thomas County School District

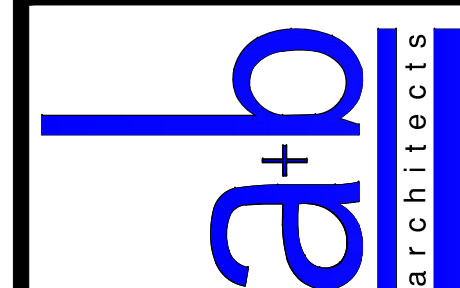
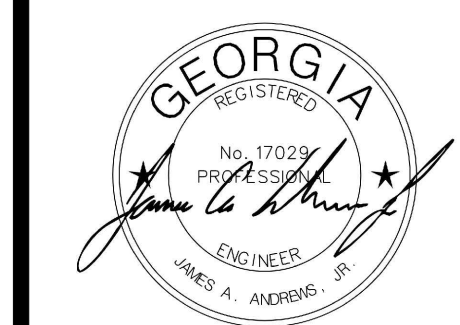
FD101

FACILITY NO: 736-0205

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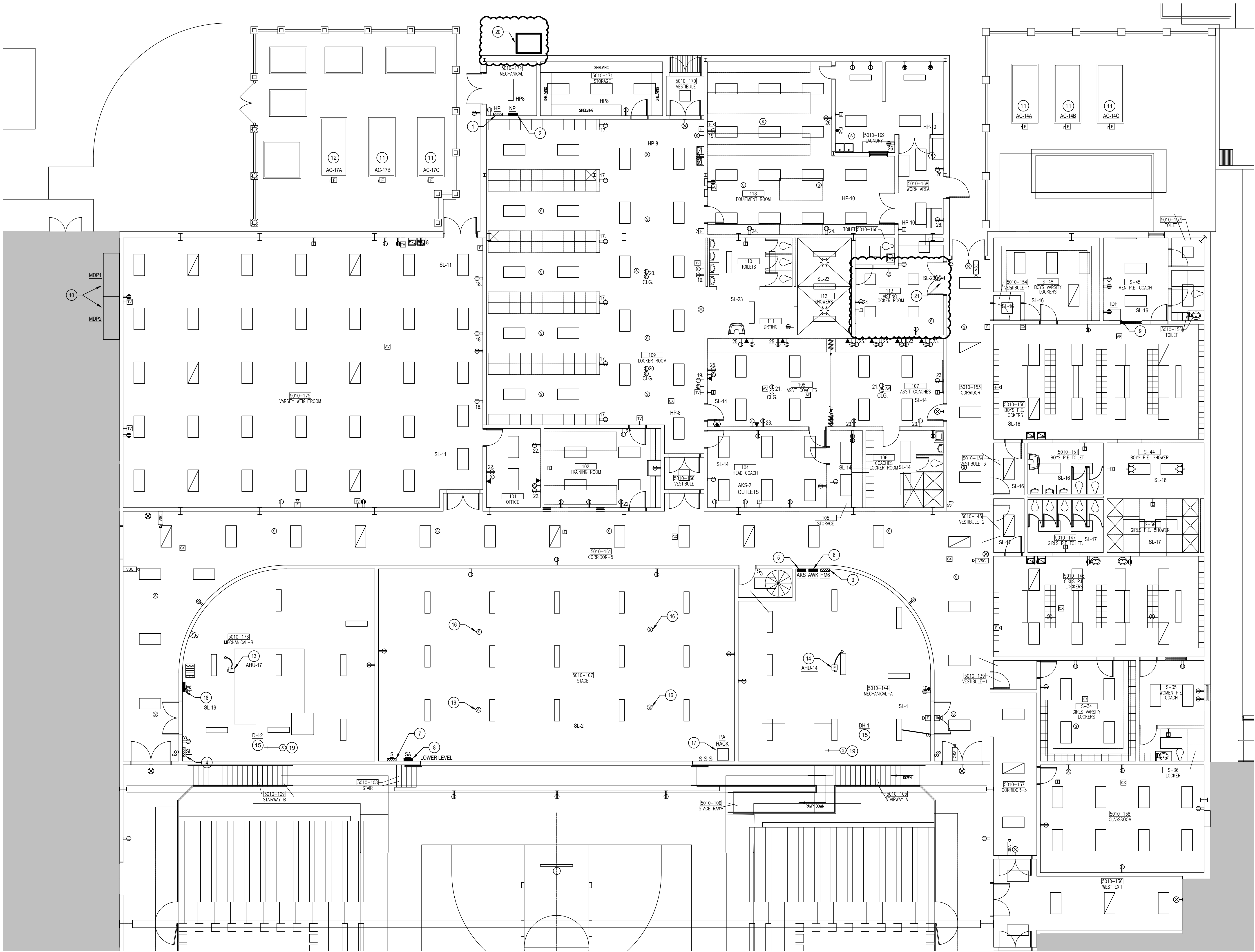
PROJECT NO: 25012

Friday, October 24, 2008



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DATE:	October 6, 2025
DRAWN:	KAB
CHECKED:	KAB
REVISIONS:	1. 10/24/2025



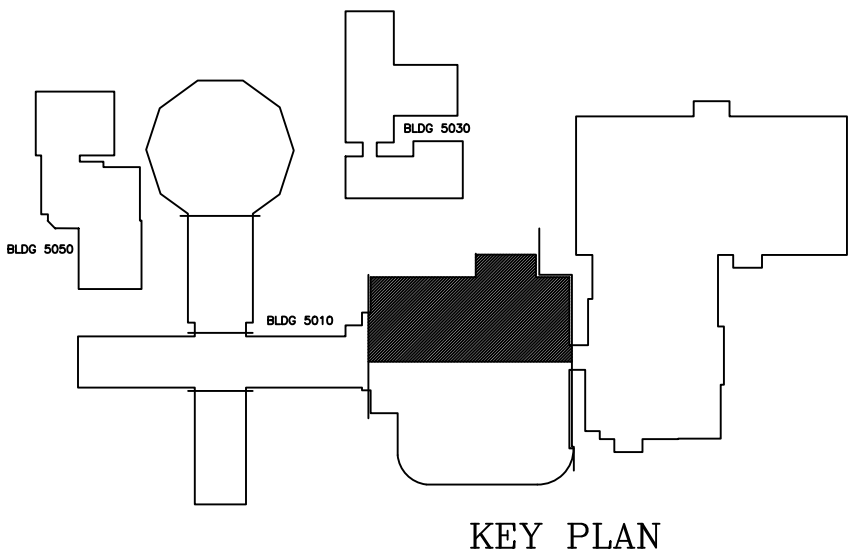
ELECTRICAL DEMOLITION PLAN - BUILDING 5010
SCALE: 1/8" = 1'-0"

NOTES: (THIS SHEET ONLY)

