Date: 9 October 2025

ADDENDUM NUMBER TWO (2)

Project: "The Commons" Buildings
Hinds Community College – Rankin Campus
Pearl, MS
HCC Bid #3307
PN: 24053

FROM: Dean Architecture, P.A.
661 Sunnybrook Road, Suite 140
Ridgeland, MS 39157
(601) 939-7717

The following additions, changes, clarifications and/or substitutions to the Project Drawings and Project Manual as indicated, are hereby made a part of the Contract Documents. Acknowledge receipt of this Addendum by inserting its number and date in the Proposal Form where indicated.

General:

ITEM #1: Attached are the sign-in sheets for those who attended the Pre-Bid Conference held on October 8, 2025, at 10:00 am. This is for informational purposes only.

ITEM #2: The deadline for submitting questions and RFI's during the Bid Phase is 12:00 noon on Wednesday October 15, 2025.

Refer to Specifications:

ITEM #1: SECTION 002100 – INSTRUCTIONS TO BIDDERS.
Paragraph 1.02 B, C, & D. Change the number $75,000 to $50,000 to meet current MS Board of Contractors requirements.

ITEM #2: SECTION 018000 - SPECIAL REQUIREMENTS.
Remove existing Section and replace with the attached revised section.
Clarification in paragraph 1.01 B.

ITEM #3: SECTION 064120 – ARCHITECTURAL WOODWORK.
Remove existing section and replace with the attached revised section.

- Removed Formaldehyde-Free requirements.
- Clarified lock locations.
- Revised Edge Banding to 2mm PVC.

ITEM #4: Section 095100 - ACOUSTICAL CEILINGS.
Remove existing section and replace with the attached revised section.
Clarified LAT ceiling types.

ITEM #5: SECTION 096566 – RESILIENT ATHLETIC FLOORING.
Add this section to the Project Manual in its entirety.

ITEM #6: SECTION 099000 – PAINTING AND COATINGS.
Paragraph 2.0B Paint Systems – Exterior. Add the following subparagraph to this section.
H. STAIN – EXTERIOR CONCRETE SIDEWALKS
1. Eagle concrete acid stain as manufactured by Eagle IFP Company – one or two coats

as required to match Hanover Pavers (grey) – verify onsite.
2. Two thin coats of Eagle Armor Seal Waterborne Urethane – Modified Acrylic clear sealer. www.eaglesealer.com

ITEM #7: SECTION 123600 – COUNTERTOPS.
Paragraph 1.05 B – Remove this paragraph in its entirety. AWI Certification is not required on countertops.

Refer to Drawings:

DRAWINGS – PACKAGE A – RESIDENCE HALL and DINING HALL

ITEM #1: SHEET A103 - RESIDENCE HALL THIRD FLOOR PLAN.
Conference Room 304 does not have built-in millwork.

ITEM #2: SHEET A111 – DINING HALL FLOOR PLAN.
The serpentine-shaped wall in serving 109A will be a part of the kitchen equipment package to be provided by owner in a separate contract.

ITEM #3: SHEET A111 - DINING HALL FLOOR PLAN.
Elevation 8/A512 is an elevation of the 4'- 8" high Knee Wall – The counter and equipment shown on this plan is a part of the kitchen equipment package provided by Owner– see 4/QF-B143 in Kitchen Drawings, included for reference purposes.

ITEM #4: SHEET A122 - ENLARGED SITE PLAN.
Remove existing sheet and replace it with the revised sheet. Revised entry sidewalks and scope of work at Irl Dean Rhodes Building entry. Added paver information.

ITEM #5: SHEETS A201 AND A202 – RESIDENCE HALL EXTERIOR ELEVATIONS.
Remove existing sheets and replace with revised sheets.
Changed wall section keys to 1/A308 and 2/A308 in lieu of sheet A309.

ITEM #6: SHEET A402 – STAIRS and SHEET A402a STAIRS.
Remove note regarding sealed concrete at floor landing and intermediate landing. Finish on all landings is LVT-3. Stair treads to remain sealed concrete.

ITEM #7: SHEET A503 – ENLARGED THIRD FLOOR R. C. P.
Remove existing sheet and replace it with revised sheet. Clarified WC1 on GYP. BD. Ceiling above lobby stair.

ITEM #8: SHEET A509 – MILLWORK DETAILS.
Add detail 10/A509 Shown on the attached supplemental drawing SD-1/A509. This denotes a hanging rod and shelf required at all Residence Hall closets. There are two closets in each residence room.

ITEM #9: SHEET A606 HEAD, JAMB AND SILL DETAILS.
Sill Detail 12/A606 and 19/A606 – Add solid surface windowsill similar to detail 5/A307 at windows 9,13, and 16 per section 066100. Student Housing window locations only.

ITEM #10: SHEET A900 – FINISH LEGEND AND NOTES.
Add note: All ceilings to be painted color P8 unless noted otherwise.

ITEM #11: SHEET 901 – RESIDENCE HALL 1ST FLOOR FINISH PLAN.
Detail 1/A901 Residence Room Finish Plan. Change ceiling paint color in residence room and toilet room to paint P8.

ITEM #12: SHEETS A901, A902, A903 – FINISH PLANS.
Change the floor finish in all mechanical /electrical rooms to sealed concrete in lieu of LVT3.

ITEM #13: SHEET A902 - RESIDENCE HALL – 2ND FLOOR FINISH PLAN.
Change the floor finish in the North Stair, NS201 to LVT3.

ITEM #14: SHEET A907 – RESIDENCE HALL FINISH PLAN.
The following are the plastic laminate colors for the mill work items in the following rooms.

FRONT DESK 102 - PL-5
BATHROOM 115 - PL-1
KITCHENETTE 118 - PL-1

ITEM #15: SHEET A911 - DINING HALL FINISH PLAN.
Change finish note in EVS 114 to Typical finish 2.

DRAWINGS – PACKAGE B – GYMNASIUM / WELLNESS CENTER

ITEM #1: SHEET A101a – GYMNASIUM FLOOR PLAN PART "A".
Remove existing sheet and replace it with revised sheet.

ITEM #2: SHEET A121 – ENLARGED SITE PAVING PLAN.
Remove existing sheet and replace it with revised sheet.

ITEM #3: SHEET A309 – GYMNASIUM WALL SECTIONS.
Detail 4/A309 – Remove note calling for continuous floor pad and replace with a note calling for rubber pads per spec section 096466.

ITEM #4: SHEET A314 – GYM CANOPY SECTIONS AND DETAILS.
Add the attached sheet A314 to the Package "B" set of drawings.

ITEM #5: SHEET A502 – GYM ENLARGED FLOOR PLAN.
Remove existing sheet and replace it with revised sheet.

ITEM #6: SHEET A503 – GYM ENLARGED FLOOR PLAN.
Remove existing sheet and replace it with revised sheet.

ITEM #7: SHEET A509 – GYM ENLARGED FLOOR PLAN.
Remove existing sheet and replace it with revised sheet.

ITEM #8: SHEET A601 - DOOR AND FRAME SCHEDULE.
Add note 21 to read as follows.

21. Door 201C is an overhead coiling counter shutter per details on sheets A511 and A604 and Spec Section 083313.

ITEM #9: SHEET A901 AND A902 – GYMNASIUM FINISH PLAN.
Remove designation for Base Bid Work in lower left corner of page and replace with Alternate #2.

"The Commons" Buildings
Hinds Community College – Rankin Campus
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Civil:

SEE ATTACHED CIVIL ITEMS PROVIDED BY MCMASTER & ASSOCIATES, INC.

Structural:

SEE THE ATTACHED ITEMS PROVIDED BY SPENCER ENGINEERS.

Mechanical:

SEE THE ATTACHED MECHANICAL ITEMS PROVIDED BY ENGINEERING RESOURCE GROUP.

Electrical:

SEE THE ATTACHED ELECTRICAL ITEMS PROVIDED BY THE POWER SOURCE.

END OF ADDENDUM NUMBER TWO (2)

Dean Architecture, P.A.

Kenneth A. Oubre, AIA, Principal

PLEASE ATTACH THIS ADDENDUM TO THE INSIDE FRONT COVER OF EACH SET OF SPECIFICATIONS.

PRE-BID CONFERENCE ATTENDEES

PROJECT NAME		DA PN	DATE
Hinds CC The Commons – Bid # 3307		24053	Oct. 8, 2025
Name/Title	**Entity**	**Telephone**	**E-Mail**
KENNETH OUBRE, PRINCIPAL	DEAN ARCHITECTURE	601-939-7717	koubre@deandean.com
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Rob Kittrell	Flagstar	601-824-4646	lee@flagstarconstruction.com
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PROJECT NAME		DA PN	DATE
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Name/Title	**Entity**	**Telephone**	**E-Mail**
Mickey Reeves	Synergy Elec	601-856-1025	Mickey@Synergyelec
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Peyton Sellers	CLR		
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Tim Bass / Estimator	Eddie Pearson Roofing	601-582-3611	tim bass@pearsonroofing.com
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Name/Title	**Entity**	**Telephone**	**E-Mail**
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SPECIAL REQUIREMENTS
SECTION 01 80 00

PART 1 – SUMMARY OF WORK SUPPLEMENT

1.01 **WORK SEQUENCE:**

A. The owner will occupy the building at the conclusion of construction.

B. Construct work as follows:

Project consists of construction of three buildings with associated site work on the Rankin Campus of Hinds Community College in Pearl, MS. Base bid work includes a 3-story student housing building including enclosed connector to food service building with all sitework, parking lots and building pad construction for all buildings.

- Alternate Number One includes construction of the food service building including the dining hall and kitchen.
- Alternate Number Two includes construction of the gymnasium and wellness building along with the covered connector to the food service building.

1.02 **PARTIAL OWNER OCCUPANCY:**

A. Schedule early completion of designated areas for Owner's usage prior to Substantial Completion of entire Project as follows:

1. N/A

B. Owner will occupy the following areas throughout the Project or during portions of the Project as follows: N/A .

C. Prior to occupancy of any portion of the Project, a *Certificate of Substantial Completion* for designated areas shall be executed establishing responsibilities of the Owner and the Contractor for security, maintenance, heat, utilities, damage to the Work and insurance for such portion of the Work.

D. The Contractor will include a separate line item in the *Schedule of Values* for compliance with *Contract Document Closeout Procedures*, including but not limited to the preparation and submission of the Project Record Documents, Operation and Maintenance Data and all other documents specified in other sections of the Project Manual.

For this project, the amount for this separate line item is as follows:

Contract Document Closeout Procedures: $3,500.00

PART 2 – ALLOWANCE SUPPLEMENT

2.01 **SCHEDULES OF ALLOWANCES:**

A. Include in the Base Bid, for inclusion in the Contract Sum, the amount of $200,000 for the Owner's Contingency allowance.

B. Include in the Base Bid, for inclusion in the Contract Sum, the amount of $275,000 for purchase and installation of the complete Landscaping and Irrigation system. (GC to coordinate vendor and design with Owner)

C. Include in the Base Bid, for inclusion in the Contract Sum, the amount of $72,500 for the purchase and installation of the fire alarm system. See drawings for required base bid rough in for this system.

D. Include in Alt #1 Bid, for inclusion in the Contract Sum, the amount of $32,250 for the purchase and installation of the fire alarm system. See drawings for required rough in for this system.

E. Include in Alt #2 Bid, for inclusion in the Contract Sum, the amount of $35,000 for the purchase and installation of the fire alarm system. See drawings for required rough in for this system.

F. Include in Alt #2 Bid, for inclusion in Contract Sum, the amount of $50,000 for the Interior Dimensional Signage in the Gymnasium / Wellness Center Building.

PART 3 – ALTERNATE SUPPLEMENT

3.01 **DESCRIPTION OF ALTERNATES:**

A. *Alternate Number One*: Construction of the food service building including the dining hall, kitchen, lobby and restrooms as shown on the drawings.

B. *Alternate Number Two*: Construction of the gymnasium and wellness building along with the covered connector back to the food service building.

PART 4 – TIME EXTENSIONS FOR SEVERE WEATHER

4.01 **GENERAL:**

This provision specifies the procedure for determination of time extension for unusually severe weather. In order for the Owner and architect to award a time extension under this clause, the following conditions must be satisfied.

1. The weather experienced at the project site during the Agreement period must be found to be unusually severe, that is, more severe than the adverse weather anticipated for the project location during any given month.
2. The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the contractor.

4.02 The contractor's activity duration in the progress schedule must reflect these anticipated adverse weather delays in all-weather dependent activities.

MONTHLY ANTICIPATED ADVERSE WEATHER
DAYS BASED ON FIVE (5) DAY WORK WEEK

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
(6)	(9)	(9)	(9)	(5)	(7)	(7)	(7)	(6)	(4)	(4)	(7)

4.03 Upon receipt of the Notice to Proceed (NTP) and continuing through the Agreement, the Contractor shall record on the daily report, the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on the overall project's critical activities for 50 percent or more of the contractor's schedule work day **and register 0.10 inches of rain or more**. The number of actual adverse weather days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month, and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated above, the Owner and Architect will convert any qualifying delays to calendar days, giving full consideration for equivalent fair weather days and issue a modification in accordance with the Agreement.

4.04 The Contractor must submit each month with his application for payment a separate letter stating that he is requesting an extension of time for abnormally adverse weather or that he has no claim for an extension for that period of time. No payment on a monthly application is due until the letter is received. Complete justification including an analysis verifying that conditions as stated herein above must accompany each request. A Contractor's letter or statement that it was delayed will not be considered as adequate justification. The receipt of this request and documentation by the Architect will not be considered as Owner and Architect approval of a time extension in any way.

***** END OF SECTION *****

SECTION 064120
ARCHITECTURAL WOODWORK

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Architectural woodwork built of medium density fiberboard, including the following:
   1. Custom built cabinets and countertops.
   2. Wall mounted storage with open adjustable shelves.

B. Definition: All references to fiberboard in this section mean medium density fiberboard panels.

1.02 RELATED SECTIONS

A. Section 061000 - Rough Carpentry: Concealed structural framing and wood furring.

B. Section 099000 - Paints and Coatings: Finishing architectural woodwork not specified as factory-finished.

1.03 REFERENCES

A. ALA 1992 - Performance Standard for Thermoset Decorative Panels; American Laminators Association; edition date unknown.

B. ASTM D 1037 - Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials; 1999.

C. AWI P-200 - Architectural Woodwork Quality Standards Illustrated; Architectural Woodwork Institute; 1997, Seventh Edition, Version 1.0.

D. NEMA LD 3 - High Pressure Decorative Laminates; National Electrical Manufacturers Association; 1995.

1.04 SUBMITTALS

A. See Section 013323 - Shop Drawings, Product Data and Samples, for submittals.

B. Product Data: Manufacturer's printed information on each type of architectural woodwork product required.

C. Shop Drawings: Show details, elevations, profiles, finishes, and fasteners for casework and sills.

D. Selection Samples: 4 inch (100 mm) long pieces of vinyl edge banding.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Panel manufacturer must have not less than 2 consecutive years of experience in production of medium density fiberboard panels.

B. Fabricator Qualifications: Fabricator shall be AWI Certified at time of bid with not less than 5 consecutive years of experience in fabrication of casework, paneling, and trim.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver and handle architectural woodwork products to avoid marring finished surfaces.

B. Store architectural woodwork products under cover in conditioned space until completely installed.

1.07 ENVIRONMENTAL REQUIREMENTS

A. Maintain ambient air temperature between 65 and 80 degrees F (18 and 27 degrees C) and relative humidity between 30 and 60 percent for 48 hours prior to and during fabricating, finishing, and installing.

PART 2 PRODUCTS

2.01 HIGH PRESSURE LAMINATE MATERIALS

A. Manufacturers:
   1. Formica Corp: www.formica.com.
   2. Nevamar, International Paper: www.nevamar.com.

3. Wilsonart International, Inc: www.wilsonart.com.

2.02 THERMOSET DECORATIVE OVERLAY MATERIALS (MELAMINE) - CABINET INTERIORS

A. Acceptable Manufacturer: Panolam Industries, thermally fused melamine.

B. Substitutions: See Section 016000 - Product Requirements

2.03 CABINET MATERIALS

A. Medium Density Fiberboard Panels:
   1. Composition: Lignocellulosic fibers and formaldehyde-free synthetic resin.
   2. Density: 44 to 49 lb/cu ft (705 to 785 kg/cu m).
   3. Thickness: 1/4 to 1-1/4 inches (6.4 to 31.8 mm), as indicated on drawings.
   4. Recycled Wood Content: Certified by Scientific Certification Systems to be made of 100 percent recovered and recycled wood fiber.
   5. Moisture-Resistant Panels: Withstanding the Accelerated Aging Tests specified in ASTM D 1037 without adverse effects.
   6. Force to Withdraw Screws at Panel Face: 225 pounds minimum, No.10 sheet metal screw.
   7. Force to Withdraw Screws at Panel Edge: 200 pounds minimum, No.10 sheet metal screw.
   8. Acceptable Substitution: Industrial Grade particleboard core. Must meet or exceed all other performance specifications.
   9. Use same construction for wall panels as indicated in drawings.

B. Prime Painted Panels: Medium density fiberboard of indicated type, shop sanded and primed with primer acceptable to panel manufacturer.

C. High Pressure Laminate Faced Panels: Medium density fiberboard of indicated type with following facings:
   1. High Pressure Laminate: Comply with NEMA LD 3, General Purpose type unless otherwise indicated.
   2. Vertical Surfaces: NEMA LD 3, VGS type, 0.020 nominal thickness.
   3. Backing Sheet: NEMA LD 3, BKL type, 0.020 nominal thickness.
   4. Pattern/Color: As indicated on the drawings.
   5. Panel Edges: Match panel face material.
   6. Acceptable Substitution: Industrial Grade particleboard core. Must meet or exceed all other performance specifications.

D. Thermoset Decorative Overlay Panels (Melamine): Medium density fiberboard of type indicated with low pressure laminate facing and backing complying with the following: (Cabinet interiors as shownon drawings)
   1. Standard: Comply with ALA 1992, ANSI Z124.3, Type 5 or 6.
   2. Pattern and Color: As selected by Architect from manufacturer's full line of colors and patterns.
   3. Panel Edges: 2mm thick impact resistant polyvinyl chloride.
   4. Acceptable Substitution: Industrial Grade particleboard core. Must meet or exceed all other performance specifications.

E. Fasteners:
   1. Panel Z-Clips: As furnished by panel fabricator.
   2. Plated Fasteners: Wood screws, finish nails, bolts and nuts, as recommended by manufacturer of architectural woodwork.

F. Caulk: Acrylic Latex sealant by Pecora, Dow, or G.E. at the following locations:
   1. At backsplash and wall
   2. Between backsplash and countertop.
   3. Around fixtures recessed into countertop.
   4. Base cabinets to wall.
   5. Wall cabinets to wall.

6. Color: Sealant to be color matched to adjacent surface and as selected by Architect from manufacturer's full range of colors.

2.04 FABRICATION

A. Cabinets and Casework: As indicated on drawings, using medium density fiberboard panels unless otherwise indicated, and as follows:
   1. All panels shall be fabricated using balanced construction.
   2. Exterior Surfaces Exposed to View: High pressure laminate faced.
   3. Interior Surfaces: Backing sheet faced.
   4. Concealed Surfaces: Backing sheet faced.
   5. Comply with AWI P-200 Quality Standards Illustrated, Sections 100, 200, and 400.
   6. Grade: Custom.
   7. Top, Bottom, Side, and Interior Panels: 3/4 inch (19 mm) thick, standard panels.
   8. Cabinet Base: 3/4 inch (19 mm) thick moisture-resistant panels.
   9. Shelves:
      a. All shelves shall be 1" thick
      b. Panel Edges: 2mm thick impact resistant polyvinyl chloride.
   10. Upper Cabinet Backs: 1/2 inch (12.7 mm) thick.
   11. Lower Cabinet Backs: 1/4 inch (6.4 mm) thick.
   12. Cabinet Doors: 3/4 inch (19 mm) thick, "flush overlay" construction.
      a. High pressure laminate faced front, back, and edges.
   13. Drawer Fronts: 3/4 inch (19 mm) thick, "flush overlay" construction.
      a. High pressure laminate faced front with backing sheet on reverse side.
      b. High pressure laminate edges.
   14. Drawers: "Metabox" drawer system by Blum.
   15. Drawer Box Substitutions: A shop fabricated drawer box may be allowed. See 016000 Product Requirements for substitution requests.
      a. Full size sample must be provided to architect and owner for review and approval.
      b. All edges to be edge banded.
      c. Dimensions:
         1) Drawer Fronts: 3/4 inch thick, "flush overlay" construction
         2) Drawer Sides: 3/4 inch thick
         3) Drawer Bottom: 1/4 inch thick tempered hardboard let into sides and sub-front of drawer with continuous groove. Finish to match drawer box.
         4) Drawer Back: 3/4" thick.
         5) All connections must be doweled with 5/16" hardwood dowels and fully glued.
   16. Drawer Sub-Front and Back Panels: 3/4 inch (19 mm) thick.
   17. Countertops: 3/4 inch (19 mm) thick; provide moisture-resistant panels for countertops with sinks.
   18. Countertop Front Edges: 1-1/2 inch (38 mm) thick, fabricated in two layers.

2.05 HARDWARE

A. General: Provide cabinet hardware and accessory materials for cabinets and shelving as indicated. Hardware items not shown but required for function indicated shall be furnished in the same finish and quality.
   1. Shelf Supports and Rests: Predrilled holes with self locking bracket support pins.
   2. Drawer and Door Pulls: "U" shaped pull, steel with satin finish, 4 inch (100 mm) centers.
   3. Cabinet Locks: Keyed cylinder, two keys per lock, master keyed, steel with chrome finish.
      a. Catches: Magnetic Type, Stanley 46 (US28), plain finish aluminum.
      b. Provide locks on drawers and doors - upper and lower atlocation shown on drawings.
   4. Drawers: "Metabox" drawer system by Blum. Drawer guides - 50Lb capacity for drawers 6" deep and less - 100 Lb capacity for all drawers over 6" deep.
   5. Concealed Hinges for Overlay Doors: Blum #95M3550.
      a. Substitution: CLIP top 120 degree+ hinges.
   6. Mounting Plates: Blum #95M9100.

7. Sliding Door Track Assemblies: Galvanized steel construction, ball bearing carriers fitted within tracks, multiple pendant suspension attachments for door.
8. Grommets: Provide material and installation for twenty (20) 2 1/2" diameter plastic grommets with cover plates in countertops. Locate as directed by Owner.
9. Counter Top Support: Equal to A&M Hardware Stainless Steel Bracket. www.aandmhardware.com
    a. Brushed stainless steel. 12 gauge 304 stainless.
    b. Size: 15" x 21"
    c. Locations: As indicated on drawings.
10. Trash Chute in Plastic laminate countertops - Equal to Lavel 6 9/16" x 2" Round Stainless Steel - See drawings for locations.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify location of framing and blocking to support wall-mounted cabinets, open shelving, and frames and trim.

B. Verify room dimensions prior to fabrication of architectural woodwork affected by variations in room size.

C. Do not begin work until unsatisfactory conditions have been corrected; starting work constitutes acceptance of existing conditions.

3.02 PREPARATION

A. Cabinets and Casework:
1. Securely anchor required furring and blocking to substrate framing members.
2. Scribe and cut surfaces as required to accommodate adjacent surfaces.
3. Make penetration cutouts as required for services.
4. Install round color matched grommets at exposed cutouts to conceal cut panel edges.

3.03 INSTALLATION

A. Cabinets and Casework:
1. Install plumb, level, true, and straight.
2. Scribe cabinet panels to fit adjacent wall surfaces.
3. Shim as required, using concealed shims.
4. Anchor securely to furring, studs, and blocking, using concealed, countersunk fasteners.
5. Anchor wall-mounted cabinets with concealed fasteners and continuous cleats screwed or nailed to cabinets and studs or solid blocking. Nail not less than 3/4 inch (19 mm) from material edge.

B. Countertops:
1. Anchor countertops to base cabinets with concealed fasteners.
2. Scribe countertop finishes and splashes to fit adjacent wall surfaces.

C. Closet Shelf and Rod Hardware:
1. Screw anchor rod flanges to framing or blocking at each end.
2. Install mid-support bracket at closet rods over 48 inch (1220 mm) long.
3. Anchor fixed shelf over rod at each end and at back wall with continuous cleat.

3.04 ADJUSTING AND CLEANING

A. Repair or replace fabricated fiberboard panels not meeting panel manufacturer's requirements.

B. Touch up woodwork finishes as required to meet AWI tolerances.

C. Clean exposed and semi-exposed architectural woodwork surfaces.

3.05 PROTECTION

A. Implement protective measures as required to prevent damage to architectural woodwork items prior to substantial completion of the work.

B. Apply protective sealant to underside of countertops in all wet locations.

END OF SECTION

SECTION 095100
ACOUSTICAL CEILINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Acoustical Ceiling System Trim Pieces.

B. Acoustical units.

1.02 RELATED REQUIREMENTS

A. Section 072100 - Thermal Insulation: Acoustical insulation.

B. Section 079005 - Joint Sealers: Acoustical sealant.

C. Section 098430 - Sound Absorbing Wall and Ceiling Units - Suspension grid.

1.03 REFERENCE STANDARDS

A. ASTM C635/C635M - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings; 2013a.

B. ASTM C636/C636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels; 2013.

C. ASTM E580/E580M - Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions; 2014.

D. ASTM E1264 - Standard Classification for Acoustical Ceiling Products; 2014.

E. UL (FRD) - Fire Resistance Directory; current edition.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Sequence work to ensure acoustical ceilings are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved.

B. Do not install acoustical units until after interior wet work is dry.

1.05 SUBMITTALS

A. See Section 013323 - Shop Drawings, Product Data and Samples, for submittals.

B. Product Data: Provide data on suspension system components and acoustical units.

C. Samples: Submit two samples 12x12 inch (mm) in size illustrating material and finish of acoustical units.

D. Samples: Submit two samples each, 12 inches (mm) long, of suspension system main runner.

E. Manufacturer's Installation Instructions: Indicate special procedures.

1.06 QUALITY ASSURANCE

A. Fire-Resistive Assemblies: Complete assembly listed and classified by UL (FRD) for the fire resistance indicated.

B. Suspension System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

C. Acoustical Unit Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

1.07 FIELD CONDITIONS

A. Maintain uniform temperature of minimum 60 degrees F (16 degrees C), and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

1.08 PROJECT CONDITIONS

A. Maintain uniform temperature of minimum 60 degrees F, maximum 95 degrees and humidity of 20 to 40 percent prior to, during, and after installation of the work of this section.

B. Sequence work to ensure acoustical ceiling s and wall treatments are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved by the Architect and Engineers.

C. Provide lighting level of 50 footcandles on horizontal plan at face of installed grid during installation using no less than two light sources.

D. Install acoustical units after interior wet work is dry.

1.09 EXTRA MATERIALS

A. See Section 016000 - Product Requirements for additional provisions.

B. Provide not less than four full unopened cartons of each type of acoustical unit for Owner's use in maintenance of project from the same manufacturer's run as installed material. Also provide 50 linear feet of main runners, cross tees, and edge moldings and 100 linear feet of hanger wire for each type installed. Store where directed by the Owner.

PART 2 PRODUCTS

2.01 ACOUSTICAL UNITS

A. Manufacturers:
   1. Armstrong World Industries, Inc: www.armstrong.com.
   2. USG: www.usg.com.
   3. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.

B. Acoustical Units - General: ASTM E1264, Class A.
   1. Units for Installation in Fire-Rated Suspension System: Listed and classified for the fire-resistive assembly as part of suspension system.

C. Acoustical Tile:
   1. Size: 24 x 24 inches
   2. Location: Three Types as indicated in drawings on Finish plans.

D. Acoustical Tile Type 1:: Calla No. 2820, with the following characteristics:
   1. Size: 24 x 24 inches (600 x 600 mm).
   2. Thickness: 1 inches (____ mm).
   3. NRC Range:.85, determined as specified in ASTM E1264.
   4. Ceiling Attenuation Class (CAC): 35, determined in accordance with ASTM E1264.
   5. Edge: square.
   6. Surface Color: White.
   7. Surface Pattern: Smooth.
   8. Suspension System : 15/16" Prelude XL.

E. Acoustical Tile Type 2:: Calla High CAC No. 8805, with the following characteristics:
   1. Size: 24 x 24 inches (600 x 600 mm).
   2. Thickness: 1 inches (____ mm).
   3. Light Reflectance:.85 determined as specified in ASTM E1264.
   4. NRC Range:.80, determined as specified in ASTM E1264.
   5. Ceiling Attenuation Class (CAC): 40, determined in accordance with ASTM E1264.
   6. Edge: square.
   7. Surface Color: White.
   8. Surface Pattern: Smooth.
   9. Suspension System : 15/16" Prelude XL.

F. Acoustical Tile Type 3:: Optima No.3250, with the following characteristics:
   1. Size: 24 x 24 inches.
   2. Thickness: 1 inches (____ mm).
   3. Light Reflectance:.88 determined as specified in ASTM E1264.
   4. NRC Range:.95, determined as specified in ASTM E1264.
   5. Edge: Tegular.
   6. Surface Color: Black.

7. Suspension System : 15/16" Prelude XL.

G. Acoustical Tile Type 4:: Kitchen Zone, with the following characteristics:
   1. Thickness: 5/8 inches (15.9 mm).
   2. Size: 24 x 24 inches.
   3. Edge: Square
   4. Surface Color: White.
   5. Suspension System : 15/16" Prelude XL.

2.02 SUSPENSION SYSTEM(S)

A. Manufacturers:
   1. Armstrong World Industries, Inc: www.armstrong.com.
   2. USG: www.usg.com.
   3. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.

B. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with stabilizer bars, clips, splices, perimeter moldings, and hold down clips as required.

C. Exposed Suspension System: Hot-dip galvanized steel grid with aluminum cap.
   1. Structural Classification: Intermediate-duty, when tested in accordance with ASTM C635/C635M.
   2. Profile: Tee; 15/16 inch (24 mm) face width.
   3. Finish: Baked enamel.
   4. Products:
      a. Armstrong World Industries, Inc; Prelude XL: www.armstrongceilings.com/#sle.
      b. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.

D. Exposed Steel Suspension System: Formed steel, commercial quality cold rolled; heavy-duty.
   1. Profile: Tee; 15/16 inch (24 mm) wide face.
   2. Construction: Double web.
   3. Finish: As shown on the drawings.

2.03 ACCESSORIES

A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.

B. Perimeter Moldings: Same material and finish as grid.
   1. Perimeter Extruded Aluminum Trim for ACT furr downs and suspended ceilings equal to Armstrong Axion Classic Trim - 10" height and 5 13/16" heights required as shown on drawings.
   2. At Exposed Grid: Provide L-shaped molding for mounting at same elevation as face of grid.

C. Touch-up Paint: Type and color to match acoustical and grid units.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that layout of hangers will not interfere with other work.

3.02 INSTALLATION - SUSPENSION SYSTEM

A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section.

B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:240.

C. Locate system on room axis according to reflected plan.

D. Install after major above-ceiling work is complete. Coordinate the location of hangers with other work.

E. Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.

F. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.

G. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.

H. Support fixture loads using supplementary hangers located within 6 inches (150 mm) of each corner, or support components independently.

I. Do not eccentrically load system or induce rotation of runners.

J. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
   1. Use longest practical lengths.
   2. Overlap and rivet corners.

3.03 INSTALLATION - ACOUSTICAL UNITS

A. Install acoustical units in accordance with manufacturer's instructions.

B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.

C. Fit border trim neatly against abutting surfaces.

D. Install units after above-ceiling work is complete.

E. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.

F. Cutting Acoustical Units:
   1. Make field cut edges of same profile as factory edges. Where cut edges of acoustical tile are exposed to view, touch up with paint to match tile.

G. Where round obstructions occur, provide preformed closures to match perimeter molding.

H. Install hold-down clips on each panel to retain panels tight to grid system; comply with fire rating requirements.

I. Install hold-down clips on panels within 20 ft (6 m) of an exterior door.

3.04 TOLERANCES

A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet (3 mm in 3 m).

B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2 degrees.

3.05 SCHEDULE

A. As indicated on drawings and schedules.

END OF SECTION

SECTION 096566

RESILIENT ATHLETIC FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Vulcanized Rubber sheet flooring, adhesively installed.

1.02 RELATED REQUIREMENTS

A. Section 033000 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors to receive adhesive-applied flooring.

1.03 REFERENCE STANDARDS

A. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers--Tension; 2006a (Reapproved 2013).

B. ASTM D2240 - Standard Test Method for Rubber Property--Durometer Hardness; 2005 (Reapproved 2010).

C. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2014c.

D. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.

1.04 SUBMITTALS

A. See Section 013323 - Shop Drawings, Product Data and Samples, for submittals.

B. Product Data: Manufacturer's printed data sheets for products specified.

C. Shop Drawings: Fabrication and installation details, and layout, colors, and widths of game lines and equipment locations.

D. Selection Samples: Manufacturer's color charts for flooring materials specified, indicating full range of colors and textures available.

E. Verification Samples: Actual flooring material specified, not less than 12 inch (305 mm) square, mounted on solid backing.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least three years of documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

C. Installer Qualifications: An experienced installer certified in writing by the flooring manufacturer to be qualified for installation of specified flooring system.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to project site in unopened containers clearly labeled with manufacturer's name and identification of contents.

B. Store materials in dry and clean location until needed for installation. During installation, handle in a manner that will prevent marring and soiling of finished surfaces.

1.07 FIELD CONDITIONS

A. Maintain temperature in spaces to receive adhesively installed resilient flooring within range of 70 to 95 degrees F (21 to 35 degrees C) for not less than 48 hours before the beginning of installation and for not less than 48 hours after installation has been completed. Subsequently, do not allow temperature in installed spaces to drop below 50 degrees F (10 degrees C) or to go above 100 degrees F (38 degrees C).

PART 2 PRODUCTS

2.01 PREFORMED ATHLETIC FLOORING

A. Manufacturers: All products by the same manufacturer.
   1. Mondo America, Inc; Sport Impact 10MM: www.mondoworldwide.com/#sle.
   2. ECORE; www.ecoreathletic.com - ComPact- Fleck OSST flooring.
   3. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.

B. Rubber Sheet Flooring: Two-layer vulcanized rubber. prefabricated resilient athletic flooring, calendered and vulcanized, with a base of natural and synthetic rubbers, stabilizing agenst and pigmentation.
   1. Thickness: Minimum 3/8 inch (10 mm), nominal.
   2. Sheet Width: Minimum 48 inches (1220 mm).
   3. Durometer Hardness, Wear Layer, Type A: Minimum of 80, when tested in accordance with ASTM D2240.
   4. Durometer Hardness, Bottom Layer, Type A: Minimum of 70, when tested in accordance with ASTM D2240.
   5. Surface Texture: Sealskin.
   6. Color: As indicated on drawings. 3 colors required.

2.02 ACCESSORIES

A. Leveling Compound: Latex-modified cement formulation as recommended by flooring manufacturer for substrate conditions.

B. Flooring Adhesive: Waterproof; types recommended by flooring manufacturer.

C. Rubber reducer strips at doorway transitions from rubber athletic flooring products to other specified flooring - coordinate with finish drawings.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates for conditions detrimental to installation of athletic flooring. Proceed with installation only after unsatisfactory conditions have been corrected.

B. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of athletic flooring to substrate.

C. Cementitious Subfloor Surfaces: Verify that substrates are ready for resilient flooring installation by testing for moisture and alkalinity (pH).
   1. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.

3.02 PREPARATION

A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

B. Concrete: Use leveling compound as necessary to achieve substrate flatness of plus or minus 1/8 inch within 10 ft radius (1/1000).

C. Remove coatings that are incompatible with flooring adhesives, using methods recommended by flooring manufacturer.

D. Broom clean areas to receive athletic flooring immediately before beginning installation.

3.03 INSTALLATION

A. Starting installation constitutes acceptance of subfloor conditions.

B. Install in accordance with manufacturer's written instructions.

C. Resilient Sheet Flooring:
   1. Unroll flooring and allow to relax before beginning installation.

2. Mix adhesive thoroughly and apply to substrate with notched trowel. Roll flooring into fresh adhesive, overlapping end seams and double cutting, butting factory edges and compression fitting.
3. Roll entire flooring surface with steel roller to assure adhesion to substrate and eliminate air bubbles.
4. Immediately remove any adhesive from flooring surface, using chemical recommended by flooring manufacturer.
5. Weld seams using techniques and equipment recommended by manufacturer.
6. Lay out game lines using tape and taping machine approved by flooring manufacturer. Apply game line paint with roller, and allow to dry before removing tape.
7. Apply transparent top coat over flooring if recommended by manufacturer, to achieve a uniform finished appearance.

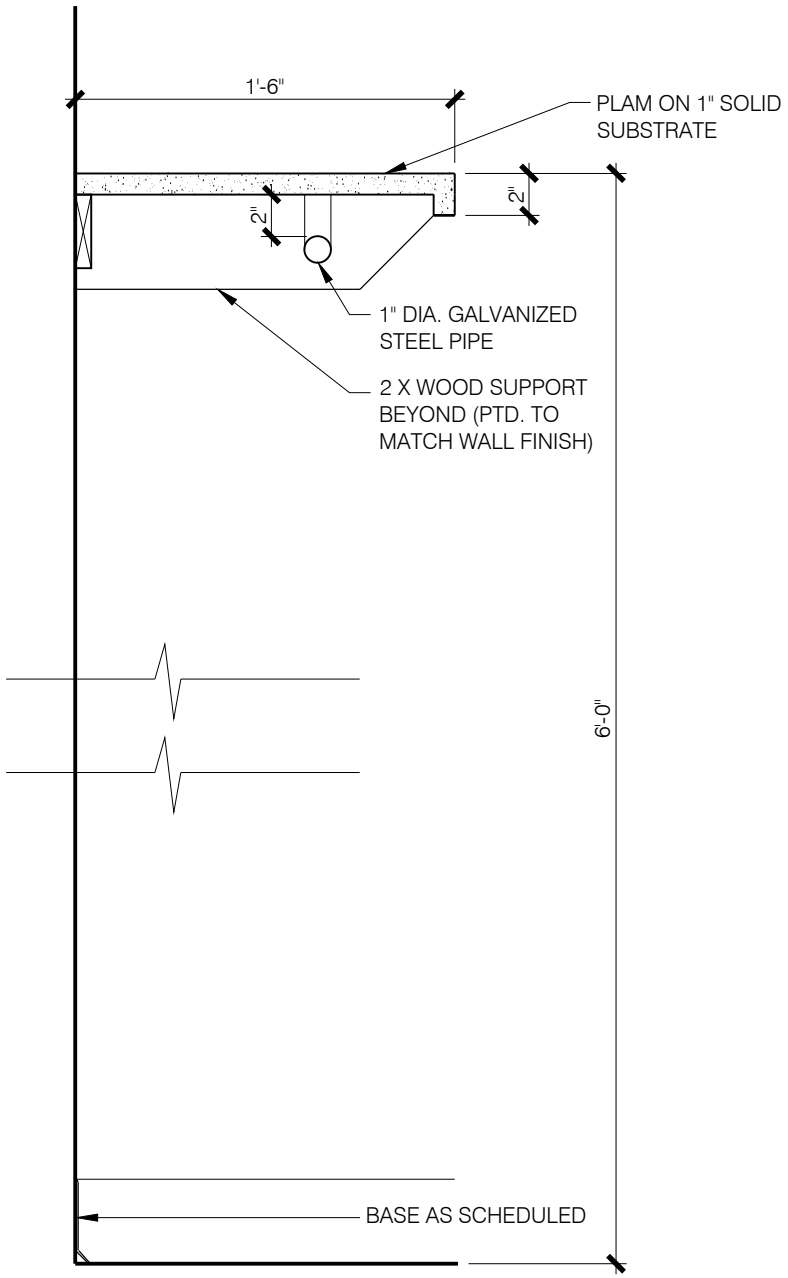
3.04 CLEANING

A. Clean flooring using methods recommended by manufacturer.

3.05 PROTECTION

A. Protect finished athletic flooring from construction traffic to ensure that it is without damage upon Date of Substantial Completion.

END OF SECTION



10 / A509 CLOSET ROD/SHELF

SCALE: 1 1/2"=1'-0"

DEAN ARCHITECTURE
GEDDIE | GRANT | OUBRE

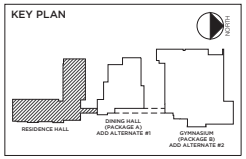
SUPPLEMENTAL DRAWING

Project Name: THE COMMONS - PKG A (RANKIN CAMPUS)
HINDS COMMUNITY COLLEGE
Project No.: 24053
Date: OCTOBER 7, 2025

Dwg. No.:

SD-1/
A509

KEY PLAN

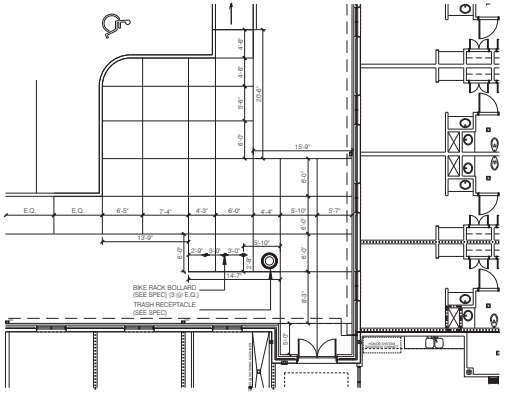


KEY LEGEND

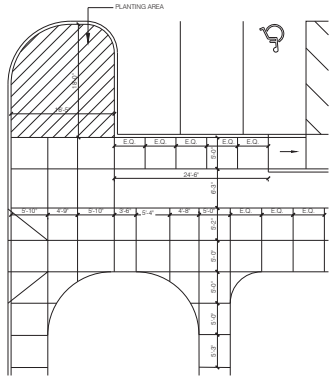
SYMBOL	DESCRIPTION
	LIGHT BROOM FINISH - STAINED TO MATCH PAVERS
	12" x 24" x 2" CONCRETE PAVERS - SET OVER 4" CONCRETE SIDEWALK; PAVER EQUAL TO HANOVER PREST PAVER, COLOR: CHARCOAL
	PLANTING AREA - SEE ALLOWANCE INCLUDED IN BASE BID

NOTES:

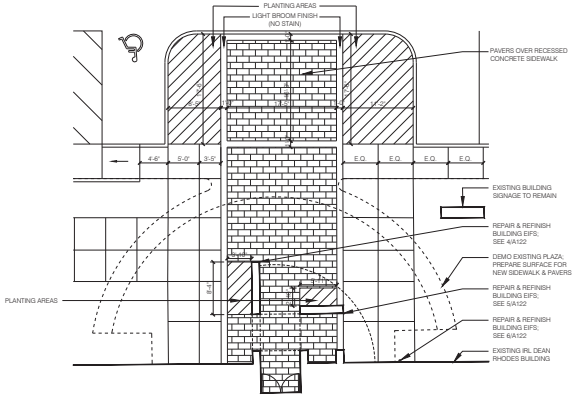
1. ALL EXTERIOR PAVEMENT TO BE BROOM FINISH CONCRETE UNLESS OTHERWISE NOTED.



1 A122 ENLARGED SITE PLAN
SCALE: 1/8"=1'-0"



2 A122 ENLARGED SITE PLAN
SCALE: 1/8"=1'-0"



3 A122 ENLARGED SITE PLAN
SCALE: 1/8"=1'-0"

DEMO / PATCH EXISTING BUILDING SURFACE FOR REPAIR TO EIFS; TYP.; ENTIRE EIFS BASE ELEMENT TO BE REPAINTED. COLOR TBD.

4 A122 PHOTO
N.T.S.

5 A122 PHOTO
N.T.S.

ENTIRE EIFS BASE ELEMENT TO BE REPAINTED FROM FRONT DOOR TO DOWNSPOUT. COLOR TBD.