- EXISTING PANEL 'NP', 480/277V, 3PH, 4W, 250A M.L.O. PANELBOARD SHALL REMAIN. SQUARE D TYPE NF.
- EXISTING PANEL 'NP', 208/120V, 3PH, 4W, 125AMP M.B. PANELBOARD SHALL REMAIN. SQUARE D QO LOAD CENTER.
- EXISTING PANEL '1M', 480/277V, 3PH, 4W PANELBOARD SHALL REMAIN. SQUARE D NF.
- EXISTING PANEL 'SL', 480/277V, 3PH, 4W PANELBOARD SHALL REMAIN.
- EXISTING PANEL 'AKS', 208/120V, 3PH, 4W, 100AMP M.B. PANELBOARD SHALL REMAIN. SQUARE D NODD.
- EXISTING PANEL 'AWK', 208/120V, 3PH, 4W, 200AMP M.B. PANELBOARD SHALL REMAIN.
- EXISTING PANEL 'S', 480/277V, 3PH, 4W PANELBOARD SHALL REMAIN.
- EXISTING PANEL 'SA', 208/120V, 3PH, 4W, 100AMP M.B. PANELBOARD SHALL REMAIN.
- CONTRACTOR SHALL RELOCATE EXISTING IDF RACK AS SHOWN ON NEW WORK DRAWINGS. COORDINATE THIS WORK AND OUTAGE WITH OWNER'S IT DEPARTMENT. THE INTENT IS TO RELOCATE EXISTING FIBER FEED AND DATA CABLING TO NEW LOCATION.
- EXISTING DUAL 2000 AMP MAIN 480/277V, 3PH, 4W SWITCHBOARD SHALL REMAIN. SQUARE D QED STYLE.
- CONTRACTOR SHALL DISCONNECT EXISTING 200A/3P POWER CIRCUIT FROM SWBD TO OUTDOOR AC UNIT (AC-17B, AC-17C, AC-14A, AC-14B & AC-14C). MAINTAIN CIRCUIT FOR REUSE.
- CONTRACTOR SHALL DISCONNECT EXISTING 125A/3P POWER CIRCUIT FROM SWBD TO OUTDOOR AC UNIT (AC-17A). MAINTAIN CIRCUIT FOR REUSE.
- CONTRACTOR SHALL DISCONNECT EXISTING 250A/3P POWER CIRCUIT FROM SWBD TO INDOOR AIR HANDLER UNIT (AHU-17). MAINTAIN CIRCUIT (STUBBED UP FROM FLOOR) FOR REUSE. PROVIDE NECESSARY PROTECTION DURING HVAC DEMOLITION AND NEW EQUIPMENT INSTALL.
- CONTRACTOR SHALL DISCONNECT EXISTING 200A/3P POWER CIRCUIT FROM SWBD TO INDOOR AIR HANDLER UNIT (AHU-14). MAINTAIN CIRCUIT (STUBBED UP FROM FLOOR) FOR REUSE. PROVIDE NECESSARY PROTECTION DURING HVAC DEMOLITION AND NEW EQUIPMENT INSTALL.
- CONTRACTOR SHALL DISCONNECT EXISTING 80A/3P POWER CIRCUIT FROM SWBD TO SUPPLY FAN DUCT HEATER (DH-1 & DH-2). MAINTAIN CIRCUIT FOR REUSE.
- EXISTING STAGE SPEAKERS TO BE RELOCATED / REINSTALLED BY OWNER.
- EXISTING PA SYSTEM RACK SHALL REMAIN. CONTRACTOR SHALL PROTECT THIS EQUIPMENT DURING DEMOLITION AND CONSTRUCTION.
- EXISTING PANEL 'LK', 208/120V, 3PH, 4W, 150AMP M.B. PANELBOARD SHALL REMAIN. SQUARE D NODD.
- CONTRACTOR SHALL COORDINATE WITH GEORGIA FLORIDA ALARM TO REMOVE DUCT MOUNTED SMOKE DETECTOR FROM DUCTWORK WHICH IS SLATED FOR DEMOLITION. MAINTAIN CIRCUIT AND DEVICE TO BE REINSTALLED IN NEW DUCTWORK.
- CONTRACTOR SHALL DISCONNECT EXISTING 30A/3P POWER CIRCUIT TO EXTERIOR HVAC PACKAGE UNIT AND DEMO POWER CIRCUIT BACK TO PANEL 'HP'. SEE NEW WORK DRAWINGS FOR NEW UNIT POWER REQUIREMENTS.
- EXISTING ENTRY DOOR IS BEING DEMOLISHED. DEMO EXIT AND RELOCATE LIGHT SWITCH AND WALL MOUNTED AV SCREEN AS SHOWN ON NEW WORK PLANS.

GENERAL DEMOLITION NOTES:

- DEMO EXISTING INTERIOR LIGHT FIXTURES AND EXIT SIGNS SHOWN IN THEIR ENTIRETY. MAINTAIN LIGHTING FEEDER CIRCUITS FOR CONNECTION TO NEW FIXTURES.
- DEMO EXISTING CONVENIENCE OUTLET CIRCUITS SHOWN ON WALLS SLATED TO BE DEMOLISHED. MAINTAIN POWER TO DOWNSTREAM DEVICES. EXISTING DEVICES SHOWN ON WALLS TO REMAIN SHALL BE REPLACED WITH SFEOTED DEVICES.
- DEMO ELECTRICAL CIRCUITS IN THEIR ENTIRETY FROM ALL MECHANICAL EQUIPMENT SHOWN TO BE DEMOLISHED ON MECHANICAL DEMOLITION PLANS, INCLUDING ROOF TOP UNITS, EXHAUST FANS, WALL HEATERS, WATER SOURCE HPS AND PUMPS ETC. ALL MECHANICAL EQUIPMENT SHOWN TO BE REMOVED AND REINSTALLED DURING CONSTRUCTION ON MECHANICAL PLANS SHALL BE DISCONNECTED AND RECONNECTED TO THE EXISTING ELECTRICAL CIRCUITS.
- EXISTING COMPUTER DATA OUTLETS, CABLES, AND RACEWAYS SHALL BE REMOVED FROM WALLS SLATED TO BE DEMOLISHED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING DATA OUTLETS AND ALL ASSOCIATED DATA NETWORKING ELECTRONIC EQUIPMENT DURING DEMOLITION AND RENOVATIONS OF ALL AREAS. HAND ALL ITEMS REMOVED OVER TO OWNER.
- ALL WIRELESS ACCESS POINTS SHALL REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR EXISTING EQUIPMENT DURING DEMOLITION AND RENOVATION OF THIS BUILDING. ALL ASSOCIATED ITEMS DAMAGED SHALL BE REPLACED AT NO COST TO OWNER. CONTRACTOR SHALL REINSTALL CEILING MOUNTED DEVICES IN NEW CEILINGS.
- CONTRACTOR SHALL UTILIZE THOMAS COUNTY'S FIRE ALARM SERVICE PROVIDER GEORGIA FLORIDA ALARM TO DO FIRE ALARM RENOVATION ON THIS PROJECT. EXISTING DEVICES SHALL BE RELOCATED AND REWORKED FOR NEW FLOOR PLAN AS SHOWN.
- EXISTING WALL MOUNT TY'S AND DISTRIBUTION SYSTEM INCLUDING ALL EXISTING OUTLETS, RACEWAYS, AND DISTRIBUTION CABLES ETC. SHALL REMAIN IN THE BUILDING. SECURE ALL SYSTEM COMPONENTS DURING DEMOLITION AND CONSTRUCTION.
- EXISTING INTERCOM SYSTEM COMPONENTS INCLUDING SPEAKERS, HANDSETS, PUSHBUTTONS, CABLES, AND RACEWAYS SHALL BE REWORKED FOR NEW FLOOR PLAN AS SHOWN, WHERE CEILINGS ONLY ARE BEING REPLACED. CONTRACTOR SHALL SAFE OFF DEVICES DURING WORK AND REINSTALL UPON COMPLETION. CONTRACTOR SHALL UTILIZE THOMAS COUNTY'S INTERCOM SERVICE PROVIDER FOCUS COMMUNICATIONS TO DO INTERCOM REWORK ON THIS PROJECT. EXISTING DEVICES SHALL BE RELOCATED AND REWORKED FOR NEW FLOOR PLAN AS SHOWN WITH NEW DEVICES PROVIDED AS NEEDED.
- ALL CCTV SYSTEM CAMERAS AND SECURITY SYSTEM SHALL REMAIN UNLESS NOTED OTHERWISE. CONTRACTOR SHALL BE RESPONSIBLE FOR EXISTING CCTV CAMERAS AND SYSTEM DEVICES DURING DEMOLITION AND RENOVATION OF THIS BUILDING. ALL ASSOCIATED ITEMS DAMAGED SHALL BE REPLACED AT NO COST TO OWNER. CONTRACTOR SHALL REINSTALL THESE DEVICES IN NEW CEILINGS.
- THIS FACILITY CONTAINS A CENTEGIX WIRELESS CRISIS ALERT SYSTEM. THIS CONTRACTOR SHALL CONTACT CENTEGIX FOR A COST TO REMOVE AND REINSTALL THE EXISTING SYSTEM DEVICES WITHIN WORK AREA. THIS COST SHALL BE INCLUDED AS LINE ITEM IN BID.