6 A122 PHOTO
N.T.S.

DEAN ARCHITECTURE
DESIGN | GRANT | GUIDE
[redacted]
Kenneth Allen Oubre 3850 JACKSON, MS
10/9/2025

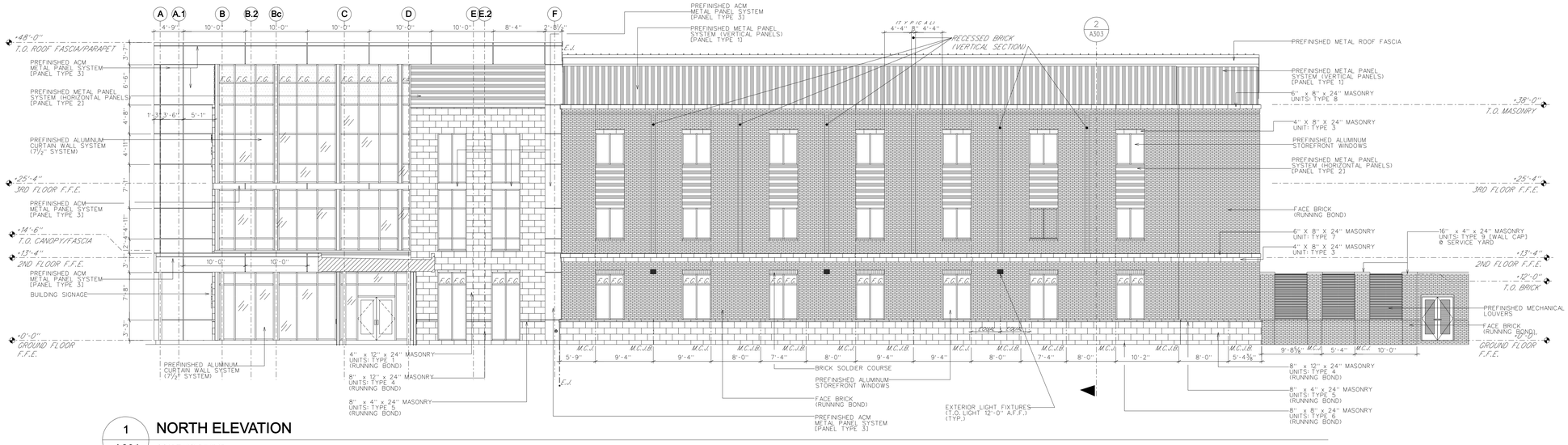
CONSTRUCTION DOCUMENTS

Project No.: 24053
Date: SEPTEMBER 18, 2025
Drawn: FBH, MWS, NAM, ALH
Checked: KAO
Revisions: 1 OCTOBER 09, 2025 - ADDENDUM #2

THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

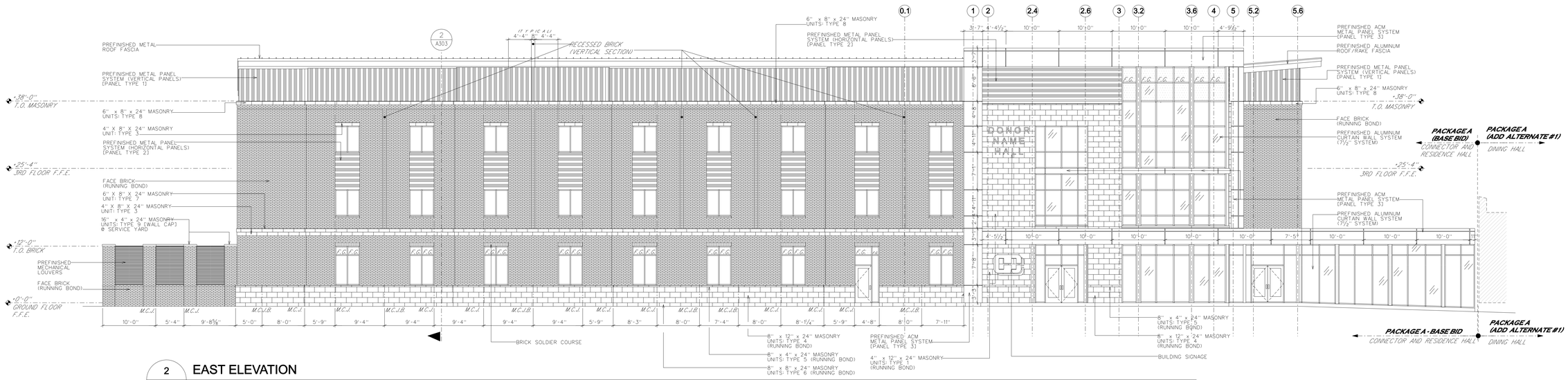
Sheet Number: 1
A122
ENLARGED SITE PAVING PLAN

THIS DRAWING - PACKAGE A
IS NOT TO BE USED FOR
BIDDING OR
CONSTRUCTION



1 A201 **NORTH ELEVATION**

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



2 A201 **EAST ELEVATION**

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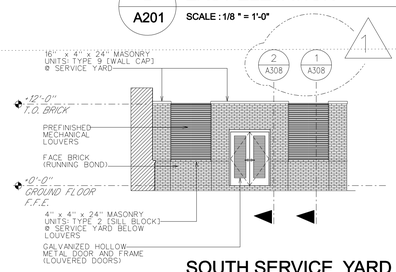
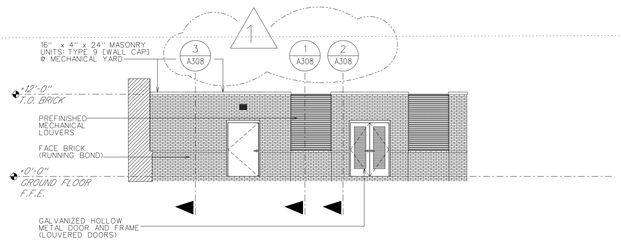


3 A201 **SOUTH SERVICE YARD EX01 WEST ELEVATION**

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



5 A201 **WEST SERVICE YARD EX03 NORTH ELEVATION**

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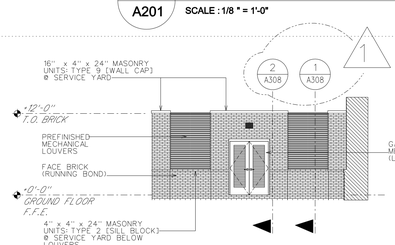

4 A201 **SOUTH SERVICE YARD EX02 EAST ELEVATION**

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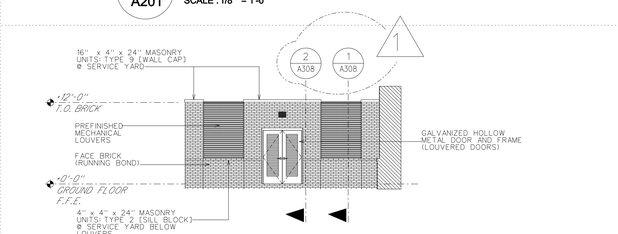


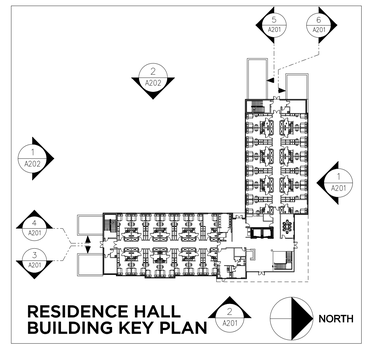
6 A201 **WEST SERVICE YARD EX04 SOUTH ELEVATION**

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

G.C. TO COORDINATE ALL BUILDING SIGNAGE WITH OWNER FOR BLOCKING LOCATIONS AND ELECTRICAL/ ILLUMINATION REQUIREMENTS.

EXTERIOR WALL LEGEND/SYMBOLS

- M.C.J. = ⅜" MASONRY CONTROL JOINT
- M.C.J.B. = ⅜" MASONRY CONTROL JOINT @ STONE MASONRY BASE ONLY
- E.J. = 1" BUILDING EXPANSION JOINT
- F.G. = GLASS TYPE 2 (FROSTED GLASS)



RESIDENCE HALL BUILDING KEY PLAN

DEAN ARCHITECTURE
GEDDIE | GRANT | OUBRE
661 Sunnybrook, Ste 140
Ridgeland, MS 39157
601.939.7717
deandean.com

REGISTERED ARCHITECT Kenneth Allen Oubre 3850 JACKSON, MS STATE OF MISSISSIPPI

10/9/2025

CONSTRUCTION DOCUMENTS

Project No. : 24053
Date: SEPTEMBER 18, 2025
Drawn: FBH, JMD, NAM
Checked: KAO
Revisions: 1 OCTOBER 10, 2025 (ADDENDUM 2)

THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

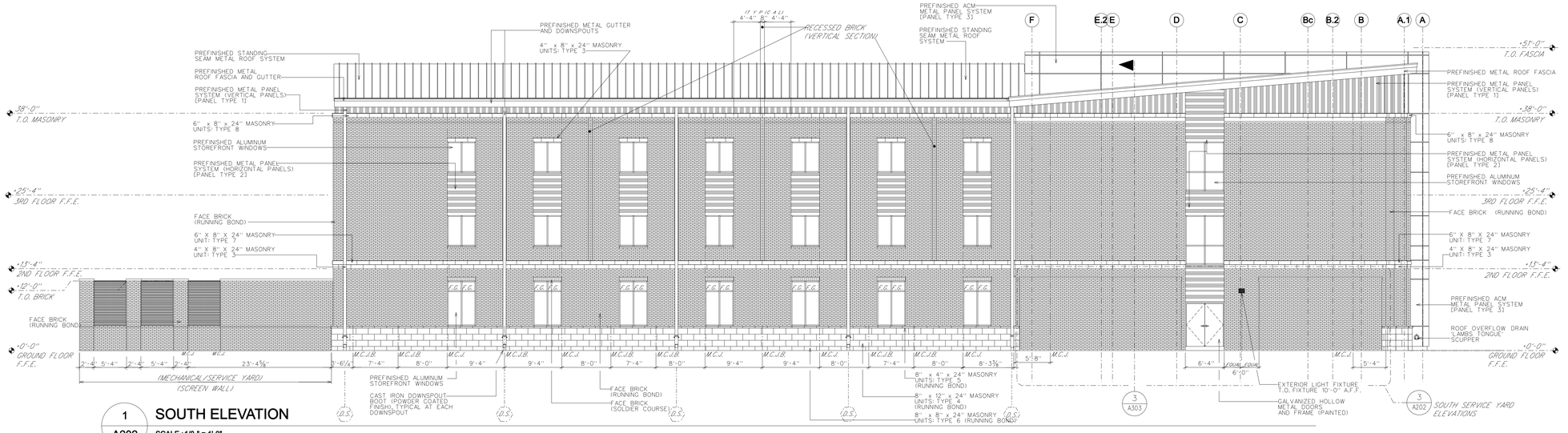
Sheet Number:

A201

RESIDENCE HALL EXTERIOR ELEVATIONS

THE COMMONS - PACKAGE A
HINDS COMMUNITY COLLEGE
PEARL, MS
DEAN ARCHITECTURE
PEARL, MS 39208

3" =1'-0" GRAPHIC SCALE
1½" =1'-0" GRAPHIC SCALE
1" =1'-0" GRAPHIC SCALE
¾" =1'-0" GRAPHIC SCALE
½" =1'-0" GRAPHIC SCALE
¼" =1'-0" GRAPHIC SCALE
⅛" =1'-0" GRAPHIC SCALE



1 / A202 **SOUTH ELEVATION**

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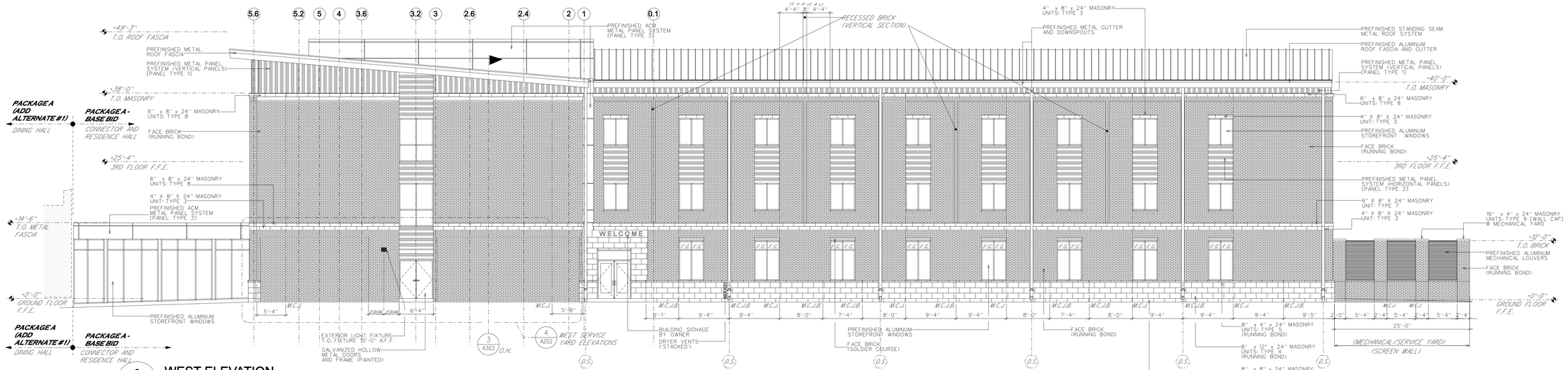

2 / A202 **WEST ELEVATION**

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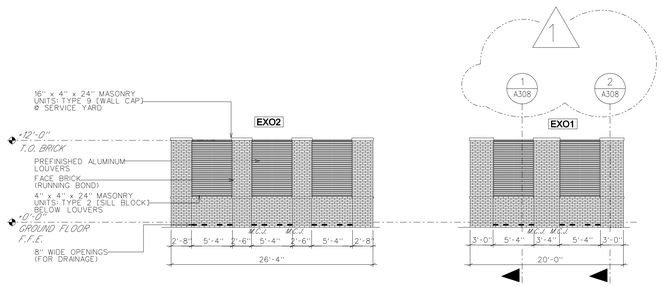
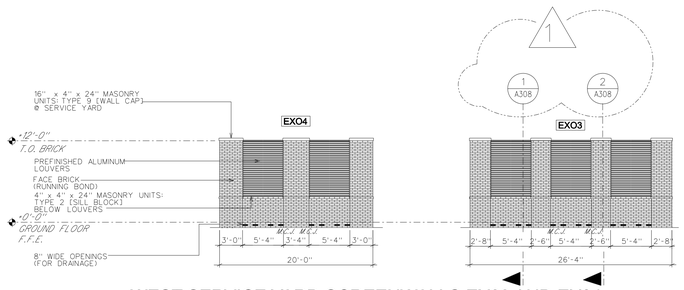


3 / A202 **SOUTH SERVICE YARD SCREENWALLS EX01 AND EX02 SOUTH ELEVATIONS**

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



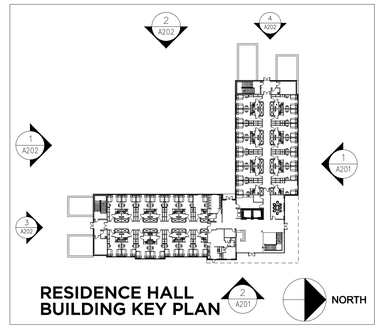
4 / A202 **WEST SERVICE YARD SCREENWALLS EX03 AND EX04 WEST ELEVATIONS**

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

G.C. TO COORDINATE ALL BUILDING SIGNAGE WITH OWNER FOR BLOCKING LOCATIONS AND ELECTRICAL/ ILLUMINATION REQUIREMENTS.

EXTERIOR WALL LEGEND/SYMBOLS

- M.C.J. = 3/8" MASONRY CONTROL JOINT
- M.C.J.B. = 3/8" MASONRY CONTROL JOINT @ STONE MASONRY BASE ONLY
- E.J. = 1" BUILDING EXPANSION JOINT
- F.G. = GLASS TYPE 2 (FROSTED GLASS)
- D.S. = METAL DOWNSPOUT AND CAST IRON DOWNSPOUT BOOT



RESIDENCE HALL BUILDING KEY PLAN

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REGISTERED ARCHITECT K. Alan Oubre 3850 STATE OF MISSISSIPPI JACKSON, MS

10/9/2025

CONSTRUCTION DOCUMENTS

Project No. : 24053
Date: SEPTEMBER 18, 2025
Drawn: FBH, JMD, NAM
Checked: KAO
Revisions: 1 OCTOBER 10, 2025 (ADDENDUM 2)

THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:

A202

RESIDENCE HALL EXTERIOR ELEVATIONS

3" =1'-0" GRAPHIC SCALE
1½" =1'-0" GRAPHIC SCALE
1" =1'-0" GRAPHIC SCALE
¾" =1'-0" GRAPHIC SCALE
½" =1'-0" GRAPHIC SCALE
¼" =1'-0" GRAPHIC SCALE
⅛" =1'-0" GRAPHIC SCALE

THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
PEARL, MS
DEAN ARCHITECTURE PN 24053

ACCESSORY LEGEND

SYMBOL	DESCRIPTION
A1	42" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS (CFCI)
A2	36" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS (CFCI)
A3	18" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS (CFCI)
A4 A5	A4-24"/A5-60" GRAB BARS FOR SHOWER- INSTALL TO MEET ADA REQUIREMENTS (CFCI)
B	TOILET TISSUE DISPENSER (OFCI)
C	SOAP DISPENSER (OFCI)
D	PAPER TOWEL DISPENSER (OFCI)
E	ROBE HOOK - ALL TOILETS: BOBRICK B-76717 (CFCI)
F	FRAMED MIRROR (24"X48"): BOBRICK B-290 (CFCI)
G	BABY CHANGING STATION (CFCI) KB 310 - SSWM
H	FRAMED MIRROR (24"X72") (CFCI)
J	MOP AND BROOM HOLDER (CFCI) - ALL EVS CLOSETS
K	TOWEL BARS (CFCI) - BRADLEY MODEL 9065, SATIN 18", 24", 30" - IN ALL DORM ROOM RESTROOMS - AS NOTED

NOTE:

(CFCI)-CONTRACTOR FURNISHED / CONTRACTOR INSTALLED

(OFCI)-OWNER FURNISHED / CONTRACTOR INSTALLED

ALL WALL MOUNTED ACCESSORIES AND/OR EQUIPMENT (CONTRACTOR OR OWNER PROVIDED) TO RECEIVE WOOD BLOCKING WITHIN WALL.

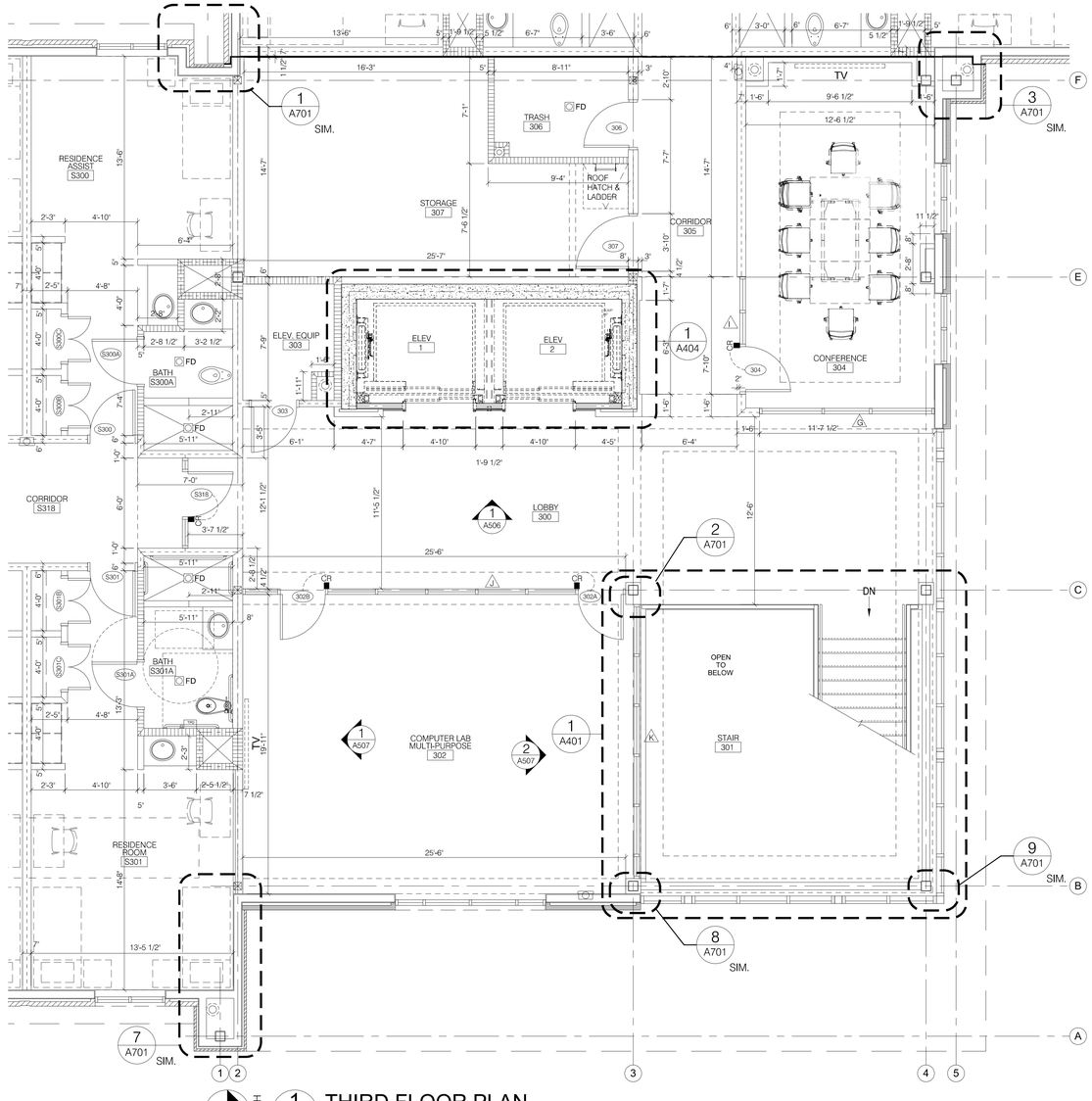
LIFE SAFETY / WALL LEGEND

SYMBOL	DESCRIPTION
	2-HOUR FIRE WALL: U.L. DES. NO. U419 3 5/8" MTL. STUDS @ 16" O.C. W/ (2) LAYERS 5/8" TYPE "X" GYP. BD. EACH SIDE, EXTEND WALL TO DECK WITH 3" SOUND ATTENUATION BATTS TO DECK.
	1-HOUR FIRE WALL 12" CONCRETE WALL. POURED-IN-PLACE.
	1-HOUR FIRE WALL 7 5/8" CMU
	1-HOUR FIRE SHAFT WALL: U.L. DES. NO. U438 6" MTL. C-H STUDS @ 24" O.C. W/ 1" WALLBOARD LINER PANEL (MR) INSERTED INTO "H" SECTION OF C-H STUD WITH (2) LAYERS 1/2" TYPE "X" GYP. BD. ON OPPOSITE SIDE, EXTEND WALL TO DECK WITH 5 1/2" SOUND ATTENUATION BATTS TO DECK.
	1-HOUR FIRE WALL: U.L. DES. NO. U419 3 5/8" MTL. STUDS @ 16" O.C. W/ 1 LAYER 5/8" TYPE "X" GYPSUM BOARD EACH SIDE. EXTEND WALL TO 1 HR FIRE-RATED CEILING ASSEMBLY WITH 3" SOUND ATTENUATION BATTS. NOTE: IN ROOMS WITHOUT FIRE-RATED CEILING, EXTEND WALL TO DECK WITH 3" SOUND ATTENUATION BATTS TO DECK.
	30-MIN FIRE WALL: [LOAD-BEARING] [SOUND-INSULATED] 6" MTL. STRUCTURAL STUDS @ 16" O.C. W/ 1 LAYER 5/8" TYPE "X" GYP. BD. EACH SIDE, EXTEND WALL TO DECK WITH 5 1/2" SOUND ATTENUATION BATTS TO DECK. SEAL PERIMETER. ELEC. BOXES, PENETRATIONS, ETC. WITH 1/4" (MIN) ROUND BEAD OF ACOUSTICAL SEALANT (REF: USG PRODUCT SUBMITTAL SHEET J678).
	NON-RATED 5" NOMINAL WALL (4 7/8" ACTUAL) [SOUND-INSULATED] 3 5/8" MTL. STUDS @ 16" O.C. W/ 1 LAYER 5/8" GYP. BD. EACH SIDE. EXTEND WALL TO DECK WITH 3" SOUND ATTENUATION BATTS TO DECK. SEAL PERIMETER. ELEC. BOXES. PENETRATIONS, ETC. WITH 1/4" (MIN) ROUND BEAD OF ACOUSTICAL SEALANT (REF: USG PRODUCT SUBMITTAL SHEET J678).
	NON-RATED 5" NOMINAL WALL (4 7/8" ACTUAL) 3 5/8" MTL. STUDS @ 16" O.C. W/ 1 LAYER 5/8" GYP. BD. EACH SIDE, EXTEND WALL TO 12" ABOVE CEILING.
NOTE:	BUILD ALL RATED WALLS IN STRICT ACCORDANCE WITH UL DESIGN. MAJORITY OF ROOMS HAVE 5" NOMINAL WALLS. HOWEVER REFER TO PLAN SHEETS FOR WALLS REQUIRED TO BE 6", 7", OR 8" NOMINAL. ALL WALLS TO BE 5/8" ABUSE RESISTANT GYP. BD.: FULL HEIGHT IN RESIDENCE HALL & UP TO 8'-0" IN DINING HALL & GYMNASIUM.
F.E.C.	F.E.C. SEMI-RECESSED / F.E.C. EXT. SURF. MOUNTED / F.E. WALL MOUNTED — FIRE EXTINGUISHER CABINETS MUST BE LOCATED SO TRAVEL DISTANCE TO EXTINGUISHER IS LESS THAN 75 FEET (EXT. CABINET TO BE STAINLESS STL)

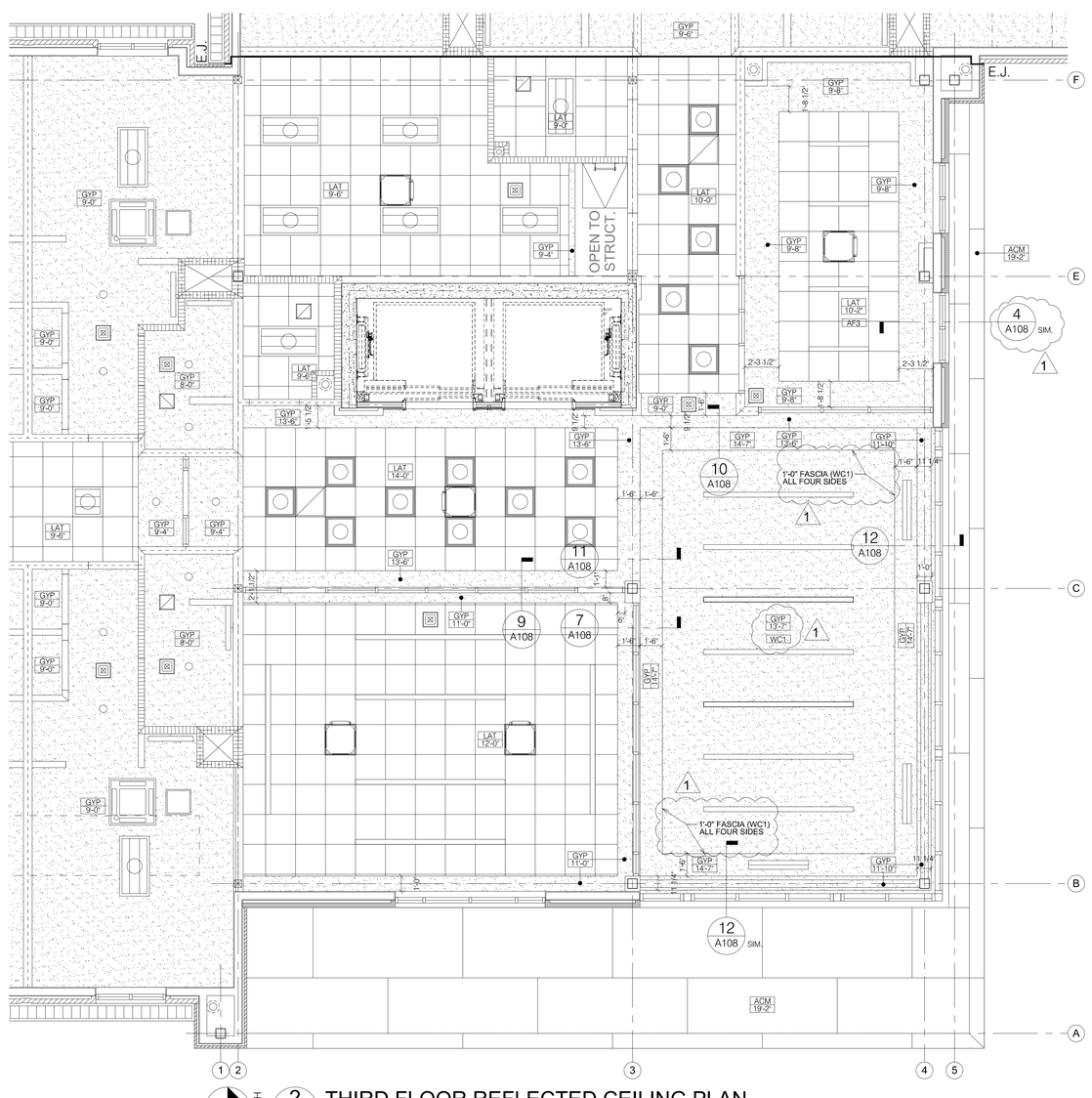
CEILING LEGEND

ALL CEILINGS TO BE 9'-0" A.F.F. UNLESS NOTED OTHERWISE

SYMBOL	DESCRIPTION
	L.A.T. CEILING ASSEMBLY (LAT) 24" X 24" ACOUSTICAL CEILING TILE CEILING AT 9'-0" A.F.F. UNLESS NOTED OTHERWISE. COORDINATE W/ FINISH PLANS.
	GYPSUM BOARD CEILING ASSEMBLY (GWB) SUSPENDED GYPSUM BOARD CEILING
	METAL CEILING PANEL (MCP) FORMED METAL MODULAR CEILING PANELS
	ACOUSTIC BAFFLE SYSTEM (A. BAF) SUSPENDED ACOUSTIC BAFFLE CEILING SYSTEM
	ALUMINUM COMPOSITE MATERIALS PANEL (ACM) PREMANUFACTURED, PREFINISHED METAL PANEL
	PREFINISHED METAL SOFFIT PANEL (MSP) 7" PREMANUFACTURED, PREFINISHED METAL PANEL; HATCHED PANELS INDICATE VENTED SOFFIT PANELS
	ACOUSTICAL PANELS 9' X 4' PANEL
	ACOUSTICAL PANELS ACOUSTICAL DISC TILE (ADT)
	LED LIGHT FIXTURE IN L.A.T. CEILING 24" X 24" FIXTURE
	LED LIGHT FIXTURE IN L.A.T. CEILING 24" X 24" FIXTURE WITH PERIMETER LIGHT
	LED LIGHT FIXTURE IN L.A.T. CEILING 24" X 48" FIXTURE
	LED LIGHT FIXTURES LINEAR LED;SEE RCP FOR SIZE AND LOCATION RECESSED LED CAN LIGHT SUSPENDED LED WALL-MOUNTED LED
	MECHANICAL GRILLE LINEAR SLOT DIFFUSER DIFFUSER
	MECHANICAL GRILLE RETURN
OTS	ALL EXPOSED STRUCTURE AND METAL DECK IN THESE AREAS TO BE PAINTED. (SEE FINISH SCHEDULE)



1 A503 NORTH — **1 THIRD FLOOR PLAN**
SCALE: 1/4"=1'-0"



2 A503 NORTH — **2 THIRD FLOOR REFLECTED CEILING PLAN**
SCALE: 1/4"=1'-0"

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REGISTERED ARCHITECT Kenneth Allen Oubre 3850 JACKSON, MS STATE OF MISSISSIPPI
10/9/2025
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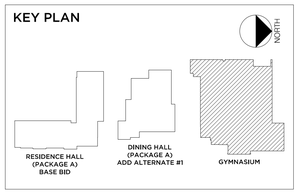
THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
A503
RESIDENCE HALL ENLARGED THIRD FLOOR PLAN & RCP

THE COMMONS - PACKAGE A
PEARL, MS
24053

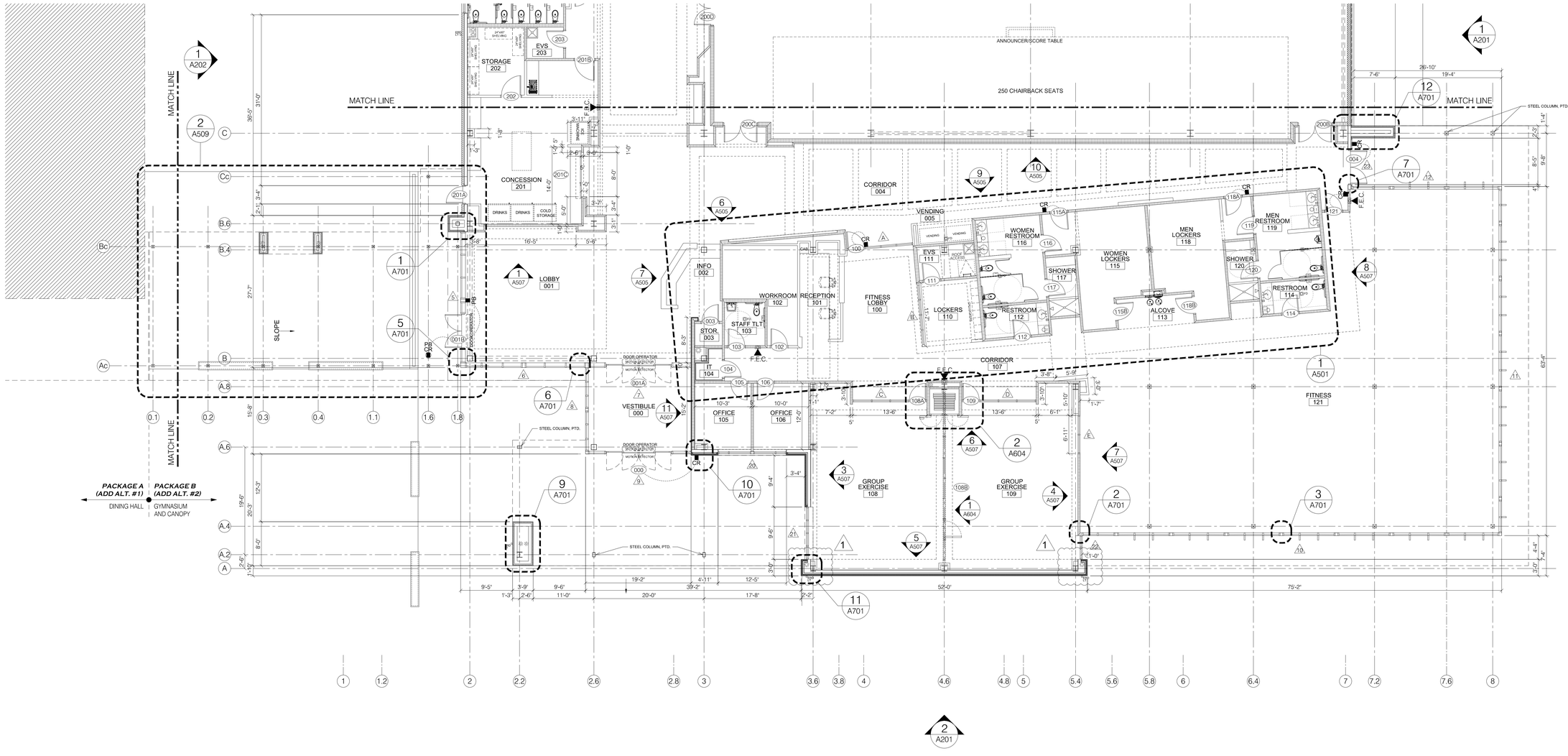
1" =1'-0" GRAPHIC SCALE
3/4" =1'-0" GRAPHIC SCALE
3/8" =1'-0" GRAPHIC SCALE
1/2" =1'-0" GRAPHIC SCALE
1/4" =1'-0" GRAPHIC SCALE
1 1/2" =1'-0" GRAPHIC SCALE
3" =1'-0" GRAPHIC SCALE

KEY PLAN



LIFE SAFETY / WALL LEGEND

SYMBOL	DESCRIPTION
	2-HOUR FIRE WALL: U.L. DES. NO. U419 3 5/8" MTL. STUDS @ 16" O.C. W/ (2) LAYERS 5/8" TYPE 'X' GYP. BD. EACH SIDE, EXTEND WALL TO DECK WITH 3" SOUND ATTENUATION BATTS TO DECK.
	1-HOUR FIRE WALL 12" CONCRETE WALL, POURED-IN-PLACE.
	1-HOUR FIRE WALL 7 5/8" CMU
	1-HOUR FIRE SHAFT WALL: U.L. DES. NO. U438 6" MTL. C-H STUDS @ 24" O.C. W/ 1" WALLBOARD LINER PANEL (MR) INSERTED INTO 'H' SECTION OF C-H STUD WITH (2) LAYERS 1/2" TYPE 'X' GYP. BD. ON OPPOSITE SIDE, EXTEND WALL TO DECK WITH 5 1/2" SOUND ATTENUATION BATTS TO DECK.
	1-HOUR FIRE WALL: U.L. DES. NO. U419 3 5/8" MTL. STUDS @ 16" O.C. W/ 1 LAYER 5/8" TYPE 'X' GYPSUM BOARD EACH SIDE, EXTEND WALL TO 1 HR FIRE-RATED CEILING ASSEMBLY WITH 3" SOUND ATTENUATION BATTS. NOTE: IN ROOMS WITHOUT FIRE-RATED CEILING, EXTEND WALL TO DECK WITH 3" SOUND ATTENUATION BATTS TO DECK.
	30-MIN FIRE WALL: [LOAD-BEARING] [SOUND-INSULATED] 6" MTL. STRUCTURAL STUDS @ 16" O.C. W/ 1 LAYER 5/8" TYPE 'X' GYP. BD. EACH SIDE, EXTEND WALL TO DECK WITH 5 1/2" SOUND ATTENUATION BATTS TO DECK, SEAL PERIMETER, ELEC. BOXES, PENETRATIONS, ETC. WITH 1/4" (MIN) ROUND BEAD OF ACOUSTICAL SEALANT (REF: USG PRODUCT SUBMITTAL SHEET J678).
	NON-RATED 5" NOMINAL WALL (4 7/8" ACTUAL) [SOUND-INSULATED] 3 5/8" MTL. STUDS @ 16" O.C. W/ 1 LAYER 5/8" GYP. BD. EACH SIDE. EXTEND WALL TO DECK WITH 3" SOUND ATTENUATION BATTS TO DECK. SEAL PERIMETER, ELEC. BOXES, PENETRATIONS, ETC. WITH 1/4" (MIN) ROUND BEAD OF ACOUSTICAL SEALANT (REF: USG PRODUCT SUBMITTAL SHEET J678).
	NON-RATED 5" NOMINAL WALL (4 7/8" ACTUAL) 3 5/8" MTL. STUDS @ 16" O.C. W/ 1 LAYER 5/8" GYP. BD. EACH SIDE. EXTEND WALL TO 12" ABOVE CEILING.
NOTE:	BUILD ALL RATED WALLS IN STRICT ACCORDANCE WITH UL DESIGN. MAJORITY OF ROOMS HAVE 5" NOMINAL WALLS. HOWEVER REFER TO PLAN SHEETS FOR WALLS REQUIRED TO BE 6", 7", OR 8" NOMINAL. ALL WALLS TO BE 5/8" ABUSE RESISTANT GYP. BD.. FULL HEIGHT IN RESIDENCE HALL & UP TO 8'-0" IN DINING HALL & GYMNASIUM.
F.E.C.	F.E.C., SEMI-RECESSED | F.E.C., EXT. SURF. MOUNTED | F.E., WALL MOUNTED | FIRE EXTINGUISHER CABINETS MUST BE LOCATED SO TRAVEL DISTANCE TO EXTINGUISHER IS LESS THAN 75 FEET (EXT. CABINET TO BE STAINLESS STL)



1 A101a — FLOOR PLAN - PART "A"
SCALE: 1/8"=1'-0"

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REGISTERED ARCHITECT — Kenneth Allen Oubre — 3850 — JACKSON, MS — STATE OF MISSISSIPPI
10/9/2025

CONSTRUCTION DOCUMENTS

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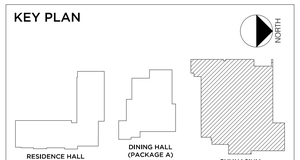
THE COMMONS - PACKAGE B (ADD ALTERNATE #2)
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
A101a
GYMNASIUM FLOOR PLAN - PART "A"

THE COMMONS - PACKAGE B
PEARL, MS
24053

KEY PLAN



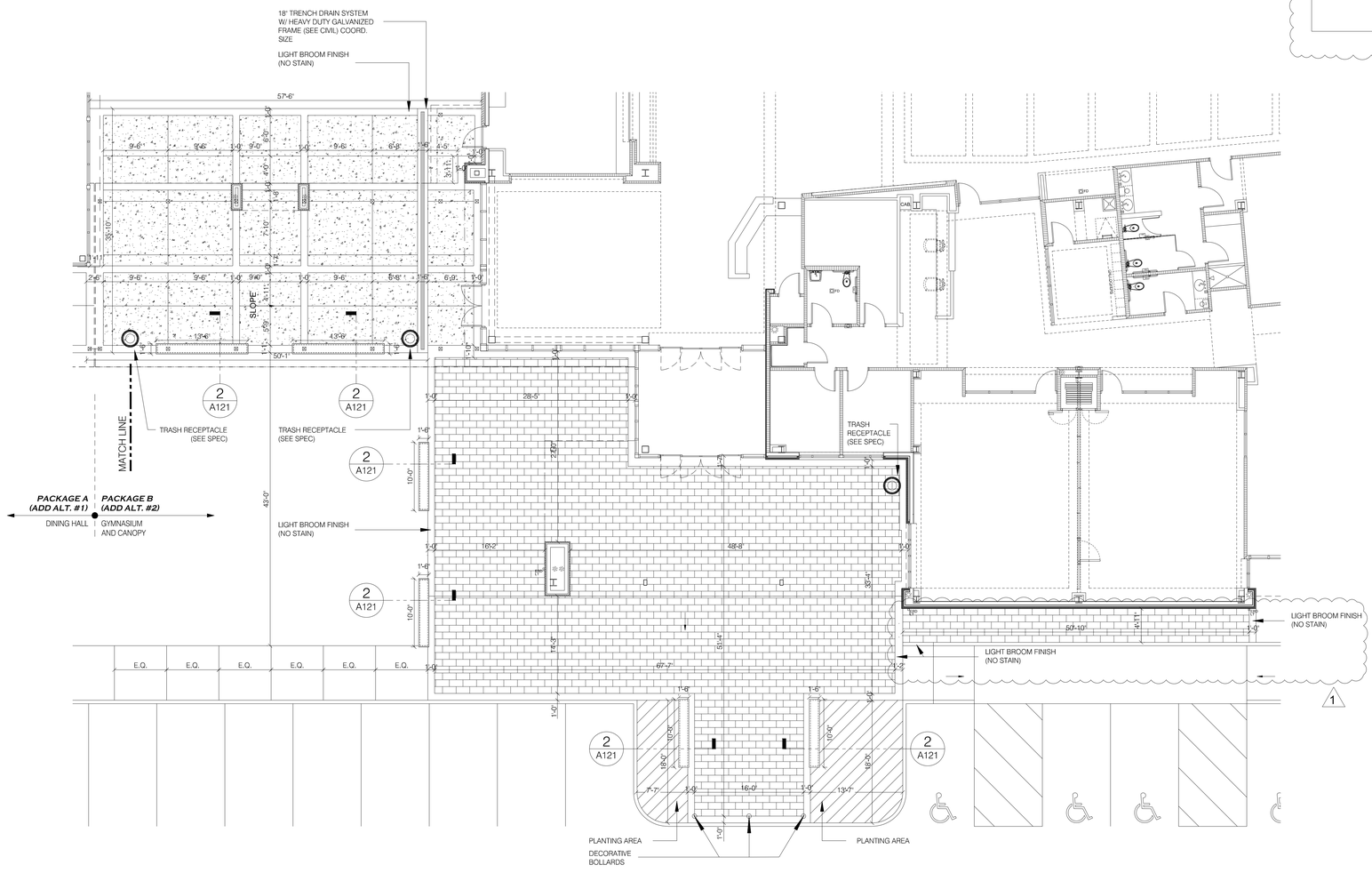
KEY LEGEND

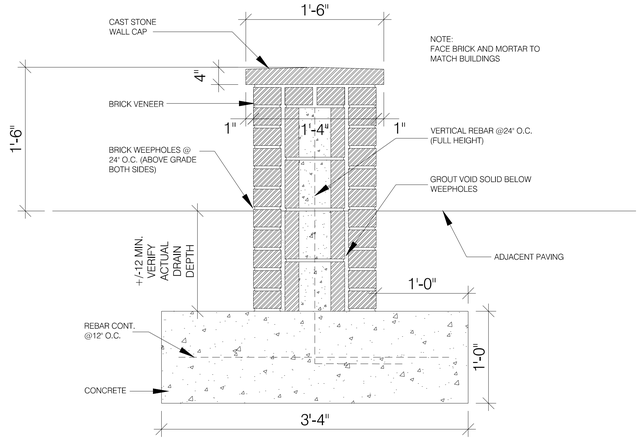
SYMBOL	DESCRIPTION
	LIGHT BROOM FINISH - STAINED TO MATCH PAVERS
	12" x 24" x 2" CONCRETE PAVERS - SET OVER 4" CONCRETE SIDEWALK; PAVER EQUAL TO HANOVER PREST PAVER, COLOR: CHARCOAL
	PLANTING AREA - SEE ALLOWANCE INCLUDED IN BASE BID

NOTES:

1. ALL EXTERIOR PAVEMENT TO BE BROOM FINISH CONCRETE UNLESS OTHERWISE NOTED.

1





1 A121 ENLARGED SITE PLAN
SCALE: 1/8"=1'-0"

2 A121 SEAT WALL DETAILS
SCALE: 1 1/2"=1'-0"

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3850
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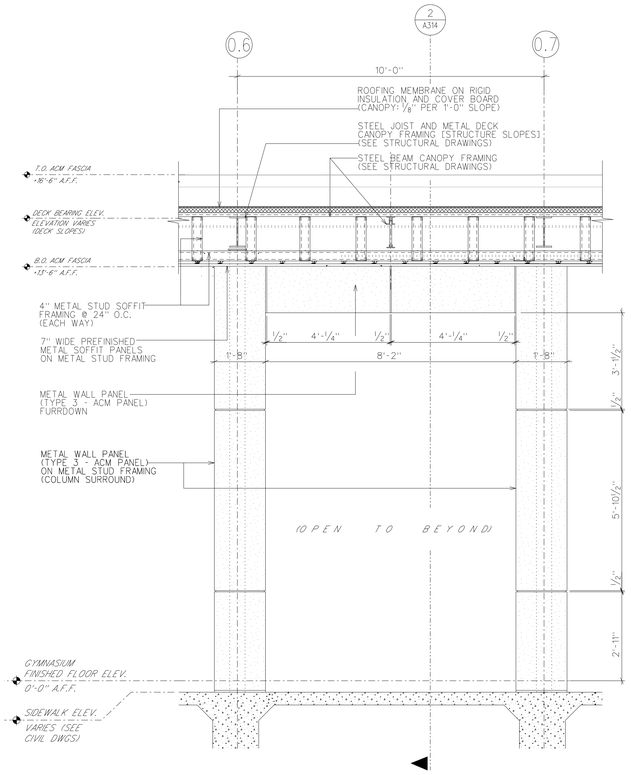
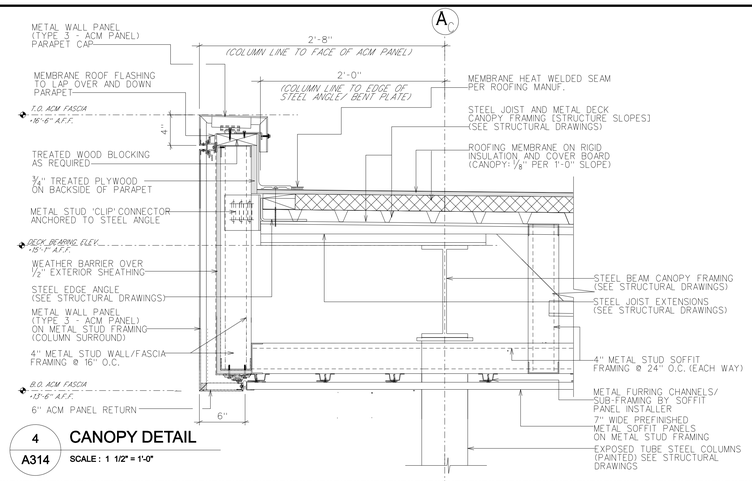
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
A121
ENLARGED SITE PAVING PLAN

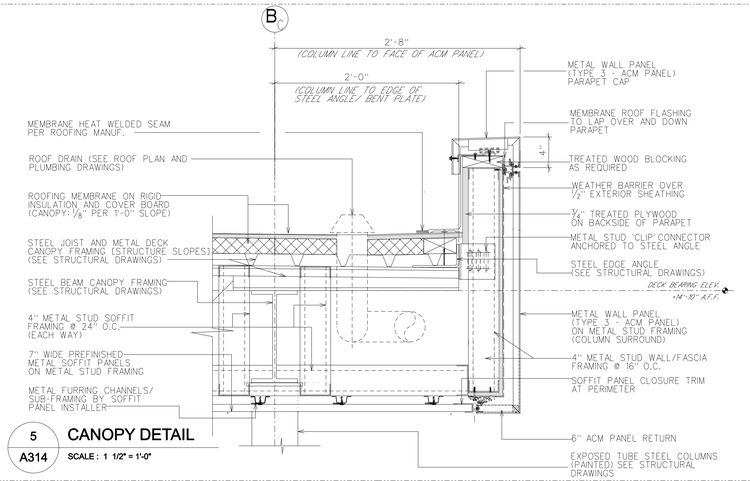
1" = 1'-0" GRAPHIC SCALE
3/4" = 1'-0" GRAPHIC SCALE
1 1/2" = 1'-0" GRAPHIC SCALE
1" = 1'-0" GRAPHIC SCALE
3/4" = 1'-0" GRAPHIC SCALE
1/2" = 1'-0" GRAPHIC SCALE
3/4" = 1'-0" GRAPHIC SCALE
1/8" = 1'-0" GRAPHIC SCALE



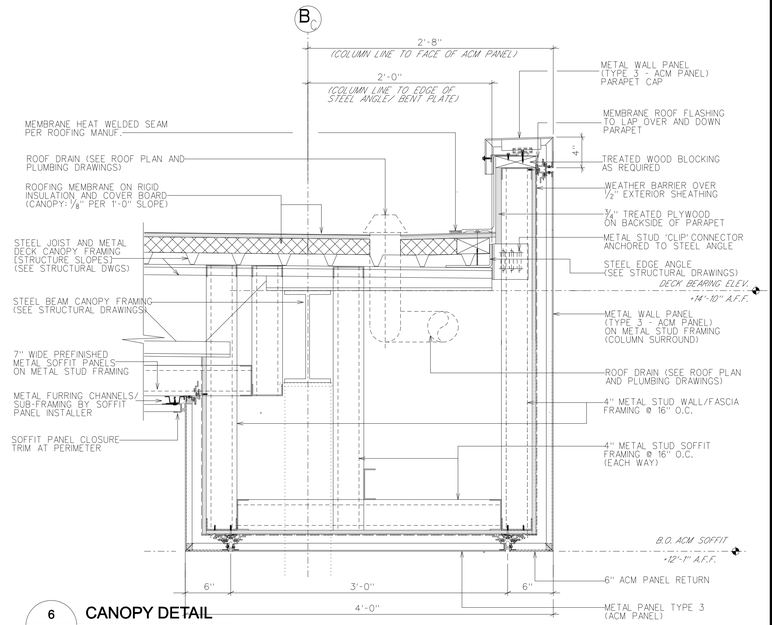
3 / A314 CANOPY PORTALFRAME SECTION/ELEVATION (LOOKING WEST)
SCALE : 1/2" = 1'-0"



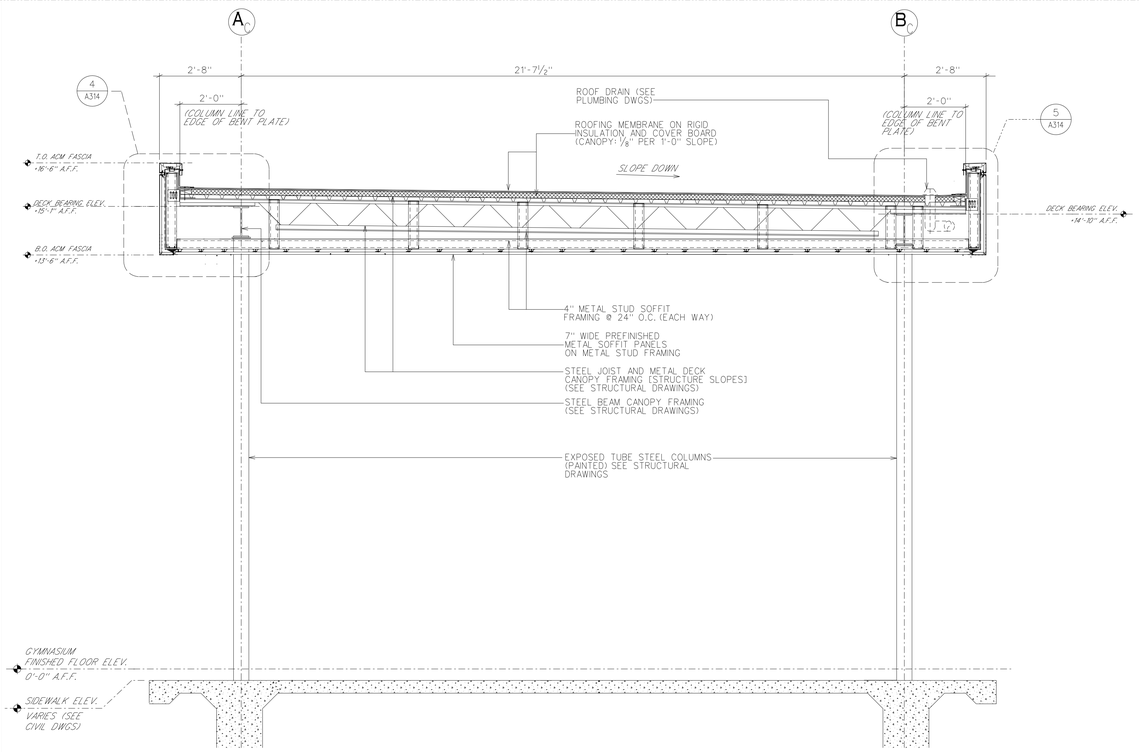
4 / A314 CANOPY DETAIL
SCALE : 1 1/2" = 1'-0"



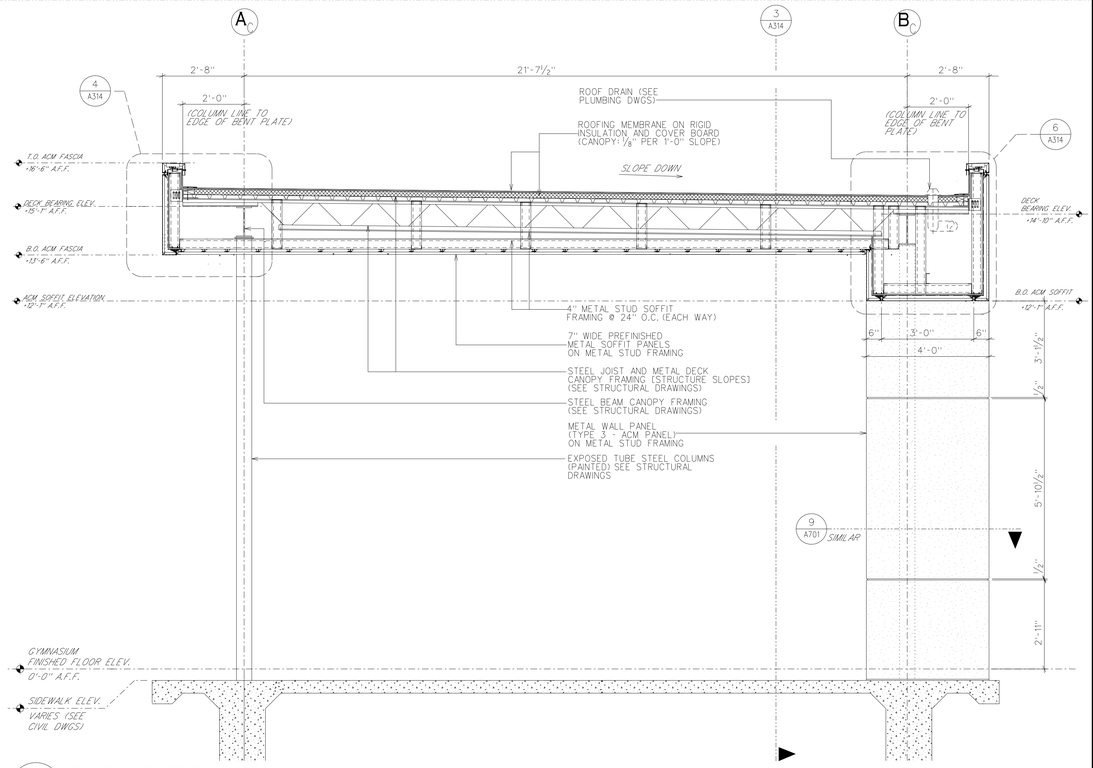
5 / A314 CANOPY DETAIL
SCALE : 1 1/2" = 1'-0"



6 / A314 CANOPY DETAIL
SCALE : 1/2" = 1'-0"



1 / A314 CANOPY SECTION
SCALE : 1/2" = 1'-0"



2 / A314 CANOPY SECTION
SCALE : 1/2" = 1'-0"

1" = 1'-0" GRAPHIC SCALE
0 6" 1 2" 2 6" 3 1'-0"

1½" = 1'-0" GRAPHIC SCALE
0 2" 4" 6" 1 2 3 4'-10"

1" = 1'-0" GRAPHIC SCALE
0 6" 1 2 3

¾" = 1'-0" GRAPHIC SCALE
0 2" 4" 6" 1 2 3

½" = 1'-0" GRAPHIC SCALE
0 6" 1 2 3 4

¼" = 1'-0" GRAPHIC SCALE
0 1 2 3 4 8

⅛" = 1'-0" GRAPHIC SCALE
0 1 2 3 4 8 16

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REGISTERED ARCHITECT Kenneth Allen Oubre 3850 JACKSON, MS STATE OF MISSISSIPPI
10/4/2025
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THE COMMONS - PACKAGE B
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
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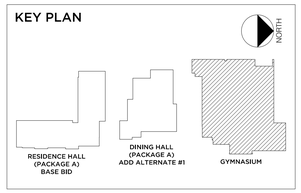
PEARL, MISSISSIPPI

Sheet Number:
A314
GYMNASIUM WALL SECTIONS

THE COMMONS - PACKAGE B
HINDS COMMUNITY COLLEGE
PEARL, MS
DEAN PROJECT NO. 24053

KEY PLAN



ACCESSORY LEGEND

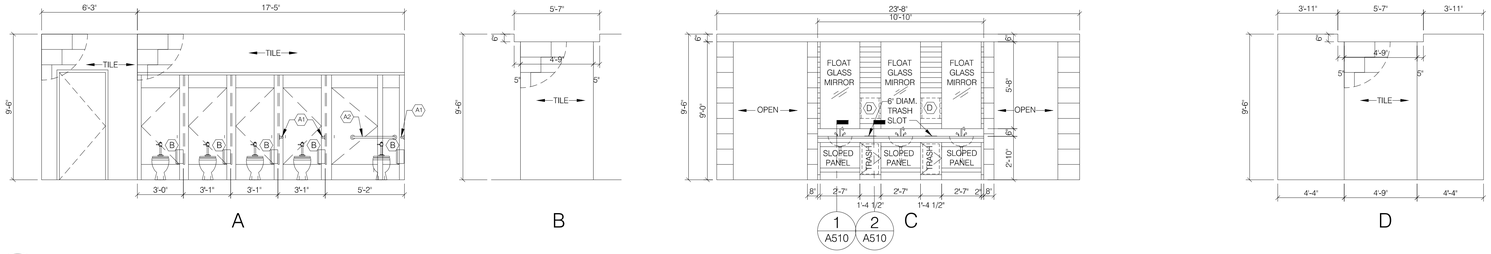
SYMBOL	DESCRIPTION
A1	42" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS
A2	36" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS
A3	18" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS
A4	24" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS
A6	54" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS
B	TOILET TISSUE DISPENSER (OFCI)
C	SOAP DISPENSER (OFCI)
D	PAPER TOWEL DISPENSER (OFCI)
E	ROBE HOOK - ALL TOILETS: BOBRICK B-76717
F	FRAMED MIRROR (24"X48"): BOBRICK B-290
G	BABY CHANGING STATION
H	FRAMED MIRROR (24"X72") (CFCI)
J	MOP AND BROOM HOLDER (CFCI) - ALL EVS CLOSETS

NOTE:

(CFCI)-CONTRACTOR FURNISHED / CONTRACTOR INSTALLED

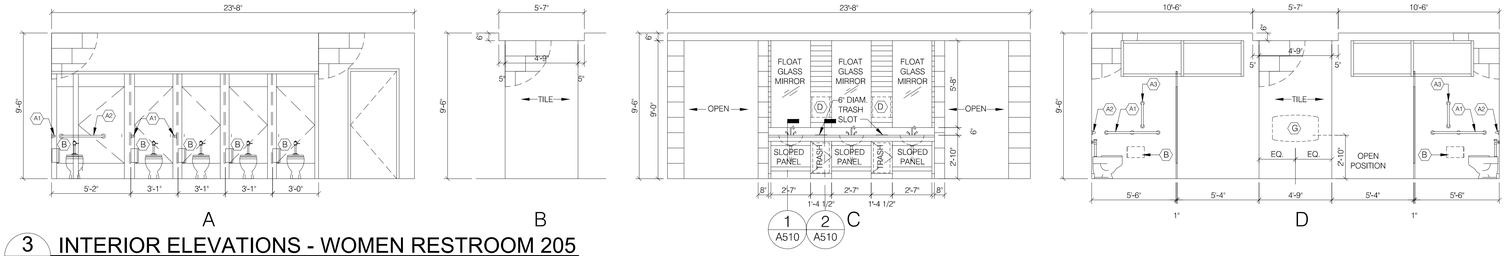
(OFCI)-OWNER FURNISHED / CONTRACTOR INSTALLED

ALL WALL MOUNTED ACCESSORIES AND/OR EQUIPMENT (CONTRACTOR OR OWNER PROVIDED) TO RECEIVE WOOD BLOCKING WITHIN WALL.



2 A502 INTERIOR ELEVATIONS - WOMEN RESTROOM 204

SCALE: 1/4"=1'-0"

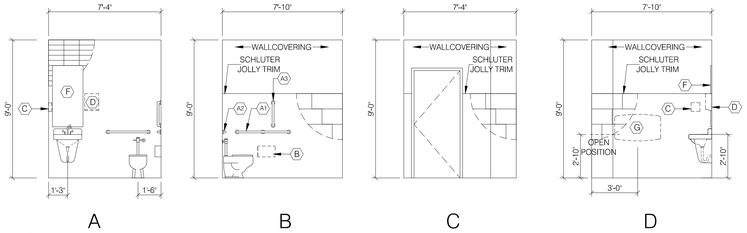


3 A502 INTERIOR ELEVATIONS - WOMEN RESTROOM 205

SCALE: 1/4"=1'-0"

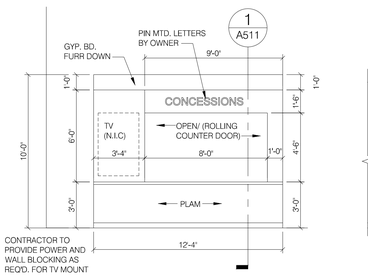
4 A502 INTERIOR ELEVATIONS - MEN RESTROOM 206

SCALE: 1/4"=1'-0"



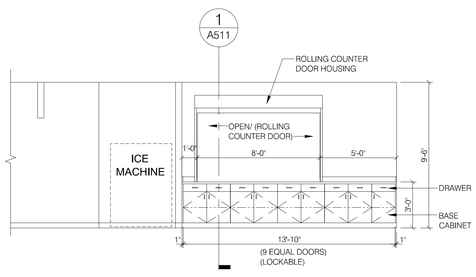
5 A502 INTERIOR ELEVATIONS - FAMILY RESTROOM 207

SCALE: 1/4"=1'-0"



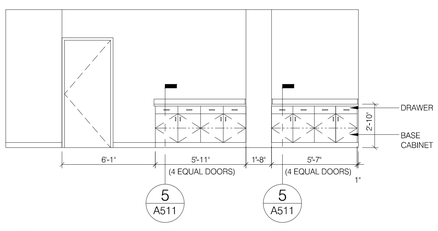
6 A502 CONCESSION 201

SCALE: 1/4"=1'-0"



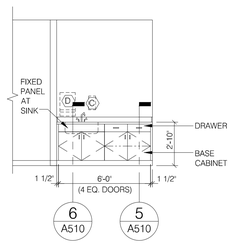
7 A502 CONCESSION 201

SCALE: 1/4"=1'-0"



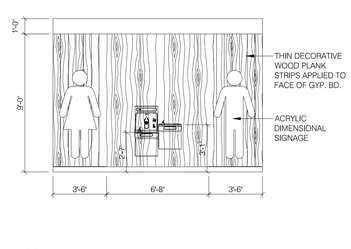
8 A502 CONCESSION 201

SCALE: 1/4"=1'-0"



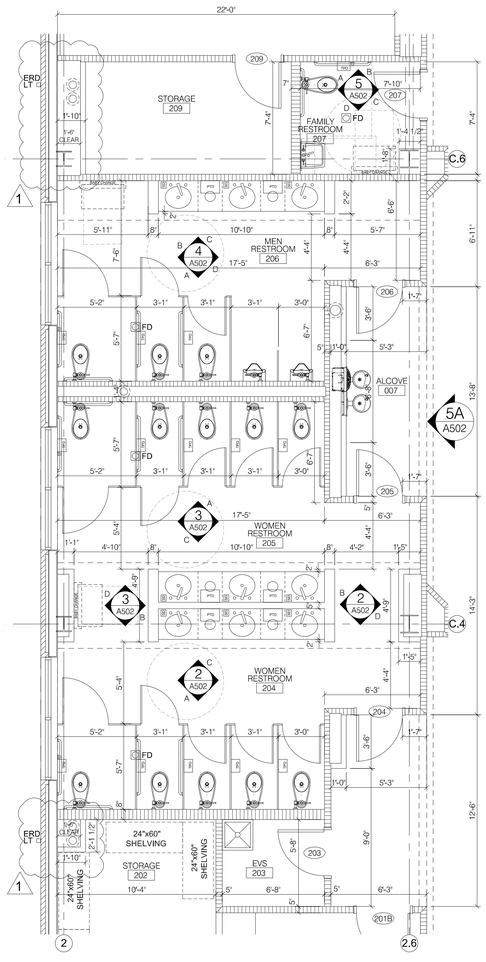
9 A502 CONCESSION 201

SCALE: 1/4"=1'-0"



10 A502 ALCOVE 007

SCALE: 1/4"=1'-0"



1 A502 ENLARGED FLOOR PLAN

SCALE: 1/4"=1'-0"

NORTH

1" = 1'-0" GRAPHIC SCALE
0 6" 1'
3/4" = 1'-0" GRAPHIC SCALE
0 6" 1'
1/2" = 1'-0" GRAPHIC SCALE
0 4" 8" 1'
3/8" = 1'-0" GRAPHIC SCALE
0 4" 8" 16"
1/4" = 1'-0" GRAPHIC SCALE
0 2" 4" 8"
1 1/2" = 1'-0" GRAPHIC SCALE
0 2" 4" 1'
3" = 1'-0" GRAPHIC SCALE
0 2" 6" 1'

THE COMMONS - PACKAGE B
PEARL, MS
24053

DEAN ARCHITECTURE
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Ridgeland, MS 39157
601.939.7717
deandean.com

REGISTERED ARCHITECT
Kenneth Allen Oubre
3850
JACKSON, MS
STATE OF MISSISSIPPI
10/9/2025

CONSTRUCTION DOCUMENTS

Project No.: 24053
Date: SEPTEMBER 18, 2025
Drawn: FBH, JMD, NAM, RMB
Checked: KAO
Revisions: 1 OCTOBER 09, 2025 - ADDENDUM #2

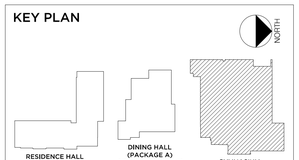
THE COMMONS - PACKAGE B (ADD ALTERNATE #2)
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

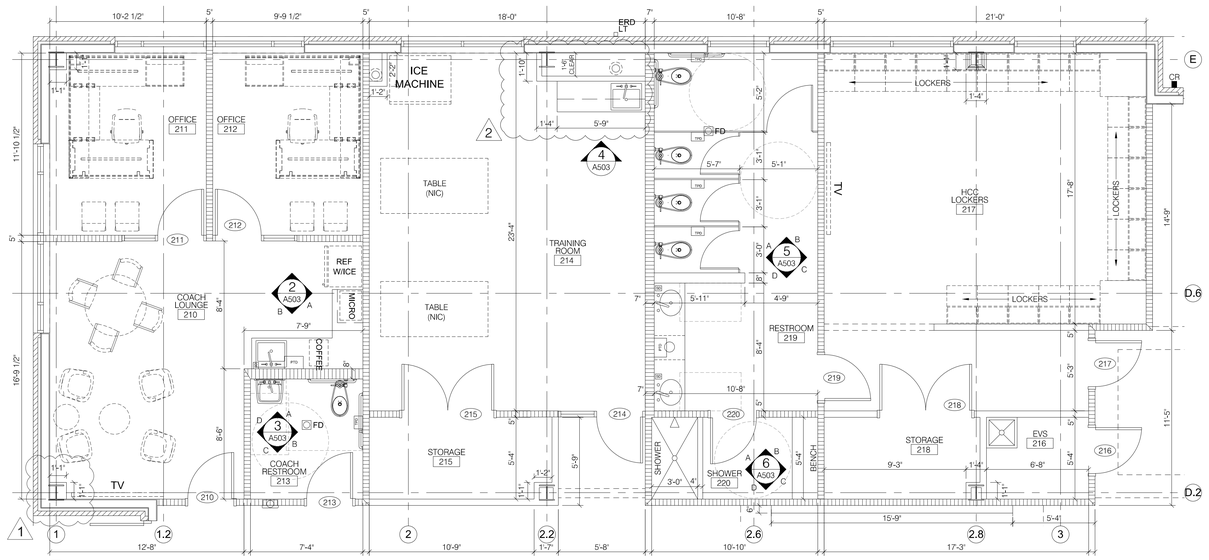
Sheet Number:

A502

GYMNASIUM ENLARGED FLOOR PLAN & INTERIOR ELEVATIONS

KEY PLAN





1 A503 NORTH — **ENLARGED FLOOR PLAN**
SCALE: 1/4"=1'-0"

ACCESSORY LEGEND

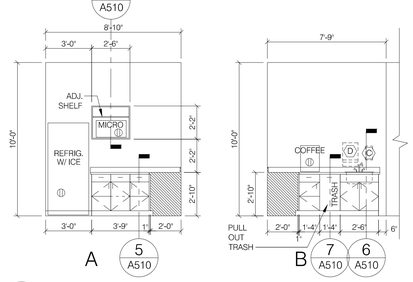
SYMBOL	DESCRIPTION
A1	42" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS
A2	36" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS
A3	18" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS
A4	24" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS
A5	54" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS
B	TOILET TISSUE DISPENSER (OFCI)
C	SOAP DISPENSER (OFCI)
D	PAPER TOWEL DISPENSER (OFCI)
E	ROBE HOOK - ALL TOILETS: BOBRICK B-76717
F	FRAMED MIRROR (24"X48"): BOBRICK B-290
G	BABY CHANGING STATION
H	FRAMED MIRROR (24"X72") (CFCI)
J	MOP AND BROOM HOLDER (CFCI) - ALL EVS CLOSETS

NOTE:

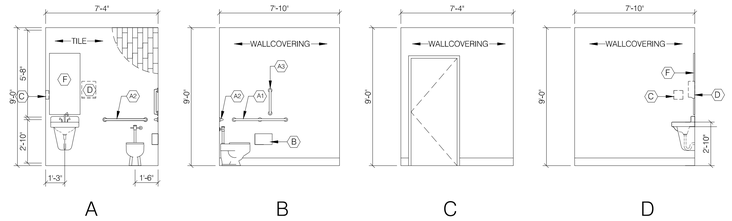
(CFCI)-CONTRACTOR FURNISHED / CONTRACTOR INSTALLED

(OFCI)-OWNER FURNISHED / CONTRACTOR INSTALLED

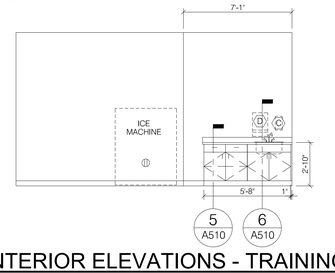
ALL WALL MOUNTED ACCESSORIES AND/OR EQUIPMENT (CONTRACTOR OR OWNER PROVIDED) TO RECEIVE WOOD BLOCKING WITHIN WALL.



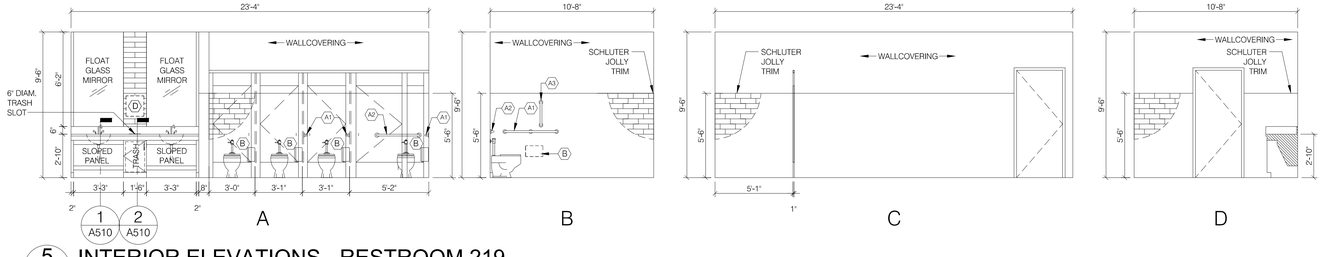
2 A503 — **INTERIOR ELEVATIONS - COACH LOUNGE 210**
SCALE: 1/4"=1'-0"



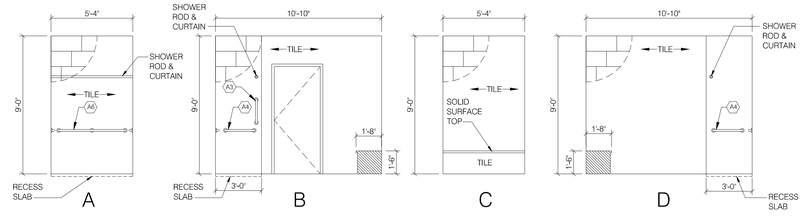
3 A503 — **INTERIOR ELEVATIONS - COACH RESTROOM 213**
SCALE: 1/4"=1'-0"



4 A503 — **INTERIOR ELEVATIONS - TRAINING ROOM 214**
SCALE: 1/4"=1'-0"



5 A503 — **INTERIOR ELEVATIONS - RESTROOM 219**
SCALE: 1/4"=1'-0"



6 A503 — **INTERIOR ELEVATIONS - SHOWER 220**
SCALE: 1/4"=1'-0"

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REGISTERED ARCHITECT
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JACKSON, MS
STATE OF MISSISSIPPI
10/9/2025

CONSTRUCTION DOCUMENTS

Project No.: 24053
Date: SEPTEMBER 18, 2025
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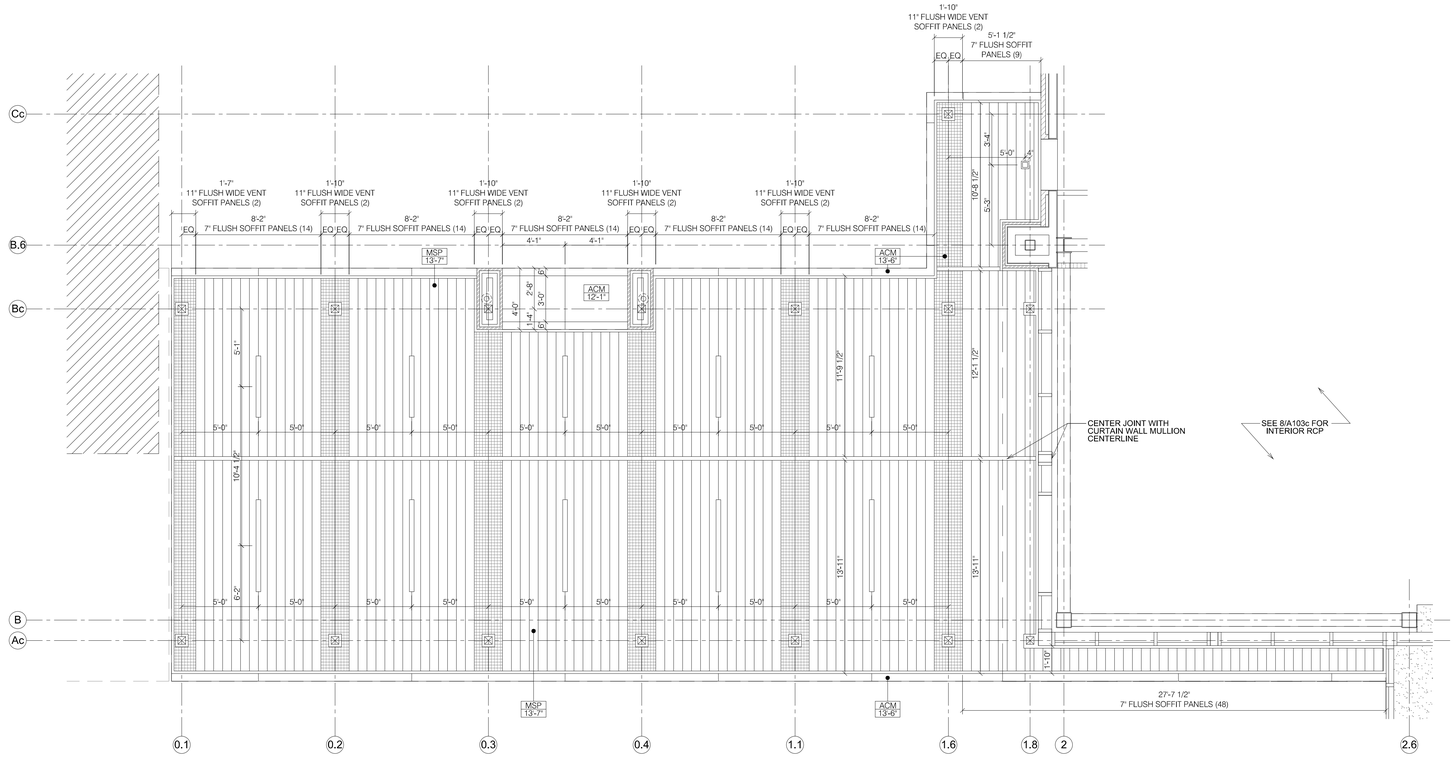
Checked: KAO
Revisions: 1. SEPTEMBER 30, 2025 - ADDENDUM #1
2. OCTOBER 09, 2025 - ADDENDUM #2

THE COMMONS - PACKAGE B (ADD ALTERNATE #2)
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
A503
GYMNASIUM ENLARGED FLOOR PLAN & INTERIOR ELEVATIONS

THE COMMONS - PACKAGE B
PEARL, MS
24053

3" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
1" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
¼" = 1'-0" GRAPHIC SCALE
⅛" = 1'-0" GRAPHIC SCALE

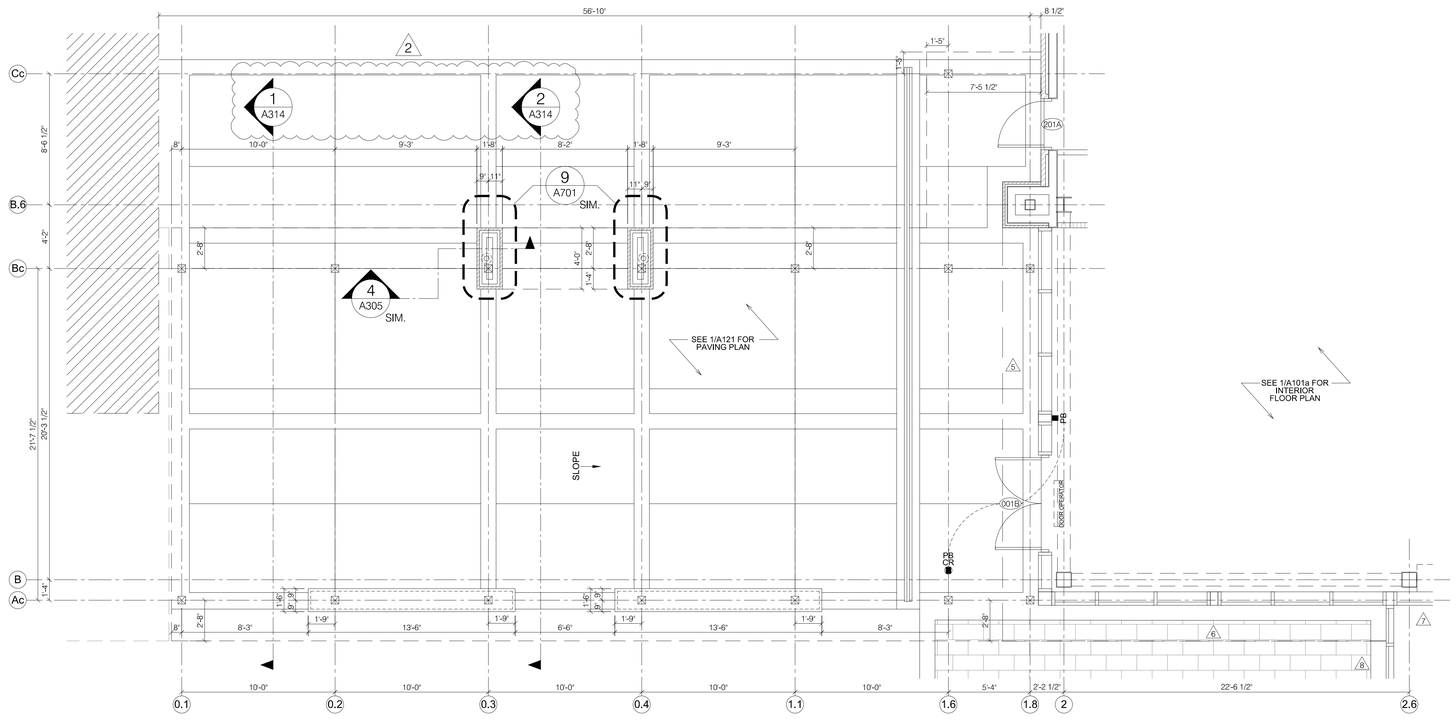


NORTH

1 A509

1 ENLARGED RCP

SCALE: 1/4"=1'-0"



NORTH

2 A509

2 ENLARGED FLOOR PLAN

SCALE: 1/4"=1'-0"

3" = 1'-0" GRAPHIC SCALE

1½" = 1'-0" GRAPHIC SCALE

1" = 1'-0" GRAPHIC SCALE

¾" = 1'-0" GRAPHIC SCALE

½" = 1'-0" GRAPHIC SCALE

⅜" = 1'-0" GRAPHIC SCALE

THE COMMONS - PACKAGE B
PEARL, MS
24053

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REGISTERED ARCHITECT
Kenneth Allen Oubre
3850
JACKSON, MS
STATE OF MISSISSIPPI

10/9/2025

CONSTRUCTION DOCUMENTS

Project No.: 24053
Date: SEPTEMBER 18, 2025
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THE COMMONS - PACKAGE B (ADD ALTERNATE #2)

(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)

PEARL, MISSISSIPPI

Sheet Number: 1

A509

GYMNASIUM
ENLARGED
FLOOR PLAN & RCP

McMASTER & ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS

October 9, 2025

ADDENDUM NO. TWO (2) – CIVIL ENGINEERING ITEMS
The Commons – Package A and Package B
(Rankin Campus) Hinds Community College
(Community College Board)
Pearl, Mississippi

The following changes and clarifications are hereby made a part of and take precedence over conflicting sections of the Drawings and Specifications.

CIVIL - GENERAL INFORMATION AND CLARIFICATIONS:

1.1 Item #1 – The SWPPP and LCNOI for this project will be submitted to MDEQ prior to bid. We anticipate one to two months from the submittal date for the approved permit.
1.2 Item #2 -Contractor shall employ the services of a third-party construction engineer and geotechnical engineer/qualified materials testing firm for all testing and inspection services required for retaining wall construction.
1.3 Item #3 – All gas services to the buildings will be sized and provided by the gas company and paid for by the contractor.

CIVIL – PERTAINING TO THE SPECIFICATIONS:

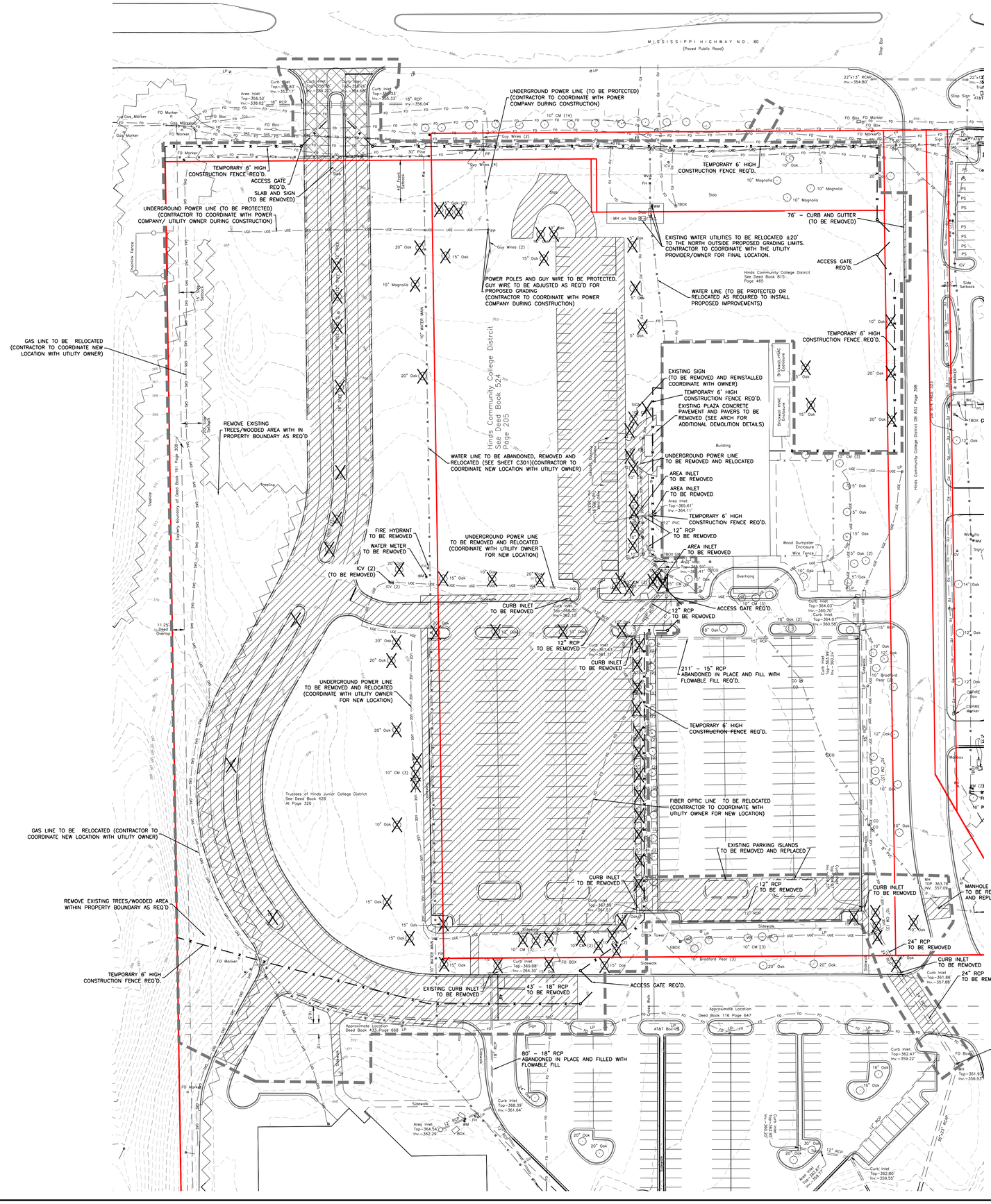
1.4 N/A

CIVIL – PERTAINING TO THE DRAWINGS:

1.5 Item #1 – Sheet C301 Package A – Sanitary Sewer Service at the Residence Hall changed from a 4” service line to a 6” service line
1.6 Item #2 – Sheet C301 Package A– Location of gas service for the Residence Hall changed
1.7 Item #3 – Sheet C301 Package A and B – All gas services will be sized and provided by the gas company and paid for by the contractor
1.8 Item #4- Sheet C103 Package A – Adjusted limits of Base Bid and Additive Alternate to match what the architecture plans show.
1.9 Item #5 – Sheet C003 Package A– Added 6’ high construction fence
1.10 Item #6 – Sheet C101 Package A – Added 36” crushed slate strip around the residence hall and dining hall and Revised Plaza Layout in front of the existing building
1.11 Item #8 – Sheet C104 Package A – Added Crushed Slate Maintenance Strip detail
1.12 Item #9 – Sheet C105 Package A – Added Paver Detail and Construction Fence Detail
1.13 Item #10 – Sheet C501 Package A – Revised fence location and removed inlet note.
1.14 Item #11 – Sheet C502 Package A – Revised wall details. Added concrete swale detail.
1.15 Item #12 – Sheet C503 Package A – Revised wall notes. Added testing & submittal requirements.
1.16 Item #13 – Sheet C101 Package B – Added 36” crushed slate maintenance strip around gymnasium building and added an additional paver area in front of gymnasium
1.17 Item #14 – Sheet C102 Package B – Added Crushed Slate Maintenance Strip Detail and Paver Detail

1.18 Item #15 – Sheet C106 Package A – This sheet was added to clarify what areas of the site will be landscaped and included in the landscaping allowance.