KEY PLAN

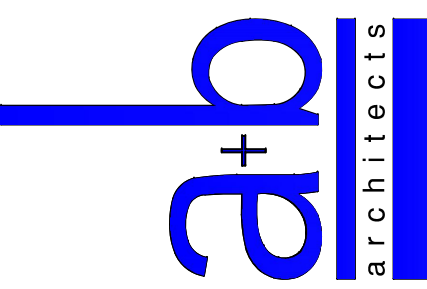
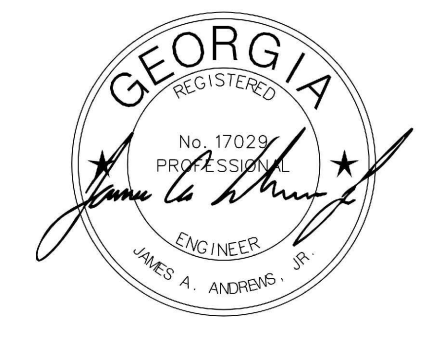
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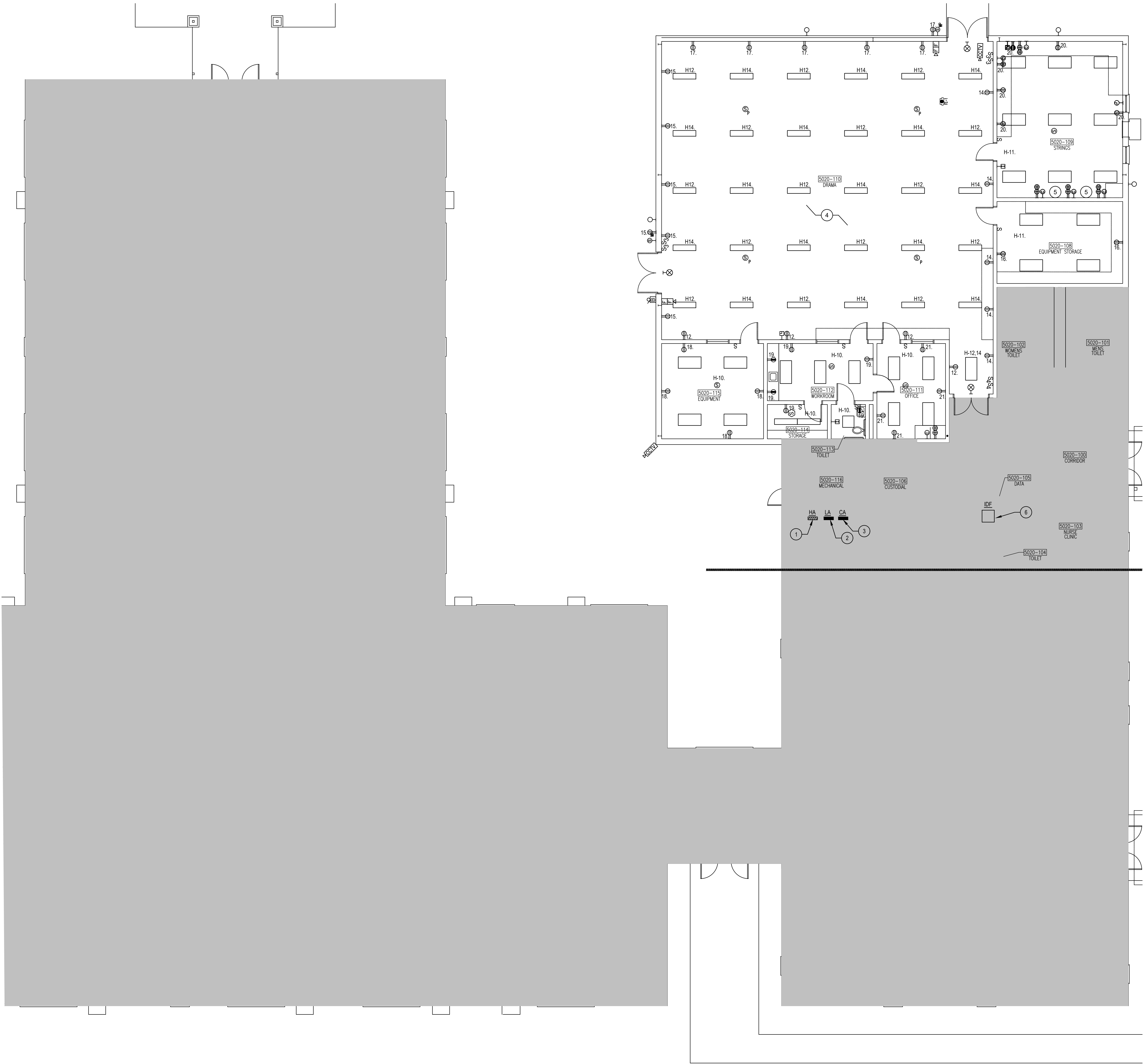
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Interior Renovations for
Thomas County High School
4686 Hwy 84, Thomasville, GA 31792
Thomas County School District



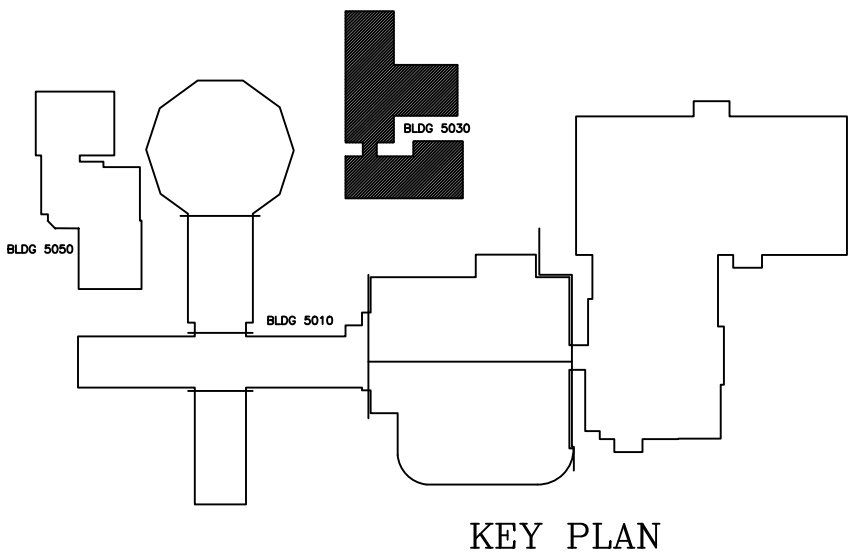
ELECTRICAL DEMOLITION PLAN - BUILDING 5020
SCALE: 1/8" = 1'-0"

NOTES: (THIS SHEET ONLY)

1. EXISTING PANEL 'HA', 480/277V, 3PH, 4W, 400A M.B. PANELBOARD SHALL REMAIN.
2. EXISTING PANEL 'LA', 208/120V, 3PH, 4W, 150AMP M.B. PANELBOARD SHALL REMAIN.
3. EXISTING PANEL 'CA', 208/120V, 3PH, 4W, 100AMP M.B. PANELBOARD SHALL REMAIN.
4. PENDANT LIGHTING IN THIS SPACE SHALL BE DEMOLISHED AND LIGHTING CIRCUITS REWORKED TO RAISE FIXTURES. SEE NEW WORK PLANS.
5. CONTRACTOR SHALL DEMO EXISTING POWER AND DATA ON THIS WALL. MAINTAIN CIRCUIT FOR DOWNSTREAM DEVICES AND NEW WORK. REUSE EXISTING DATA DROPS AS SHOWN ON NEW WORK.
6. EXISTING IDF DATA RACK SHALL REMAIN.

GENERAL DEMOLITION NOTES:

1. DEMO EXISTING INTERIOR LIGHT FIXTURES AND EXIT SIGNS SHOWN. MAINTAIN LIGHTING FEEDER CIRCUITS FOR CONNECTION TO NEW FIXTURES. SEE NEW WORK PLANS FOR ADDITION OF OCCUPANCY SENSOR SWITCHES AND OCCUPANCY SENSORS.
2. DEMO EXISTING CONVENIENCE OUTLET CIRCUITS SHOWN ON WALLS SLATED TO BE DEMOLISHED. MAINTAIN POWER TO DOWNSTREAM DEVICES. EXISTING DEVICES SHOWN ON WALLS TO REMAIN SHALL BE REPLACED WITH SPECIFIED DEVICES.
3. CONTRACTOR SHALL UTILIZE THOMAS COUNTY'S FIRE ALARM SERVICE PROVIDER GEORGIA FLORIDA ALARM TO DO FIRE ALARM REWORK ON THIS PROJECT. EXISTING DEVICES SHALL BE RELOCATED AND REWORKED FOR NEW FLOOR PLAN IF REQUIRED.
4. EXISTING WALL MOUNT TV'S AND DISTRIBUTION SYSTEM INCLUDING ALL EXISTING OUTLETS, RACEWAYS, AND DISTRIBUTION CABLES ETC. SHALL REMAIN IN THE BUILDING. SECURE ALL SYSTEM COMPONENTS DURING DEMOLITION AND CONSTRUCTION.
5. EXISTING INTERCOM SYSTEM COMPONENTS INCLUDING SPEAKERS, HANDSETS, PUSHBUTTONS, CABLES, AND RACEWAYS SHALL BE REWORKED FOR NEW FLOOR PLAN AS SHOWN. WHERE CEILING ONLY ARE BEING REPLACED, CONTRACTOR SHALL SAFE OFF DEVICES DURING WORK AND REINSTALL UPON COMPLETION. CONTRACTOR SHALL UTILIZE THOMAS COUNTY'S INTERCOM SERVICE PROVIDER FOCUS COMMUNICATIONS TO DO INTERCOM REWORK ON THIS PROJECT. EXISTING DEVICES SHALL BE RELOCATED AND REWORKED FOR NEW FLOOR PLAN AS SHOWN WITH NEW DEVICES PROVIDED AS NEEDED.
6. ALL CCTV SYSTEM CAMERAS AND SECURITY SYSTEM SHALL REMAIN UNLESS NOTED OTHERWISE. CONTRACTOR SHALL BE RESPONSIBLE FOR EXISTING CCTV CAMERAS AND SYSTEM DEVICES DURING DEMOLITION AND RENOVATION OF THIS BUILDING. ALL ASSOCIATED ITEMS DAMAGED SHALL BE REPLACED AT NO COST TO OWNER. CONTRACTOR SHALL REINSTALL CEILING MOUNTED DEVICES IN NEW CEILINGS.
7. ALL WIRELESS ACCESS POINTS SHALL REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR EXISTING EQUIPMENT DURING DEMOLITION AND RENOVATION OF THIS BUILDING. ALL ASSOCIATED ITEMS DAMAGED SHALL BE REPLACED AT NO COST TO OWNER. CONTRACTOR SHALL REINSTALL CEILING MOUNTED DEVICES IN NEW CEILINGS.
8. THIS FACILITY CONTAINS A CENTEGIX WIRELESS CRISIS ALERT SYSTEM. THIS CONTRACTOR SHALL CONTACT CENTEGIX FOR A COST TO REMOVE AND REINSTALL THE EXISTING SYSTEM DEVICES WITHIN WORK AREA. THIS COST SHALL BE INCLUDED AS LINE ITEM IN BID.



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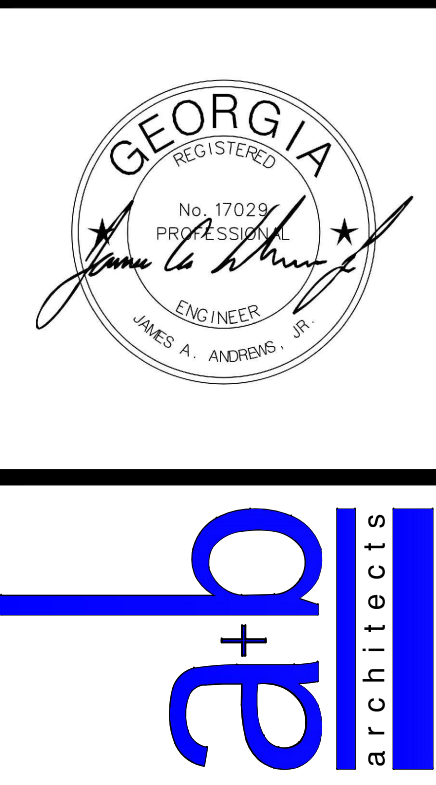
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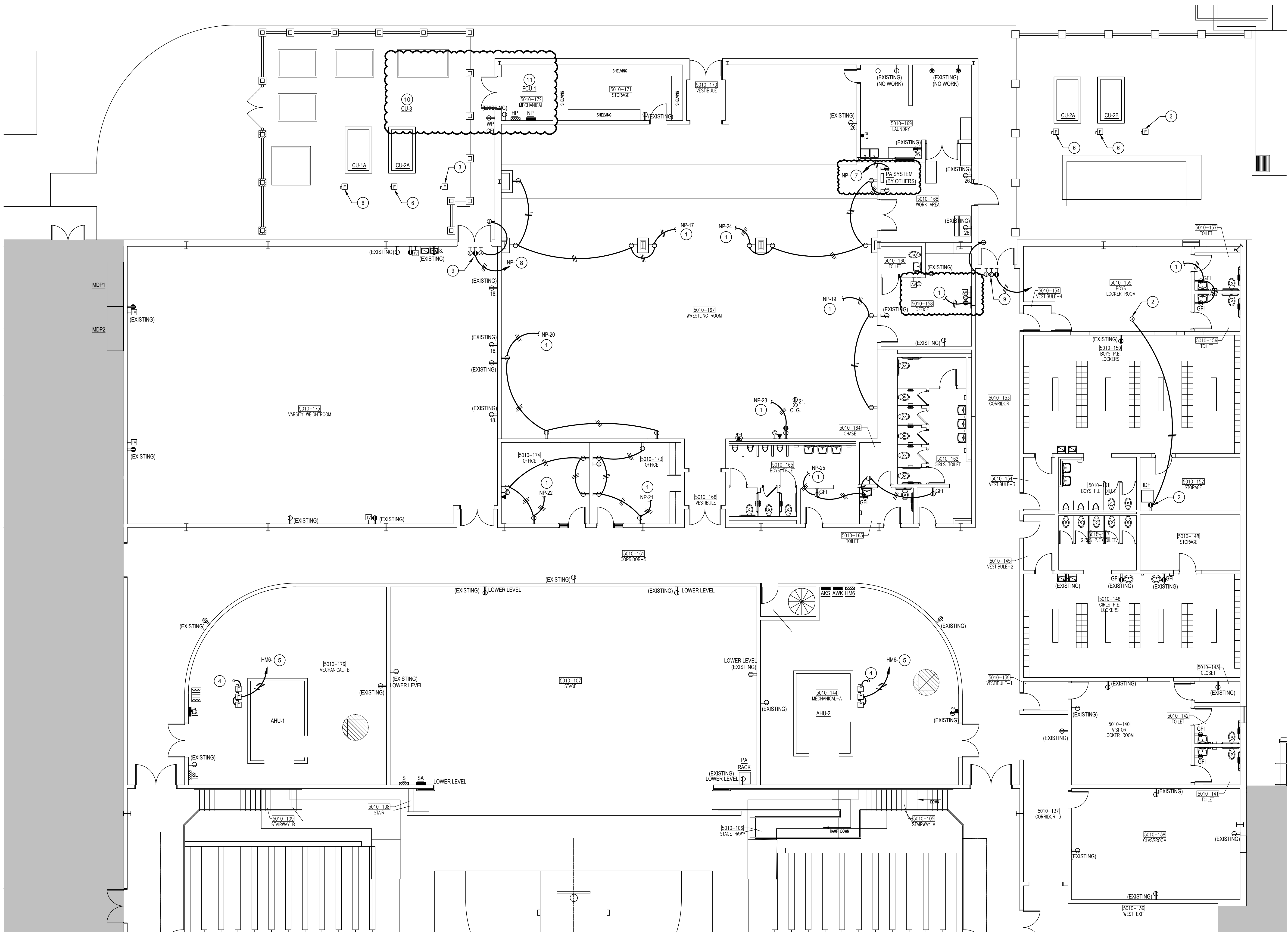
Interior Renovations for
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4686 Hwy 84, Thomasville, GA 31792
Thomas County School District

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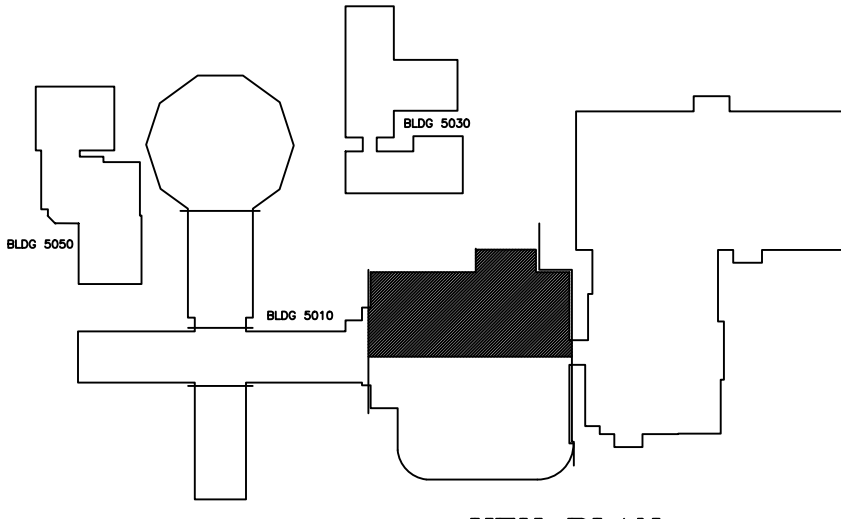
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ELECTRICAL NEW WORK POWER PLAN - BUILDING 5010
SCALE: 1/8" = 1'-0"

NOTES: (THIS SHEET ONLY)