END OF CIVL ITEMS FOR ADDENDUM NO. TWO (2)



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¾" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE

SCALE: 1"=40'

EXISTING LEGEND

RCP	REINFORCED CONCRETE PIPE
EBOX	ELECTRIC/POWER BOX
FO	FIBER OPTIC/COMMUNICATION BOX
MH	EXISTING MANHOLE
LP	LIGHT POLE
WM	WATER METER
WV	WATER VALVE
FH	FIRE HYDRANT
WS	WATER SERVICE
ICV	IRRIGATION CONTROL VALVE
TBM	TEMPORARY BENCH MARK
SIR	SET IRON REBAR (1/2"X18")
FIR	FOUND IRON REBAR (1/2" UNLESS OTHERWISE NOTED)
W — W	EXISTING WATER LINE
P — P	EXISTING OVERHEAD POWERLINE
S — S	EXISTING SANITARY SEWER LINE
GAS — GAS	EXISTING SANITARY SEWER FORCE MAIN
FO — FO	EXISTING FIBER OPTIC CABLE
UGE — UGE	EXISTING UNDERGROUND ELECTRIC CABLE
	EXISTING WOOD FENCE
X — X	EXISTING WIRE FENCE
	EXISTING CHAINLINK FENCE

DEMO LEGEND

- CONSTRUCTION LIMITS
- REMOVAL AREAS
- ASPHALT MILLING (2" DEPTH)
- X — REMOVAL OF TREES, HEDGES, AND LIGHT POLES

NOTES:

1. SEE MECHANICAL, ELECTRICAL, PLUMBING, ARCHITECTURAL, AND LANDSCAPE DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
2. CONTRACTOR TO CONTACT AND COORDINATE WITH UTILITY PROVIDERS FOR REMOVAL AND RELOCATION OF EXISTING UTILITIES INCLUDING WATER, SANITARY SEWER, GAS, COMMUNICATION, ELECTRICAL, ETC.
3. CONTRACTOR TO COORDINATE THE REMOVAL OF EXISTING UTILITIES WITH CURRENT ON-GOING OPERATIONS OF THE EXISTING FACILITIES AS TO CAUSE NO INTERRUPTION IN SERVICE (i.e. WATER, SEWER, GAS, ELECTRICAL, COMMUNICATIONS, ETC.).
4. CONTRACTOR SHALL COORDINATE THE REMOVAL OF EXISTING STORM AND SANITARY SEWERS WITH THE INSTALLATION OF THE NEW UTILITIES. SPECIAL CONSIDERATION SHOULD BE GIVEN TO THE TIMING OF THE INSTALLATION OF THE PROPOSED SANITARY SEWER AND STORM STORM PIPE AS SHOWN ON THE PLANS. AT NO POINT SHALL UTILITY SERVICE TO THE EXISTING BUILDINGS BE INTERRUPTED. CONTRACTOR SHALL INCLUDE THIS WORK IN THE PROJECT SCHEDULE FOR OWNER/ARCHITECT REVIEW PRIOR TO BEGINNING CONSTRUCTION.
5. CONTRACTOR TO COORDINATE WITH THE OWNER REGARDING REMOVAL/REPLACEMENT OF ANY EXISTING IRRIGATION LINES WITHIN THE CONSTRUCTION LIMITS.
6. ALL EXISTING STRUCTURES, TREES, PAVEMENTS, UTILITIES, ETC. NOT DESIGNATED TO BE REMOVED WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE DONE TO SAID ITEMS DURING CONSTRUCTION DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE FULLY REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER(S). ANY REPAIRS ARE TO BE APPROVED BY THE OWNER, ENGINEER, AND/OR ARCHITECT.
7. CONTRACTOR TO SECURE THE SITE AND SHALL COORDINATE, SCOPE, LIMITS AND ACCESS POINTS WITH THE OWNER.
8. CONTRACTOR TO COORDINATE CONSTRUCTION FENCING, EMPLOYEE PARKING, LAY-DOWN AND STAGING AREAS, AND OFFICE TRAILER LOCATIONS WITH THE OWNER.
9. UNDERGROUND UTILITIES WERE LOCATED BY FIELD OBSERVATION AND BY THE FOLLOWING MISSISSIPPI 811 LOCATE REQUEST: #24112509470708 DATE CALLED: NOVEMBER 25, 2024 UTILITIES NOTIFIED:
   - MS0013 TELEPAK DBA C-SPIRE FIBER
   - MS0155 CENTERPOINT ENERGY MS
   - MS1084 UNITI FIBER - SOUTHERN LIGHT 1
   - MS0463 GULFSOUTH PIPELINE FLOWOOD-BORDWALK
   - MS0604 CITY OF PEARL WATER & SEWER
   - MS0809 SOUTHERN PINE ELECTRIC BRANDON
   - MS1020 COMCAST CABLE OF JACKSON
   - MS2079 HINDS COMMUNITY COLLEGE
   - MS3000 AT&T DISTRIBUTION
   - MS4021 ENERGY MS
   - MS5031 AT&T TRANSMISSION
   - MS5150 VERIZON BUSINESS PURCHASING LLC
   - MS7029 ZAYO DESOTO
10. CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. DURING THE LOCATING PROCESS, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER IN ORDER THAT THE LOCATION AND GRADE CAN BE RECORDED. SHOULD ANY CONFLICTS ARISE BETWEEN THE EXISTING UTILITIES AND PROPOSED IMPROVEMENTS, THE ENGINEER SHALL MAKE ADJUSTMENTS IN THE DESIGN ELEMENTS AND/OR DIRECT THE CONTRACTOR TO ADJUST EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ALL COSTS FOR LOCATING THE EXISTING UTILITIES, INCLUDING ANY SUBCONTRACTORS, SHALL BE INCLUDED IN THE CONTRACTORS BID. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
11. ALL TREES, UNDERBRUSH, AND DEBRIS WITHIN THE CONSTRUCTION LIMITS TO BE REMOVED, UNLESS NOTED OTHERWISE.
12. ALL LIGHT POLES ALONG WITH THE CORRESPONDING UNDERGROUND POWER LINES WITH IN THE CONSTRUCTION LIMITS SHALL BE REMOVED, UNLESS NOTED OTHERWISE. (SEE ELECTRICAL FOR ADDITIONAL DETAILS ON LIGHT POLE DEMOLITION.)
13. CONSTRUCTION FENCING SHOWN ON THIS SHEET IS THE MINIMUM REQUIRED FOR THE PROJECT. CONTRACTOR MAY BE REQUIRED TO ADJUST FENCING OR ADD FENCING THROUGHOUT THE PROJECT AS REQUIRED.

McMASTER & ASSOCIATES, INC.
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SUITE 300
MADISON, MS 39110
601.605.1090

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NICHOLAS R. COSTA
34529
STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

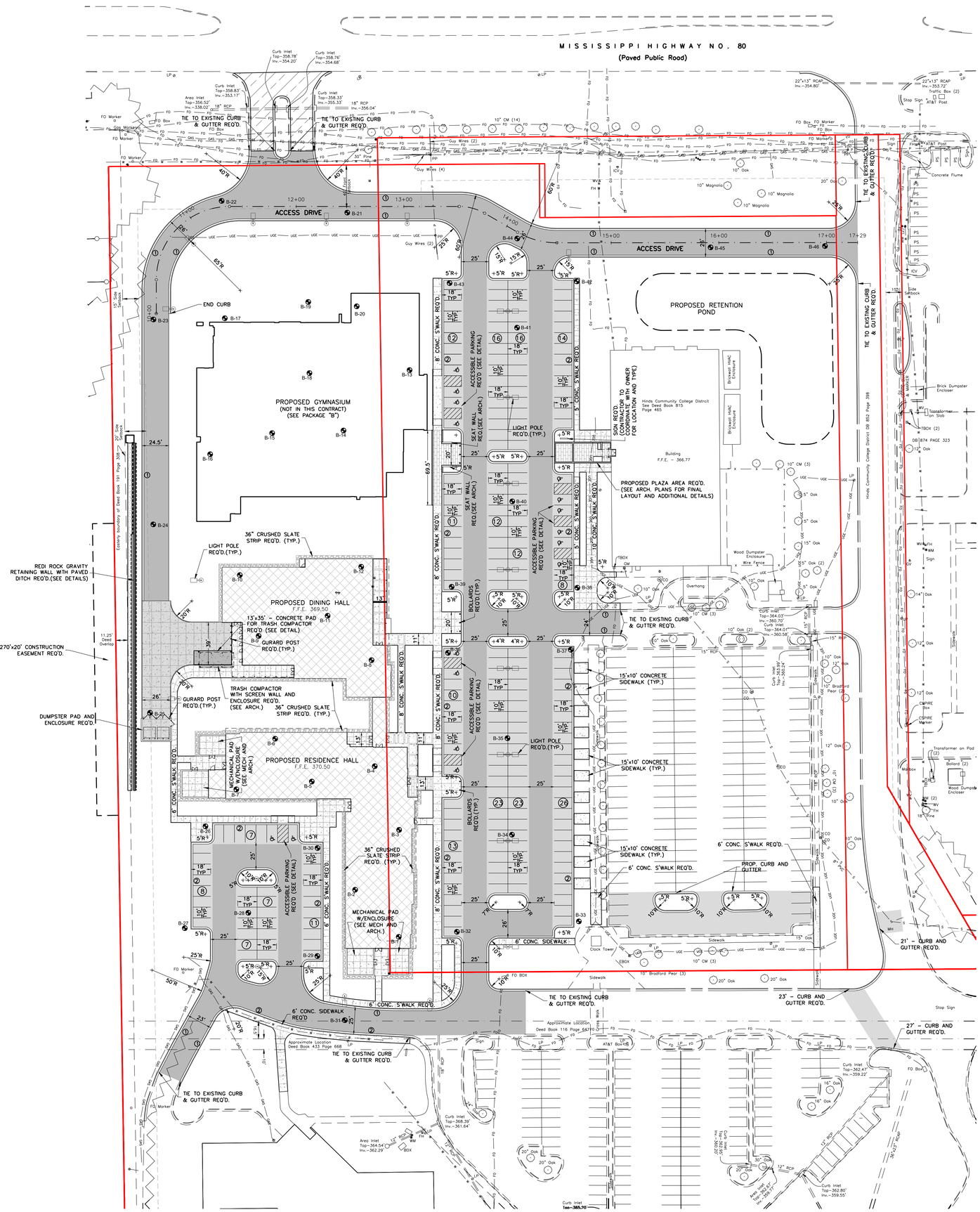
Project No.: 24053
Date: September 18, 2025
Drawn: N.S.G.
Checked: R.C.M.
Revisions:

THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE (COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:

C002

EXISTING AND DEMOLITION PLAN



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¾" = 1'-0" GRAPHIC SCALE
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⅜" = 1'-0" GRAPHIC SCALE
⅛" = 1'-0" GRAPHIC SCALE

THE COMMONS - PACKAGE A
PEARL, MS
2025

N

40 0 40 80
SCALE: 1"=40'

EXISTING LEGEND

RCP	REINFORCED CONCRETE PIPE
EBOX	ELECTRIC/POWER BOX
FO	FIBER OPTIC/COMMUNICATION BOX
MH	EXISTING MANHOLE
LP	LIGHT POLE
WM	WATER METER
WV	WATER VALVE
FH	FIRE HYDRANT
WS	WATER SERVICE
ICV	IRRIGATION CONTROL VALVE
TBM	TEMPORARY BENCH MARK
SIR	SET IRON REBAR (1/2"x18")
FIR	FOUND IRON REBAR (1/2" UNLESS OTHERWISE NOTED)
W — W	EXISTING WATER LINE
P — P	EXISTING OVERHEAD POWERLINE
S — S	EXISTING SANITARY SEWER LINE
GAS — GAS	EXISTING SANITARY SEWER FORCE MAIN
FO — FO	EXISTING FIBER OPTIC CABLE
UGE — UGE	EXISTING UNDERGROUND ELECTRIC CABLE
	EXISTING WOOD FENCE
X — X	EXISTING WIRE FENCE
	EXISTING CHAINLINK FENCE

SITEWORK LEGEND

- PROPOSED BUILDING
- PROPOSED CONCRETE AREAS
- PROPOSED LIGHT-DUTY ASPHALT PAVEMENT
- PROPOSED HEAVY-DUTY ASPHALT PAVEMENT
- PROPOSED HEAVY-DUTY CONCRETE PAVEMENT
- CONCRETE PAD FOR TRASH COMPACTOR (SEE DETAIL)
- PROPOSED 2" ASPHALT OVERLAY
- PROPOSED BRICK PAVER (SEE ARCHITECTURE PLANS)

CURB AND GUTTER LEGEND

① NORMAL CURB AND GUTTER
② PITCHED CURB AND GUTTER

NOTES:

1. THE TOTAL AREA OF THIS DEVELOPMENT IS 10.12 AC./441,008 S.F., MORE OR LESS. THE BREAKDOWN OF THIS AREA IS AS FOLLOWS:
   PERVIOUS – 250,617.92 S.F.
   IMPERVIOUS – 199,827.08 S.F.
   TOTAL – 450,445 S.F.
2. BUILDING SETBACKS: ALL SETBACKS ARE SUBJECT TO SITE PLAN REVIEW.
   FRONT – 50'
   REAR – 20' (ABUTTING NON-RESIDENTIAL)
   50' (ABUTTING RESIDENTIAL)
   SIDE – 20' (ABUTTING NON-RESIDENTIAL)
   50' (ABUTTING RESIDENTIAL)
3. THIS BUILDING WILL BE UTILIZED AS GYMNASIUM, DINING FACILITY, AND RESIDENCE HALL.
4. PARKING SPACES:
   SPACES PROVIDED – 236 SPACES
   HANDICAP SPACES PROVIDED – 16 SPACES, 16 VAN ACCESSIBLE
5. THIS PROPERTY IS ZONED C-2 AND S-1 IN THE CITY OF PEARL.
6. THIS PROPERTY IS LOCATED IN ZONE X – OTHER AREAS, WHICH IS DEFINED AS, "AREAS DETERMINED TO BE OUTSIDE THE 0.2% CHANCE FLOODPLAIN," AS SHOWN ON FIRM MAP NUMBER 28121C0189F, DATED JUNE 9, 2014 AND 28121C0187, DATED AUGUST 16, 2022
7. ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH THE CITY OF PEARL SPECIFICATIONS.
8. DOMESTIC WATER SERVICE, FIRE PROTECTION, AND SEWER SERVICE WILL BE PROVIDED BY THE CITY OF PEARL.
9. SEE MECHANICAL, ELECTRICAL, ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR FURTHER REQUIREMENTS AND COORDINATION.
10. ALL RADIUSES AND DIMENSIONS ARE MEASURED TO THE FACE OF CURB, UNLESS NOTED OTHERWISE.
11. SEE DETAILS FOR LIGHT-DUTY ASPHALT PAVEMENT, HEAVY-DUTY ASPHALT PAVEMENT AND HEAVY-DUTY CONCRETE PAVEMENT REQUIREMENTS

McMASTER & ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
212 WATERFORD SQUARE
SUITE 300
MADISON, MS 39110
601.605.1090

DEAN ARCHITECTURE
GEDDIE | GRANT | OUBRE
661 Sunnybrook, Ste 140
Ridgeland, MS 39157
601.939.7717
deandean.com

NICHOLAS E. COSTA
LICENSED ARCHITECT
34529
STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

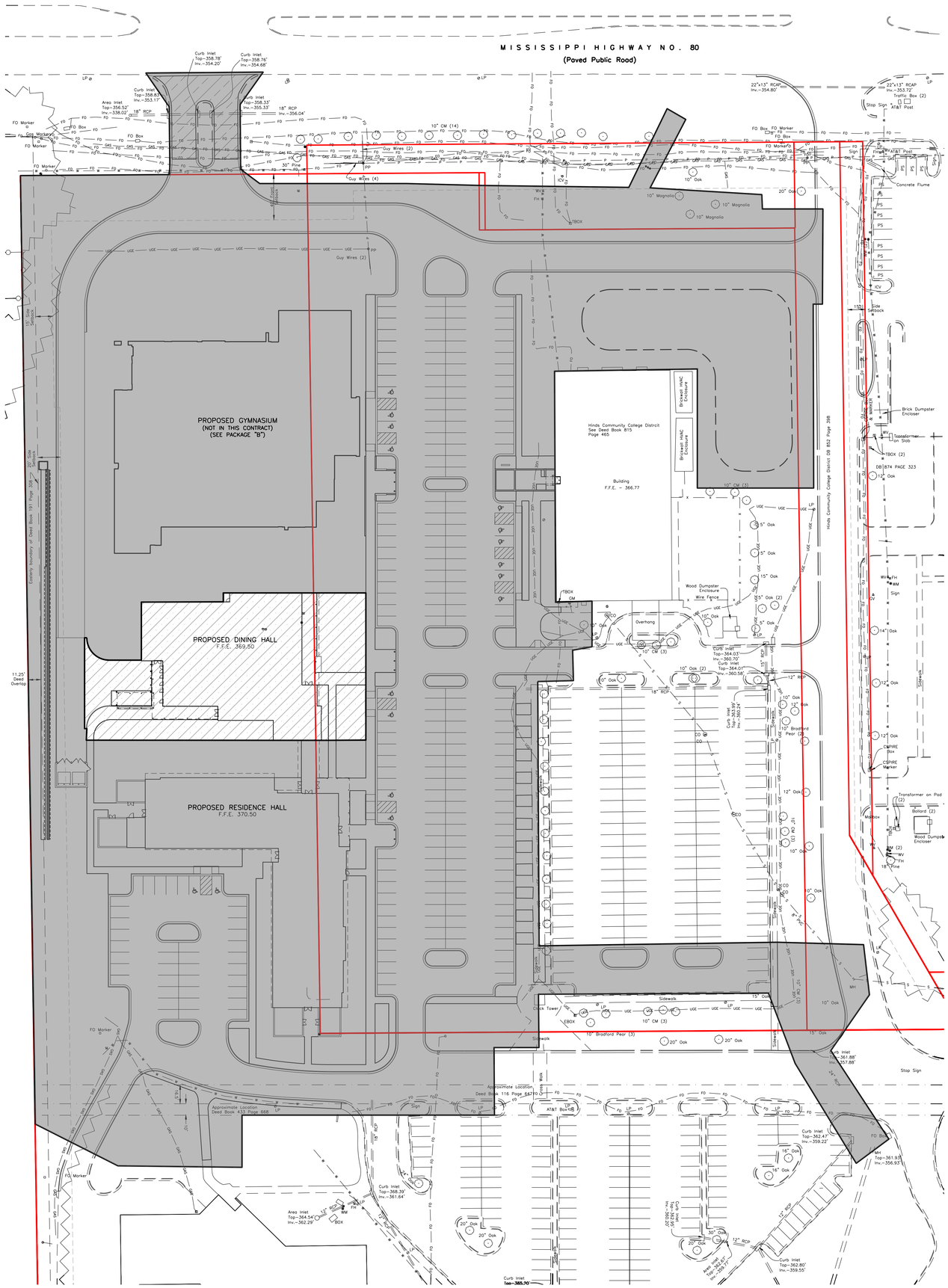
Project No.: 24053
Date: September 18, 2025
Drawn: N.S.G.
Checked: R.C.M.
Revisions: 10.09.25 ADDENDUM No. 2

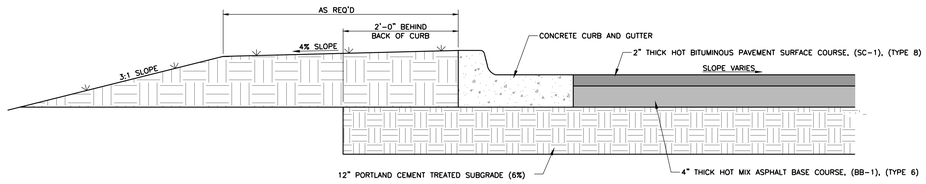
THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:

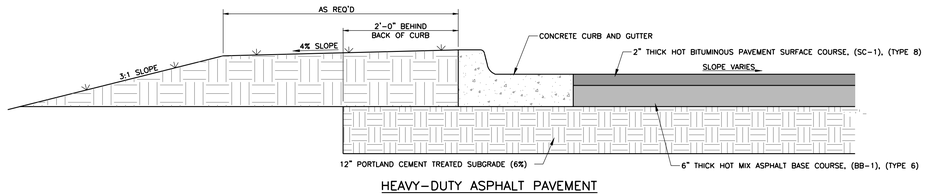
C101

SITE PLAN

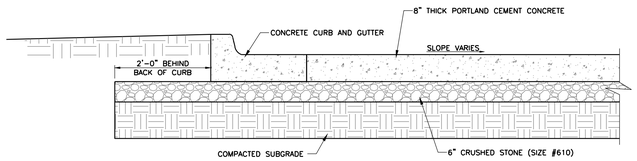

MISSISSIPPI HIGHWAY NO. 80
(Paved Public Road)
PROPOSED GYMNASIUM
(NOT IN THIS CONTRACT)
(SEE PACKAGE "B")
PROPOSED DINING HALL
F.F.E. 369.50
PROPOSED RESIDENCE HALL
F.F.E. 370.50
Hinds Community College District
See Deed Book 815
Page 465
Building
F.F.E. – 366.77
Hinds Community College District DB 852 Page 398
DB 874 PAGE 323
Brick Dumpster Enclosure
Wood Dumpster Enclosure
Wire Fence
Overhang
Clock Tower
Concrete Flume
Stop Sign
Sidewalk
Retaining Wall
Approximate Location
Deed Book 116 Page 647
Approximate Location
Deed Book 433 Page 668
Eastern boundary of Deed Book 191 Page 201
11.25' Deed Overlap
150' Side Setback
20' Side Setback
Curb Inlet
Top=358.78'
Inv.=354.20'
Curb Inlet
Top=358.76'
Inv.=354.68'
Area Inlet
Top=356.52'
Inv.=338.02'
18" RCP
Curb Inlet
Top=358.83'
Inv.=353.17'
Curb Inlet
Top=358.33'
Inv.=355.33'
18" RCP
Inv.=356.04'
22"x13" RCAP
Inv.=354.80'
22"x13" RCAP
Inv.=353.72'
Traffic Box (2)
AT&T Pedestal
AT&T Box
Guy Wires (2)
Guy Wires (4)
30" Pine
10" CM (14)
10" Magnolia
20" Oak
Curb Inlet
Top=364.03'
Inv.=360.70'
Curb Inlet
Top=364.01'
Inv.=360.58'
Curb Inlet
Top=363.39'
Inv.=359.39'
Curb Inlet
Top=368.39'
Inv.=361.64'
Area Inlet
Top=364.54'
Inv.=362.29'
Curb Inlet
Top=362.42'
Inv.=359.22'
Curb Inlet
Top=361.88'
Inv.=357.88'
Curb Inlet
Top=361.93'
Inv.=356.93'
Curb Inlet
Top=362.80'
Inv.=359.55'
Curb Inlet
Top=369.30'
Area Inlet
Top=365.67'
Inv.=359.92'
Transformer on Pad (2)
Bollard (2)
Mailbox
CSPIRE Box
CSPIRE Marker
Sidewalk
Ditch
Swale
Ditch Flow
Ditch Flow (Typ)
Ditch Flow (Typ)
Ditch Flow (Typ)



LIGHT-DUTY ASPHALT PAVEMENT
N.T.S.



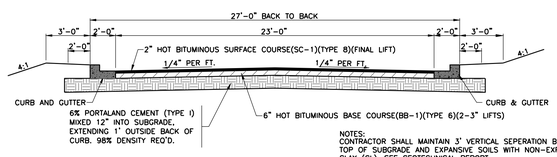
HEAVY-DUTY ASPHALT PAVEMENT
N.T.S.



HEAVY DUTY PORTLAND CEMENT CONCRETE PAVEMENT SECTION
N.T.S.

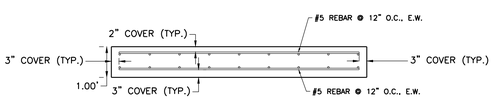
NOTES:

1. CONCRETE SHALL BE 4,000 PSI IN 28 DAYS.
2. PROVIDE FULL DEPTH ISOLATION JOINT AT ALL LOCATIONS WHERE CONCRETE ABUTS CURBS, INLETS, WALLS, FOUNDATIONS, AND OTHER FIXED OBJECTS.
3. REINFORCING STEEL REQUIRED FOR IRREGULAR SHAPED PANELS AND PANELS WITH ACUTE ANGLES. IRREGULAR SHAPED PANELS ARE CONSIDERED TO BE ONES IN WHICH THE SLAB TAPERS TO A SHARP ANGLE, WHEN THE LENGTH TO WIDTH RATIO EXCEEDS 1.25, OR WHEN THE SLAB IS NEITHER SQUARE OR RECTANGULAR. INSTALL #4 REBAR AT 12" O.C., E.W., WITH 1 1/2" CLEAR COVER FROM TOP OF SLAB. TERMINATE REINFORCING STEEL AT CONTRACTION JOINT LOCATIONS.
4. MAXIMUM JOINT SPACING SHALL BE 15'-0" O.C. MAX.
5. CONTRACTION JOINTS SHALL BE A MINIMUM OF 1" OF DEPTH AND A MAXIMUM OF ¼ OF THE PAVEMENT. EDGES SHALL BE TOOLED TO A ¼" RADIUS.
6. SEE GEOTECHNICAL REPORT FOR MORE INFORMATION.



NOTES:
CONTRACTOR SHALL MAINTAIN 3' VERTICAL SEPERATION BETWEEN TOP OF SUBGRADE AND EXPANSIVE SOILS WITH NON-EXPANSIVE CLAY (CL). SEE GEOTECHNICAL REPORT.

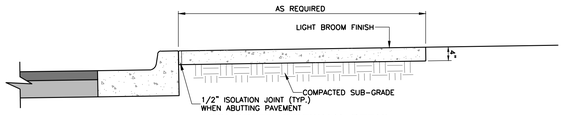
TYPICAL SECTION FOR PRIVATE DRIVE
N.T.S.



NOTES:

1. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 P.S.I.
2. REINFORCING STEEL SHALL BE GRADE 60.
3. ½" ISOLATION JOINT WILL BE REQUIRED BETWEEN TRASH COMPACTOR SLAB AND ANY ABUTTING PAVEMENTS.

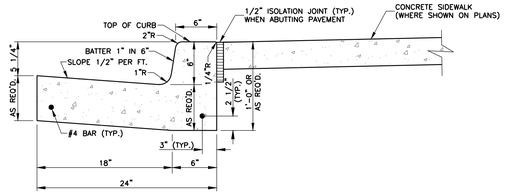
TRASH COMPACTOR PAD DETAIL
N.T.S.



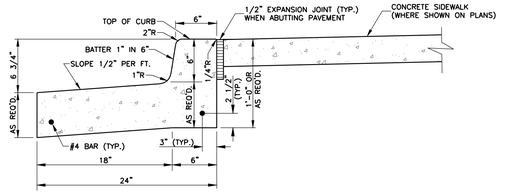
CONCRETE SIDEWALK DETAIL
N.T.S.

NOTES:

1. PROVIDE CONTRACTION JOINTS AT 5'-0" O.C.
2. CONTRACTION JOINTS SHALL BE A MINIMUM OF 1/4 DEPTH OF THE PAVEMENT. EDGES SHALL BE TOOLED TO A 1/4" RADIUS.
3. MAX. SLOPE IN RUN OF SIDEWALKS TO BE 5% MAX. CROSSLOPE TO BE MAX 2%.
4. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI
5. PROVIDE FULL DEPTH ISOLATION JOINT IN ALL LOCATIONS WHERE SIDEWALK ABUTTS CURBS, INLETS, WALLS, FOUNDATIONS, AND OTHER FIXED OBJECTS.



NORMAL GUTTER

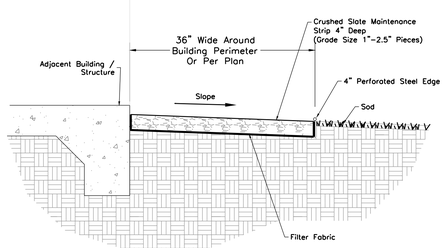


PITCHED GUTTER

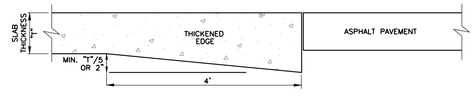
CONCRETE CURB AND GUTTER DETAIL
N.T.S.

NOTES:

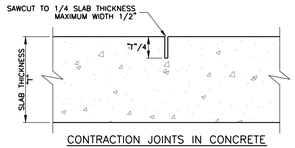
1. CONCRETE SHALL BE 3,500 P.S.I. MINIMUM.
2. PROVIDE CONTRACTION JOINTS AT 10'-0" O.C. AND EXPANSION JOINTS AT 40'-0" O.C.
3. CONTRACTION JOINTS SHALL BE A MINIMUM OF 1" OF DEPTH AND A MAXIMUM OF 1/4 DEPTH OF THE PAVEMENT. EDGES SHALL BE TOOLED TO A 1/4" RADIUS.
4. EXPANSION JOINTS SHALL BE 1/2" IN WIDTH AND FILLED WITH PREMOLDED EXPANSION JOINT FILLER TO WITHIN 1/2" OF THE SURFACE. EDGES SHALL BE TOOLED TO A 1/4" RADIUS AND SEALED FLUSH WITH AN APPROVED SEALANT.
5. CONTRACTOR TO FIELD VEREFIY TYPE OF GUTTER PITCH USED.



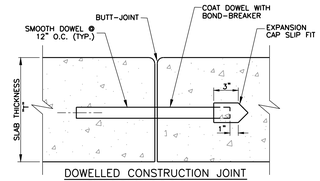
CRUSHED SLATE MAINTENANCE STRIP
N.T.S.



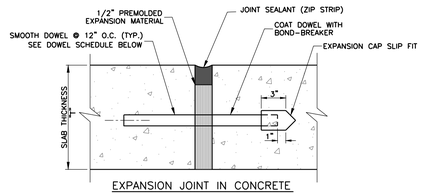
THICKENED EDGE DETAIL



CONTRACTION JOINTS IN CONCRETE
NOTE: CONTRACTION JOINT WIDTHS 1/4" OR GREATER SHALL BE SEALED WITH APPROVED SEALANT.



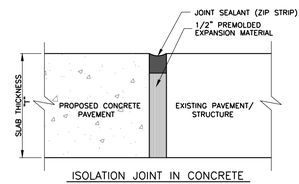
DOWELLED CONSTRUCTION JOINT
HEAVY-DUTY & LIGHT-DUTY PAVEMENT
DOWEL SCHEDULE:
HEAVY-DUTY CONCRETE 1 1/4" DIAMETER, 15" LONG
LIGHT-DUTY CONCRETE 3/4" DIAMETER, 14" LONG



EXPANSION JOINT IN CONCRETE

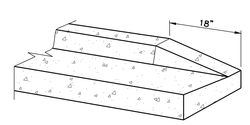
DOWEL SCHEDULE:
HEAVY-DUTY CONCRETE 1 1/4" DIAMETER, 15" LONG
LIGHT-DUTY CONCRETE 3/4" DIAMETER, 14" LONG
CONCRETE SIDEWALK 1/2" DIAMETER, 14" LONG

NOTE: PROVIDE THICKENED EDGE ("T"+1 INCH) 12" EACH SIDE OF EXPANSION JOINT IN CONCRETE SIDEWALK.



ISOLATION JOINT IN CONCRETE

CONCRETE JOINT DETAILS
N.T.S.



CURB END TRANSITION DETAIL

DEAN
ARCHITECTURE
GEDDIE | GRANT | OUBRE
661 Sunnybrook, Ste 140
Ridgeland, MS 39157
601.939.7717
deandean.com

NICHOLAS R. COSTA
REGISTERED ARCHITECT
34529
STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

Project No.: 24053
Date: September 18, 2025
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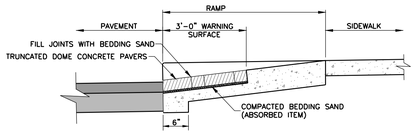
THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

McMASTER & ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
212 WATERFORD SQUARE
SUITE 300
MADISON, MS 39110
601.605.1090

Sheet Number:
C104
SITE IMPROVEMENT DETAILS

3" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
1" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
⅛" = 1'-0" GRAPHIC SCALE



TYPICAL DETECTABLE WARNING INSTALLATION

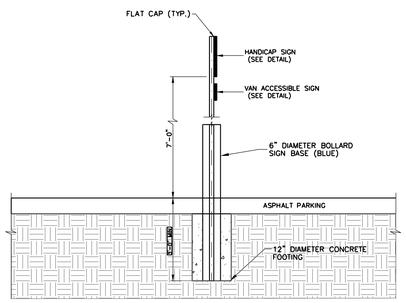
NOTE: DETECTABLE WARNING PAVERS SHALL BE GRAY IN COLOR

NOTES:

1. LANDINGS WILL PROVIDE A LEVEL AREA (LESS THAN 2% GRADE OR CROSS SLOPE) AT APPROXIMATE STREET ELEVATION. A 4 FOOT SQUARE LEVEL LANDING IS THE REQUIRED MINIMUM.
2. ALL SIDEWALK RAMPS REQUIRE DETECTABLE WARNINGS.
3. ANY DRIVEWAY 24' OR GREATER REQUIRES ADA SIDEWALK TREATMENTS WITH DETECTABLE WARNINGS WHICH WILL BE INCIDENTAL TO THE ENTRANCE CONSTRUCTION.
4. DETECTABLE WARNINGS SHALL BE INCIDENTAL TO SIDEWALK CONSTRUCTION.
5. DETECTABLE WARNING SURFACE BEGINS AT THE BACK OF CURB AND 6" BEHIND EDGE OF PAVEMENT.

DETECTABLE WARNING DETAILS

N.T.S.

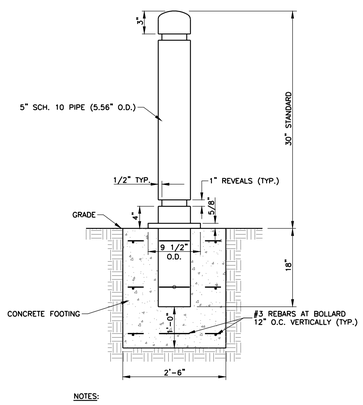


FOOTING DETAIL FOR HANDICAP PARKING SIGN

N.T.S.

SIGN AT HANDICAP PARKING SPACE

N.T.S.



NOTES:

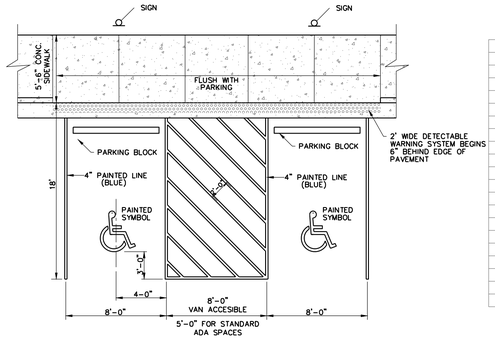
1. CONTRACTOR SHALL PROTECT THE BOLLARDS AFTER INSTALLATION.
2. COLOR TO BE DETERMINED BY THE ARCHITECT.

MODEL B-4-5B2, 6" BOLLARD

FAIR WEATHER SITE FURNISHINGS
360-895-2626 OR TOLL FREE 800-323-1798
PORT ORCHARD, WASHINGTON

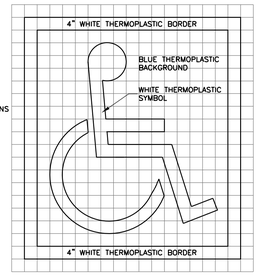
BOLLARD DETAIL

N.T.S.



HANDICAP PARKING AND ACCESSIBLE RAMP DETAILS

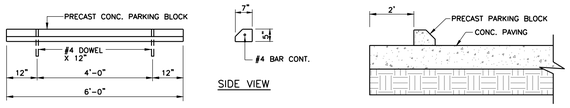
N.T.S.



4"x4" GRID PROVIDED FOR LAYOUT OF SYMBOL. PROVIDE THERMOPLASTIC COLORS IN ACCORDANCE WITH ADA AND LOCAL REQUIREMENTS (TYPICALLY WHITE SYMBOL ON BLUE BACKGROUND INSIDE WHITE BORDER)

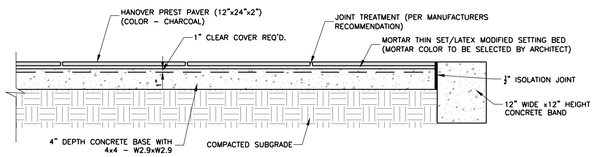
TYPICAL THERMOPLASTIC ACCESSIBLE SYMBOL FOR PAVEMENT

N.T.S.



PARKING BLOCK DETAILS

N.T.S.

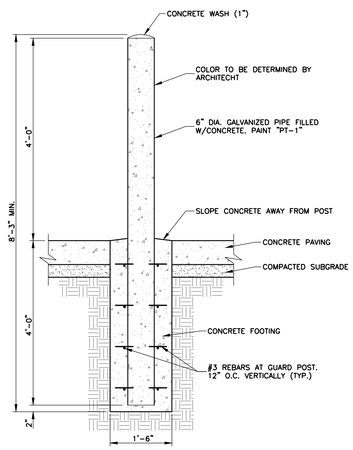


PAVER DETAIL

N.T.S.

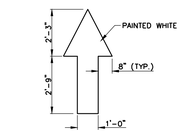
TRENCH DRAIN NOTES:

1. PROVIDE CONTRACTION JOINTS IN CONCRETE BAND AT MAX 5' O.C. COORDINATE JOINT LOCATIONS WITH PAVER LAYOUT.
2. WIRE MESH REINFORCING STEEL SHALL BE CUT FROM FLAT SHEET STOCK.
3. WIRE MESH REINFORCEMENT SHALL BE PROPERLY SUPPORTED ON STEEL MESH CHAIRS AT MAX 2' O.C. GRID SPACING



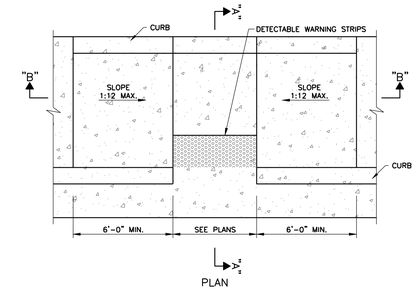
GUARD POST DETAIL

N.T.S.



DIRECTION ARROW DETAIL

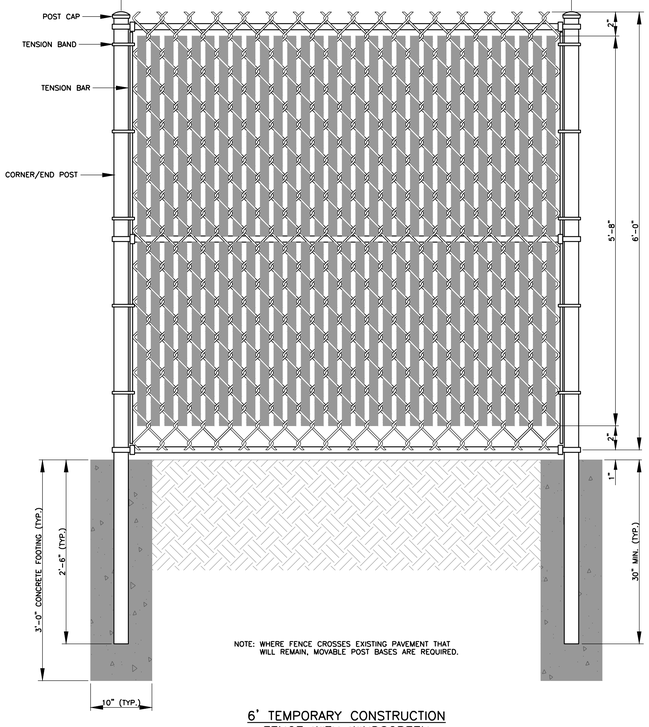
N.T.S.



NOTE: SURFACE TEXTURE OF THE RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING. TRANVERSE TO THE SLOPE OF THE RAMP.

ACCESSIBLE RAMP IN SIDEWALK

N.T.S.



NOTE: WHERE FENCE CROSSES EXISTING PAVEMENT THAT WILL REMAIN, MOVABLE POST BASES ARE REQUIRED.

6' TEMPORARY CONSTRUCTION FENCE WITH WINDSCREEN

N.T.S.

DEAN ARCHITECTURE
GEDDIE | GRANT | OUBRE
661 Sunnybrook, Ste 140
Ridgeland, MS 39157
601.939.7717
deandean.com

NICHOLAS R. COSTA — 34529 — STATE OF MISSISSIPPI

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Revisions: 10.09.25 ADDENDUM No. 2

THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:

C105

SITE IMPROVEMENT DETAILS

McMASTER & ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
212 WATERFORD SQUARE
SUITE 300
MADISON, MS 39110
601.605.1090

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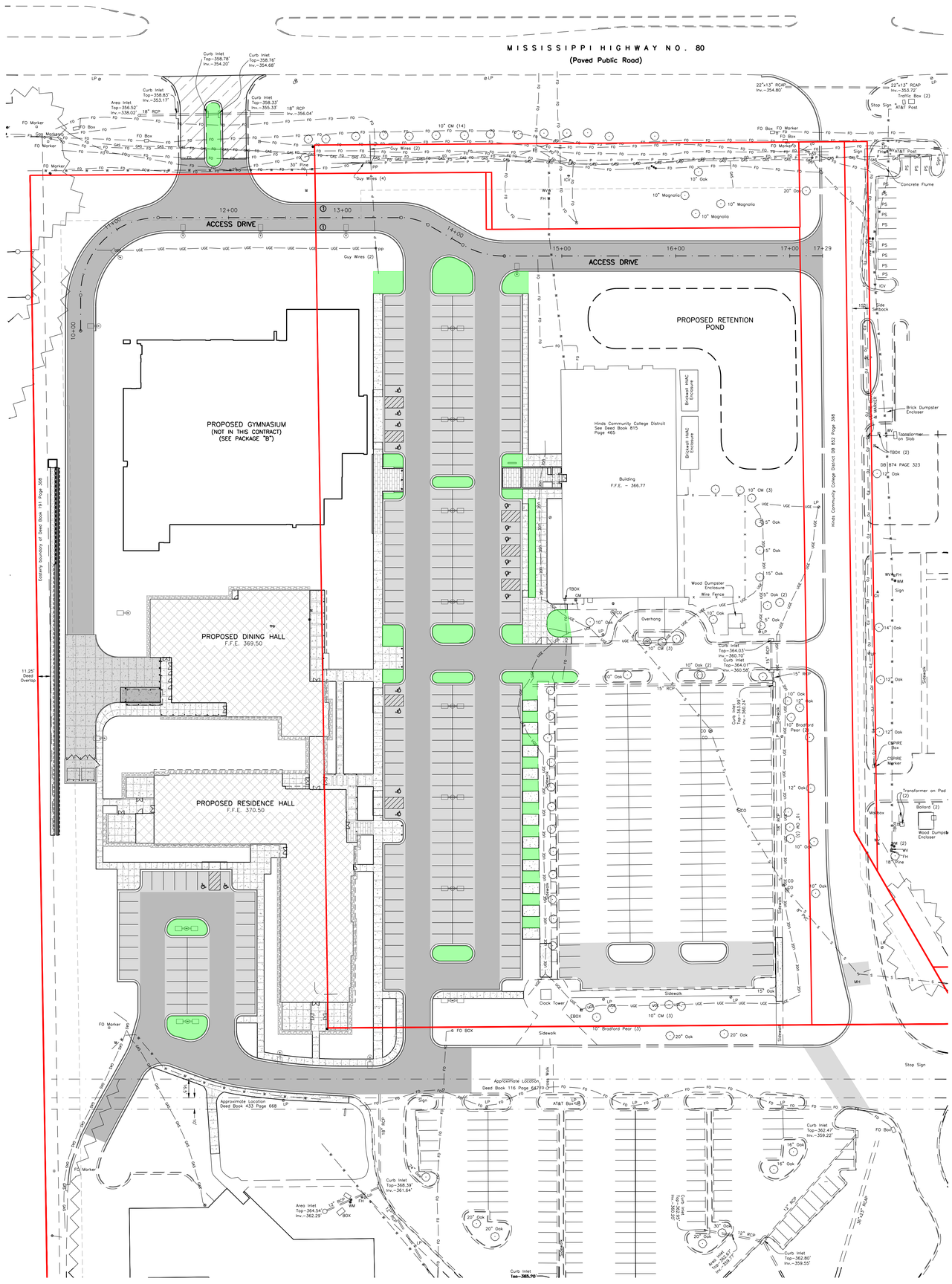
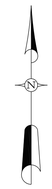
THE COMMONS - PACKAGE A
PEARL, MS
24053





40 0 40 80

SCALE: 1"=40'

EXISTING LEGEND

RCP	REINFORCED CONCRETE PIPE
EBOX	ELECTRIC/POWER BOX
FO	FIBER OPTIC/COMMUNICATION BOX
MH	EXISTING MANHOLE
LP	LIGHT POLE
WM	WATER METER
WV	WATER VALVE
FH	FIRE HYDRANT
WS	WATER SERVICE
ICV	IRRIGATION CONTROL VALVE
TBM	TEMPORARY BENCH MARK
SIR	SET IRON REBAR (1/2"x18")
FIR	FOUND IRON REBAR (1/2" UNLESS OTHERWISE NOTED)
W — W	EXISTING WATER LINE
P — P	EXISTING OVERHEAD POWERLINE
S — S	EXISTING SANITARY SEWER LINE
GAS — GAS	EXISTING SANITARY SEWER FORCE MAIN
FO — FO	EXISTING FIBER OPTIC CABLE
UGE — UGE	EXISTING UNDERGROUND ELECTRIC CABLE
	EXISTING WOOD FENCE
X — X	EXISTING WIRE FENCE
	EXISTING CHAINLINK FENCE

SITEWORK LEGEND

- PROPOSED BUILDING
- PROPOSED CONCRETE AREAS
- PROPOSED LIGHT-DUTY ASPHALT PAVEMENT
- PROPOSED HEAVY-DUTY ASPHALT PAVEMENT
- PROPOSED HEAVY-DUTY CONCRETE PAVEMENT
- CONCRETE PAD FOR TRASH COMPACTOR (SEE DETAIL)
- PROPOSED 2" ASPHALT OVERLAY
- PROPOSED BRICK PAVER (SEE ARCHITECTURE PLANS)

NOTE:

1. THE AREAS SHOWN IN GREEN ON THIS SHEET WILL BE LANDSCAPED AND SHOULD BE INCLUDED IN THE LANDSCAPING ALLOWANCE. ALL OTHER OPEN AREAS WITH IN THE CONSTRUCTION LIMITS SHALL BE TEMPORARY SEEDED TEMPORARILY SEEDED FOR EROSION CONTROL AND THEN PERMANENTLY SODDED BEFORE FINAL ACCEPTANCE OF THE PROJECT.