1. EXTEND EXISTING CONV. OUTLET CIRCUIT IN SPACE TO OUTLET AS SHOWN. UTILIZE #12, #12G, 2°C AS SHOWN.
2. EXTEND EXISTING IDF CONV. OUTLET CIRCUIT IN SPACE TO OUTLET AS SHOWN. UTILIZE #12, #12G, 2°C AS SHOWN.
3. CONTRACTOR SHALL "SAFE OFF" EXISTING 200A/3P OUTDOOR UNIT CIRCUITS FOR AC-17C & AC-14C. THESE CIRCUITS WILL NOT BE UTILIZED. LEAVE SWBD BREAKER IN "OFF" POSITION.
4. CONTRACTOR SHALL UTILIZE EXISTING 200A/3P INDOOR AIR HANDLER UNIT CIRCUIT TO POWER STRIP HEAT IN NEW AIR HANDLERS (AHU-1 & AHU-2). PROVIDE 200A/3P HEAVY DUTY FUSIBLE DISCONNECT IN NEMA 1 ENCLOSURE. FUSE AT 175 AMPS. ROUTE 3# 20, #6G, 2°C FROM DISCONNECT TO UNIT AND MAKE CONNECTIONS.
5. CONTRACTOR SHALL PROVIDE TWO 40A/3P BREAKERS FOR EXISTING PANEL HMB FOR NEW AIR HANDLERS TO POWER FANS. ROUTE 3#6, #10G, 2°C FROM BREAKER TO AIR HANDLER. PROVIDE TWO 60A/3P HEAVY DUTY FUSIBLE DISCONNECTS IN NEMA 1 ENCLOSURE MOUNTED TO UNIT. FUSE AT 20 AMPS. ROUTE 3# 10, #10G, 2°C FROM EACH DISCONNECT TO EACH VFD ON UNIT AND MAKE CONNECTIONS.
6. CONTRACTOR SHALL UTILIZE EXISTING CIRCUITS FOR AC-17A, AC-17B, AC-14A & AC-14B TO POWER NEW CU UNITS. PROVIDE NEW 200A/3P HEAVY DUTY FUSIBLE DISCONNECT IN NEMA 3R ENCLOSURE. FUSE AT 90 AMPS. ROUTE 3# 3, #6G, 1 1/2" FROM DISCONNECT TO UNIT AND MAKE CONNECTIONS.
7. PROVIDE 20A/1P BREAKER FOR EXISTING PANEL TO POWER NEW PA SYSTEM PANEL. ROUTE 2#12, #12G, 2°C FROM NEW BREAKER TO PANEL AS SHOWN.
8. PROVIDE 20A/1P BREAKER FOR EXISTING PANEL. ROUTE 2#12, #12G, 2°C FROM NEW BREAKER TO OUTLET AS SHOWN.
9. PROVIDE POWER, DATA AND CONDUIT PROVISIONS AS SHOWN FOR NEW CARD READER.
10. CONTRACTOR SHALL UTILIZE EXISTING SPARE 30A/3P BREAKER (PANEL HP) FOR NEW OUTDOOR HVAC UNIT AC-1. ROUTE 3#10, #10G, 2°C AS NEEDED. PROVIDE 30A/3P HEAVY DUTY, NON-FUSED, NEMA 3R DISCONNECT AT UNIT. ROUTE CIRCUIT VIA DISCONNECT AND MAKE CONNECTIONS. EXISTING ABANDONED CONDUIT PATHWAY MAY BE UTILIZED IF FOUND TO BE ACCESSIBLE.
11. CONTRACTOR SHALL PROVIDE 60A/3P BREAKER FOR PANEL HP TO POWER NEW INDOOR HVAC UNIT AC-1. ROUTE 3#6, #10G, 2°C AS NEEDED. ROUTE CIRCUIT VIA UNITS INTERNAL DISCONNECT AND MAKE CONNECTIONS.



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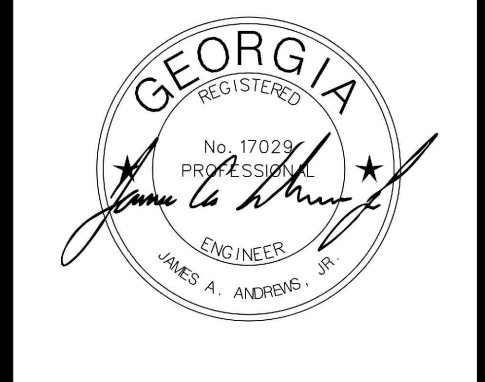
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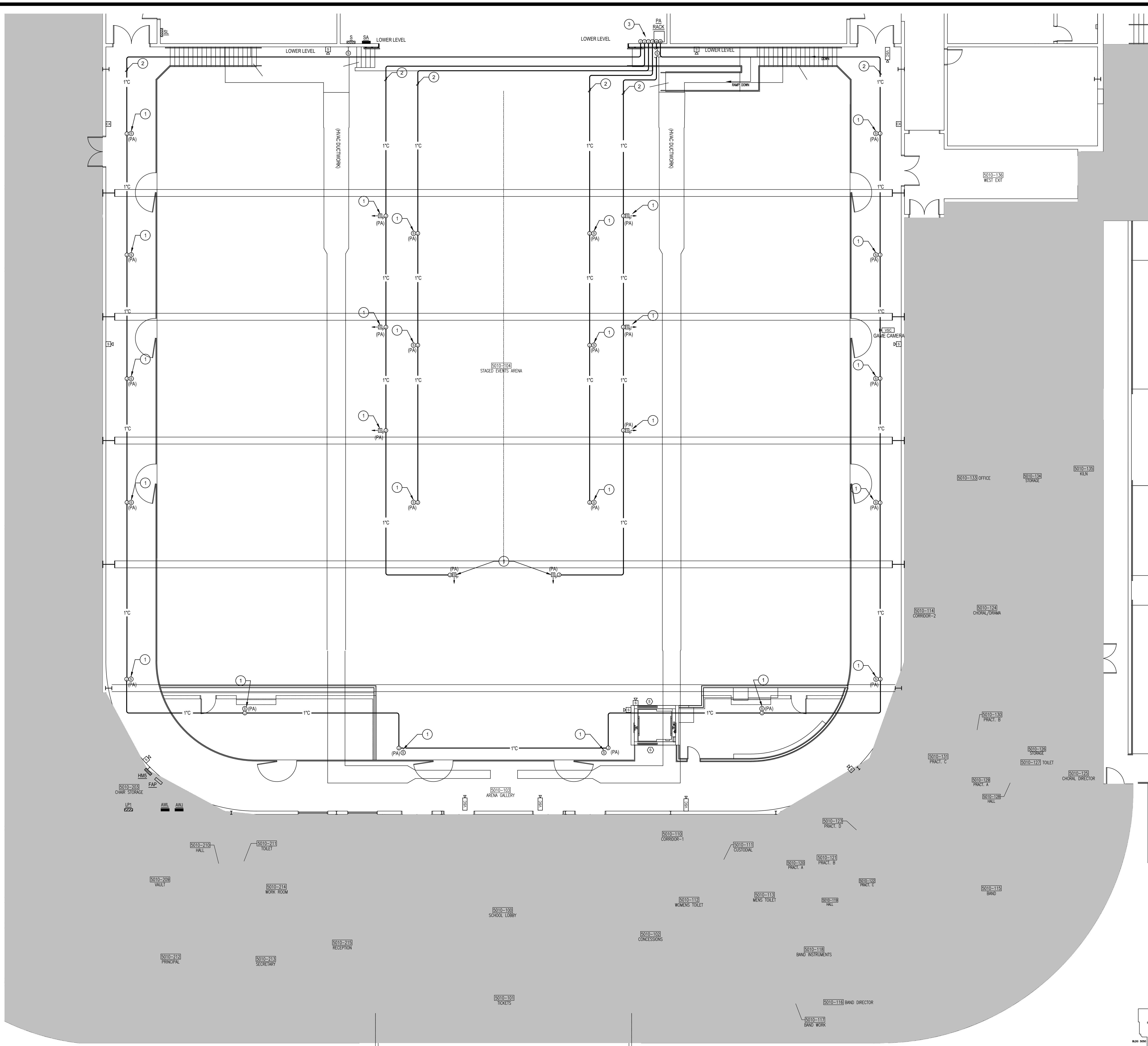


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Thomas County High School
4686 Hwy 84, Thomasville, GA 31792
Thomas County School District

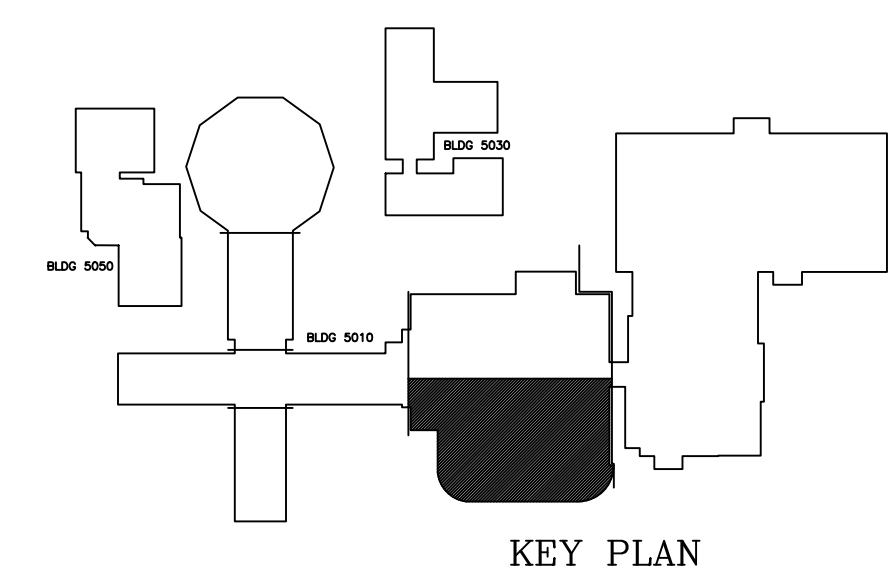


ELECTRICAL NEW WORK LOW VOLTAGE PLAN - BUILDING 5010
SCALE: 1/8" = 1'-0"

NOTES: (THIS SHEET ONLY)

- 1 REINSTALLATION OF EXISTING GYM PA AND INTERCOM SYSTEM SPEAKERS SHALL BE BY OTHERS UPON COMPLETION OF CEILING PANEL INSTALL.
- 2 PROVIDE NEW CONDUIT PATHWAY AS SHOWN FOR INTERCOM AND PA SYSTEM CABLEING (BY OTHERS). COORDINATE JUNCTION BOX LOCATIONS WITH EXISTING SPEAKER LOCATIONS AS SHOWN. CONCEAL ROUTING WHERE POSSIBLE. EXPOSED ROUTING SHALL BE PAINTED TO MATCH SURFACE.
- 3 EXTEND CONDUIT DOWN TO PA SYSTEM RACK ON STAGE.

- GENERAL LOW VOLTAGE NOTES:**
- 1 EXISTING COMPUTER DATA OUTLETS AND CABLES BEING REUSED SHALL BE TESTED UPON COMPLETION OF WORK. ANY CABLES THAT FAIL TEST SHALL BE REPLACED.
 - 2 CONTRACTOR SHALL REINSTALL WIRELESS ACCESS POINTS IN NEW CEILING.
 - 3 CONTRACTOR SHALL UTILIZE THOMAS COUNTY'S FIRE ALARM SERVICE PROVIDER GEORGIA FLORIDA ALARM FOR NEW FIRE ALARM SYSTEM WORK. UTILIZE EXISTING DEVICES WHERE POSSIBLE AND PROVIDE NEW AS NEEDED.
 - 4 COORDINATE WITH OWNER'S I.T. DEPARTMENT ON EXISTING CEILING MOUNTED DATA AND AV PROVISIONS BEING REINSTALLED IN NEW CEILING.
 - 5 REINSTALL EXISTING PA SYSTEM SPEAKERS IN GYMNASIUM UTILIZING NEW CONDUIT PATHWAY FOR SPEAKER CABLES.
 - 6 REINSTALL EXISTING CEILING MOUNTED CCTV SYSTEM CAMERAS AND SECURITY SYSTEM DEVICE IN NEW CEILING. VERIFY OPERATION AND AIMING WITH OWNER'S I.T. DEPARTMENT.
 - 7 COORDINATE WITH CENTEGIX FOR REINSTALLATION WIRELESS CRISIS ALERT SYSTEM UPON COMPLETION OF NEW CEILING. THIS COST SHALL BE INCLUDED AS LINE ITEM IN BID.



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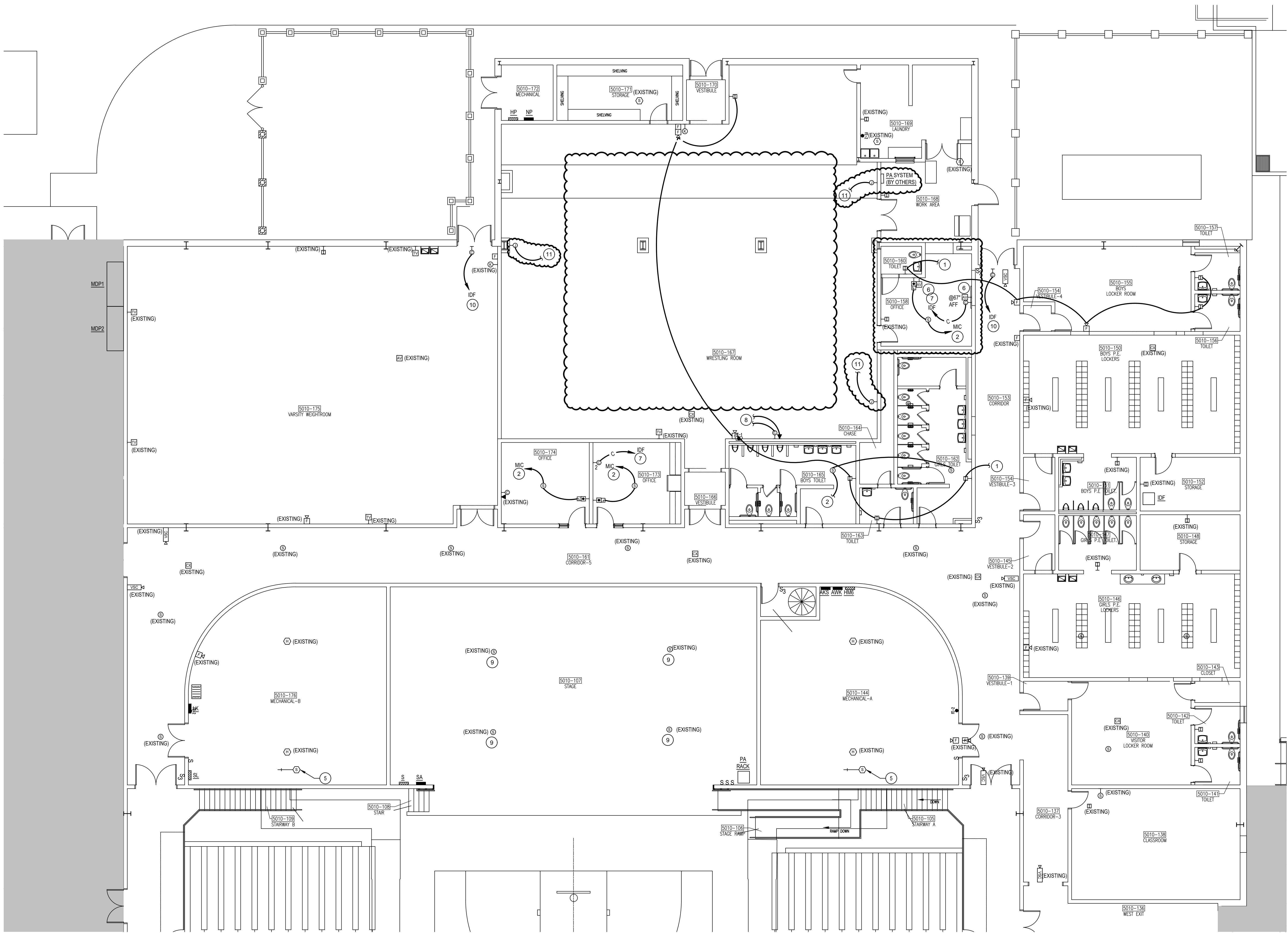
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Interior Renovations for
Thomas County High School
4686 Hwy 84, Thomasville, GA 31792
Thomas County School District

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FACILITY NO: 736-0205

PROJECT NO: 25012

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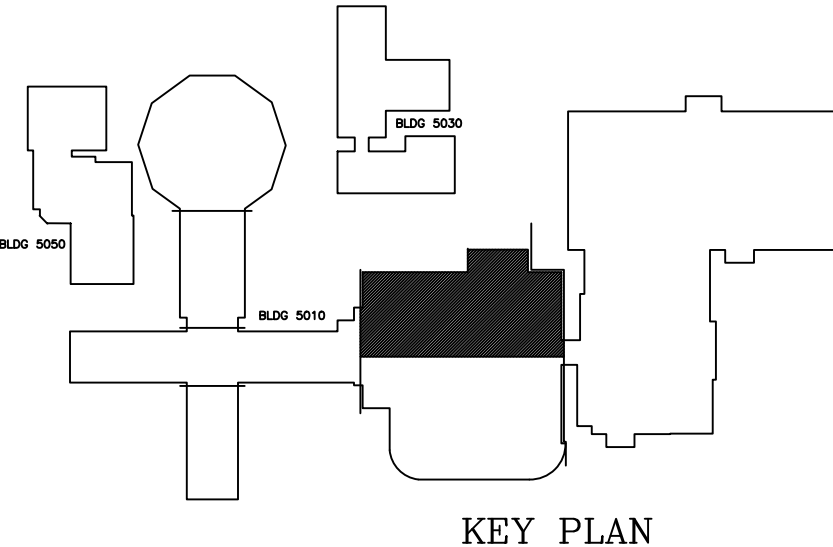
ELECTRICAL NEW WORK LOW VOLTAGE PLAN - BUILDING 5010
SCALE: 1/8" = 1'-0"