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NICHOLAS E. COSTA
34529
STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

Project No.: 24053
Date: September 18, 2025
Drawn: N.S.G.
Checked: R.C.M.
Revisions: 10.09.25 ADDENDUM No. 2

THE COMMONS - PACKAGE A
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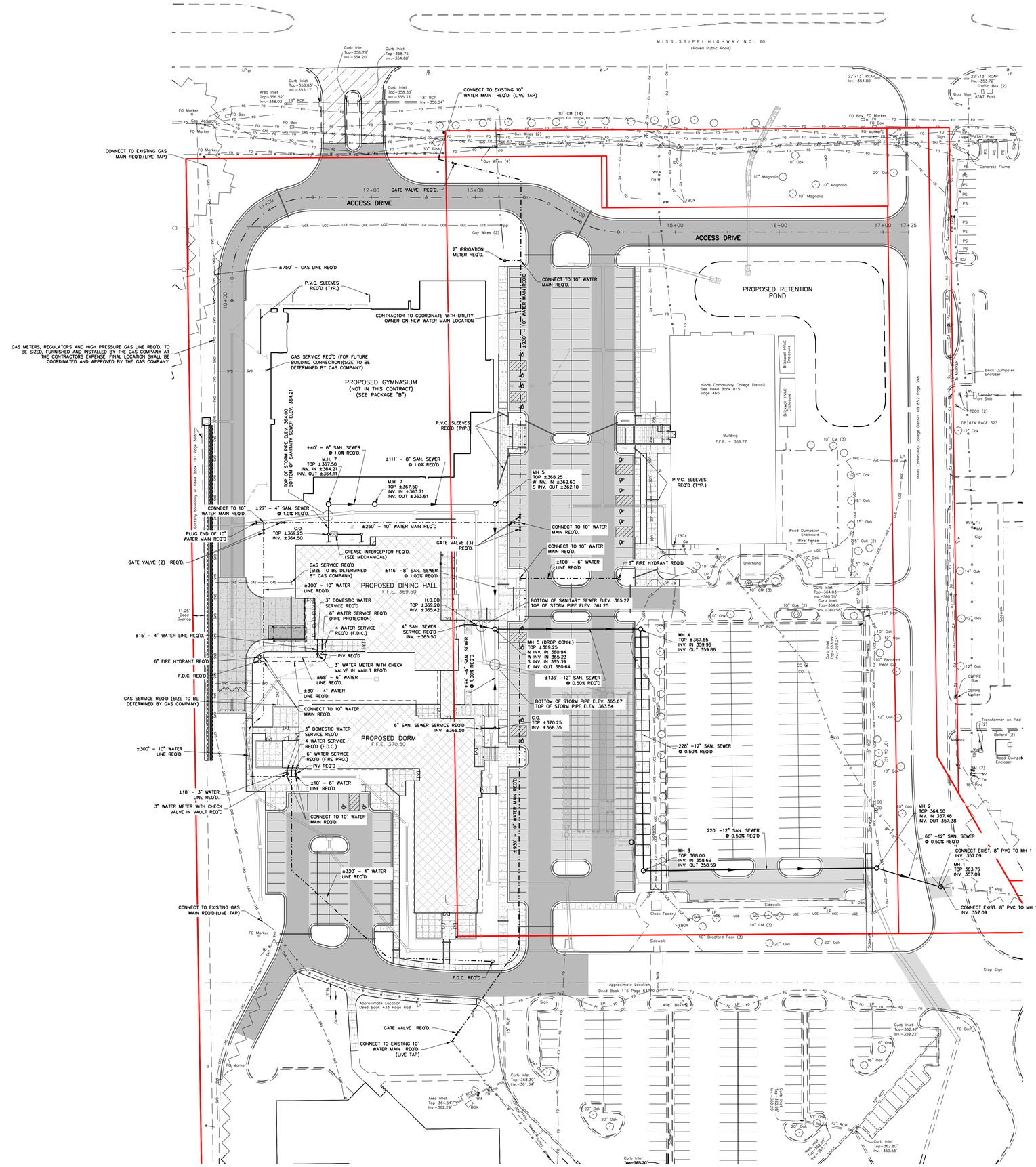
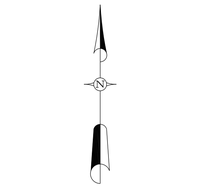
Sheet Number:

C106

SITE LANDSCAPING





EXISTING LEGEND

RCP	REINFORCED CONCRETE PIPE
E EBOX	ELECTRIC/POWER BOX
FO FO	FIBER OPTIC/COMMUNICATION BOX
S MH	EXISTING MANHOLE
LP	LIGHT POLE
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WV	WATER VALVE
FH	FIRE HYDRANT
WS	WATER SERVICE
ICV	IRRIGATION CONTROL VALVE
TBM	TEMPORARY BENCH MARK
SIR	SET IRON REBAR (1/2"X18")
FIR	FOUND IRON REBAR (1/2" UNLESS OTHERWISE NOTED)
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	EXISTING WOOD FENCE
X — X	EXISTING WIRE FENCE
	EXISTING CHAINLINK FENCE
	PROPOSED WATER LINE
	PROPOSED SANITARY SEWER LINE
GAS — GAS	PROPOSED GAS LINE

SITEWORK LEGEND

- PROPOSED BUILDING
- PROPOSED CONCRETE AREAS
- PROPOSED LIGHT–DUTY ASPHALT PAVEMENT
- PROPOSED HEAVY–DUTY ASPHALT PAVEMENT
- PROPOSED HEAVY–DUTY ASPHALT PAVEMENT
- PROPOSED 2" ASPHALT OVERLAY

NOTES:
1. ALL P.V.C. SLEEVES SHALL BE 2–4" SCH. 40 (SIDE BY SIDE) AND SHALL INCLUDE END CAPS, PULL STRINGS, AND THE ENDS MARKED WITH A 6' METAL FENCE POST.
2. ROUTE PROPOSED UTILITIES TO AVOID CONFLICTS WITH EXISTING AND PROPOSED IMPROVEMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL TAP AND METER FEES FOR UTILITIES.
4. SEE PLUMBING FOR CONTINUATION OF WATER, SANITARY SEWER, AND GAS CONNECTIONS AT THE PROPOSED BUILDING.
5. THE OWNER/CONTRACTOR SHALL COORDINATE WITH GAS, COMMUNICATIONS AND ELECTRICAL PROVIDERS TO BRING SERVICES TO THE PROPOSED BUILDING.
6. ALL FIRE SPRINKLED BUILDINGS SHALL HAVE THE FIRE DEPARTMENT CONNECTIONS LOCATED ON THE STREET SIDE OF THE BUILDINGS.
7. LOCATIONS OF FIRE HYDRANTS, POST INDICATOR VALVES, AND FIDE DEPARTMENT CONNECTIONS SHALL BE APPROVED BY THE CITY OF PEARL FIRE DEPARTMENT AND PUBLIC WORKS PRIOR INSTALLATION.

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Sheet Number:
C301
UTILITY PLAN

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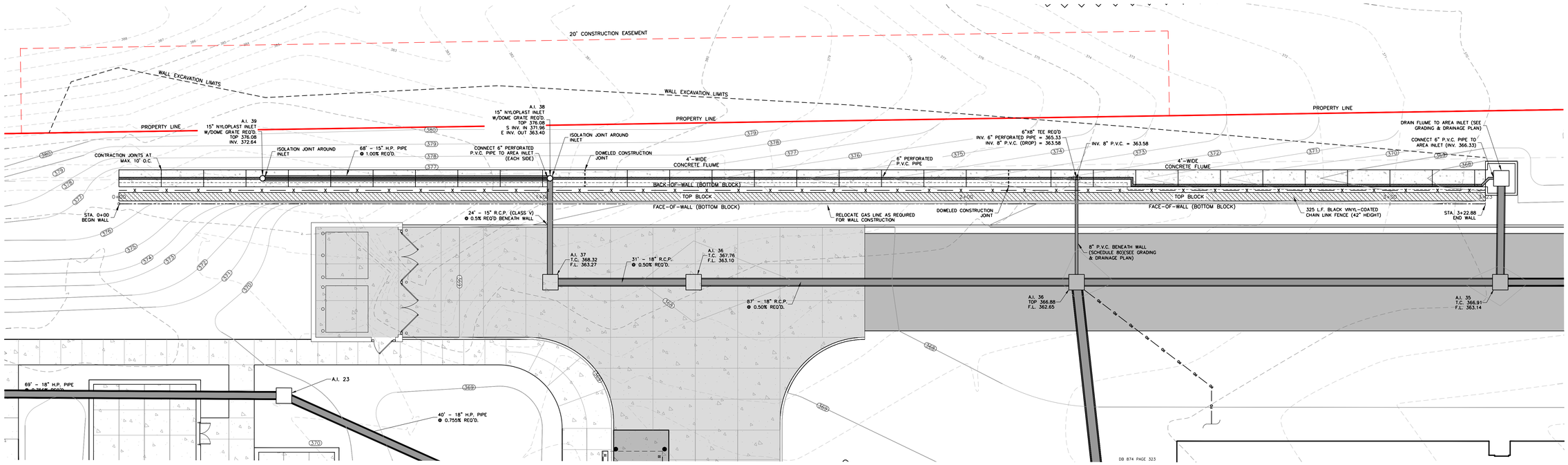

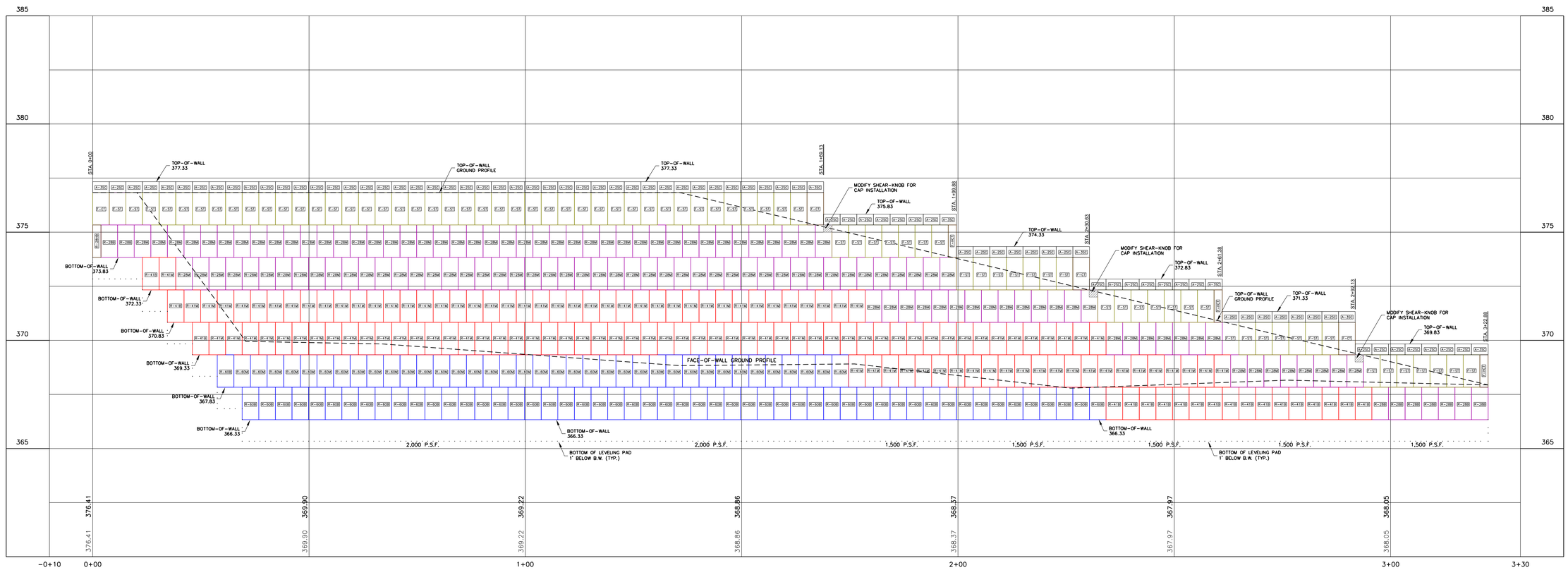

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PEARL, MS
24053

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Sheet Number:
C501
WALL PLAN/PROFILE

1.0 CONSTRUCTION OBSERVATION & TESTING

1.1 CONTRACTOR SHALL EMPLOY THE SERVICES OF A THIRD-PARTY CONSTRUCTION ENGINEER AND GEOTECHNICAL ENGINEER/QUALIFIED MATERIALS TESTING FIRM TO PROVIDE ALL TESTING AND INSPECTION REQUIRED FOR WALL INSTALLATION AND CONSTRUCTION.

1.2 CONSTRUCTION OBSERVATION OF THE REDI-ROCK RETAINING WALL(S) SHALL BE PERFORMED BY A DESIGNATED CONSTRUCTION ENGINEER. THE CONSTRUCTION ENGINEER SHALL BE A LICENSED PROFESSIONAL ENGINEER EMPLOYED BY AN ENGINEERING FIRM DULY LICENSED AND AUTHORIZED TO PRACTICE WITHIN THE JURISDICTION OF THE PROJECT LOCATION.

1.3 THE CONSTRUCTION ENGINEER MAY DESIGNATE AN ONSITE REPRESENTATIVE TO PERFORM CONSTRUCTION OBSERVATION. THE ENGINEER'S ONSITE REPRESENTATIVE SHALL BE AN EMPLOYEE OF THE SAME ENGINEERING FIRM AS THE CONSTRUCTION ENGINEER. THE ONSITE REPRESENTATIVE SHALL HAVE ADEQUATE KNOWLEDGE OF THE PROJECT, GENERAL KNOWLEDGE OF THE LOCAL GEOLOGY AND BE FAMILIAR WITH THE PROJECT RETAINING WALL CONSTRUCTION PLANS AS WELL AS THE ACCEPTED MEANS AND METHODS OF PRECAST MODULAR BLOCK RETAINING WALL AND MECHANICALLY STABILIZED EARTH RETAINING WALLS.

1.4 THE CONSTRUCTION ENGINEER SHALL SUPERVISE AND DIRECT THE ACTIVITIES OF THE ONSITE REPRESENTATIVE.

1.5 THE ROLE OF THE CONSTRUCTION ENGINEER AND/OR ONSITE REPRESENTATIVE IS TO OBSERVE CONSTRUCTION ACTIVITIES TO HELP ENSURE THE PROJECT IS CONSTRUCTED WITHIN REASONABLE CONFORMITY WITH THE PROJECT PLANS AND SPECIFICATIONS.

1.6 CONSTRUCTION OBSERVATION BY THE CONSTRUCTION ENGINEER AND/OR ONSITE REPRESENTATIVE SHALL NOT WARRANT PROJECT APPROVAL (IN PART OR IN WHOLE) AND SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH FINAL PLANS AND/OR CONTRACT DOCUMENTS.

1.7 THE CONSTRUCTION ENGINEER AND/OR ONSITE REPRESENTATIVE SHALL NOT DIRECT THE CONTRACTOR IN REGARDS TO CONSTRUCTION MEANS AND METHODS.

2.0 MATERIALS

2.1 FOUNDATION SOIL

2.1.1 ASSUMPTIONS HAVE BEEN MADE REGARDING THE SHEAR STRENGTH OF FOUNDATION SOIL. THE ASSUMPTIONS ARE BASED ON THE GEOTECHNICAL EXPLORATION BY BURNS COOLEY DENNIS. THE EFFECTIVE SHEAR STRENGTH PARAMETERS OF THE FOUNDATION SOIL ASSUMED FOR THE DESIGN ARE AS FOLLOWS:
LOOSE TAN FINE SAND (SP): $\Phi' = 32°$, $C' = 0$ PSF, $\gamma' = 120$ PCF

2.2 RETAINED SOIL

2.2.1 IN-SITU (UNDISTURBED) SOIL IN THE RETAINED ZONE BEHIND EACH WALL SHALL EXHIBIT THE MINIMUM SHEAR STRENGTH PARAMETERS LISTED BELOW.
LOOSE TAN FINE SAND (SP): $\Phi' = 32°$, $C' = 0$ PSF, $\gamma' = 120$ PCF

2.2.2 FILL SOIL IN THE RETAINED ZONE BEHIND THE WALL SHALL EXHIBIT THE MINIMUM SHEAR STRENGTH PARAMETERS LISTED BELOW.

CLEAN SAND (SP): $\Phi' = 34°$, $C' = 0$ PSF, $\gamma' = 120$ PCF

2.2.3 THE RETAINED ZONE IS ASSUMED TO EXTEND TO A DISTANCE BEHIND THE FACE OF THE RETAINING WALL THAT IS A MINIMUM OF 3 TIMES THE WALL HEIGHT.

2.3.1 THE PRECAST MODULAR BLOCK RETAINING WALL SYSTEM SHALL BE COMPRISED OF REDI-ROCK BLOCK UNITS MANUFACTURED BY REDI-ROCK DSP.

2.3.2 THE RETAINING WALL BLOCK UNIT MANUFACTURER SHALL REMAIN CONSISTENT FOR THE ENTIRE PROJECT. ANY SUBSTITUTION OF REDI-ROCK BLOCK UNITS FROM A DIFFERENT MANUFACTURER AT ANY TIME DURING THE CONSTRUCTION OF THE RETAINING WALL(S) MUST BE APPROVED IN ADVANCE. ANY SUCH BLOCKS INCORPORATED INTO THE WORK WITHOUT PRIOR APPROVAL SHALL BE REMOVED AT THE CONTRACTORS EXPENSE.

2.3.3 THE PRECAST MODULAR BLOCK RETAINING WALL UNITS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C1776, BE 18 INCHES IN HEIGHT, 46-1/8 INCHES IN LENGTH AND 28, 41 OR 60 INCHES IN WIDTH AS INDICATED ON THE PROJECT PLANS. THE PMB BLOCK UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 PSI AND BE FREE OF CHIPS, CRACKS OR OTHER PHYSICAL DEFECT THAT WOULD INTERFERE WITH THE PROPER PLACEMENT OF THE UNIT OR THAT MAY IMPAIR THE STRENGTH OR SUCCESSFUL PERFORMANCE OF THE CONSTRUCTED WALL. THE HEIGHT OF THE PRECAST MODULAR BLOCK RETAINING WALL UNITS SHALL NOT DIFFER MORE THAN 3/16 INCH (+/-) AND LENGTH AND WIDTH SHALL NOT DIFFER MORE THAN 1/2" (+/-) FROM THE PUBLISHED DIMENSIONS IN THE MANUFACTURER'S LITERATURE.

2.3.4 THE COLOR OF THE PRECAST MODULAR BLOCK RETAINING WALL UNITS SHALL BE DETERMINED BY THE OWNER/ARCHITECT.

2.3.5 THE FACE SURFACE TEXTURE OF THE PRECAST MODULAR BLOCK UNITS SHALL BE DETERMINED BY THE OWNER/ARCHITECT.

2.4 GEOTEXTILE FABRIC

2.4.1 THE TYPE A GEOTEXTILE FABRIC SHALL BE A NOMINAL 4 OZ. NONWOVEN POLYPROPYLENE FABRIC EXHIBITING THE FOLLOWING PHYSICAL PROPERTIES.

PROPERTY	PROPERTY	MARV
GRAB TENSILE/ELONGATION	ATSM D4632	120 LBS./50%
CBR PUNCTURE RESISTANCE	ATSM D6241	310 LBS.
TRAPEZOIDAL TEAR	ATSM D4533	50 LBS.
FLOW RATE	ATSM D4491	120 GAL./MIN./S.F.
AOS	ATSM D4751	NO. 70 US SIEVE

APPROVED MATERIALS INCLUDE TENCATE MIRAFI 140N, PROPEX GEOTEX 401 OR APPROVED EQUAL.

2.4.2 THE TYPE B GEOTEXTILE FABRIC SHALL BE A NOMINAL 6 OZ. NONWOVEN POLYPROPELENE FABRIC EXHIBITING THE FOLLOWING PHYSICAL PROPERTIES.

PROPERTY	PROPERTY	MARV
GRAB TENSILE/ELONGATION	ATSM D4632	120 LBS./50%
CBR PUNCTURE RESISTANCE	ATSM D6241	310 LBS.
TRAPEZOIDAL TEAR	ATSM D4533	50 LBS.
FLOW RATE	ATSM D4491	120 GAL./MIN./S.F.
AOS	ATSM D4751	NO. 70 US SIEVE

APPROVED MATERIALS INCLUDE TENCATE MIRAFI 140N, PROPEX GEOTEX 401 OR APPROVED EQUAL.

2.5 DRAINAGE FILL

2.5.1 DRAINAGE FILL SHALL BE A DURABLE, CRUSHED STONE MEETING THE REQUIREMENTS OF ASTM C33 FOR SIZE NO. 57 PER THE FOLLOWING GRADATION:

SIEVE SIZE	%PASSING
1-1/2 INCH	100
1 INCH	95-100
1/2 INCH	25-60
NO.4	0-10
NO.8	0-5

2.5.2 COMPACTED DRAINAGE FILL SHALL EXHIBIT MINIMUM SHEAR STRENGTH PARAMETERS AS FOLLOWS:

INTERNAL FRICTION ANGLE, $\Phi' = 40°$,
EFFECTIVE COHESION, $C' = 0$ PSF,
UNIT WEIGHT $\gamma' = 125$ PCF

2.6.1 THE LEVELING PAD SHALL BE CONSTRUCTED WITH DURABLE, CRUSHED STONE.

2.6.2 CRUSHED STONE FOR USE IN THE LEVELING PAD SHALL MEET THE GRADATION FOR DRAINAGE FILL IN 2.5 ABOVE OR SATISFY ASTM D2487 CRITERIA FOR CLASSIFICATION AS GW OR GP AND THE FOLLOWING GRADATION PER ASTM D422:

SIEVE SIZE	%PASSING
2 INCH	100
1 INCH	70-100
1/2 INCH	50-90
MIN.4	30-60
NO.200	0-15

2.6.3 COMPACTED CRUSHED STONE LEVELING PAD SHALL EXHIBIT MINIMUM SHEAR STRENGTH PARAMETERS AS FOLLOWS:

INTERNAL FRICTION ANGLE, $\Phi' = 40°$,
EFFECTIVE COHESION, $C' = 0$ PSF,
UNIT WEIGHT $\gamma' = 125$ PCF

2.7 COLLECTION DRAIN SYSTEM

2.7.1 COLLECTION DRAIN PIPE SHALL BE 6-INCH DIAMETER, 3-HOLE PERFORATED/SLOTTED HDPE OR PVC PIPE WITH A SMOOTH INTERIOR AND A MINIMUM PIPE STIFFNESS OF 22 PSI PER ASTM D2412.

2.7.2 COLLECTION DRAIN PIPES, OUTLET PIPES AND FITTINGS SHALL ALL BE MADE BY THE SAME MANUFACTURER. OUTLET PIPES SHALL BE FURNISHED WITHOUT PERFORATIONS/SLOTS.

3.0 EXCAVATION AND FOUNDATION PREPARATION

3.1 THE CONTRACTOR SHALL EXCAVATE TO THE LINES AND GRADES AND DIMENSIONS AS INDICATED ON CONSTRUCTION PLANS. EXCAVATIONS FOR CONSTRUCTION OF RETAINING WALLS SHALL CONFORM TO OSHA REQUIREMENTS FOR SAFE EXCAVATIONS AND GEOTECHNICAL RECOMMENDATIONS.

3.2 BEFORE WALL CONSTRUCTION BEGINS, THE CONTRACTOR SHALL CLEAR AND GRUB THE RETAINED SOIL ZONE AND REMOVE TOPSOIL, BRUSH, AND ORGANIC MATERIAL.

3.3 THE CONSTRUCTION ENGINEER AND/OR ONSITE REPRESENTATIVE SHALL VISUALLY INSEPCT THE FOUNDATION SOIL ZONE PRIOR TO PLACEMENT OF THE BLOCK LEVELING PAD FOR GENERAL COMPLIANCE WITH THE PROJECT PLANS/SPECIFICATIONS.

3.4 FOUNDATION SOILS SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM STANDARD DRY PROCTOR DENSITY, WITHIN +/- 3% OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. A MINIMUM OF TWO (2) FIELD-DENSITY TESTS SHALL BE PERFORMED PER 100 L.F. OF WALL TO VERIFY COMPACTION.

3.5 GEOTECHNICAL ENGINEER/MATERIALS TESTING FIRM SHALL VERIFY FOUNDATION SOILS SATISFY REQUIRED BEARING CAPACITY PRIOR TO INSTALLATION OF LEVELING PAD.

3.6 SHOULD UNSUITABLE SOILS BE ENCOUNTERED DURING WALL EXCAVATION, CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTRUCTION ENGINEER OR CONSTRUCTION ENGINEER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK.

3.7 CONTRATCTOR SHALL REMOVE UNSUITABLE SOILS TO THE LIMITS DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER AND BACKFILLED WITH SUITABLE FILL MATERIAL.

3.8 OVER-EXCAVATION BEHIND THE RETAINING WALL SHALL SHALL CONFORM TO OSHA REQUIREMENTS FOR SAFE EXCAVATION, AND GEOTECHNICAL RECOMMENDATIONS.

3.9 THE COST OF OVER-EXCAVATION AND PLACEMENT OF SUITABLE FILL MATERIALS SHALL BE APPROVED BY OWNER'S WRITTEN CHANGE ORDER PRIOR TO COMMENCEMENT OF WORK.

3.10 DISTURBANCE OF SOILS OUTSIDE THE LIMITS OF EXCAVATION SHALL BE AVOIDED. COSTS ASSOCIATED WITH DISTURBANCE OR EXCAVATION OF SOILS BEYOND THE LIMITS OF EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

4.0 LEVELING PAD PREPARATION

4.1 THE LEVELING PAD SHALL BE CONSTRUCTED SO AS TO PROVIDE A LEVEL, HARD SURFACE UPON WHICH TO PLACE THE FIRST COURSE OF PMB UNITS.

4.2 THE LEVELING PAD SHALL EXTEND AT LEAST 12 INCHES BEYOND THE FRONT AND 18 INCHES BEYOND THE BACK OF THE BASE RETAINING WALL UNIT.

4.3 IF CRUSHED STONE IS USED TO CONSTRUCT THE LEVELING PAD, IT SHALL BE COMPACTED WITH A MINIMUM OF THREE (3) PASSES OF A VIBRATORY COMPACTOR CAPABLE OF EXERTING 3,000 LBS. OF CENTRIFUGAL FORCE AND TO THE SATISFACTION OF THE CONSTRUCTION ENGINEER.

4.4 THE FIRST COURSE OF PMB UNITS SHALL BE PLACED IN FULL CONTACT WITH THE LEVELING PAD.

5.0 WALL SYSTEM CONSTRUCTION

5.1 THE FIRST COURSE OF BLOCK UNITS SHALL BE PLACED WITH THE FRONT FACE EDGES TIGHTLY ABUTTED TOGETHER ON THE PREPARED LEVELING PAD AT THE LOCATIONS AND ELEVATIONS SHOWN ON THE APPROVED CONSTRUCTION SHOP DRAWINGS. NO GAP GREATER THAN 1/4 INCH SHALL BE PERMITTED BETWEEN HORIZONTALLY ADJACENT BLOCK UNITS. THE WALL CONTRACTOR SHALL TAKE SPECIAL CARE TO ENSURE THAT THE BOTTOM COURSE OF BLOCK UNITS ARE IN FULL CONTACT WITH THE LEVELING PAD, ARE SET LEVEL AND TRUE AND ARE PROPERLY ALIGNED ACCORDING TO THE LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS.

5.2 SOIL FILL SHALL BE PLACED AND COMPACTED IN FRONT OF THE BOTTOM COURSES OF THE WALL PRIOR TO PLACEMENT OF THE THIRD SUCCESSIVE BLOCK COURSE. TYPE "A" NONWOVEN GEOTEXTILE FABRIC SHALL BE PLACED IN THE V-SHAPED JOINTS BETWEEN ADJACENT BLOCKS. DRAINAGE FILL SHALL BE PLACED IN THE V-SHAPED JOINTS BETWEEN ADJACENT BLOCKS TO A MINIMUM DISTANCE OF 18 INCHES BEHIND THE BLOCK UNIT.

5.3 DRAINAGE FILL PLACED BEHIND THE WALL BLOCK SHALL BE PLACED IN MAXIMUM 9 INCH LIFTS AND COMPACTED BY A MINIMUM OF THREE (3) PASSES OF A VIBRATORY PLATE COMPACTOR CAPABLE EXERTING A MINIMUM OF 3,000 LBS. OF CENTRIFUGAL FORCE. EACH BLOCK COURSE SHALL BE BACKFILLED PRIOR TO PLACEMENT OF SUBSEQUENT COURSE.

5.4 STRUCTURAL WALL BACKFILL PLACED IN THE RETAINED ZONE SHALL BE PLACED IN MAXIMUM 9 INCH LOOSE LIFTS AND COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY, WITHIN 3% OF THE OPTIMUM MOISTURE CONTENT. EACH BLOCK COURSE SHALL BE BACKFILLED PRIOR TO PLACEMENT OF SUBSEQUENT COURSE.

5.5 NO HEAVY COMPACTION EQUIPMENT SHALL BE OPERATED WITHIN 15 FT OF BACK OF WALL, OR WITHIN 3 FEET OF WALL FACE.

5.6 DRAINAGE FILL SHALL BE PLACED AS UNIT/CORE FILL IN THE REDI-ROCK UNIT VERTICAL CORE SLOT AND BETWEEN HORIZONTALLY ADJACENT BLOCK UNITS. THE DRAINAGE FILL SHALL COMPLETELY FILL THE SLOT TO THE LEVEL OF THE TOP OF THE BLOCK UNIT. THE TOP OF THE BLOCK UNIT SHALL BE BROOM-CLEANED PRIOR TO PLACEMENT OF SUBSEQUENT BLOCK COURSES. NO ADDITIONAL COURSES OF BLOCKS MAY BE STACKED BEFORE THE UNIT/CORE FILL IS INSTALLED IN THE BLOCKS ON THE COURSE BELOW. NO MECHANIZED COMPACTION OF THE UNIT CORE FILL IS PERMITTED.

5.7 TOP BLOCKS AND HALF BLOCK UNITS MAY BE FURNISHED WITHOUT VERTICAL CORE HOWEVER, VERTICAL CORE SLOTS IN ALL BLOCKS MUST BE FILLED WITH DRAINAGE AGGREGATE AS DESCRIBED IN 5.4.

5.8 PLACE GEOTEXTILE FABRIC AS REQUIRED ON THE RETAINING WALL CONSTRUCTION DRAWINGS.

5.9 SUBSEQUENT COURSES OF BLOCK UNITS SHALL BE INSTALLED WITH A RUNNING BOND (HALF BLOCK HORIZONTAL COURSE-TO-COURSE OFFSET). WITH THE EXCEPTION OF 90 DEGREE CORNER UNITS AND VERTICAL SLIP JOINTS, THE SHEAR CHANNEL OF THE UPPER BLOCK SHALL BE FULLY ENGAGED WITH THE SHEAR KNOBS OF THE BLOCK COURSE BELOW. THE CONTRACTOR MAY FIELD ADJUST THE HORIZONTAL BLOCK LOCATION TO ENSURE CONSISTENT FACE BATTER AND WALL ALIGNMENT THAT RESULTS IN LESS THAN 100% FULL ENGAGEMENT OF THE BLOCK-TO-BLOCK SHEAR KNOB AND CHANNEL ELEMENTS. HOWEVER, NO GAP BETWEEN THE SHEAR KNOB AND THE SHEAR CHANNEL OF SUCCESSIVE BLOCK COURSES SHALL BE GREATER THAN 1/2 INCH. DRAINAGE FILL, UNIT CORE FILL, AND GEOTEXTILE SHALL BE COMPLETE FOR EACH COURSE OF BLOCK UNITS BEFORE THE NEXT COURSE OF BLOCKS ARE PLACED.

5.10 ASPHALT ROOFING SHINGLES, ROLLED ROOFING OR 1/8 INCH SOLID BRAID NYLON ROPE MAY BE USED AS SHIMMING MATERIAL BETWEEN VERTICAL COURSES OF BLOCK UNITS TO PROVIDE ELEVATION ADJUSTMENT IN ORDER TO MAINTAIN FACE BATTER AND UNIFORM BLOCK COURSE ELEVATION. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO FULLY AND EQUALLY SUPPORT A "SHIMMED" BLOCK UNIT TO PREVENT POINT LOAD CONCENTRATIONS THAT MAY CAUSE BLOCK CRACKING.

6.0 BACKFILL COMPACTION AND INSPECTION

6.1 THE CONSTRUCTION ENGINEER SHALL OBSERVE AND DOCUMENT COMPACTION OF DRAINAGE FILL/STRUCTURAL WALL BACKFILL PLACED ADJACENT TO THE RETAINING WALL. RECORDS SHALL DOCUMENT THE FOLLOWING: LOCATION, LIMITS, AND AREAS OF INSTALLED BACKFILL MATERIAL, LIFT THICKNESSES AND ELEVATIONS, COMPACTIVE EFFORTS, AND LOCATIONS AND RESULTS OF FIELD DENSITY TESTS. LOCATIONS OF FIELD DENSITY TESTS SHALL INCLUDE WALL STATION, LIFT NO., ELEVATION, AND DISTANCE FROM WALL FACE.

6.2 SUITABLE FILL SOIL PLACED IN THE RETAINED SOIL ZONE, AND IN FRONT OF THE BLOCK UNITS SHALL BE PLACED IN 9-INCH MAXIMUM LOOSE LIFTS AND COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM STANDARD DRY PROCTOR DENSITY, WITHIN +/- 3% OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. THE COMPACTED DENSITY AND MOISTURE CONTENT OF THE RETAINED SOIL FILL SHALL BE TESTED/OBSERVED AT THE FOLLOWING MINIMUM FREQUENCY:

6.2.1 AT LEAST ONCE PER EVERY 500 SQUARE FEET OF PLAN AREA PER VERTICAL LIFT AND AT LEAST ONCE PER EVERY 1 FEET OF VERTICAL SOIL FILL PLACED.

6.2.2 THE CONTRACTOR SHALL PROVIDE A TESTING SCHEDULE TO ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. TESTING SCHEDULE SHALL IDENTIFY ALL REQUIRED TESTING FOR WALL CONSTRUCTION, INCLUDING LOCATION AND QUANTITY OF FIELD-DENSITY TESTS REQUIRED FOR INSTALLATION OF WALL BACKFILL MATERIALS. TESTING SCHEDULE SHALL BE COORDINATED AND APPROVED BY GEOTECHNICAL ENGINEER /MATERIALS TESTING FIRM PRIOR TO SUBMISSION TO ENGINEER.

6.3 THE CONTRACTOR SHALL PROVIDE TEST REPORTS TO CONSTRUCTION ENGINEER ON A DAILY BASIS. EACH TEST REPORT SHALL INCLUDE THE WALL NUMBER, TYPE OF MATERIAL PLACED, BEGIN AND END OF WALL STATION, APPROXIMATE PLAN AREA OF FILL PLACEMENT, AND APPROXIMATE ELEVATION/NUMBER OF FILL LIFT.

6.4 THE CONSTRUCTION ENGINEER SHALL VISUALLY OBSERVE AND DOCUMENT THE COMPACTION METHODS EMPLOYED BY THE CONTRACTOR IN THE PLACEMENT OF THE DRAINAGE FILL/STRUCTURAL WALL BACKFILL MATERIALS FOR CONSISTENCY WITH THE REQUIREMENTS OF THIS SPECIFICATION.

6.4.1 WRITTEN DOCUMENTATION OF VISUAL OBSERVATION OF COMPACTION BY THE CONSTRUCTION ENGINEER (OR ONSITE REPRESENTATIVE) SHALL INCLUDE THE WALL NUMBER, TYPE OF MATERIAL PLACED, BEGIN AND END WALL STATION OF SECTION OBSERVED , APPROXIMATE PLAN AREA OF FILL PLACEMENT OBSERVED AND APPROXIMATE ELEVATION OF COMPACTED FILL LIFT OBSERVED.

7.0 DRAINAGE AND EROSION PROTECTION

7.1 AT THE END OF EACH WORK DAY, THE WALL CONTRACTOR SHALL ENSURE THAT THE GRADE OF THE SURFACE OF THE COMPACTED RETAINING WALL BACKFILL WILL NOT PERMIT SURFACE WATER RUN-OFF TO FLOW TOWARD THE RETAINING WALL FACE AND OVERTOP THE RETAINING WALL CREST.

7.2 DURING SITE CONSTRUCTION, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF THE RETAINING WALL AGAINST SURFACE WATER AT ALL TIMES BY THE USE OF BERMS, DIVERSION DITCHES, TEMPORARY DRAINS, AND ALL OTHER MEANS NECESSARY.

7.3 WATER SHALL NOT BE PERMITTED TO POND BEHIND THE RETAINING WALL AT ANYTIME.

7.4 ALL SLOPES ABOVE OR BELOW THE WALL SHALL BE VEGETATED AND PROTECTED FROM EROSION IMMEDIATELY FOLLOWING CONSTRUCTION. RETAINING WALL SECTIONS WITH SOIL SLOPES ABOVE THE WALL CREST STEEPER THAN 8H:1V SHALL HAVE SILT FENCE INSTALLED 4 FEET BEHIND THE WALL FACE TO PREVENT SURFACE WATER RUN-OFF FROM SOIL STAINING THE WALL FACE. THE GENERAL CONTRACTOR SHALL MAINTAIN THE SILT FENCE UNTIL ADEQUATE VEGETATION CAN BE ESTABLISHED TO PREVENT SURFACE EROSION OF THE SOIL IN THE CREST SLOPE.

8.0 DESIGN PAREMETERS:

8.1 EXTERNAL STABILITY

MINIMUM F.S. AGAINST BASE SLIDING	=1.5
MINIMUM F.S. AGAINST OVERTURNING	=1.5
MINIMUM F.S. FOR GLOBAL STABILITY	=1.5

8.2 UNIFORM SURCHARGE =250 P.S.F.

8.3 REQUIRED BEARING CAPACITY =2,000 P.S.F.

9.0 SPECIAL PROVISIONS:

9.1 MCMASTER & ASSOCIATES (MMA) ASSUMES NO LIABILITY FOR INTERPRETATIONS OF SUBSURFACE CONDITIONS, SUITABILITY OF SOIL PARAMETERS, AND SUBSURFACE GROUNDWATER CONDITIONS. THE WALL CONTRACTOR AND/OR GEOTECHNICAL ENGINEER IS RESPONSIBLE FOR REVIEWING AND VERIFYING THAT CONDITIONS DESCRIBE HEREIN ARE ACCURATE PRIOR TO AND DURING CONSTRUCTION.

9.2 THE WALL CONTRACTOR AND/OR OWNER IS RESPONSIBLE FOR HAVING SUPERVISION OF ALL PHASES OF CONSTRUCTION BY A QUALIFIED ENGINEER.

9.3 MMA HAS NOT EVALUATED SETTLEMENT. THE OWNER MUST INVESTIGATE AND EVALUATE THE IMPACT OF ANY AND ALL SETTLEMENT PRIOR TO CONSTRUCTION OF BUILDINGS AND SITE IMPROVEMENTS IN CLOSE PROXIMITY OF RETAINING WALL. MMA IS NOT RESPONSIBLE FOR ADVERSE IMPACTS TO BUILDINGS AND/OR SITE IMPROVEMENTS DUE TO SHORT-TERM SETTLEMENT CAUSED BY SURCHARGE LOAD OR SETTLEMENT WITHIN OR BELOW THE EARTH SOIL MASS.

9.4 A COPY OF THESE DRAWINGS SHALL BE PROVIDED TO THE OWNER (AND FUTURE OWNERS) TO PROVIDE THEM WITH A RECORD OF THE LOCATION OF THE RETAINING WALL.

10.0 GENERAL NOTES:

10.1 CONSTRUCTION VERIFICATION OF THE WALL INSTALLATION BY AN ENGINEER/QUALIFIED MATERIALS TESTING FIRM IS REQUIRED AND MUST BE PROVIDED BY A KNOWLEDGEABLE ENGINEER/FIRM FAMILIAR WITH RETAINING WALL EARTH STRUCTURES.

10.2 IDENTIFICATION OF ALL UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY CONFLICTS SHALL BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.

10.3 WATERLINES INCLUDING IRRIGATIONS SYSTEMS MUST BE WATER TIGHT WITHIN 100 FEET OF RETAINING WALL. LEAKAGE BEHIND A RETAINING WALL WILL INCREASE THE HORIZONTAL PRESSURE AGAINST THE WALL LEADING TO WALL FAILURE. FOR THIS REASON, SUBSURFACE WATERLINES AND IRRIGATION SYSTEMS SHOULD NOT BE INSTALLED ABOVE THE RETAINING WALL.

10.4 ALL CONSTRUCTION ACTIVITY SHALL CONFORM TO THE MINIMUM REQUIREMENTS PRE O.S.H.A. STANDARDS.

10.5 THIS DESIGN IS BASED UPON SPECIFIC PROPERTIES OF MATERIALS WHICH ARE PROPRIETARY. ANY SUBSTITUTION OF THE SPECIFIED PRODUCTS OR CHANGE IN STRUCTURE GEOMETRY WILL INVALIDATE THIS DESIGN. THESE DRAWINGS ARE BEING FURNISHED FOR USE ON THIS SPECIFIC PROJECT ONLY. ANY PARTY ACCEPTING THIS DOCUMENT DOES SO IN CONFIDENCE AND AGREES THAT IT SHALL NOT BE DUPLICATED, IN WHOLE OR IN PART, NOR DISCLOSED TO OTHERS WITHOUT THE CONSENT OF MCMASTER & ASSOCIATES. THESE DRAWINGS, DESIGN NOTES, AND ASSOCIATED CALCULATIONS HAVE BEEN PREPARED BY MCMASTER & ASSOCIATES FROM INFORMATION PROVIDED BY OTHERS. FINAL DETERMINATION OF THE SUITABILITY OF ANY INFORMATION CONTAINED HEREIN IS THE RESPONSIBILITY OF THE USER.

10.6 DISCOVERY OF SUBSURFACE GROUNDWATER SHALL BE REPORTED IMMEDIATELY TO THE CONSTRUCTION ENGINEER FOR ADDITIONAL DRAINAGE CONSIDERATION.

10.7 STORM DRAIN SYSTEMS ARE PRONE TO LEAKING. THEREFORE, IF A JOINT IN A STORM WATER PIPE IS LOCATED WITHIN 100 FEET OF THE RETAINING WALL THE STORM WATER PIPE MUST BE WATER TIGHT. NEOPRENE O-RINGS MUST BE INSTALLED AT ALL STORM PIPE JOINTS AT A MINIMUM.

10.8 CONSTRUCTION VERIFICATION OF THE SOIL CONDITIONS IS IMPERATIVE PRIOR TO AND DURING CONSTRUCTION. FAILURE TO VALIDATE THE ASSUMED SOIL PARAMETERS CAN RESULT IN STRUCTURE FAILURE.

10.9 CONTRACTOR RESPONSIBLE FOR PROVIDING DRAINAGE AS SHOWN ON THE CONSTRUCTION DRAWINGS. FAILURE TO FOLLOW THESE DRAWINGS IN THEIR ENTIRETY WILL INVALIDATE THE DESIGN.

10.10 BLOCK COUNT PROVIDED FOR REFERENCE ONLY. CONTRACTOR RESPONSIBLE FOR VERIFYING ALL WALL/BLOCK QUANTITIES PRIOR TO CONSTRUCTION.

11.0 SUBMITTALS:

11.1 AT A MINIMUM, CONTRACTOR SHALL PROVIDE SUBMITTALS/SHOP DRAWINGS FOR THE FOLLOWING ITEMS:

11.1.1 WALL BLOCK & CAP UNITS

11.1.2 DRAINAGE STONE (GRADATION)

11.1.3 LEVELING PAD STONE (GRADATION & FRICTION ANGLE)

11.1.3 RETAINED ZONE BACKFILL MATERIAL (GRADATION & FRICTION ANGLE)

11.1.4 GEOTEXTILE FABRIC

11.1.5 EPOXY SEALANT (FOR CAP INSTALLATION)

11.1.6 CONCRETE MIX DESIGN (PAVED FLUME)

11.1.7 REINFORCING STEEL (PAVED FLUME)

11.1.8 FENCING MATERIALS & SHOP DRAWINGS

BLOCK COUNT/LEGEND

SYMBOL	DESCRIPTION	COUNT
R-28HB	28" HALF BOTTOM	1
R-28B	28" BOTTOM	9
R-28M	28" MIDDLE	117
R-41B	41" BOTTOM	19
R-41M	41" MIDDLE	118
R-60B	60" BOTTOM	53
6-60M	60" MIDDLE	37
F-CT	CORNER TOP	4
F-HCT	HALF CORNER TOP	3
F-ST	STRAIGHT TOP	77
A-2SC	2-SIDED CAP	82
A-3SC	3-SIDED CAP	7

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NICHOLAS A. COSTA
REGISTERED PROFESSIONAL ENGINEER
34529
STATE OF MISSISSIPPI

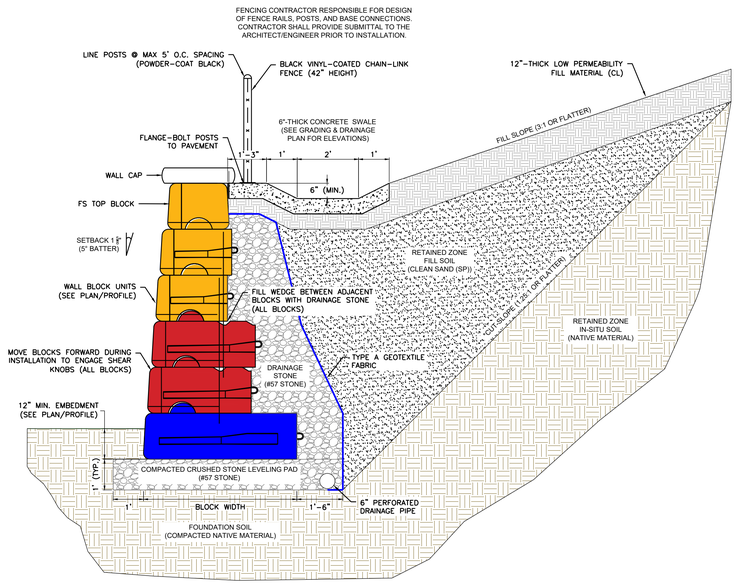
CONSTRUCTION DOCUMENTS

Project No.: 24053
Date: September 18, 2025
Drawn: N.S.G.
Checked: R.C.M.
Revisions: 10.09.25 ADDENDUM No. 2

THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

McMASTER & ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
212 WATERFORD SQUARE
SUITE 300
MADISON, MS 39110
601.605.1090

Sheet Number:
C502
WALL NOTES



TYPICAL WALL SECTION
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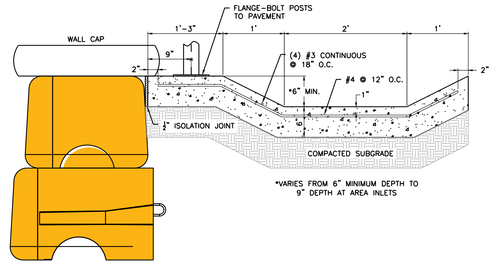
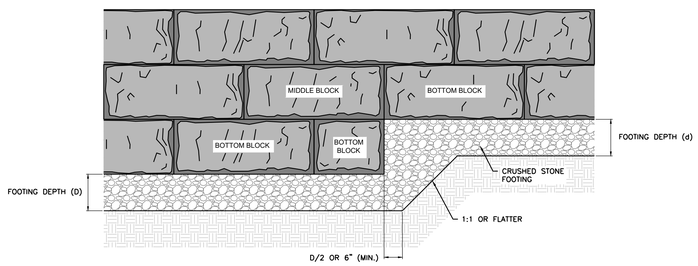


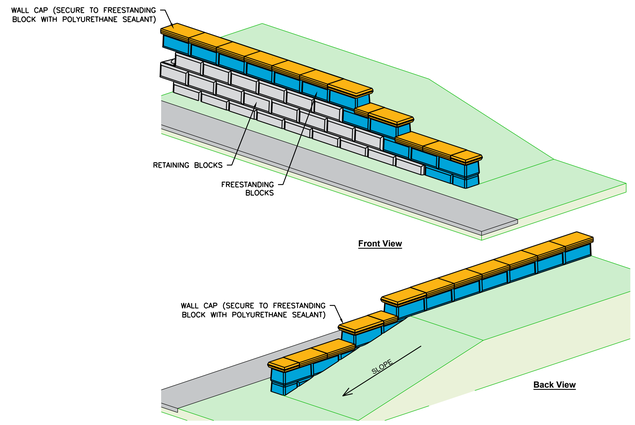
CONCRETE SWALE TYPICAL SECTION
N.T.S.