NOTES: (THIS SHEET ONLY)

1. PROVIDE NEW FIRE ALARM DEVICES AS SHOWN. COORDINATE WORK WITH GEORGIA FLORIDA ALARM THOMAS COUNTY'S FIRE ALARM SERVICE PROVIDER.
2. PROVIDE NEW INTERCOM SYSTEM COMPONENTS AS SHOWN AND CONNECT TO IDF.
3. NEW AUDIO SYSTEM FOR WRESTLING ROOM (BY OTHERS)
4. RELOCATE EXISTING WALL MOUNTED DATA RACK AS SHOWN. RELOCATE EXISTING FIBER AND DATA DROPS AS REQUIRED. COORDINATE THIS WORK AND ALL OUTAGES WITH OWNER'S I.T. DEPARTMENT.
5. PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR HVAC CONTRACTOR TO INSTALL IN DUCT WORK AND MAKE CONNECTIONS. UTILIZE EXISTING DUCT DETECTOR CIRCUIT IN SPACE.
6. SEE DETAIL SHEET E701 FOR AV CONNECTIVITY PROVISIONS.
7. PROVIDE NEW CAT-6 DATA DROP ROUTED TO IDF. SUBSCRIPT DENOTES NUMBER OF DROPS PER LOCATION.
8. PROVIDE NEW WALL BOX AND CONDUIT TO ABOVE ACCESSIBLE CEILING FOR EXISTING DATA / VOICE CABLING. PROVIDE NEW FACEPATE AND ACTIVATIONS.
9. EXISTING STAGE SPEAKERS TO BE INSTALLED IN NEW LAY-IN CEILING BY OWNER.
10. PROVIDE DATA OUTLET ABOVE ACCESSIBLE CEILING FOR NEW CARD READER AS SHOWN. ROUTE CAT-6 DATA CABLE TO EXISTING IDF RACK AND COORDINATE TERMINATION WITH OWNER'S I.T. DEPARTMENT.
11. PROVIDE DOUBLE GANG J-BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING FOR PA SYSTEM USE.

GENERAL LOW VOLTAGE NOTES:

1. EXISTING COMPUTER DATA OUTLETS AND CABLES BEING REUSED SHALL BE TESTED UPON COMPLETION OF WORK. ANY CABLES THAT FAIL TEST SHALL BE REPLACED.
2. CONTRACTOR SHALL REINSTALL WIRELESS ACCESS POINTS IN NEW CEILING.
3. CONTRACTOR SHALL UTILIZE THOMAS COUNTY'S FIRE ALARM SERVICE PROVIDER GEORGIA FLORIDA ALARM FOR NEW FIRE ALARM SYSTEM WORK. UTILIZE EXISTING DEVICES WHERE POSSIBLE AND PROVIDE NEW AS NEEDED.
4. COORDINATE WITH OWNER'S I.T. DEPARTMENT ON EXISTING CEILING MOUNTED DATA AND AV PROVISIONS BEING REINSTALLED IN NEW CEILING.
5. REINSTALL EXISTING INTERCOM SYSTEM COMPONENTS IN NEW CEILING.
6. REINSTALL EXISTING CEILING MOUNTED CCTV. SYSTEM CAMERAS AND SECURITY SYSTEM DEVICE IN NEW CEILING. VERIFY OPERATION AND AIMING WITH OWNER'S I.T. DEPARTMENT.
7. COORDINATE WITH CENTEGIX FOR REINSTALLATION WIRELESS CRISIS ALERT SYSTEM UPON COMPLETION OF NEW CEILINGS. THIS COST SHALL BE INCLUDED AS LINE ITEM IN BID.



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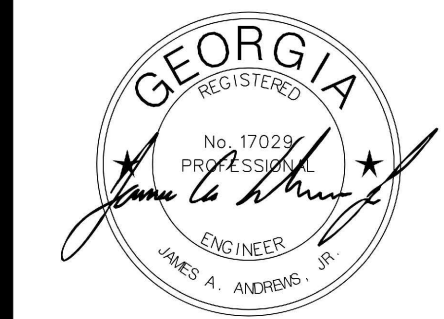
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NOTES: (THIS SHEET ONLY)

- 1 CONTRACTOR SHALL CONTRACT WITH FOCUS COMMUNICATIONS TO PROVIDE INTERCOM SPEAKERS IN NEW CORRIDOR CONNECTED TO GENERAL ALL CALL OF INTERCOM SYSTEM.
- 2 CONTRACTOR SHALL CONTRACT WITH GEORGIA FLORIDA ALARM TO RELOCATE EXISTING FIRE ALARM HORN/STROBE AND INSTALL NEW INDICATING STROBE AS SHOWN.
- 3 CONTRACTOR SHALL RELOCATE EXISTING PENDANT SPEAKERS IN THIS SPACE IF THEY CONFLICT WITH NEW WALL INSTALLATION.
- 4 CONTRACTOR SHALL UTILIZE EXISTING DATA RACK REMOVED FROM DEBATE CLASSROOM 1. DAY ISSUES WITH HIRING CONTRACTOR SHALL PULL NEW CAT4 CABLE TO EXISTING DR RACK COORDINATE WITH OWNER'S IT DEPARTMENT.
- 5 SEE DETAIL SHEET E701 FOR ALL CONNECTIVITY PROVISIONS.
- 6 PROVIDE ADDITIONAL INTERCOM SPEAKER AS SHOWN. MATCH EXISTING.
- 7 PROVIDE DATA OUTLET ABOVE ACCESSIBLE CEILING FOR NEW CARD READER BY SHOWN. ROUTE CAT4 DATA CABLE TO EXISTING RACK AND COORDINATE WITH OWNER'S IT DEPARTMENT.

GENERAL LOW VOLTAGE NOTES:

- EXISTING COMPUTER DATA OUTLETS AND CABLES BEING REUSED SHALL BE TESTED UPON COMPLETION OF WORK. ANY CABLES THAT FAIL TEST SHALL BE REPLACED.
- CONTRACTOR SHALL REINSTALL WIRELESS ACCESS POINTS IN NEW CEILING.
- CONTRACTOR SHALL INSTALL THOMAS GOSNELL'S FIRE ALARM SYSTEM PROVIDING GEORGIA FLORIDA ALARM FOR NEW FIRE ALARM SYSTEM WORK. UTILIZE EXISTING DEVICES WHERE POSSIBLE AND PROVIDE NEW AS NEEDED.
- COORDINATE WITH OWNER'S I.T. DEPARTMENT ON EXISTING CEILING MOUNTED DATA AND AV PROVISIONS BEING REINSTALLED IN NEW CEILING.
- CONTRACTOR SHALL UTILIZE THOMAS GOSNELL'S INTERCOM SYSTEM PROVIDER. FOCUS COMMUNICATION FOR INTERCOM SYSTEM WORK. REINSTALL EXISTING INTERCOM SYSTEM COMPONENTS IN NEW CEILING.
- REINSTALL EXISTING CEILING MOUNTED CCTV, SYSTEM CAMERAS AND SECURITY SYSTEM DEVICE IN NEW CEILING. VERIFY OPERATION AND AIMING WITH OWNER'S I.T. DEPARTMENT.
- COORDINATE WITH CENTREX FOR REINSTALLATION WIRELESS CRISIS ALERT SYSTEM UPON COMPLETION OF NEW CEILINGS. THIS COST SHALL BE INCLUDED AS LINE ITEM

LIGHTING FIXTURE SCHEDULE						
MARK	LAMPS	VOLTAGE	MANUFACTURER & CATALOG NO.	MOUNTING	DESCRIPTION	NOTES
A	LED	277	LITHONIA # CPX-2X4-6000LM-80CRI-40K-A12-MVOLT METALUX, LIGHTOLIER, DAYBRITE, H.E. WILLIAMS, COLUMBIA	2X4 RECESSED GRID	LOW GLARE BACK-LIT LED PANEL FIXTURE WITH EXTERNAL DRIVER. 6000 LUMEN	
AA	LED	277	LITHONIA # CPX-2X4-6000LM-80CRI-40K-A12-MVOLT-2X4SMKSH METALUX, LIGHTOLIER, DAYBRITE, H.E. WILLIAMS, COLUMBIA	2X4 SURFACE KIT	LOW GLARE BACK-LIT LED PANEL FIXTURE WITH EXTERNAL DRIVER. 6000 LUMEN	
B	LED	277	LITHONIA # CPX-2X4-5000LM-80CRI-40K-A12-MVOLT METALUX, LIGHTOLIER, DAYBRITE, H.E. WILLIAMS, COLUMBIA	2X4 RECESSED GRID	LOW GLARE BACK-LIT LED PANEL FIXTURE WITH EXTERNAL DRIVER. 5000 LUMEN	
BB	LED	277	LITHONIA # CPX-2X4-5000LM-80CRI-40K-A12-MVOLT-2X4SMKSH METALUX, LIGHTOLIER, DAYBRITE, H.E. WILLIAMS, COLUMBIA	2X4 SURFACE KIT	LOW GLARE BACK-LIT LED PANEL FIXTURE WITH EXTERNAL DRIVER. 5000 LUMEN	
C	LED	277	LITHONIA # CPX-2X2-5000LM-80CRI-40K-A12-MVOLT METALUX, LIGHTOLIER, DAYBRITE, H.E. WILLIAMS, COLUMBIA	2X2 RECESSED GRID	LOW GLARE BACK-LIT LED PANEL FIXTURE WITH EXTERNAL DRIVER. 5000 LUMEN	
CC	LED	277	LITHONIA # CPX-2X2-5000LM-80CRI-40K-A12-MVOLT-2X2SMKSH METALUX, LIGHTOLIER, DAYBRITE, H.E. WILLIAMS, COLUMBIA	2X2 SURFACE KIT	LOW GLARE BACK-LIT LED PANEL FIXTURE WITH EXTERNAL DRIVER. 5000 LUMEN	
D	LED	277	LITHONIA # CLX-L48-5000LM-40K-80CRI-SEF-WDL METALUX, LIGHTOLIER, DAYBRITE, H.E. WILLIAMS, COLUMBIA	SURFACE / CHAIN	LED LINEAR STRIP LIGHT WITH ROUND DIFFUSE DROP LENS	
E	LED	277	LITHONIA # CPX-2X4-10000LM-80CRI-40K-A12-MVOLT METALUX, LIGHTOLIER, DAYBRITE, H.E. WILLIAMS, COLUMBIA	2X4 RECESSED GRID	LOW GLARE BACK-LIT LED PANEL FIXTURE WITH EXTERNAL DRIVER. 10,000 LUMEN	
F	LED	277	LITHONIA # UFIT-L48-8000LM--SEF-MVOLT-EZ1-40K-80CRI-WH OR EQUAL	PENDANT	LED LINEAR LOW BAY LIGHT 8,000 LUMENS	
G	LED	277	LITHONIA # REBL-AL027-40L-WD-UVOLT-SWW9-40K-80CRI-DWH OR EQUAL	PENDANT	DIE CAST ALUMINUM HIGH BAY LED WITH POWDER COATED FINISH WITH HOOK AND CORD & PLUG 40,000 LUMENS	
H	LED	277	LITHONIA # REBL-AL028-45L-WD-UVOLT-SWW9-40K-80CRI-DWH OR EQUAL	PENDANT	DIE CAST ALUMINUM HIGH BAY LED WITH POWDER COATED FINISH WITH HOOK AND CORD & PLUG 45,000 LUMENS	
J	LED	277	LITHONIA # UFIT-L48-6000LM--SEF-MVOLT-EZ1-40K-80CRI-WH OR EQUAL	PENDANT	LED LINEAR LOW BAY LIGHT 6,000 LUMENS	
X	----	277	EGRESS BATTERY PACK	WITH FIXTURE	FACTORY FURNISHED TO ILLUMINATE FIXTURE FOR 90 MINUTES MINIMUM	
X1	WUNIT	277	LITHONIA # NCL-1R CHLORIDE, EMERGI-LITE, PRESCOLITE	UNIVERSAL	ENCLOSED ALUMINUM ONLY LED, SINGLE FACE EXIT WITH CHEVRON ARROWS	
NOTES:						
1. SEE FIXTURE MOUNTING DETAIL.						



ELECTRICAL LEGEND	
LIGHTING FIXTURES - SEE LIGHTING FIXTURE SCHEDULE	
	RECESSED GRID LED
	EMERGENCY EGRESS LED
	SURFACE MOUNTED LED
	BRACKET MOUNTED LED
	SELF-CONTAINED EMERGENCY LIGHTING
	EXIT LIGHT - WALL, CEILING
	SURFACE MOUNTED DOWNLIGHT
	RECESSED MOUNTED DOWNLIGHT
	WALL BRACKET
CONVENIENCE OUTLETS	
	SIMPLEX
	DUPLEX - WALL (WP=WEATHERPROOF, GF=GROUND FAULT PROTECTED), DOUBLE DUPLEX
	DUPLEX ABOVE COUNTER
	DUPLEX ISOLATED GROUND, DOUBLE DUPLEX ISOLATED GROUND
	DUPLEX - MOUNTED AT 90°
	DUPLEXES - MOUNTED ABOVE AND BELOW, ONE AT 18° AND 90°
	DUPLEXES - MOUNTED ABOVE AND BELOW, ONE AT 18° AND ABOVE COUNTER
	DUPLEX - ISOLATED GROUND, MOUNTED ABOVE COUNTER
	SPECIAL PURPOSE (CONFIG AS NOTED)
	COMPUTER - WALL, FLOOR (SUBSCRIPT DENOTES QTY DROPS)
	WIRELESS ACCESS POINT
	TELEVISION
	TELEPHONE - WALL, FLOOR
	STUB MOUNTED OUTLET
	JUNCTION BOX - WALL, CEILING
SWITCHES	
	SINGLE POLE (WP=WEATHERPROOF)
	SINGLE POLE, MOTOR RATED
	SINGLE POLE, KEY OPERATED
	THREE WAY, KEY OPERATED
	SINGLE POLE, DIMMER
	SINGLE POLE, PILOT LIGHT
	DOUBLE POLE
	THREE WAY
	FOUR WAY
PANELS	
	120/208V, 3PH, 4W OR 240V, 1PH, 3W
	480V/277V, 3PH, 4W
	PLYWOOD BACKBOARD
	SWITCHBOARD OR MOTOR CONTROL CENTER
	TCS-TRANSIENT CONTROLLER, LAP=SURGE ARRESTER, ATS=AUTO TRANSFER SWITCH
CIRCUITS	
	RACEWAY IN CEILING OR WALL
	ONE CROSSMARK PER WIRE, 2 WIRES UNLESS SHOWN
	HOMERUN - ONE ARROW PER CIRCUIT
	RACEWAY UNDER FLOOR OR SLAB
	FA=FIRE ALARM, IC=INTERCOM, TV=TELEVISION, C=COMPUTER
	EXPOSED RACEWAY
	FLEXIBLE RACEWAY
	CONDUIT - UP, DOWN
GENERAL EQUIPMENT	
	DISCONNECT SWITCH (F=FUSED, N=NON-FUSED)
	MOTOR CONTROLLER
	ENCLOSED CIRCUIT BREAKER
	COMBINATION STARTER/ DISCONNECT
	CONTACTOR
	PHOTO-CELL
	AUXILIARY RELAY
	TELEVISION DIRECTIONAL TAP
	PUSHBUTTON
	MOTOR-FRACTIONAL H.P.
	MOTOR-HORSEPOWER NOTED
	TRANSFORMER (DRY-TYPE)
	THERMOSTAT
	PULL BOX
	CABLE TRAY
	TIME CONTROL
COMMUNICATION AND PROTECTION	
	FIRE ALARM PANEL (FAA=ANNUNCIATOR PANEL)
	FIRE ALARM PULL STATION
	FIRE ALARM HORN - STROBE
	FIRE ALARM BELL
	SMOKE DETECTOR - WALL, CEILING
	HEAT DETECTOR
	SPEAKER: CEILING PENDENT (WP=WEATHERPROOF)
	DUCT MOUNTED SMOKE DETECTOR
	INDICATING STROBE
	FLOW SWITCH / TAMPER SWITCH
	DOOR HOLDER
	INTERCOM HAND SET- WALL, FLOOR (A=ADMINISTRATION)
	MASTER CLOCK - WALL, CEILING (D=DOUBLE FACE)
	CENTEGIX CRISIS ALERT SYSTEM
	SECURITY SYSTEM ZONE STATUS INDICATOR
	MICROPHONE OUTLET - WALL, CEILING
	SECURITY SYSTEM KEYPAD
	CLOSED CIRCUIT TV CAMERA
	TWIN CLOSED CIRCUIT TV CAMERAS MOUNTED 180° OPPOSED
	CONDUIT SEALING FITTING