NOTES:

1. CONCRETE SHALL BE CLASS B (MIN. 28-DAY COMPRESSIVE STRENGTH 3,500 P.S.I.)
2. REINFORCING STEEL SHALL CONFORM TO ASTM A-706 GRADE 60.
3. TERMINATE REINFORCING STEEL 2" EACH SIDE OF CONSTRUCTION JOINTS.
4. ALL JOINTS SHALL BE SEALED WITH APPROVED JOINT SEALANT.



STEP FOOTING DETAIL
N.T.S.



TOP-OF-WALL STEP DETAIL
N.T.S.

NOTES:

1. ONE-COMPONENT, HIGHLY FLEXIBLE, NON-PRIMING, GUN GRADE ELASTOMERIC POLYURETHANE SEALANT SHALL HAVE MOVEMENT PLUS OR MINUS 25% PER ASTM C719, TENSILE STRENGTH GREATER THAN 200 P.S.I. PER ASTM D412, AND ADHESION TO PEEL ON CONCRETE GREATER THAN 20 P.L.I. PER ASTM C794. APPLY SEALANT IN ONE AND ONE-HALF-INCH (1.5") DIAMETER ROUND "HERSEY KISS" SHAPED DOLLUPS LOCATED IN TWO ROWS AT THE TOP OF THE FREESTANDING BLOCKS AT 8" ON CENTER SPACING.

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34529
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McMASTER & ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
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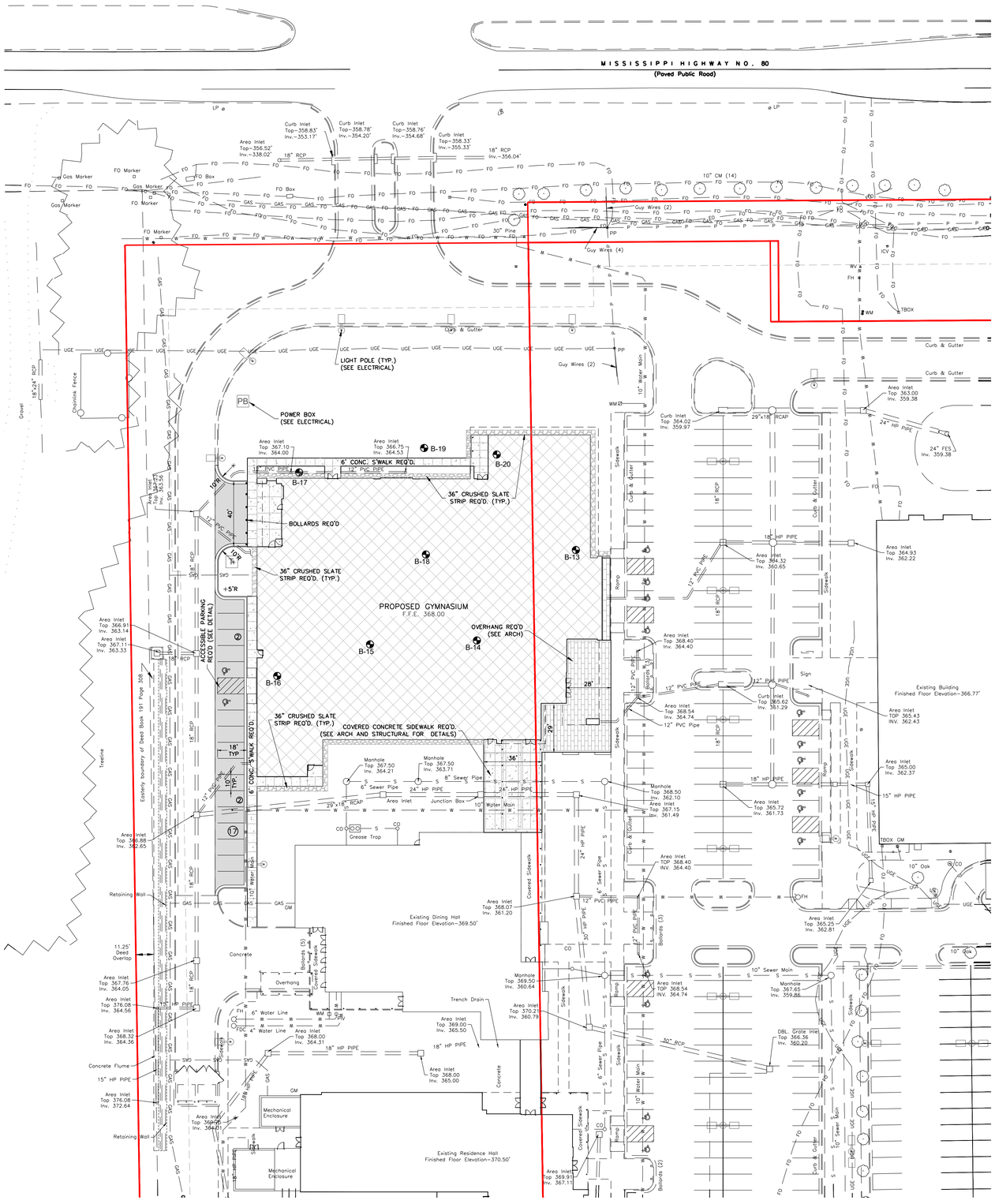
MADISON, MS 39110
601.605.1090

Sheet Number:
C503
WALL DETAILS

1" = 1'-0" GRAPHIC SCALE
3/4" = 1'-0" GRAPHIC SCALE
1/2" = 1'-0" GRAPHIC SCALE
3/8" = 1'-0" GRAPHIC SCALE
1/8" = 1'-0" GRAPHIC SCALE



SCALE: 1"=30'

EXISTING LEGEND

RCP	REINFORCED CONCRETE PIPE
EBOX	ELECTRIC/POWER BOX
FO	FIBER OPTIC/COMMUNICATION BOX
MH	EXISTING MANHOLE
LP	LIGHT POLE
WM	WATER METER
WV	WATER VALVE
FH	FIRE HYDRANT
WS	WATER SERVICE
ICV	IRRIGATION CONTROL VALVE
TBM	TEMPORARY BENCH MARK
SIR	SET IRON REBAR (1/2"x18")
FIR	FOUND IRON REBAR (1/2" UNLESS OTHERWISE NOTED)
W — W	EXISTING WATER LINE
P — P	EXISTING OVERHEAD POWERLINE
S — S	EXISTING SANITARY SEWER LINE
GAS — GAS	EXISTING SANITARY SEWER FORCE MAIN
FO — FO	EXISTING FIBER OPTIC CABLE
UGE — UGE	EXISTING UNDERGROUND ELECTRIC CABLE
	EXISTING WOOD FENCE
X — X	EXISTING WIRE FENCE
	EXISTING CHAINLINK FENCE

SITEWORK LEGEND

- PROPOSED BUILDING
- PROPOSED CONCRETE AREAS
- PROPOSED LIGHT-DUTY ASPHALT PAVEMENT
- PROPOSED BRICK PAVER (SEE ARCHITECTURE PLANS)

CURB AND GUTTER LEGEND

① NORMAL CURB AND GUTTER
② PITCHED CURB AND GUTTER

NOTES:

1. THE TOTAL AREA OF THIS DEVELOPMENT IS 2.05 AC./89,662 S.F., MORE OR LESS.
   THE BREAKDOWN OF THIS AREA IS AS FOLLOWS:
   PERVIOUS – 42,992 S.F.
   IMPERVIOUS – 46,670 S.F.
   TOTAL – 89,662 S.F.
2. BUILDING SETBACKS: ALL SETBACKS ARE SUBJECT TO SITE PLAN REVIEW.
   FRONT – 50'
   REAR – 20' (ABUTTING NON-RESIDENTIAL)
   50' (ABUTTING RESIDENTIAL)
   SIDE – 20' (ABUTTING NON-RESIDENTIAL)
   50' (ABUTTING RESIDENTIAL)
3. THIS BUILDING WILL BE UTILIZED AS GYMNASIUM
4. PARKING SPACES:
   SPACES PROVIDED – 18 SPACES
   HANDICAP SPACES PROVIDED – 2 SPACES, 2 VAN ACCESSIBLE
5. THIS PROPERTY IS ZONED C-2 AND S-1 IN THE CITY OF PEARL.
6. THIS PROPERTY IS LOCATED IN ZONE X – OTHER AREAS, WHICH IS DEFINED AS, "AREAS DETERMINED TO BE OUTSIDE THE 0.2% CHANCE FLOODPLAIN," AS SHOWN ON FIRM MAP NUMBER 28121C0189F, DATED JUNE 9, 2014 AND 28121C0187, DATED AUGUST 16, 2022
7. ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH THE CITY OF PEARL SPECIFICATIONS.
8. DOMESTIC WATER SERVICE, FIRE PROTECTION, AND SEWER SERVICE WILL BE PROVIDED BY THE CITY OF PEARL.
9. SEE MECHANICAL, ELECTRICAL, ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR FURTHER REQUIREMENTS AND COORDINATION.
10. ALL RADIUSES AND DIMENSIONS ARE MEASURED TO THE FACE OF CURB, UNLESS NOTED OTHERWISE.
11. SEE DETAILS FOR LIGHT-DUTY ASPHALT PAVEMENT, HEAVY-DUTY ASPHALT PAVEMENT AND HEAVY-DUTY CONCRETE PAVEMENT REQUIREMENTS
12. ADA STRIPING AND LEGEND, AND PROPOSED CROSSWALKS SHALL BE THERMOPLASTIC. PARKING LOT STRIPING SHALL BE PAINT.

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NICHOLAS R. COSTA
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STATE OF MISSISSIPPI

100% CONSTRUCTION DOCUMENTS

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THE COMMONS - PACKAGE B
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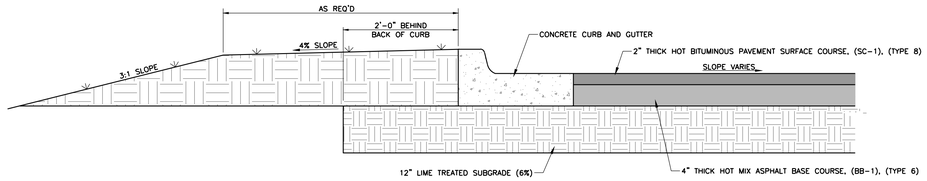
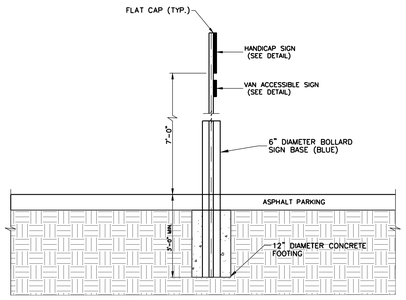
MADISON, MS 39110
601.605.1090

Sheet Number:
C101
SITE PLAN

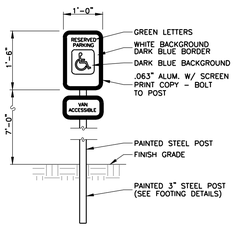
1" = 1'-0" GRAPHIC SCALE
3" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
⅜" = 1'-0" GRAPHIC SCALE



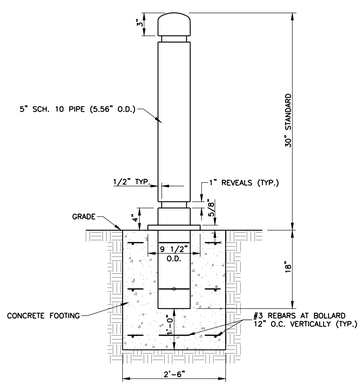
LIGHT-DUTY ASPHALT PAVEMENT
N.T.S.



FOOTING DETAIL FOR HANDICAP PARKING SIGN
N.T.S.



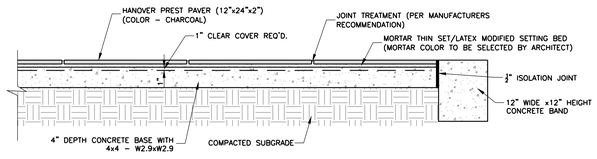
SIGN AT HANDICAP PARKING SPACE
N.T.S.



NOTES:
1. CONTRACTOR SHALL PROTECT THE BOLLARDS AFTER INSTALLATION.
2. COLOR TO BE DETERMINED BY THE ARCHITECT.

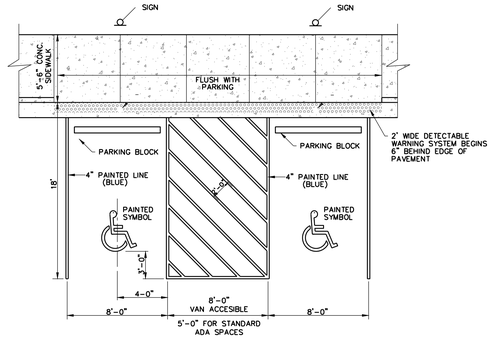
MODEL B-4-5B2, 6" BOLLARD
FAIR WEATHER SITE FURNISHINGS
360-895-2626 OR TOLL FREE 800-323-1798
PORT ORCHARD, WASHINGTON

BOLLARD DETAIL
N.T.S.

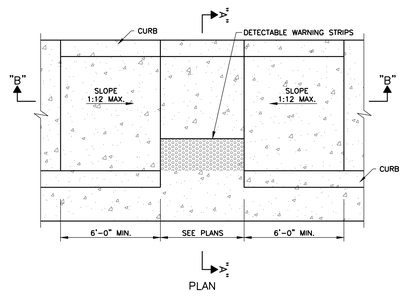


PAVER DETAIL
N.T.S.

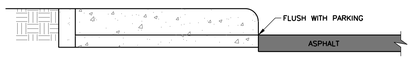
TRENCH DRAIN NOTES:
1. PROVIDE CONTRACTION JOINTS IN CONCRETE BAND AT MAX 5' O.C. COORDINATE JOINT LOCATIONS WITH PAVER LAYOUT.
2. WIRE MESH REINFORCING STEEL SHALL BE CUT FROM FLAT SHEET STOCK.
3. WIRE MESH REINFORCEMENT SHALL BE PROPERLY SUPPORTED ON STEEL MESH CHAIRS AT MAX 2' O.C. GRID SPACING



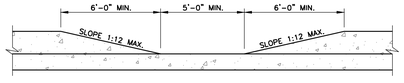
HANDICAP PARKING AND ACCESSIBLE RAMP DETAILS
N.T.S.



PLAN



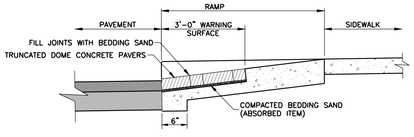
SECTION "A-A"



SECTION "B-B"

NOTE: SURFACE TEXTURE OF THE RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING. TRANVERSE TO THE SLOPE OF THE RAMP.

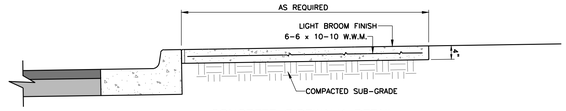
ACCESSIBLE RAMP IN SIDEWALK
N.T.S.



TYPICAL DETECTABLE WARNING INSTALLATION
NOTE: DETECTABLE WARNING PAVERS SHALL BE GRAY IN COLOR

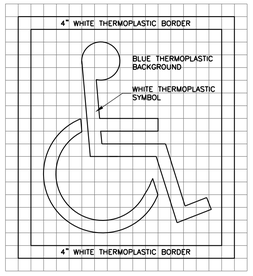
NOTES:
1. LANDINGS WILL PROVIDE A LEVEL AREA (LESS THAN 2% GRADE OR CROSS SLOPE) AT APPROXIMATE STREET ELEVATION. A 4 FOOT SQUARE LEVEL LANDING IS THE REQUIRED MINIMUM.
2. ALL SIDEWALK RAMPS REQUIRE DETECTABLE WARNINGS.
3. ANY DRIVEWAY 24' OR GREATER REQUIRES ADA SIDEWALK TREATMENTS WITH DETECTABLE WARNINGS WHICH WILL BE INCIDENTAL TO THE ENTRANCE CONSTRUCTION.
4. DETECTABLE WARNINGS SHALL BE INCIDENTAL TO SIDEWALK CONSTRUCTION.
5. DETECTABLE WARNING SURFACE BEGINS AT THE BACK OF CURB AND 6" BEHIND EDGE OF PAVEMENT.

DETECTABLE WARNING DETAILS



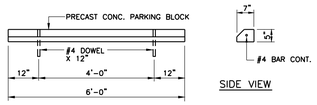
CONCRETE SIDEWALK DETAIL
N.T.S.

NOTES:
1. PROVIDE CONTRACTION JOINTS AT 5'-0" O.C. AND EXPANSION JOINTS AT 30'-0" O.C., AND AT INTERSECTION OF WALKS.
2. CONTRACTION JOINTS SHALL BE A MINIMUM OF 1" OF DEPTH AND A MAXIMUM OF 1/4 DEPTH OF THE PAVEMENT. EDGES SHALL BE TOOLED TO A 1/4" RADIUS.
3. EXPANSION JOINTS SHALL BE 1/2" IN WIDTH AND FILLED WITH PREMOULDED EXPANSION JOINT FILLER TO WITHIN 1/2" OF THE SURFACE. EDGES SHALL BE TOOLED TO A 1/4" RADIUS AND SEALED FLUSH WITH AN APPROVED SEALANT.
4. MAX. SLOPE IN RUN OF SIDEWALKS TO BE 5% MAX. CROSSLOPE TO BE MAX 2%
5. SPECIFICATIONS FOR ALL CONCRETE AND REINFORCEMENT ARE AS FOLLOWS:
   CONCRETE: 3,500 PSI IN 28 DAYS.
   REINFORCING STEEL: PER ASTM A-615, GRADE 60
6. PROVIDE FULL DEPTH ISOLATION JOINT IN ALL LOCATIONS WHERE SIDEWALK ABUTTS CURBS, INLETS, WALLS, FOUNDATIONS, AND OTHER FIXED OBJECTS.

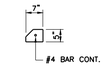


4"x4" GRID PROVIDED FOR LAYOUT OF SYMBOL. PROVIDE THERMOPLASTIC COLORS IN ACCORDANCE WITH ADA AND LOCAL REQUIREMENTS (TYPICALLY WHITE SYMBOL ON BLUE BACKGROUND INSIDE WHITE BORDER)

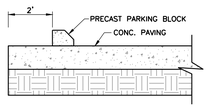
TYPICAL THERMOPLASTIC ACCESSIBLE SYMBOL FOR PAVEMENT
N.T.S.



FRONT VIEW

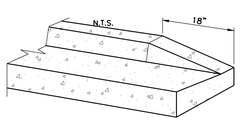


SIDE VIEW

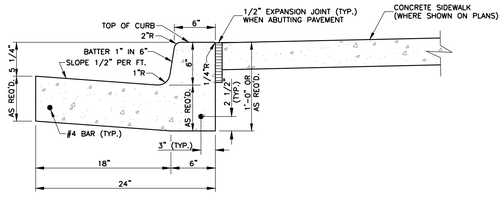


SECTION

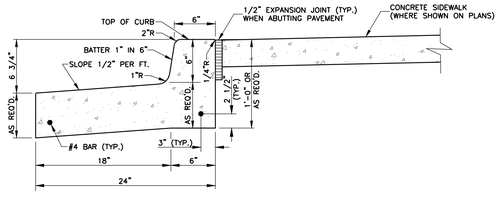
PARKING BLOCK DETAILS
N.T.S.



CURB END TRANSITION DETAIL



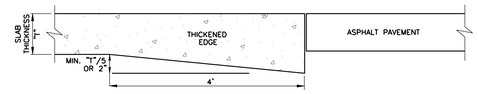
NORMAL GUTTER



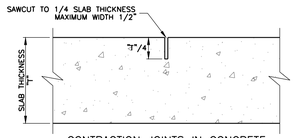
PITCHED GUTTER

CONCRETE CURB AND GUTTER DETAIL
N.T.S.

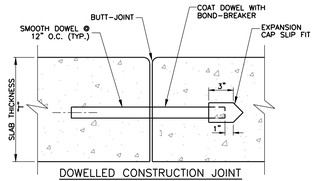
NOTES:
1. CONCRETE SHALL BE 3,500 P.S.I. MINIMUM.
2. PROVIDE CONTRACTION JOINTS AT 10'-0" O.C. AND EXPANSION JOINTS AT 40'-0" O.C.
3. CONTRACTION JOINTS SHALL BE A MINIMUM OF 1" OF DEPTH AND A MAXIMUM OF 1/4 DEPTH OF THE PAVEMENT. EDGES SHALL BE TOOLED TO A 1/4" RADIUS.
4. EXPANSION JOINTS SHALL BE 1/2" IN WIDTH AND FILLED WITH PREMOULDED EXPANSION JOINT FILLER TO WITHIN 1/2" OF THE SURFACE. EDGES SHALL BE TOOLED TO A 1/4" RADIUS AND SEALED FLUSH WITH AN APPROVED SEALANT.
5. CONTRACTOR TO FIELD VEREFIY TYPE OF GUTTER PITCH USED.



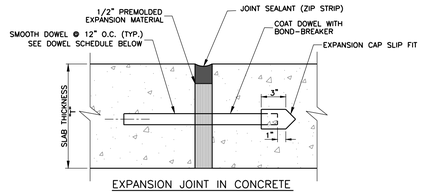
THICKENED EDGE DETAIL



CONTRACTION JOINTS IN CONCRETE
NOTE: CONTRACTION JOINT WIDTHS 1/4" OR GREATER SHALL BE SEALED WITH APPROVED SEALANT.

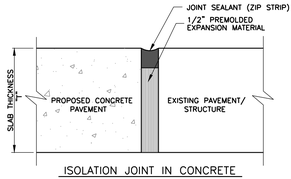


DOWELLED CONSTRUCTION JOINT
HEAVY-DUTY & LIGHT-DUTY PAVEMENT
DOWEL SCHEDULE:
HEAVY-DUTY CONCRETE 1 1/4" DIAMETER, 15" LONG
LIGHT-DUTY CONCRETE 3/4" DIAMETER, 14" LONG



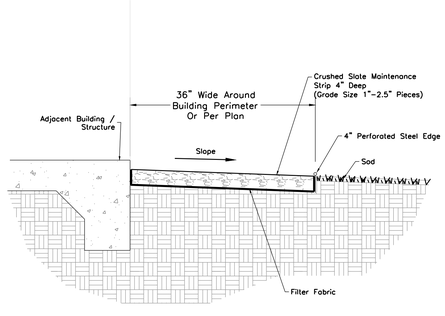
EXPANSION JOINT IN CONCRETE
DOWEL SCHEDULE:
HEAVY-DUTY CONCRETE 1 1/4" DIAMETER, 15" LONG
LIGHT-DUTY CONCRETE 3/4" DIAMETER, 14" LONG
CONCRETE SIDEWALK 1/2" DIAMETER, 14" LONG

NOTE: PROVIDE THICKENED EDGE (7"+1 INCH) 12" EACH SIDE OF EXPANSION JOINT IN CONCRETE SIDEWALK.



ISOLATION JOINT IN CONCRETE

CONCRETE JOINT DETAILS
N.T.S.



CRUSHED SLATE MAINTENANCE STRIP
N.T.S.

DEAN ARCHITECTURE
GEDDIE | GRANT | OUBRE
661 Sunnybrook, Ste 140
Ridgeland, MS 39157
601.939.7717
deandean.com

NICHOLAS R. COSTA
34529
STATE OF MISSISSIPPI

100% CONSTRUCTION DOCUMENTS

Project No.: 24053
Date: September 18, 2025
Drawn: N.S.G.
Checked: R.C.M.
Revisions: 10.09.25 ADDENDUM No. 2

THE COMMONS - PACKAGE B
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

M°MASTER & ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
212 WATERFORD SQUARE
SUITE 300
MADISON, MS 39110
601.605.1090

Sheet Number:
C102
SITE IMPROVEMENT DETAILS

THE COMMONS - PACKAGE A
PEARL, MS
24053

3" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
1" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
⅛" = 1'-0" GRAPHIC SCALE

October 9, 2025

THE COMMONS – PACKAGE A
HINDS COMMUNITY COLLEGE
PEARL, MS

STRUCTURAL ADDENDUM #2

Item No. 1 Ref. Sheet S110 – Omit sheet S110

Item No. 2 Ref. Sheet S111 – Replace existing S111 with attached, revised S111.

Item No. 3 Ref. Sheet S112 – Replace existing S112 with attached, revised S112.

Item No. 4 Ref. Sheet S202 – Replace existing S202 with attached, revised S202.

Item No. 5 Ref. Sheet S210 – Replace existing S210 with attached, revised S210.

Item No. 6 Ref. Sheet S312 – Replace existing S312 with attached, revised S312.

October 9, 2025

THE COMMONS – PACKAGE B
HINDS COMMUNITY COLLEGE
PEARL, MS

STRUCTURAL ADDENDUM #2

Item No. 1 Ref. Sheet S101 – Replace existing S101 with attached, revised S101.

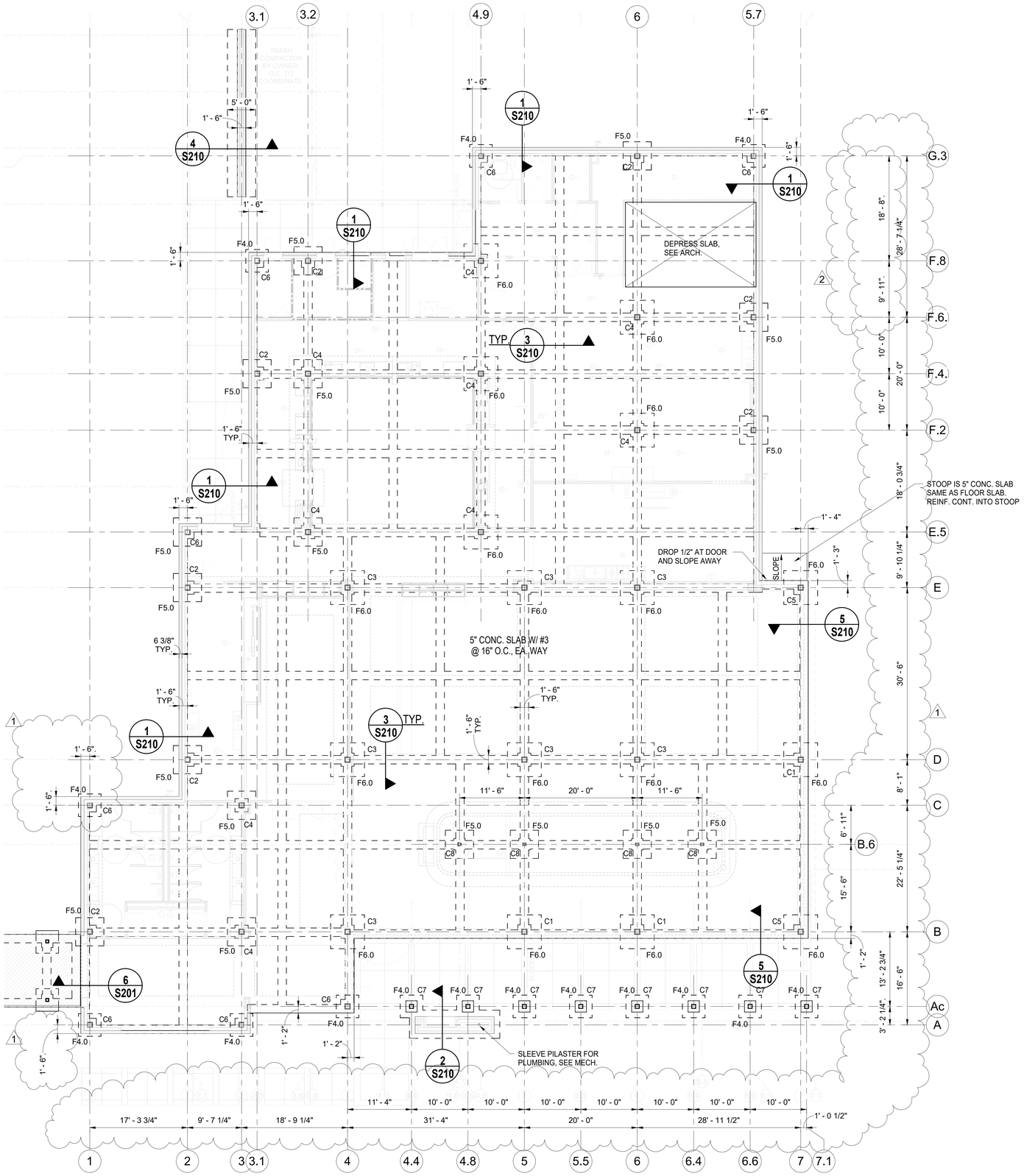
Item No. 2 Ref. Sheet S102 – Replace existing S102 with attached, revised S102.

Item No. 3 Ref. Sheet S103 – Replace existing S103 with attached, revised S103.

Item No. 4 Ref. Sheet S104 – Replace existing S104 with attached, revised S104.

Item No. 5 Ref. Sheet S310 – Replace existing S310 with attached, revised S310.

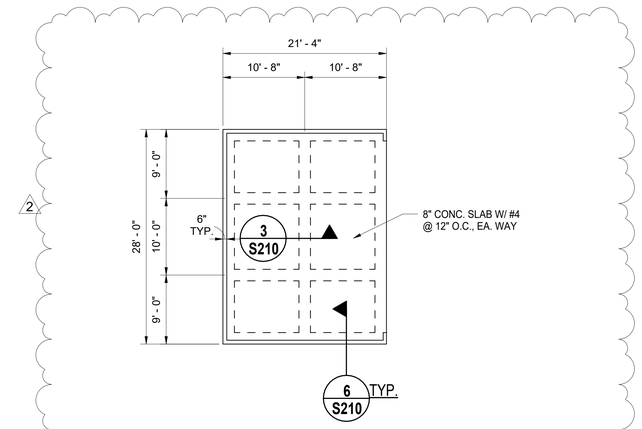
Item No. 6 Ref. Sheet S401 – Replace existing S401 with attached, revised S401.



FOUNDATION AND FLOOR FRAMING PLAN - DINING HALL

1/8" = 1'-0"

NOTES:
1. VERIFY ALL DIMENSIONS W/ ARCHITECT



DUMPSTER PAD FOUNDATION FRAMING PLAN

1/8" = 1'-0"

NOTES:
1. VERIFY ALL DIMENSIONS W/ ARCHITECT

DEAN
ARCHITECTURE
GEDDIE | GRANT | OUBRE

661 Sunnybrook, Ste 140
Ridgeland, MS 39157
601.939.7717
deandean.com

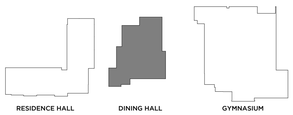
KENNETH SIMMONS MCGRATH
LICENSED PROFESSIONAL ENGINEER
17092
9-17-25
STATE OF MISSISSIPPI

Project No. : 24053
Date: SEPTEMBER 18, 2025
Drawn: KSM
Checked: KSM
Revisions: 1 9-30-2025, 2 10-9-2025

THE COMMON - PACKAGE A
(RANKINCAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)

PEARL, MISSISSIPPI

KEY PLAN



SE# 25010

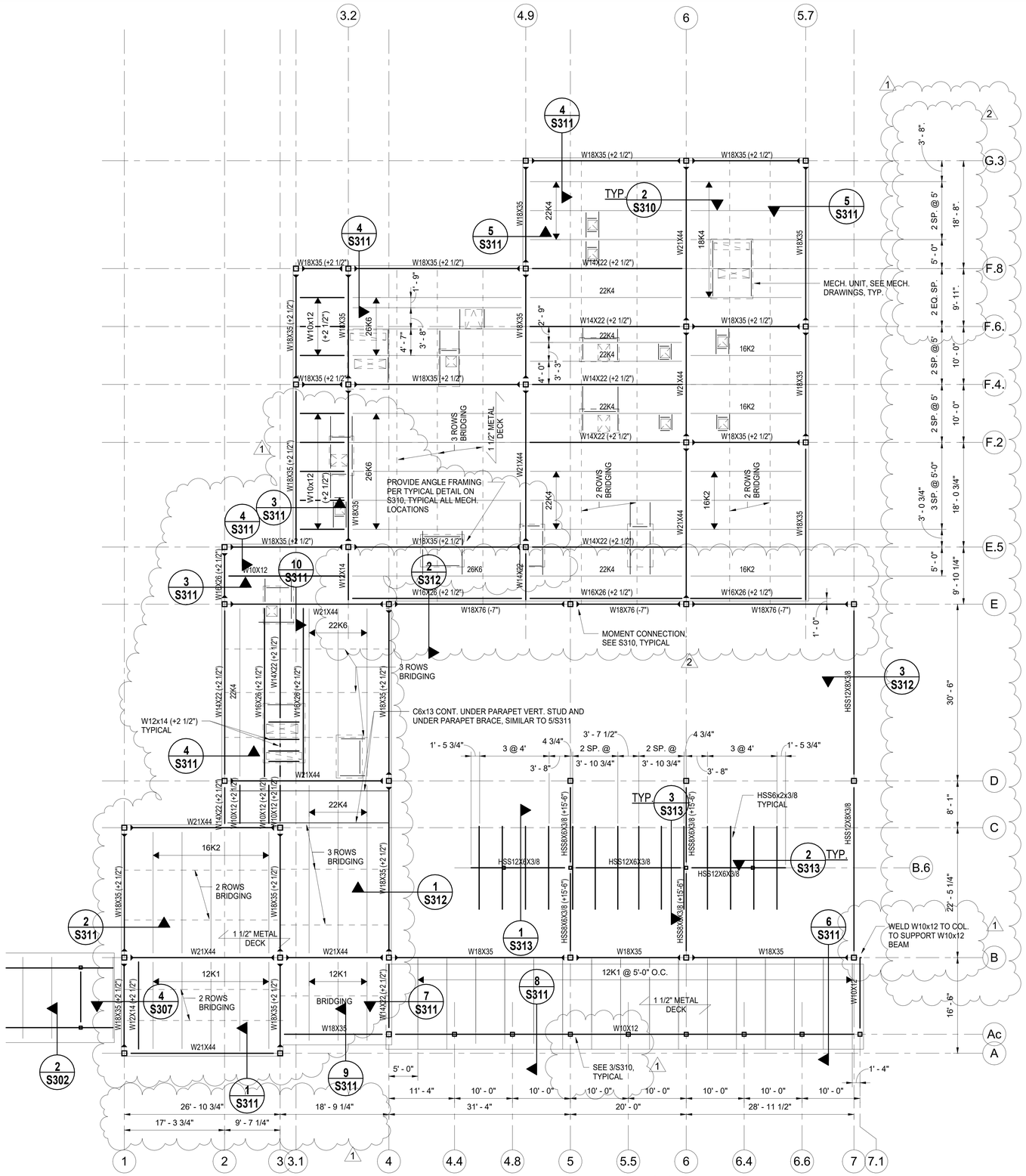
Spencer-Engineers, Inc.
Consultants
P.O. BOX 4328 JACKSON, MS 39216
(601) 982-7766

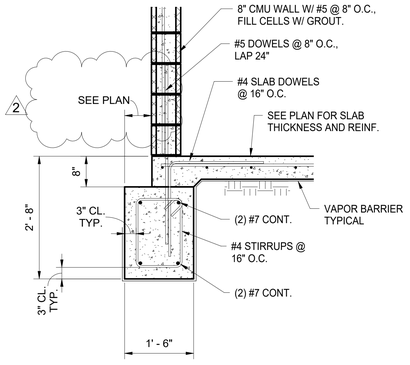
Sheet Number:

S111

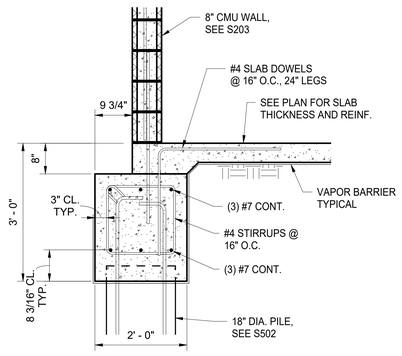
FOUNDATION AND FLOOR FRAMING PLAN - DINING HALL

3" =1'-0" GRAPHIC SCALE
1½" =1'-0" GRAPHIC SCALE
1" =1'-0" GRAPHIC SCALE
¾" =1'-0" GRAPHIC SCALE
½" =1'-0" GRAPHIC SCALE
¼" =1'-0" GRAPHIC SCALE
1/8" =1'-0" GRAPHIC SCALE

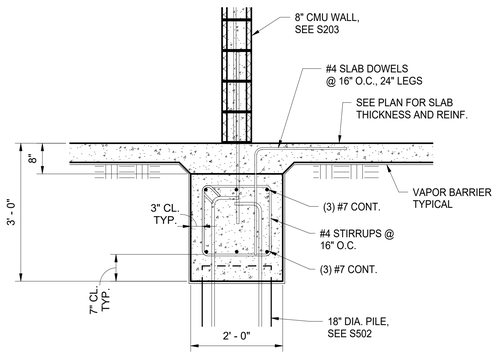

3.2
4.9
6
5.7
G.3
F.8
F.6.
F.4.
F.2
E.5
E
D
C
B.6
B
Ac
A
1
2
3.1
4
4.4
4.8
5
5.5
6.4
6.6
7
7.1
W18X35 (+2 1/2")
W14X22 (+2 1/2")
W21X44
W18X76 (-7")
W16X26 (+2 1/2")
W12X14
W10X12
W18X35
W21X44
W14X22
W16X26
W18X35
W10X12
W12X14
W18X76



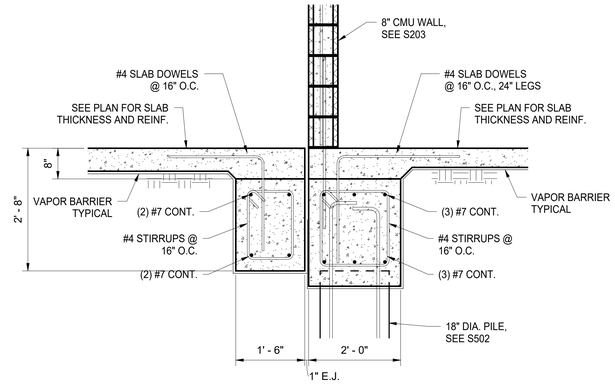
1 S202 3/4" = 1'-0"



2 S202 3/4" = 1'-0"



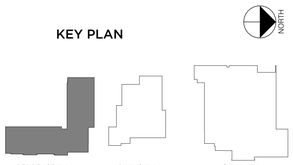
3 S202 3/4" = 1'-0"



4 S202 3/4" = 1'-0"

3" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
1" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
¼" = 1'-0" GRAPHIC SCALE
⅛" = 1'-0" GRAPHIC SCALE

KEY PLAN



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KENNETH SIMMONS MCCRARY
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17092
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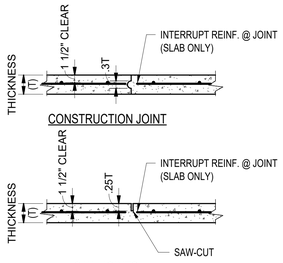
Revisions: 1 9-30-2025, 2 10-9-2025

THE COMMON - PACKAGE A
(RANKINCAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

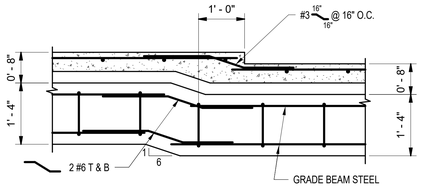
Sheet Number:
S202
FOUNDATION DETAILS - RESIDENCE HALL



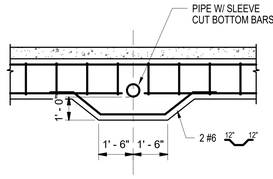
CONTRACTION JOINTS (C.J.)

NO SCALE

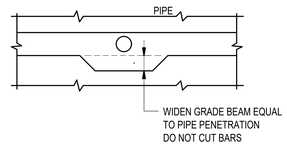
1. CONTRACTION JOINT MAY BE EITHER JOINT SHOWN ABOVE. IF SLAB IS SAW CUT, SLAB SHALL BE SAWED IMMEDIATELY AFTER FINISHED TROWELING WITH AN EARLY-ENTRY TYPE SAW WITH A SHARP BLADE. SAW CUTTING SHALL BE COMPLETED WITHIN 4 HOURS OF PLACING CONCRETE.
2. IF NO CONTRACTION JOINSTS ARE SHOWN, PROVIDE JOINTS @ 25'-0" MAX.



SLAB AND GRADE BEAM DEPRESSION DETAIL

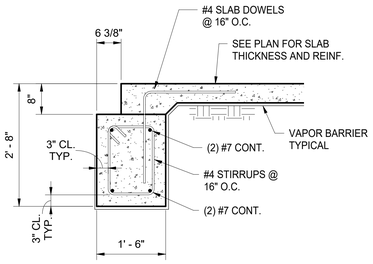


TYPICAL DETAIL AT PIPE PENETRATION THRU GRADE BEAM

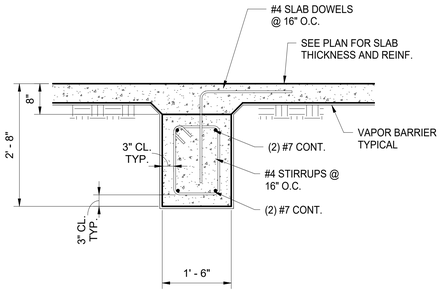


VERTICAL PENETRATION THRU INTERIOR GRADE BEAM

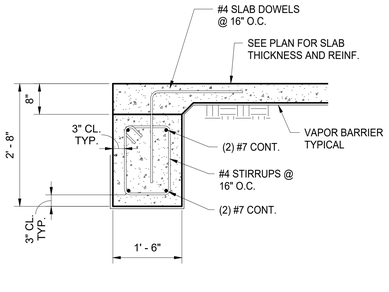
FOOTING SCHEDULE					
MARK	THICKNESS	SIZE		REINFORCING	REMARK
		LENGTH	WIDTH	EACH WAY	
F4.0	16"	4'-0"	4'-0"	5 #4	
F5.0	16"	5'-0"	5'-0"	6 #5	
F6.0	20"	6'-0"	6'-0"	7 #6	
F7.0	24"	7'-0"	7'-0"	8 #6	
F8.0	24"	8'-0"	8'-0"	9 #7	
F9.0	24"	9'-0"	9'-0"	10 #8	
F10.0	24"	10'-0"	10'-0"	12 #8	
F7x4	16"	7'-0"	4'-0"	9#7 SH., 5#6 LG.	



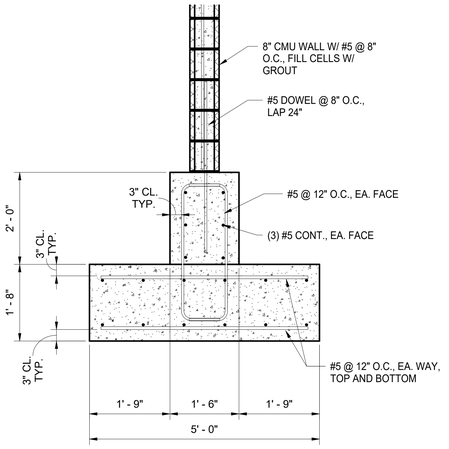
1 S210 3/4" = 1'-0"



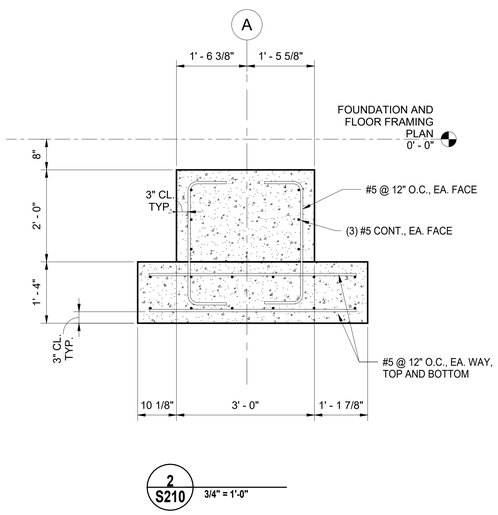
3 S210 3/4" = 1'-0"



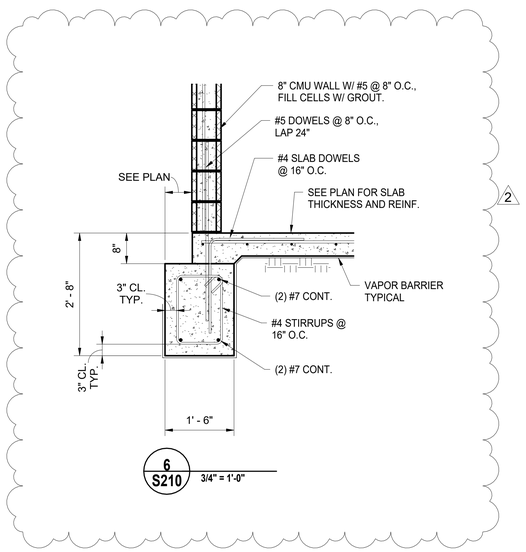
5 S210 3/4" = 1'-0"



4 S210 3/4" = 1'-0"

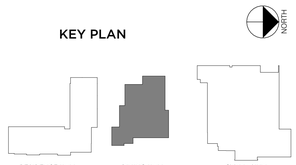


2 S210 3/4" = 1'-0"



6 S210 3/4" = 1'-0"

KEY PLAN



SE# 25010

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KENNETH SIMMONS MCGRATH
LICENSED PROFESSIONAL ENGINEER
17092
STATE OF MISSISSIPPI
9-17-25

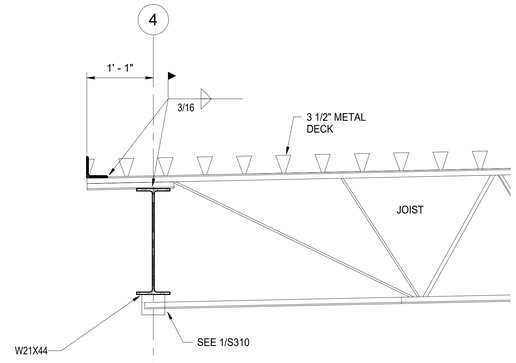
Project No. : 24053
Date: SEPTEMBER 18, 2025
Drawn: KSM
Checked: KSM
Revisions: 1 9-30-2025, 2 10-9-2025

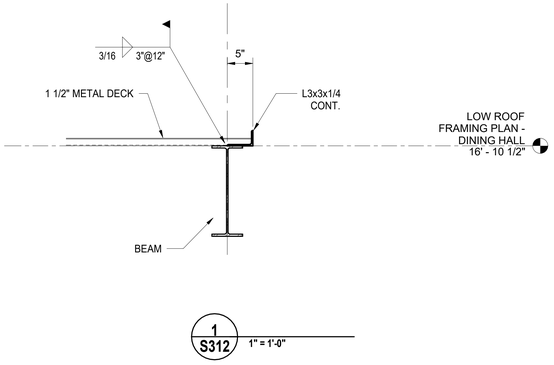
THE COMMON - PACKAGE A
(RANKINCAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

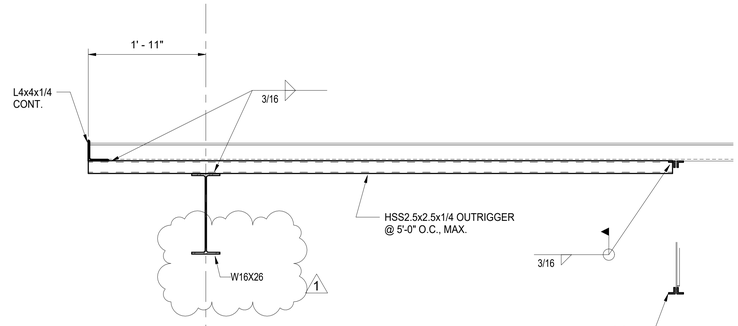
Sheet Number:
S210

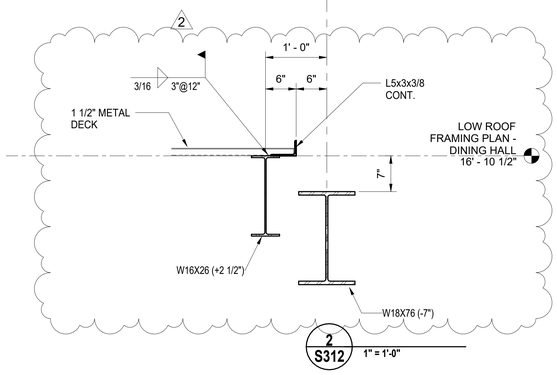
FOUNDATION DETAILS - DINING HALL

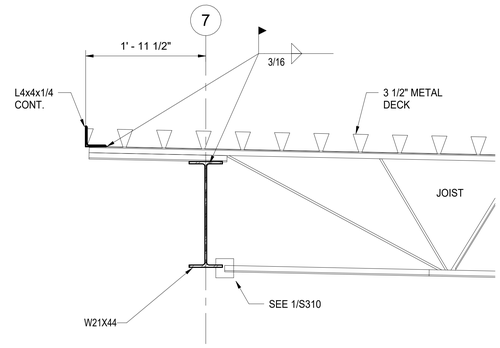
3" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
1" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
¼" = 1'-0" GRAPHIC SCALE
⅛" = 1'-0" GRAPHIC SCALE

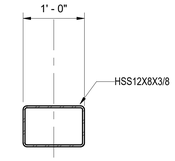


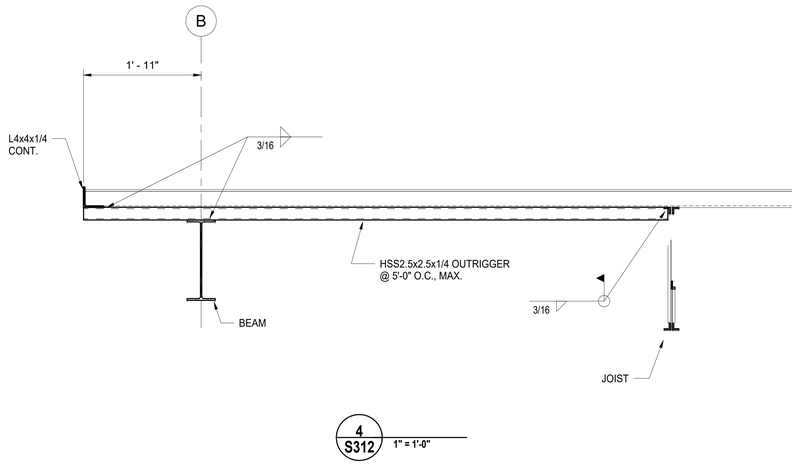


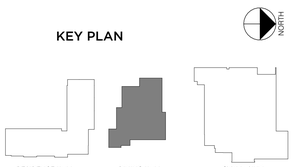












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KENNETH SIMMONS MCGRATH
LICENSED PROFESSIONAL ENGINEER
17092
9-17-25
STATE OF MISSISSIPPI

Project No. : 24053
Date: SEPTEMBER 18, 2025
Drawn: KSM
Checked: KSM
Revisions: 1 9-30-2025, 2 10-9-2025

THE COMMON - PACKAGE A
(RANKINCAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
S312

STEEL DETAILS - DINING HALL

SE# 25010

Spencer-Engineers, Inc.
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(601) 982-7766

1" = 1'-0" GRAPHIC SCALE
3" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
¼" = 1'-0" GRAPHIC SCALE
⅛" = 1'-0" GRAPHIC SCALE

FOUNDATION AND FLOOR FRAMING PLAN - GYMNASIUM

1/8" = 1'-0"

NOTES:
1. VERIFY ALL DIMENSIONS W/ ARCHITECT.

DROP 1/2" AND SLOPE AWAY

SLAB DEPRESSIONS, SEE ARCH. FOR NUMBER AND LOCATION, TYP.

DEPRESS SLAB FOR COURT FLOORING, SEE ARCH. AND MANUF.

GRADE BEAM BUMPS OUT AT THIS LOCATION

LATERAL BRACING TYPICAL, SEE S303

SLOPE

3'-0" WIDE PIER W/ (8) #5 VERT. AND (3) #4 TIES

PROVIDE BLOCK-OUT FOR MOVABLE PARTITION, SEE MANUF. REQUIRMENTS

SLAB DEPRESSIONS, SEE ARCH. FOR NUMBER AND LOCATION, TYP.

KEY PLAN

RESIDENCE HALL | DINING HALL | GYMNASIUM

NORTH

DEAN ARCHITECTURE
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Ridgeland, MS 39157
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deandean.com

KENNETH SIMMONS JACKSON
LICENSED PROFESSIONAL ENGINEER
9-17-25
STATE OF MISSISSIPPI

Project No. : 24053
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THE COMMONS - PACKAGE B (ADD ALTERNATE #2)
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number: S101

FOUNDATION AND FLOOR FRAMING PLAN - GYMNASIUM

SE# 25010

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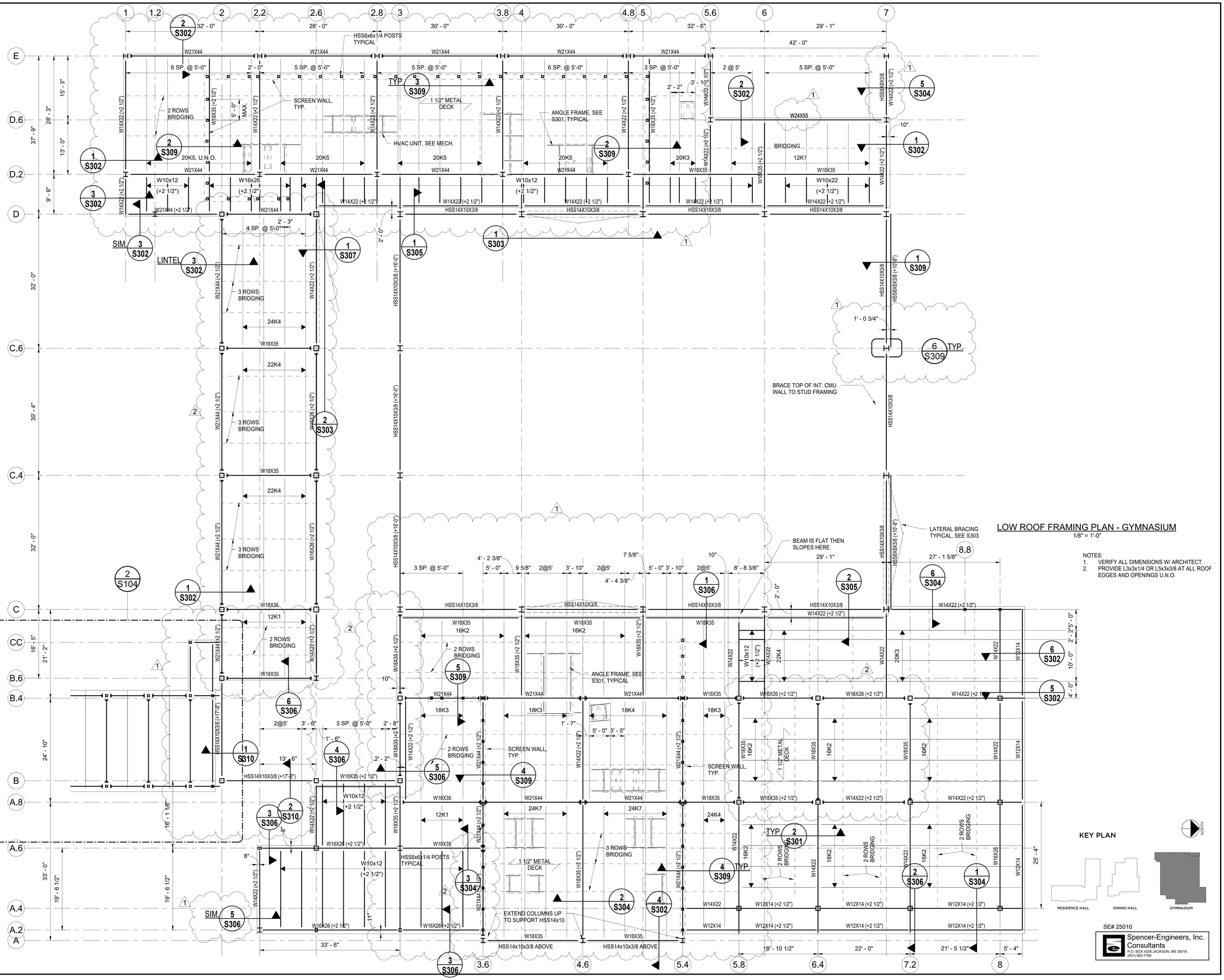
(601) 982-7766



LOW ROOF FRAMING PLAN - GYMNASIUM

1/8" = 1'-0"

NOTES:
1. VERIFY ALL DIMENSIONS W/ ARCHITECT.
2. PROVIDE L3x3x1/4 OR L5x3x3/8 AT ALL ROOF EDGES AND OPENINGS U.N.O.

KEY PLAN

RESIDENCE HALL | DINING HALL | GYMNASIUM

DEAN ARCHITECTURE
GEDDIE | GRANT | OUBRE
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Ridgeland, MS 39157
601.939.7717
deandean.com

KENNETH SIMMONS JACKSON — LICENSED PROFESSIONAL ENGINEER — 9-17-25 — STATE OF MISSISSIPPI

Project No. : 24053
Date: SEPTEMBER 18, 2025
Drawn: KSM
Checked: KSM
Revisions: 1 9-30-25; 2 10-9-25

THE COMMONS - PACKAGE B (ADD ALTERNATE #2)
(RANKINCAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

SE# 25010
Spencer-Engineers, Inc.
Consultants
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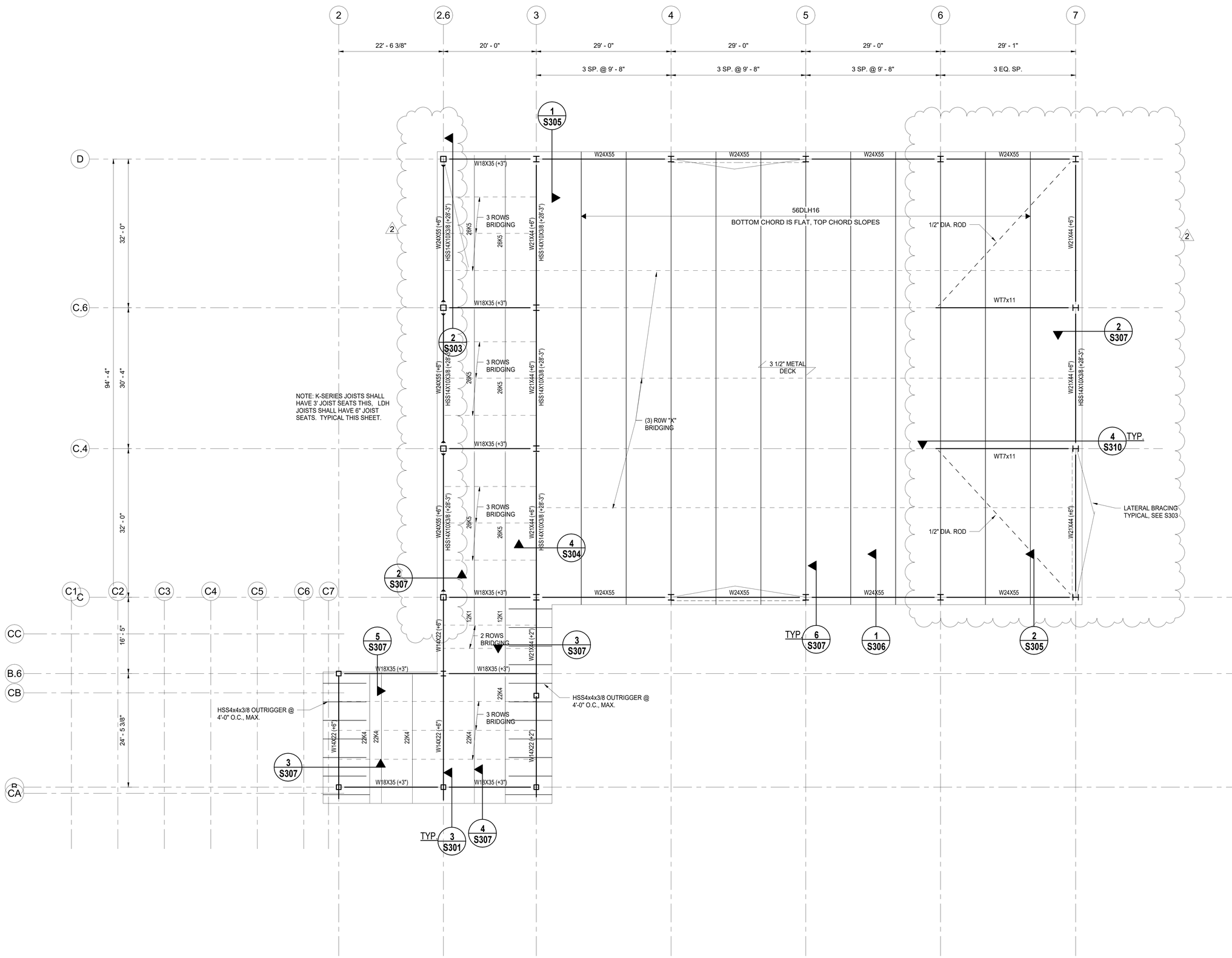
Sheet Number: S102

LOW ROOF FRAMING PLAN - GYMNASIUM

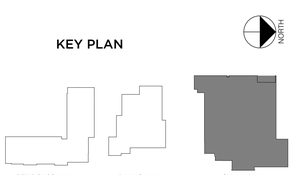


HIGH ROOF FRAMING PLAN - GYMNASIUM

1/8" = 1'-0"

NOTES:
1. VERIFY ALL DIMENSIONS W/ ARCHITECT.
2. PROVIDE L3x3x1/4 OR L5x3x3/8 AT ALL ROOF EDGES AND OPENINGS U.N.O.

KEY PLAN



SE# 25010

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KENNETH SIMMONS MCCOMAS
LICENSED PROFESSIONAL ENGINEER
STATE OF MISSISSIPPI
9-17-25

Project No. : 24053
Date: SEPTEMBER 18, 2025
Drawn: KSM
Checked: KSM
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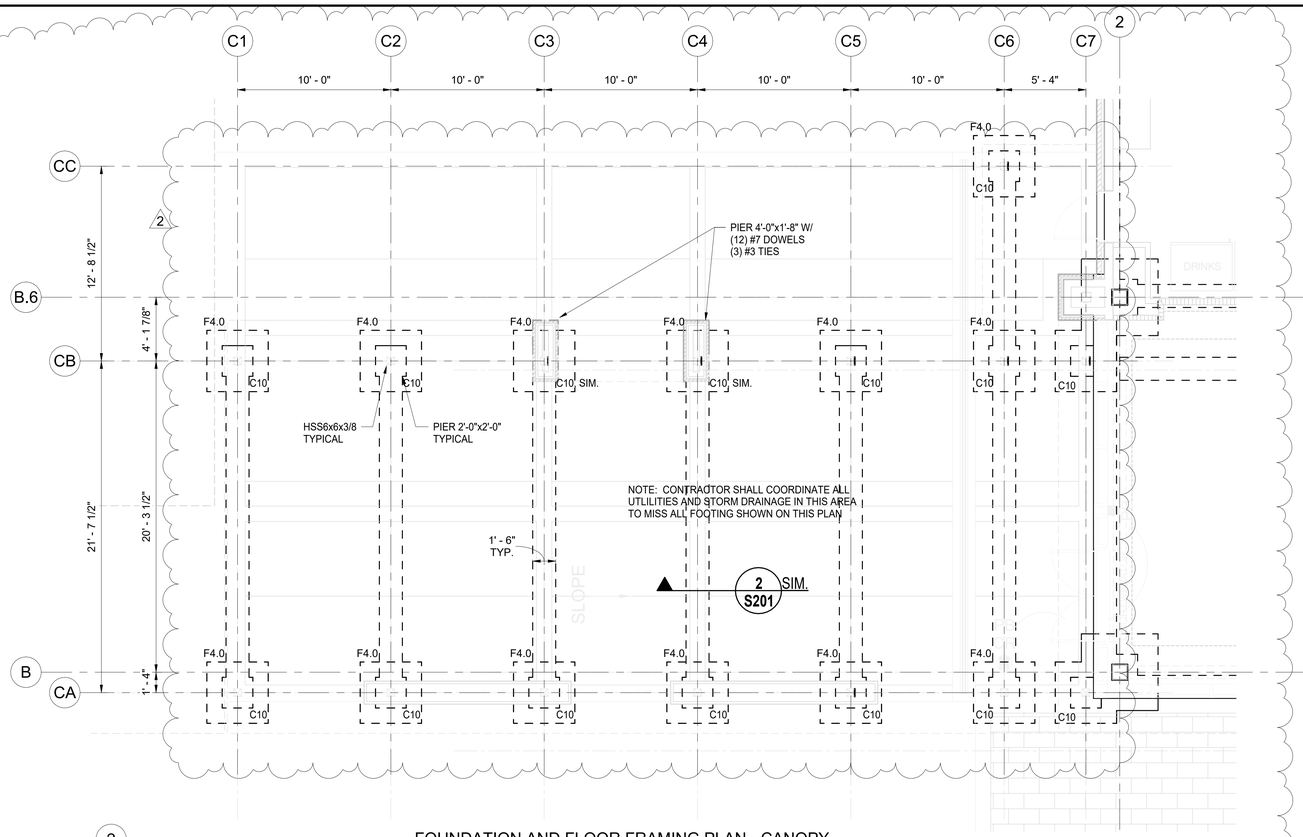
THE COMMONS - PACKAGE B (ADD ALTERNATE #2)
(RANKINCAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number: S103

HIGH ROOF FRAMING PLAN - GYMNASIUM

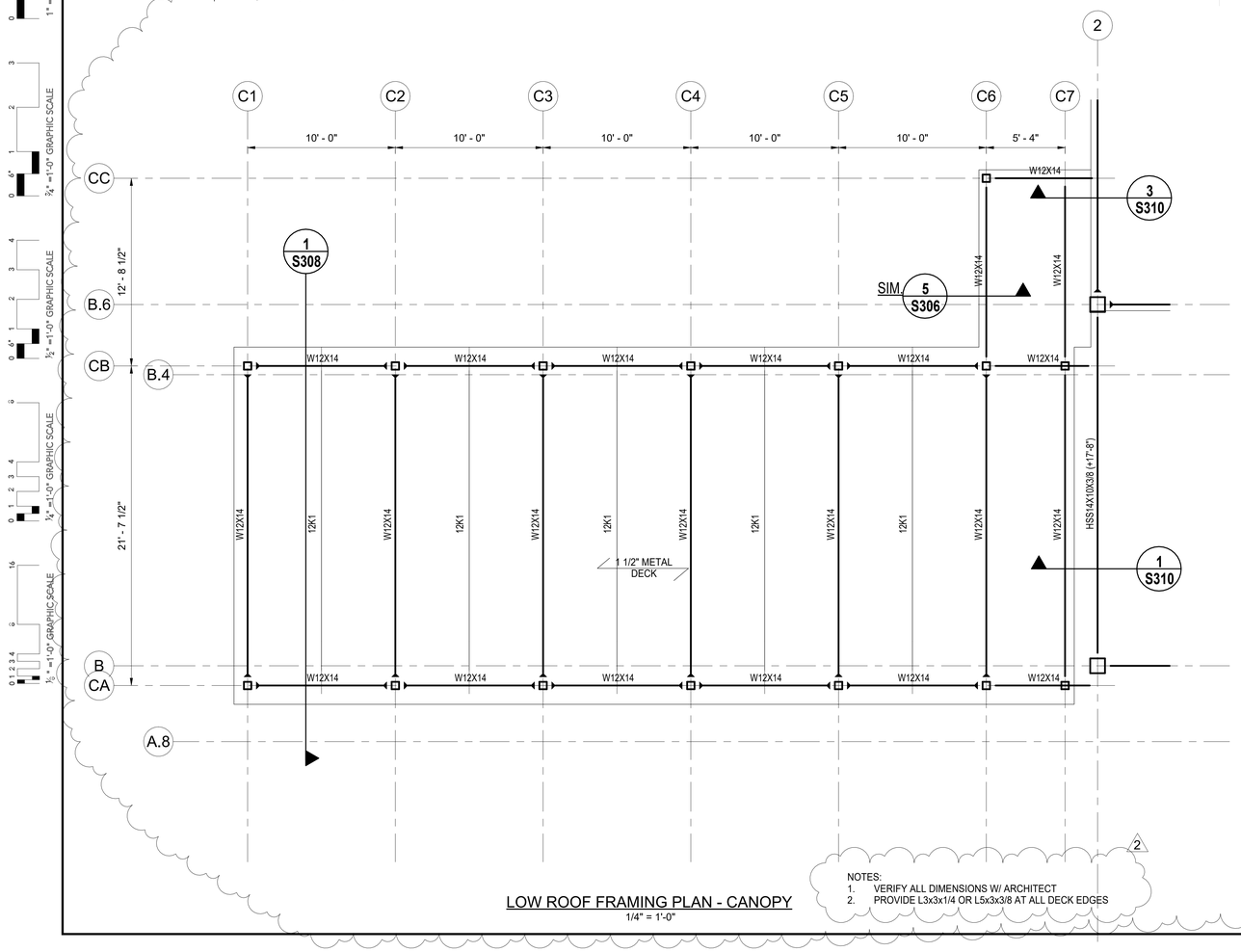
3" =1'-0" GRAPHIC SCALE
1½" =1'-0" GRAPHIC SCALE
1" =1'-0" GRAPHIC SCALE
¾" =1'-0" GRAPHIC SCALE
½" =1'-0" GRAPHIC SCALE
¼" =1'-0" GRAPHIC SCALE
⅛" =1'-0" GRAPHIC SCALE



FOUNDATION AND FLOOR FRAMING PLAN - CANOPY

1/4" = 1'-0"

NOTES:
1. VERIFY ALL DIMENSIONS W/ ARCHITECT

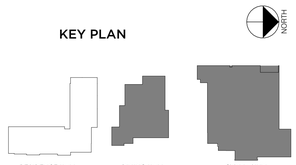


LOW ROOF FRAMING PLAN - CANOPY

1/4" = 1'-0"

NOTES:
1. VERIFY ALL DIMENSIONS W/ ARCHITECT
2. PROVIDE L3x3x1/4 OR L5x3x3/8 AT ALL DECK EDGES

KEY PLAN



SE# 25010

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KENNETH SIMMONS JACKSON
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17092
STATE OF MISSISSIPPI
9-17-25

Project No. : 24053
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Drawn: KSM
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Revisions: 1 9-30-25
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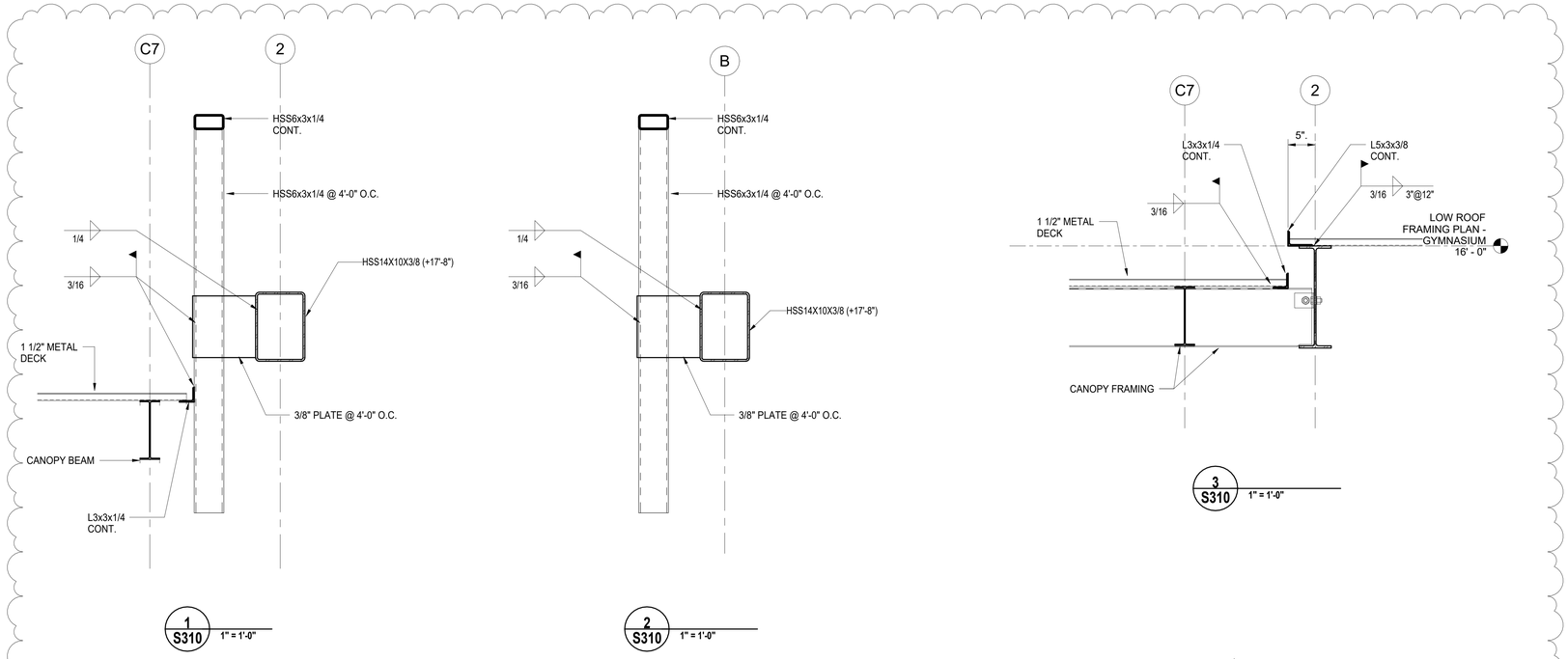
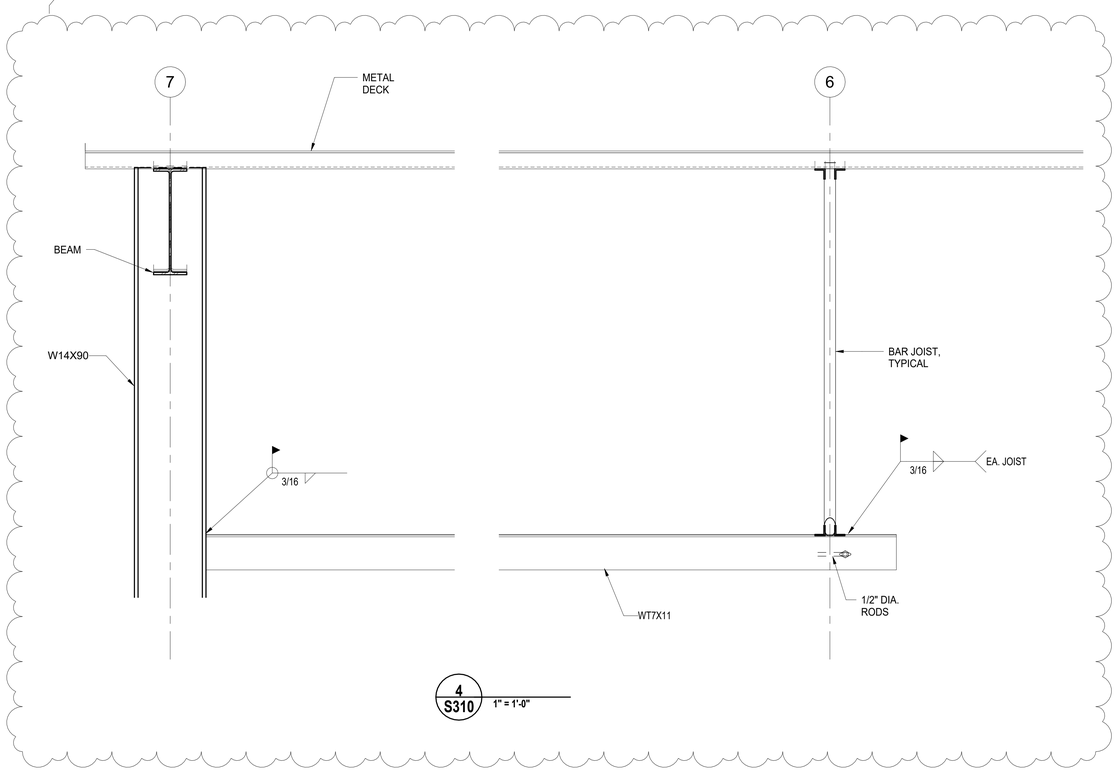
THE COMMONS - PACKAGE B (ADD ALTERNATE #2)
(RANKINCAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
S104

CANOPY ROOF FRAMING PLAN

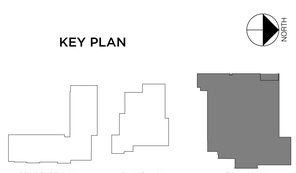
3" =1'-0" GRAPHIC SCALE
1½" =1'-0" GRAPHIC SCALE
1" =1'-0" GRAPHIC SCALE
¾" =1'-0" GRAPHIC SCALE
½" =1'-0" GRAPHIC SCALE
¼" =1'-0" GRAPHIC SCALE
⅛" =1'-0" GRAPHIC SCALE





3" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
1" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE

KEY PLAN



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KENNETH SIMMONS MCGEE
REGISTERED PROFESSIONAL ENGINEER
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STATE OF MISSISSIPPI
NOT FOR CONSTRUCTION
9-17-25

Project No. : 24053
Date: SEPTEMBER 18, 2025
Drawn: KSM
Checked: KSM
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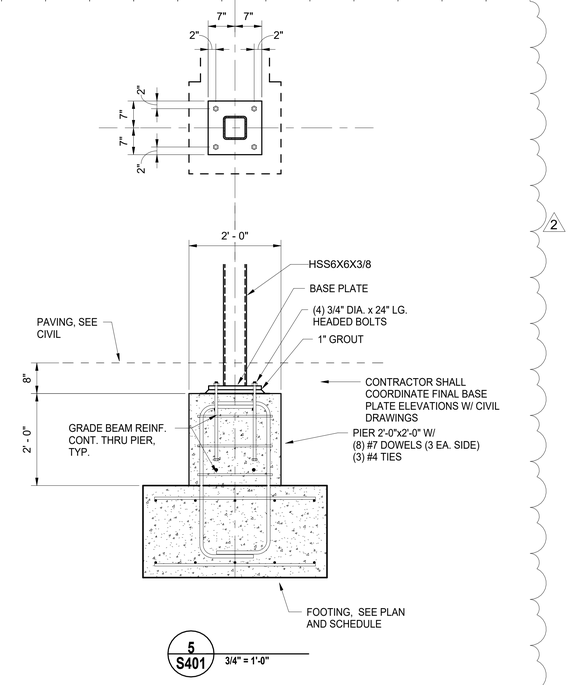
THE COMMONS - PACKAGE B (ADD ALTERNATE #2)
(RANKINCAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

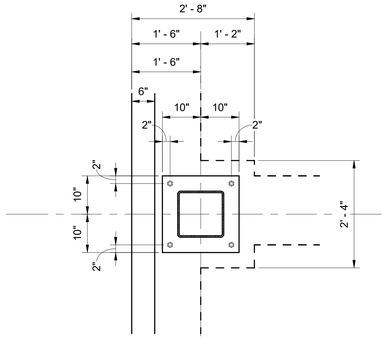
Sheet Number: 1
S310
STEEL DETAILS - GYMNASIUM

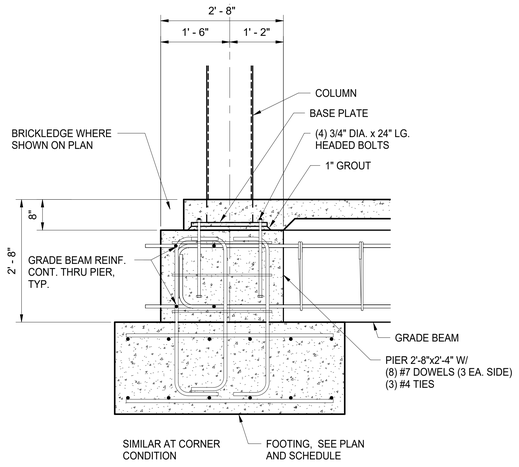
COLUMN SCHEDULE

MARK	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
HIGH ROOF											
LOW ROOF											
FIRST FLOOR	W12x65	W12x65	W12x65	HSS12x12x3/8	HSS12x12x3/8	HSS6x6x3/8	W14x90	W14x90	HSS10X6x3/8	HSS6X6x3/8	HSS14x14x1/2
BASE PLATE	1 1/2"x20"x20"	1 1/2"x20"x20"	1 1/2"x20"x20"	1 1/2"x20"x20"	1 1/2"x20"x20"	1"x14"x14"	1 1/2"x22"x22"	1 1/2"x22"x22"	1"x18"x14"	1"x14"x14"	1 1/2"x22"x22"
PIER	2'-8"x2'-8"	2'-8"x2'-4"	2'-4"x2'-4"	2'-8"x2'-4"	2'-4" x 2'-4"	2'-8" x 2'-4"	3'-5" x 2'-8"	2'-8" x 2'-8"	2'-4" x 2'-4"	2'-0" x 2'-0"	2'-8" x 2'-8"
DETAIL	1/S401, SIM.	1/S401	2/S401	1/S401	2/S401	1/S401	3/S401	4/S401	2/S401	5/S401	4/S401
PIER REINF.	(8) #7 DOWELS	(8) #7 DOWELS	(8) #7 DOWELS	(8) #7 DOWELS	(8) #7 DOWELS	(8) #7 VERT.	(8) #7 VERT.	(8) #7 VERT.	(8) #7 VERT.	(8) #7 VERT.	(8) #7 VERT.

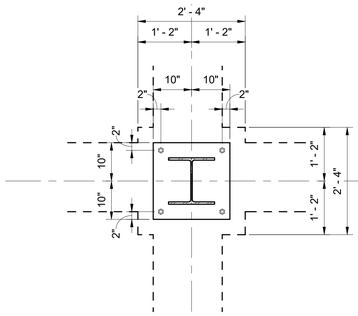


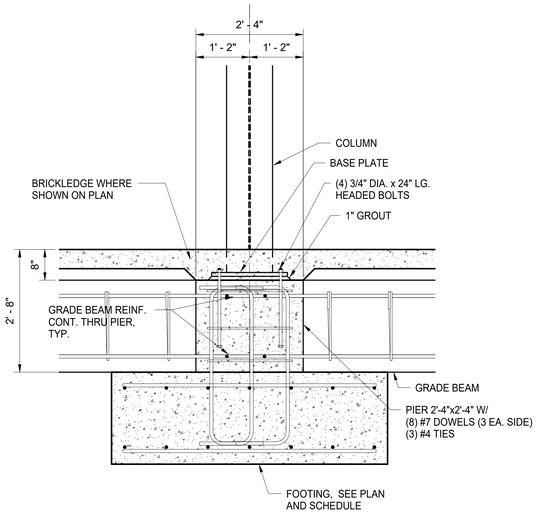
5 S401 3/4" = 1'-0"



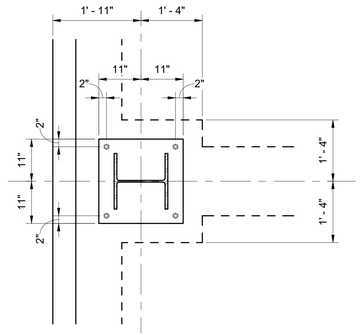


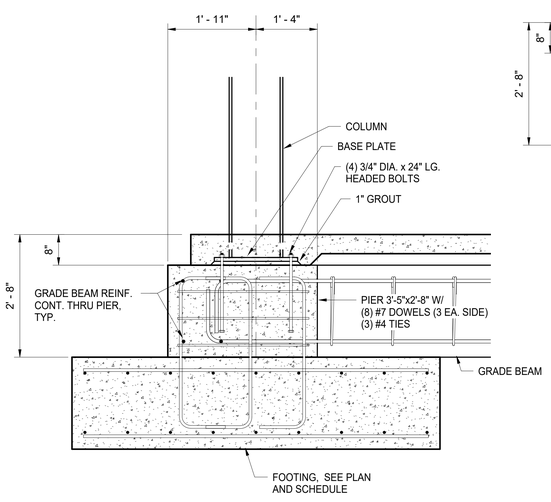
1 S401 3/4" = 1'-0"



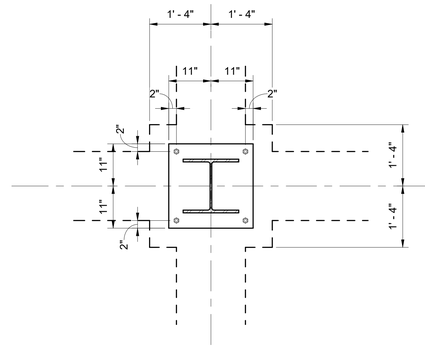


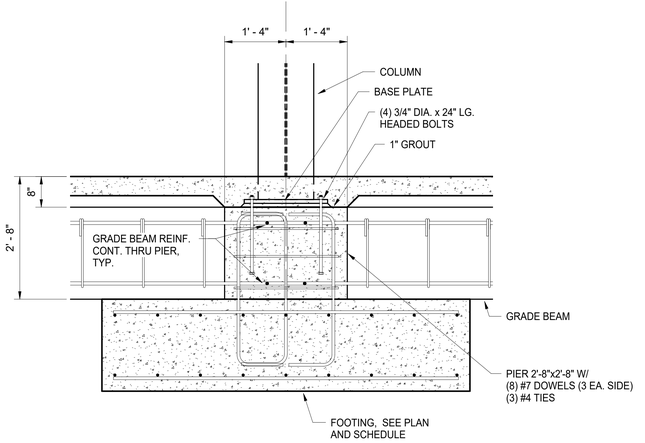
2 S401 3/4" = 1'-0"





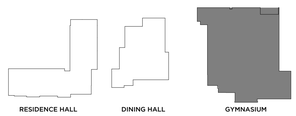
3 S401 3/4" = 1'-0"





4 S401 3/4" = 1'-0"

KEY PLAN



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9-17-25
STATE OF MISSISSIPPI

Project No. : 24053
Date: SEPTEMBER 18, 2025
Drawn: KSM
Checked: KSM
Revisions: 1 9-30-25, 2 10-9-25

THE COMMONS - PACKAGE B (ADD ALTERNATE #2)
(RANKINCAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
S401
COLUMN SCHEDULE AND DETAILS

1" =1'-0" GRAPHIC SCALE
¾" =1'-0" GRAPHIC SCALE
½" =1'-0" GRAPHIC SCALE
3/8" =1'-0" GRAPHIC SCALE
1½" =1'-0" GRAPHIC SCALE
3" =1'-0" GRAPHIC SCALE

ENGINEERING
RESOURCE GROUP, INC.

October 9, 2025

Hinds Community College Commons
ERG# 25.010

I. PERTAINING TO THE DRAWINGS

PACKAGE A		
Item 1.	Reference:	Sheet FP001
	Scope:	Replace the sheet in its entirety
Item 2.	Reference:	Sheet FP101
	Scope:	Replace the sheet in its entirety
Item 3.	Reference:	Sheet FP103
	Scope:	Replace the sheet in its entirety
Item 4.	Reference:	Sheet FP111
	Scope:	Replace the sheet in its entirety
Item 5.	Reference:	Sheet FP301
	Scope:	Replace the sheet in its entirety
Item 6.	Reference:	Sheet FP311
	Scope:	Replace the sheet in its entirety
Item 7.	Reference:	Sheet M101
	Scope:	Replace the sheet in its entirety
Item 8.	Reference:	Sheet M602
	Scope:	Replace the sheet in its entirety
Item 9.	Reference:	Sheet M611
	Scope:	Replace the sheet in its entirety

PACKAGE B		
Item 1.	Reference:	Sheet FP001
	Scope:	Replace the sheet in its entirety
Item 2.	Reference:	Sheet FP101
	Scope:	Replace the sheet in its entirety
Item 3.	Reference:	Sheet FP301
	Scope:	Replace the sheet in its entirety
Item 4.	Reference:	Sheet P101
	Scope:	Replace the sheet in its entirety
Item 5.	Reference:	Sheet P104
	Scope:	Replace the sheet in its entirety

FIRE PROTECTION SHEET INDEX

FP001	ABBREVIATIONS, LEGENDS, GENERAL NOTES, CODE REVIEW
FP101	RESIDENCE HALL FIRST FLOOR PLAN - FIRE PROTECTION
FP102	RESIDENCE HALL SECOND FLOOR PLAN - FIRE PROTECTION
FP103	RESIDENCE HALL THIRD FLOOR PLAN - FIRE PROTECTION
FP111	DINING HALL FLOOR PLAN - FIRE PROTECTION
FP301	RESIDENCE HALL FIRE PROTECTION DETAILS & SCHEDULES
FP302	RESIDENCE HALL FIRE PROTECTION SCHEMATIC
FP311	DINING HALL - FIRE PROTECTION DETAILS & SCHEDULES

FIRE PROTECTION FLOW DATA

52 P.S.I. - STATIC

43 P.S.I. - RESIDUAL

1061 GPM FLOW

FLOW TEST DATA PROVIDED BY SOUTHERN FIRE ON 7/31/25.

CONTRACTOR'S HYDRAULIC CALCULATIONS SHALL PROVIDE FOR A MINIMUM OF 7 PSI SAFETY MARGIN.

CODE REVIEW

APPLICABLE CODES (BASIS OF DESIGN)
CODE REQUIREMENTS INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

2018 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 1) FIRE CODE

2018 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEM

2018 NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

2018 INTERNATIONAL BUILDING CODE

2018 INTERNATIONAL FIRE CODE

FIRE PROTECTION LEGEND

PIPING / ACCESSORIES

—F—	FIRE PROTECTION SPRINKLER PIPING
—SP—	FIRE PROTECTION STANDPIPE SUPPLY
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	OS&Y GATE VALVE (SUPERVISED)
	OS&Y GATE VALVE OR INDICATING BUTTERFLY VALVE (SUPERVISED)
	CHECK VALVE
	FLOW SWITCH
	BUTTERFLY VALVE WITH TAMPER SWITCH
	STAND PIPE CONTROL VALVE TAMPER SWITCH
	STAND PIPE WITH HOSE VALVE
	PRESSURE GAGE W/SNUBBER
	WALL MOUNTED FIRE DEPARTMENT CONNECTION
	REMOTE FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	POST INDICATOR VALVE

SPRINKLER HEADS

	UPRIGHT SPRINKLER HEAD
	CONCEALED PENDANT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AH	AMP HOUR
AHJ	AUTHORITY HAVING JURISDICTION
ALM	ALARM
AWG	AMERICAN WIRE GAUGE
CLG	CEILING
DIA	DIAMETER
DN	DOWN
FH	FIRE HYDRANT
FD	FLOOR DRAIN
FLR	FLOOR
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSE POWER HP
HR	HOUR
ID	INSIDE DIMENSION
KW	KILOWATT
LBS	POUNDS
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN THIS CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIMENSION
P	PUMP
PA	PREACTION
PLBG	PLUMBING
P.I.V.	POST INDICATOR VALVE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH (GAUGE)
RPM	REVOLUTIONS PER MINUTE
SP	SPRINKLER
SF	SQUARE FEET
TS	TAMPER SWITCH
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
V	VENT
VTR	VENT THRU ROOF
W/	WITH
W/O	WITHOUT
EFP	EXISTING FIRE PROTECTION

FIRE PROTECTION GENERAL NOTES

GENERAL

1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE FIRE SUPPRESSION SYSTEM WHERE SHOWN ON DRAWINGS AND REQUIRED BY THE APPROPRIATE BUILDING CODES, INCLUDING, BUT NOT LIMITED TO NFPA 13.
2. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, DETAILED CONSTRUCTION DRAWINGS AND HYDRAULIC CALCULATIONS TO THE ENGINEER AND FIRE SUB-CODE OFFICIAL, PRIOR TO THE INSTALLATION OF ANY EQUIPMENT. OBTAIN CERTIFICATE OF INSPECTION AND APPROVAL FROM THE SAME AGENCY HAVING JURISDICTION AFTER INSTALLATION. THE FIRE SUPPRESSION SYSTEM SPECIFICATIONS ARE PERFORMANCE BASED ONLY. THE CONTRACTOR(S) SHALL BE FULLY RESPONSIBLE FOR THE DESIGN AND TO PROVIDE ALL NECESSARY EQUIPMENT, HARDWARE, CONTROLS, SENSOR, ETC. PER LOCAL FIRE PROTECTION CODES.
3. NUMBERS AND LOCATIONS OF SPRINKLER HEADS, SHOWN ON THESE PLANS, ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT NUMBER AND LOCATIONS SHALL BE SHOWN ON SPRINKLER CONSTRUCTION SHOP DRAWINGS WHICH SHALL BE PROVIDED BY THE CONTRACTOR.
4. ALL NEW SPRINKLER PIPING AND HEADS SHALL BE LOCATED ONLY AS INDICATED ON APPROVED SHOP DRAWINGS. SHOP DRAWINGS MUST BE SUBMITTED AND APPROVED BEFORE STARTING WORK. ANY DEVIATIONS MADE TO APPROVED LAYOUT MUST BE SUBMITTED TO ENGINEER AS "AS-BUILT" DRAWINGS.
5. ALL SPRINKLER SYSTEM COMPONENTS TO BE APPROVED BY THE ENGINEER AND GENERAL CONTRACTOR AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR.
6. COORDINATE INTERLOCKS, SIGNALING AND ALARM CONTACTS WITH FIRE ALARM AND ELECTRICAL CONTRACTORS. COORDINATE DUCT SMOKE DETECTION WITH MECHANICAL CONTRACTOR.
7. CONTRACTOR TO DESIGN PER FM GLOBAL STANDARDS UNLESS OTHERWISE INDICATED.
8. IN GENERAL, WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: COMPLETE OVERHEAD AUTOMATIC SPRINKLER SYSTEMS AS INDICATED ON THE CONTRACT DRAWINGS AND CONTRACT SPECIFICATIONS. CONNECTION TO UNDERGROUND FIRE SERVICE. SYSTEMS AND DEVICE TESTING. ALL NECESSARY PERMITS.
9. THE FIRE SPRINKLER SYSTEMS FOR PROTECTION OF THE BUILDING SHALL BE HYDRAULICALLY DESIGNED WET PIPE SPRINKLER SYSTEMS AS SPECIFIED IN THE FOLLOWING:
   A. OFFICES, INCLUDING CORRIDORS, LOUNGES, AND SIMILAR SPACES SHALL BE DESIGNED FOR A LIGHT HAZARD OCCUPANCY TO PROVIDE A MINIMUM DESIGN DISCHARGE DENSITY OF 0.10 GPM PER SQ FT OVER THE HYDRAULIC CALCULATION AREA OR ROOM.
   B. MECHANICAL, MINOR STORAGE, AND SIMILAR AREAS OF THE BUILDING SHALL BE DESIGNED FOR AN ORDINARY HAZARD GROUP 1 OCCUPANCY. A MINIMUM DESIGN DISCHARGE DENSITY OF 0.15 GPM PER SQ FT OVER THE HYDRAULIC CALCULATION AREA OR ROOM.
   C. BULK STORAGE AND SIMILAR AREAS AREAS OF THE BUILDING SHALL BE DESIGNED FOR AN ORDINARY HAZARD GROUP 2 OCCUPANCY. A MINIMUM DESIGN DISCHARGE DENSITY OF 0.20 GPM PER SQ FT OVER THE HYDRAULIC CALCULATION AREA OR ROOM.
   D. ALL SPRINKLERS WITHIN THE PROJECT AREA SHALL BE NEW, QUICK RESPONSE, ORDINARY TEMPERATURE RATING (EXCEPT AS REQUIRED BY NFPA 13).
10. PROVIDE A COMPLETE AUTOMATIC FIRE SUPPRESSION SYSTEM FOR ALL NEW AND/OR EXISTING INTERIOR AND EXTERIOR COVERED SPACES, INTERSTITIAL SPACES, ATTICS, OVERHANGS, CANOPIES, ETC. AS REQUIRED FOR A COMPREHENSIVE FIRE SPRINKLER SYSTEM.
11. ALL EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND/OR FACTORY MUTUAL APPROVED.
12. ALL MATERIALS AND EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL BE NEW, FIRST GRADE STANDARD, CURRENT PRODUCTS OF A MANUFACTURER REGULARLY ENGAGED IN THE PRODUCTION OF SUCH MATERIALS AND EQUIPMENT, WHERE TWO OR MORE PIECES OF EQUIPMENT PERFORMING THE SAME FUNCTION ARE REQUIRED, THEY SHALL BE THE PRODUCT OF ONE MANUFACTURER AND EXACT DUPLICATES.

PIPING

1. ALL PIPING AND EQUIPMENT SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE. HANGER AND SUPPORTS SHALL BE SPECIFICALLY APPROVED FOR USE IN SPRINKLER SYSTEMS.
2. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF HANGER RODS IN REQUIRED LOCATIONS, PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED AND APPROVED.
3. NO PIPING SHALL BE HUNG FROM THE PIPING OF OTHER TRADES OR DUCTWORK. HANGERS SHALL BE OF HEAVY CONSTRUCTION, SUITABLE FOR THE SIZE OF PIPE TO BE SUPPORTED.
4. PIPING PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED AND SEALED TO A FIRE RATING EQUAL TO THE WALL IT PENETRATES.
5. ALL SPRINKLER PIPING 2" AND BELOW SHALL BE SCHEDULE 40 STEEL. SCHEDULE 10 PIPING SHALL BE ALLOWABLE FOR PIPE SIZES 2-1/2" AND ABOVE.
6. ALL SPRINKLER PIPING IN CRITICAL AREAS MUST BE SCHEDULE 40 STEEL WITH THREADED FITTINGS OR VICTAULIC-TYPE FITTINGS WHERE PERMITTED.
7. FIRE PROTECTION PIPING LAYOUT IS SCHEMATIC IN NATURE AND DOES NOT INDICATE ALL REQUIRED FITTINGS, DRAIN VALVES, ETC.
8. ALL SPRINKLER PIPING SHALL BE INSTALLED SO THAT THE SYSTEM CAN BE DRAINED. PROVIDE DRAINS FOR TRAPPED PIPING IN ACCORDANCE WITH NFPA 13.
9. ALL PIPES PASSING THROUGH FOUNDATION WALLS TO BE PROTECTED.
10. SPRINKLER SYSTEM DRAIN LINES SHALL BE FULLY COORDINATED WITH ALL TRADES.
11. THE USE OF SADDLE TEES FITTED WITH RUBBER GASKETS IS NOT PERMITTED.
12. PIPE SIZES INDICATED ON THE CONTRACT DRAWINGS SHALL NOT BE REDUCED. THEY SHALL HOWEVER BE INCREASED IF REQUIRED BY HYDRAULIC CALCULATIONS.
13. BOLT ON OR STRAP ON BRANCH AND OUTLET FITTINGS WILL NOT BE PERMITTED. SIMILARLY, HOLE CUT PIPING SYSTEM OR STRAPLESS OUTLETS WILL NOT BE PERMITTED.
14. BOLT ON OR STRAP ON BRANCH AND OUTLET FITTINGS WILL NOT BE PERMITTED. SIMILARLY, HOLE CUT PIPING SYSTEM OR STRAPLESS OUTLETS WILL NOT BE PERMITTED.
15. GROOVED COUPLINGS SHALL BE UL LISTED AND/OR FM APPROVED FOR FIRE PROTECTION SERVICE. PLAIN-END TYPE PIPE FITTINGS AND COUPLINGS SHALL NOT BE USED.
16. INSTALL HANGERS, BRAIDED HOSE DROP CONNECTIONS, SWING JOINTS AND BRACING IN ACCORDANCE WITH NFPA 13.
17. SYSTEM PIPING SHALL BE INSTALLED SUCH THAT NO JOINTS, FITTINGS OR DEVICES OCCUR DIRECTLY OVER ELECTRICAL EQUIPMENT OR WITHIN THE CLEARANCE SPACE AS REQUIRED BY THE NATIONAL ELECTRIC CODE (NEC).
18. THE CONTACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS AND PENETRATIONS REQUIRED FOR THE FIRE PROTECTION PIPING.
19. CUTTING STRUCTURAL MEMBERS FOR THE PASSING OF FIRE PROTECTION PIPING OR PIPE HANGER FASTENING WILL NOT BE PERMITTED EXCEPT WITH APPROVAL OF THE PROFESSIONAL.
20. SUITABLE MEANS SHALL BE PROVIDED AT EACH HOLE OR PENETRATION TO MAINTAIN THE DESIGNED FIRE RESISTANCE RATING OF THE WALL, CEILING, OR FLOOR ASSEMBLY.
21. INSTALL SPLIT WALL PLATES OR ESCUTCHEONS WHERE EXPOSED PIPING PASSES THROUGH A FINISHED FLOOR, WALL OR CEILING. THEY SHALL FIT SNUGLY AROUND PIPING. THE FINISH OF ESCUTCHEONS OR WALL PLATES SHALL MATCH THE COLOR OF ADJACENT WALLS, CEILINGS, OR FLOORS.
22. UPON COMPLETION OF INSTALLATION AND WHILE PIPING IS STILL EXPOSED, HYDROSTATICALLY TEST THE SYSTEMS AT 200 PSI (OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER) FOR A PERIOD OF 2 HOURS. PORTIONS OF THE SYSTEM MAY BE TESTED AS THEY ARE COMPLETED. SEVENTY-TWO HOUR NOTICE SHALL BE GIVEN TO THE PROFESSIONAL AND THE AUTHORITY HAVING JURISDICTION PRIOR TO ANY TEST. A PRE-INSTALLATION INSPECTION OF PIPE, FITTINGS, AND DEVICES IS REQUIRED.
23. WHERE FLOOR OPENINGS ARE NOT CLASSIFIED AS ATRIUMS, THE SPRINKLERS AT THE CEILING MUST BE ZONED WITH LOWER LEVEL IF IT IS ENCLOSED ON THE UPPER LEVEL (THE ENCLOSURE IS EFFECTIVELY CREATING A HIGH CEILING). OTHERWISE, SPRINKLERS MUST BE ZONED WITH THE UPPER LEVEL.

SPRINKLERS

1. IN AREAS WITHOUT SUSPENDED CEILINGS, LOCATE SPRINKLER HEADS ABOVE AND BELOW ALL DUCTS OVER 48" IN WIDTH.
2. IN AREAS WITH SUSPENDED CEILINGS, SPRINKLER HEADS SHALL BE INSTALLED CENTERED IN BOTH DIRECTIONS OF THE CEILING TILE. CONCEALED SPRINKLER HEADS SHALL BE USED FOR ALL FINISHED CEILING AREAS.
3. UPRIGHT SPRINKLERS SHALL BE INSTALLED IN AREAS WITHOUT SUSPENDED CEILINGS. PROVIDE PROTECTIVE CAGE ON ALL HEADS IN AREAS UNDER DUCTS OR SUBJECT TO ACCIDENTAL DAMAGE.
4. ALL PENDENT AND SIDEWALL SPRINKLERS LOCATED WITHIN 7 FT OF THE FLOOR OR SUBJECT TO MECHANICAL DAMAGE SHALL BE PROVIDED WITH LISTED SPRINKLER GUARDS COMPATIBLE WITH THE SPRINKLER MODELS AND TYPES ON WHICH THEY ARE INSTALLED.
5. STOCK OF EXTRA SPRINKLERS SHALL BE FURNISHED AS REQUIRED FOR EACH TEMPERATURE RATING. EXTRA SPRINKLERS IN THE QUANTITIES REQUIRED BY NFPA 13, CABINETS, AND WRENCHES SHALL BE PROVIDED.
6. DISTANCE OF SPRINKLERS FROM HEAT SOURCES SHALL BE IN ACCORDANCE WITH NFPA.
7. SPRINKLER HEADS INSTALLED IN TILE CEILINGS SHALL BE INSTALLED IN THE CENTER OF THE TILES.
8. SPRINKLER GUARDS MUST BE PROVIDED IN THE FOLLOWING: SPRINKLERS INSTALLED LESS THAN 7 FT FROM FLOOR, SPRINKLERS INSTALLED WITHIN ELEVATOR MACHINE ROOMS AND ELEVATOR PITS, SPRINKLERS INSTALLED WITHIN ELECTRICAL CLOSETS AND EQUIPMENT ROOMS
9. COORDINATE SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. CHANGES ARE SUBJECT TO APPROVAL BY ARCHITECT AND SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

1" = 1'-0" GRAPHIC SCALE
3/4" = 1'-0" GRAPHIC SCALE
1/2" = 1'-0" GRAPHIC SCALE
3/8" = 1'-0" GRAPHIC SCALE
1/16" = 1'-0" GRAPHIC SCALE

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JOHN CHRISTOPHER GRANT
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9-18-2025
STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

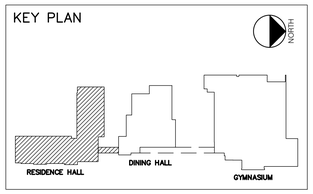
Project No.: 24053
Date: SEPTEMBER 18, 2025
Drawn: CMM/DB
Checked: JCG
Revisions: 1 ADDENDUM #2 (10-9-2025)

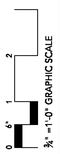
THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

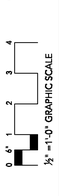
Sheet Number:
FP001
FIRE PROTECTION LEGEND

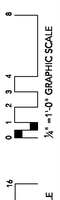
ENGINEERING RESOURCE GROUP, INC.
ERG-25.10.01

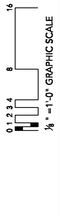
THE COMMONS - PACKAGE A
PEARL, MS
24053

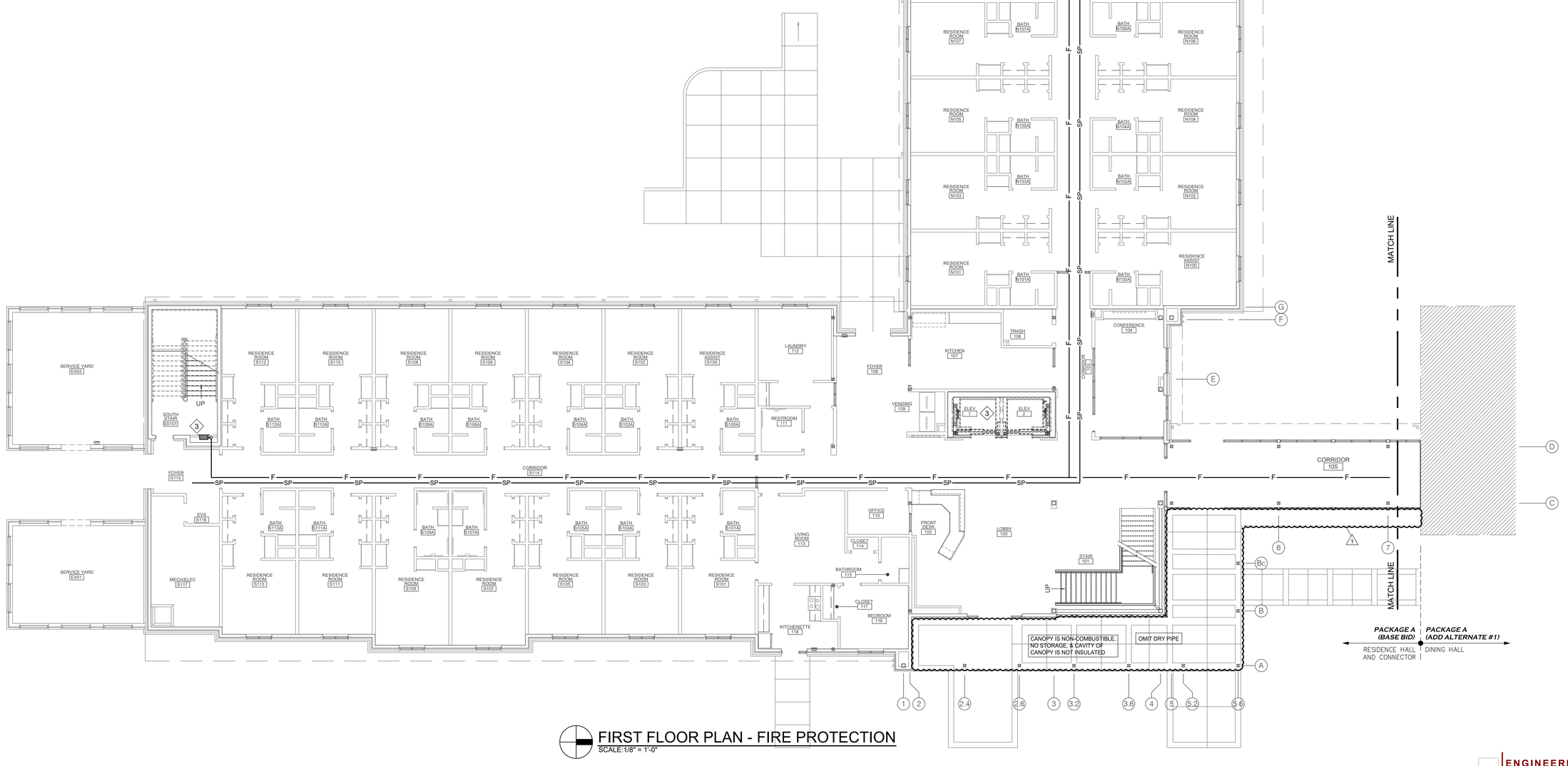












FIRST FLOOR PLAN - FIRE PROTECTION
SCALE:1/8" = 1'-0"

PLAN NOTES

1. SPRINKLER CONTRACTOR TO CONNECT AT FLANGES ABOVE FLOOR. PLUMBING CONTRACTOR SHALL INSTALL BELOW GRADE PIPING.
2. FIRE DEPARTMENT CONNECTION WITH CAP AND CHAIN IN CABINET. SEE DETAIL.
3. FIRE DEPARTMENT CONNECTION BOX WITH CAP AND CHAIN AND FLOW CONTROLS BOX FOR FIRST FLOOR LEVEL. CONTINUE TO CALCULATED SPRINKLER SYSTEM OR FIRST FLOOR.
4. VERTICAL INCOMING FIRE MAIN WITH NEW BACKFLOW PREVENTER IN VERTICAL. SEE DETAIL.
5. INSTALL FIRE PROTECTION IN ELEVATOR SHAFT AS REQUIRED.
6. JOCKEY PUMP CONTROL PANEL.
7. FIRE PUMP CONTROL PANEL.
8. 4" DOWN TO BELOW GRADE AND CONTINUE TO REMOTE LOCATION WITH SIAMESE CONNECTION WITH ESCUTCHEON I.D. PLATE
9. FIRE PUMP TEST MANIFOLD.
10. TURN DOWN DRAIN FROM STANDPIPE. COORDINATE EXACT LOCATION.
11. STAND PIPE CONTROL VALVE WITH (TAMPER SWITCH)
12. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO VERIFY FIRE PROTECTION PIPING ENTERING BUILDING ALONGSIDE REFRIGERANT PIPING AND ALL OTHER UTILITIES.

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9-18-2025
STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

Project No. : 24053
Date: SEPTEMBER 18, 2025
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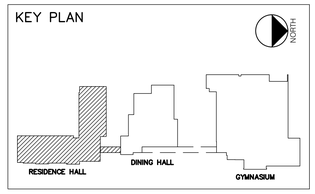
Revisions: 1 ADDENDUM #2 (10-9-2025)

THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
FP101
RESIDENCE HALL
FIRST FLOOR PLAN
FIRE PROTECTION

ENGINEERING RESOURCE GROUP, INC
ERG
ERG25.10.0



GENERAL NOTE

ATTIC IS CONSTRUCTED ON NON-COMBUSTIBLE MATERIALS. NO STORAGE IN ATTIC. NO MECHANICAL EQUIPMENT IN ATTIC. DIVISION 21 CONTRACTOR TO DETERMINE IF SPRINKLER IS REQUIRED IN ATTIC AND PROVIDE IF REQUIRED. INSULATION IS AT ROOF DECK; THEREFORE, A WET PIPE SYSTEM IS ALLOWED IN ATTIC.

PLAN NOTES

1. FIRE DEPARTMENT CONNECTION WITH CAP AND CHAIN IN CABINET. SEE DETAIL.
2. FIRE DEPARTMENT CONNECTION BOX WITH CAP AND CHAIN AND FLOW CONTROLS BOX FOR FIRST FLOOR LEVEL. CONTINUE TO CALCULATED SPRINKLER SYSTEM OR FIRST FLOOR.

THIRD FLOOR PLAN - FIRE PROTECTION

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

3" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
1" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
⅛" = 1'-0" GRAPHIC SCALE

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THE COMMONS - PACKAGE A
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(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
FP103
RESIDENCE HALL
THIRD FLOOR PLAN
FIRE PROTECTION

ENGINEERING RESOURCE GROUP, INC.
ERG
ERG.25.10.01

PLAN NOTES

1. SPRINKLER CONTRACTOR TO CONNECT AT FLANGES ABOVE FLOOR. PLUMBING CONTRACTOR SHALL INSTALL BELOW GRADE PIPING. WET PIPE FIRE SPRINKLER RISER. SEE DETAIL OF WET PIPE FIRE PROTECTION RISER FOR ADDITIONAL INFORMATION.
2. FIRE PROTECTION PIPING SHALL BE ROUTED CONCEALED ABOVE CEILINGS. SIZE AND ROUTING CONTINUATION PROVIDED IN CONJUNCTION WITH FIRE PROTECTION CONTRACTOR PROVIDED HYDRAULIC CALCULATIONS.
3. ENTIRE BUILDING SHALL BE PROTECTED WITH NEW WET PIPE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 13.

OMIT DRY PIPE NOTES

1

OMIT DRY PIPE

SPRINKLER HEADS INSTALLED IN HATCH AREA TO BE BLACK

CANOPY IS NON-COMBUSTIBLE, NO STORAGE, & CAVITY OF CANOPY IS NOT INSULATED

SLOPE

OMIT DRY PIPE

MATCH LINE

MATCH LINE

MATCH LINE

MATCH LINE

PACKAGE A (BASE BID) — RESIDENCE HALL AND CONNECTOR

PACKAGE A (ADD ALTERNATE #1) — DINING HALL

PACKAGE A (ADD ALTERNATE #1) — DINING HALL

PACKAGE B (ADD ALTERNATE #2) — GYMNASIUM AND CANOPY

ADD ALTERNATE #1 OVERALL FLOOR PLAN - FIRE PROTECTION

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

3" =1'-0" GRAPHIC SCALE

1½" =1'-0" GRAPHIC SCALE

1" =1'-0" GRAPHIC SCALE

¾" =1'-0" GRAPHIC SCALE

½" =1'-0" GRAPHIC SCALE

⅜" =1'-0" GRAPHIC SCALE

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JOSEPH CHRISTOPHER GRANT — LICENSED PROFESSIONAL ENGINEER — 17087 — 09.18.25 — STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

Project No. : 24053
Date: SEPTEMBER 18, 2025
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Revisions: 1 ADDENDUM #2 (10-9-2025)

THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:

FP111

DINING HALL
FIRE PROTECTION

ENGINEERING RESOURCE GROUP, INC.
ERG
ERG25.10.03

THE COMMONS - PACKAGE A
PEARL, MS
19053

RESIDENCE HALL DETAILS AND SCHEDULES

FIRE PROTECTION BACKFLOW PREVENTER

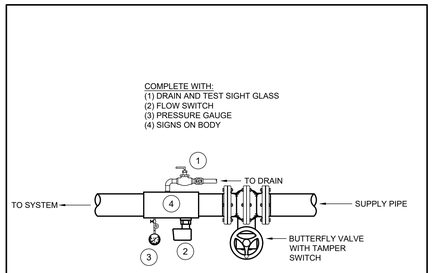
MARK	DESCRIPTION	MAKE	MODEL	SERVES	REMARKS
FPBFP-1	FIRE PROTECTION BACKFLOW PREVENTER	WATTS	757OSY NRS	FIRE PROTECTION	---

MISCELLANEOUS FIRE PROTECTION POWER, CONTROL AND INTERLOCK WIRING CONNECTIONS

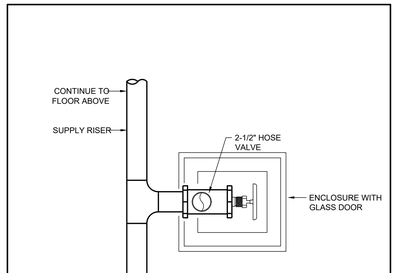
TAG	DESCRIPTION	POWER WIRING	CONTROL & INTERLOCK WIRING	ELECTRICAL V/Ø	REMARKS
(RISER)	FIRE PROTECTION RISER VALVE	DIV 26 ELECTRICAL	DIV 28 FIRE ALARM	120/1	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
EAB	ELECTRIC ALARM BELL	DIV 26 ELECTRICAL	DIV 28 FIRE ALARM	120/1	LOCATED ON WALL ADJACENT TO FIRE PROTECTION RISER ROOM. SEE FIRE PROTECTION RISER DETAIL FOR ADDITIONAL INFORMATION.
F1	ZONE 1 FIRE PROTECTION FLOW SWITCH (FIRST FLOOR)	DIV 26 ELECTRICAL	DIV 28 FIRE ALARM	120/1	FLOW SWITCH TO MONITOR SYSTEM FLOW STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
F2	ZONE 2 FIRE PROTECTION FLOW SWITCH (SECOND FLOOR)	DIV 26 ELECTRICAL	DIV 28 FIRE ALARM	120/1	FLOW SWITCH TO MONITOR SYSTEM FLOW STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
F3	ZONE 3 FIRE PROTECTION FLOW SWITCH (THIRD FLOOR)	DIV 26 ELECTRICAL	DIV 28 FIRE ALARM	120/1	FLOW SWITCH TO MONITOR SYSTEM FLOW STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
					OMIT AIR COMPRESSOR FOR DRY PIPE

FIRE PUMP

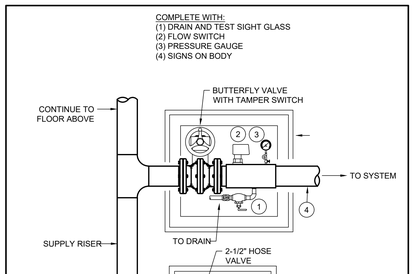
MARK	MAKE AND MODEL	DUTY	TYPE	LOCATION	GPM EACH	PSI	PUMP HEAD	VOLTAGE/ PHASE	MOTOR HP	RPM	EMERGENCY POWER	REMARKS
JP-1	GRUNDFOS CR 1s-7 A-B-A-E-HQQE	FIRE PROTECTION	JOCKEY PUMP	FIRE PUMP ROOM	5	60	*	480V/3Ø	1/2	--	YES	TORNATECH CONTROLLER JPLT. ACROSS THE LINE STARTER
FP-1	PEERLESS PUMP 4AEF11	FIRE PROTECTION	FIRE PUMP	FIRE PUMP ROOM	500	50	*	480V/3Ø	30	1760	YES	HORIZONTAL SPLIT CASE AND PACKAGED ELECTRIC MOTOR DRIVE, SOFT START FIRE PUMP CONTROLLER W/TRANSFER SWITCH.



FLOW CONTROL DETAIL FOR ZONE — NO SCALE



FIRE DEPARTMENT CONNECTION IN BOX DETAIL IN WEST STAIRWELL — NO SCALE

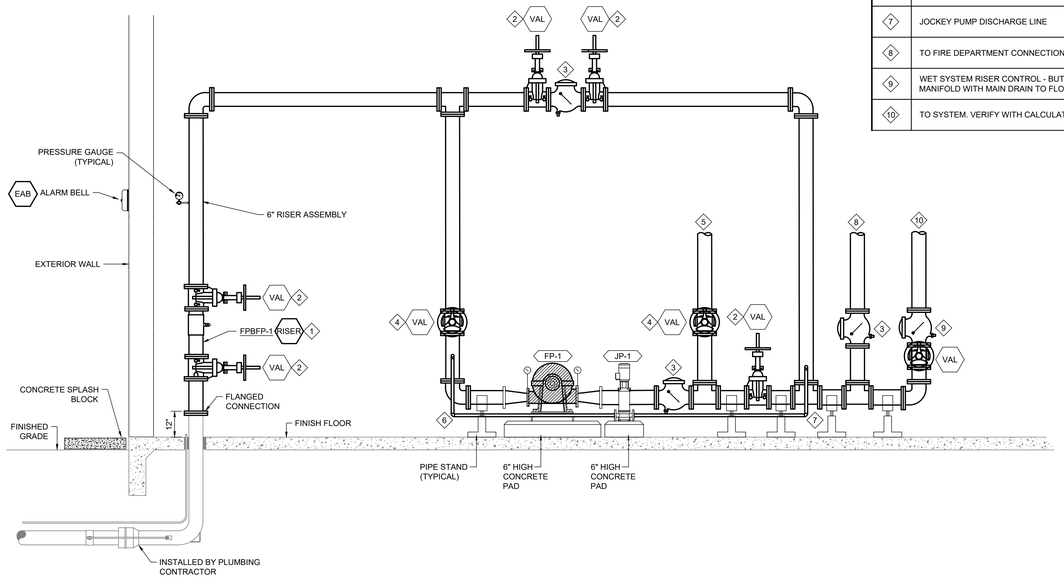


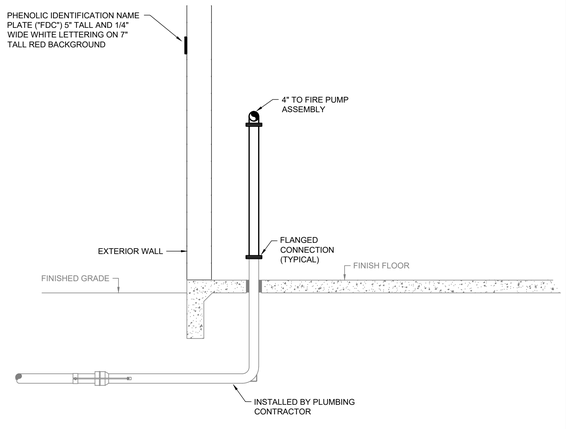
FLOW CONTROL DETAIL AND F.D.C. IN BOX IN EAST STAIRWELL — NO SCALE

FIRE PUMP ASSEMBLY

KEY NOTE	DESCRIPTION
1	6" UL LISTED DOUBLE-CHECK BACKFLOW PREVENTER WITH OS&Y GATE VALVES AND TAMPER SWITCHES. ASSEMBLY SHALL BE APPROVED FOR INSTALLATION IN VERTICAL ORIENTATION
2	BUTTERFLY VALVE WITH TAMPER SWITCH
3	CHECK VALVE
4	OS&Y VALVE WITH TAMPER SWITCH
5	TO TEST HEADER. SEE PLANS FOR CONTINUATION
6	JOCKEY PUMP SUCTION LINE
7	JOCKEY PUMP DISCHARGE LINE
8	TO FIRE DEPARTMENT CONNECTION. SEE PLANS FOR CONTINUATION
9	WET SYSTEM RISER CONTROL - BUTTERFLY VALVE W/TAMPER SWITCH, CHECK VALVE, RISER MANIFOLD WITH MAIN DRAIN TO FLOOR DRAIN AND PRESSURE RELIEF
10	TO SYSTEM. VERIFY WITH CALCULATION NUMBER OF ZONES AND MODIFY AS REQUIRED.

GENERAL NOTES:
1. FIRE PROTECTION CONTRACTOR SHALL DETERMINE ACTUAL REQUIRED PIPE SIZES TO ZONE DISTRIBUTION SYSTEMS.
2. UNDERGROUND METALLIC PIPING SHALL BE PROTECTED BY POLYETHYLENE SLEEVES.
3. ALL EXPOSED FIRE SUPPRESSION PIPING SHALL BE PAINTED (RED).
4. PIPING FROM BELOW GRADE STUBBED UP TO 12" A.F.F. BY PLUMBING SUBCONTRACTOR.
5. FIRE PROTECTION CONTRACTOR TO CONNECT FIRE PROTECTION PIPING AT 12" A.F.F.
6. FIRE SPRINKLER CONTRACTOR SHALL DETERMINE PIPE SIZES WITH HYDRAULIC CALCULATIONS.
7. FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR ALL ACCESSORIES, VALVES, PIPING, ETC. NOT SHOWN ON DETAIL FOR A COMPLETE SYSTEM AS REQUIRED PER NFPA.





FIRE PUMP PIPING SCHEMATIC — NO SCALE

OMIT AIR COMPRESSOR FOR DRY PIPE

1" = 1'-0" GRAPHIC SCALE
3/4" = 1'-0" GRAPHIC SCALE
1 1/2" = 1'-0" GRAPHIC SCALE
3" = 1'-0" GRAPHIC SCALE
3/8" = 1'-0" GRAPHIC SCALE

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JASON CHRISTOPHER GRANT — LICENSED PROFESSIONAL ENGINEER — 17087 — 9-18-2025 — STATE OF MISSISSIPPI

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PEARL, MISSISSIPPI

Sheet Number:
FP301
RESIDENCE HALL
FIRE PROTECTION
DETAILS & SCHEDULES

ENGINEERING RESOURCE GROUP, INC.
ERG
ERG25.10.01

DINING HALL DETAILS AND SCHEDULES

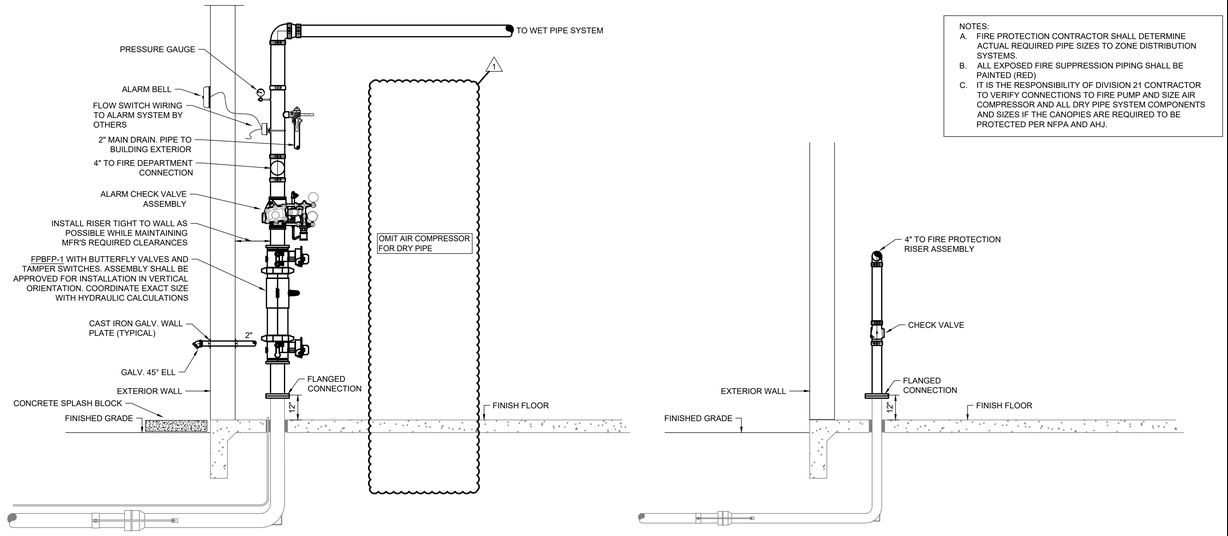
FIRE PROTECTION BACKFLOW PREVENTER

MARK	DESCRIPITION	MAKE	MODEL	SERVES	REMARKS
FPBFP-1	FIRE PROTECTION BACKFLOW PREVENTER	WATTS	757OSY NRS	FIRE PROTECTION	

MISCELLANEOUS FIRE PROTECTION POWER, CONTROL AND INTERLOCK WIRING CONNECTIONS

TAG	DESCRIPTION	POWER WIRING	CONTROL & INTERLOCK WIRING	ELECTRICAL V/Ø	REMARKS
RISER	FIRE PROTECTION RISER VALVE	DIV 26 ELECTRICAL	DIV 28 FIRE ALARM	---	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
EAB	ELECTRIC ALARM BELL	DIV 26 ELECTRICAL	DIV 28 FIRE ALARM	120/1	LOCATED ON WALL ADJACENT TO FIRE PROTECTION RISER ROOM. SEE FIRE PROTECTION RISER DETAIL FOR ADDITIONAL INFORMATION.
F1	ZONE 1 FIRE PROTECTION FLOW SWITCH	DIV 26 ELECTRICAL	DIV 28 FIRE ALARM	---	FLOW SWITCH TO MONITOR SYSTEM FLOW STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.

1 OMIT AIR COMPRESSOR FOR DRY PIPE



NOTES:
A. FIRE PROTECTION CONTRACTOR SHALL DETERMINE ACTUAL REQUIRED PIPE SIZES TO ZONE DISTRIBUTION SYSTEMS.
B. ALL EXPOSED FIRE SUPPRESSION PIPING SHALL BE PAINTED (RED)
C. IT IS THE RESPONSIBILITY OF DIVISION 21 CONTRACTOR TO VERIFY CONNECTIONS TO FIRE PUMP AND SIZE AIR COMPRESSOR AND ALL DRY PIPE SYSTEM COMPONENTS AND SIZES IF THE CANOPIES ARE REQUIRED TO BE PROTECTED PER NFPA AND AHJ.

WET & DRY PIPE FIRE PROTECTION RISER DETAIL — NO SCALE

1" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
⅜" = 1'-0" GRAPHIC SCALE
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JOSEPH CHRISTOPHER GRANT — LICENSED PROFESSIONAL ENGINEER — 17087 09.18.25 — STATE OF MISSISSIPPI

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(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
FP311
DINING HALL - FIRE PROTECTION DETAILS & SCHEDULES

ENGINEERING RESOURCE GROUP, INC.
ERG.25.10.01

THE COMMONS - PACKAGE A
PEARL, MS
24053

KEY PLAN

1" = 1'-0" GRAPHIC SCALE
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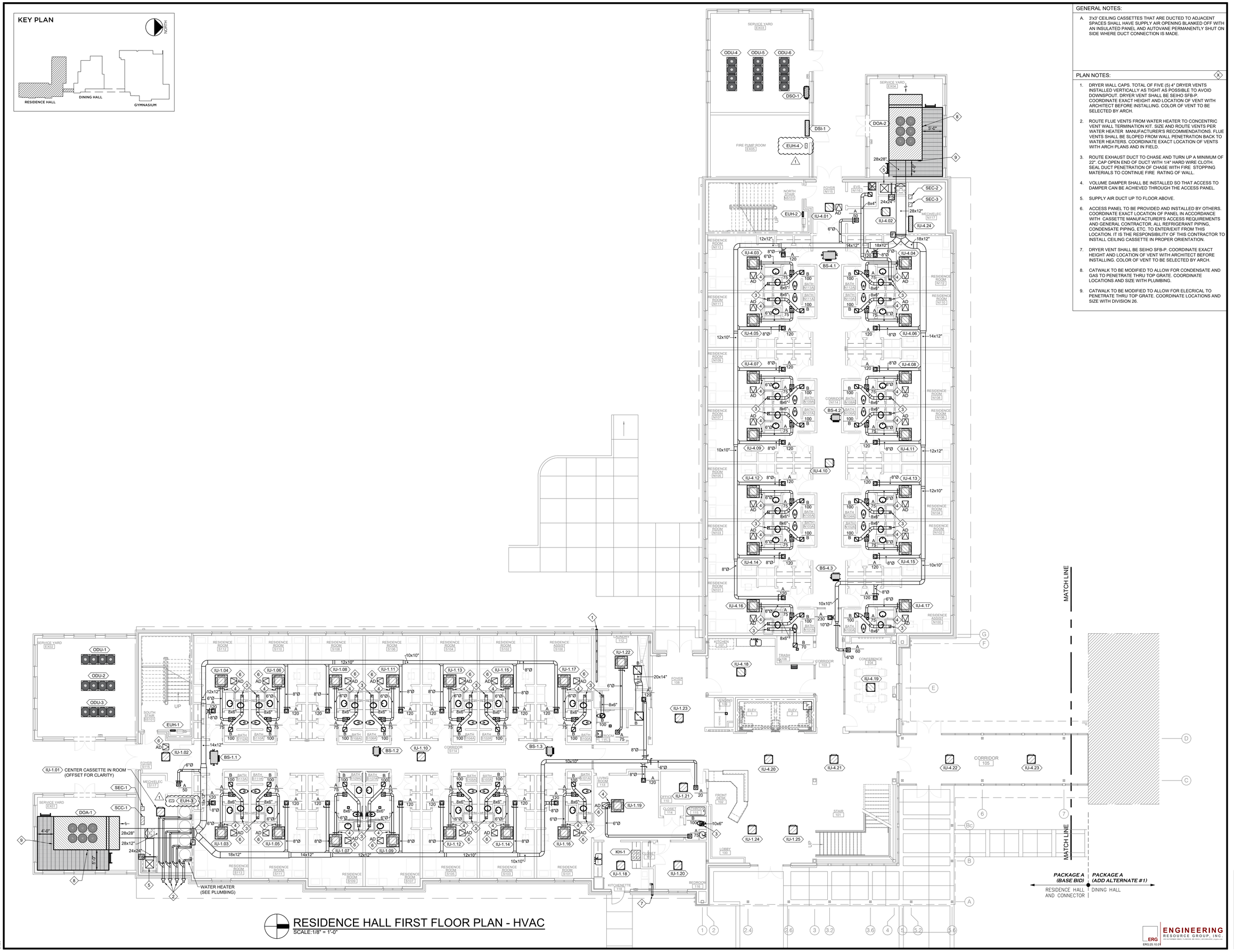

RESIDENCE HALL FIRST FLOOR PLAN - HVAC
SCALE:1/8" = 1'-0"

GENERAL NOTES:

A. 3'x3' CEILING CASSETTES THAT ARE DUCTED TO ADJACENT SPACES SHALL HAVE SUPPLY AIR OPENING BLANKED OFF WITH AN INSULATED PANEL AND AUTOVANE PERMANENTLY SHUT ON SIDE WHERE DUCT CONNECTION IS MADE.

PLAN NOTES:

1. DRYER WALL CAPS. TOTAL OF FIVE (5) 4" DRYER VENTS INSTALLED VERTICALLY AS TIGHT AS POSSIBLE TO AVOID DOWNSPOUT. DRYER VENT SHALL BE SEIHO SFB-P. COORDINATE EXACT HEIGHT AND LOCATION OF VENT WITH ARCHITECT BEFORE INSTALLING. COLOR OF VENT TO BE SELECTED BY ARCH.
2. ROUTE FLUE VENTS FROM WATER HEATER TO CONCENTRIC VENT WALL TERMINATION KIT. SIZE AND ROUTE VENTS PER WATER HEATER MANUFACTURER'S RECOMMENDATIONS. FLUE VENTS SHALL BE SLOPED FROM WALL PENETRATION BACK TO WATER HEATERS. COORDINATE EXACT LOCATION OF VENTS WITH ARCH PLANS AND IN FIELD.
3. ROUTE EXHAUST DUCT TO CHASE AND TURN UP A MINIMUM OF 22". CAP OPEN END OF DUCT WITH 1/4" HARD WIRE CLOTH. SEAL DUCT PENETRATION OF CHASE WITH FIRE STOPPING MATERIALS TO CONTINUE FIRE RATING OF WALL.
4. VOLUME DAMPER SHALL BE INSTALLED SO THAT ACCESS TO DAMPER CAN BE ACHIEVED THROUGH THE ACCESS PANEL.
5. SUPPLY AIR DUCT UP TO FLOOR ABOVE.
6. ACCESS PANEL TO BE PROVIDED AND INSTALLED BY OTHERS. COORDINATE EXACT LOCATION OF PANEL IN ACCORDANCE WITH CASSETTE MANUFACTURER'S ACCESS REQUIREMENTS AND GENERAL CONTRACTOR. ALL REFRIGERANT PIPING, CONDENSATE PIPING, ETC. TO ENTER/EXIT FROM THIS LOCATION. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL CEILING CASSETTE IN PROPER ORIENTATION.
7. DRYER VENT SHALL BE SEIHO SFB-P. COORDINATE EXACT HEIGHT AND LOCATION OF VENT WITH ARCHITECT BEFORE INSTALLING. COLOR OF VENT TO BE SELECTED BY ARCH.
8. CATWALK TO BE MODIFIED TO ALLOW FOR CONDENSATE AND GAS TO PENETRATE THRU TOP GRATE. COORDINATE LOCATIONS AND SIZE WITH PLUMBING.
9. CATWALK TO BE MODIFIED TO ALLOW FOR ELECRICAL TO PENETRATE THRU TOP GRATE. COORDINATE LOCATIONS AND SIZE WITH DIVISION 26.

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Sheet Number:

M101

RESIDENCE HALL FIRST FLOOR PLAN - HVAC

ENGINEERING RESOURCE GROUP, INC.
ERG25.10.01

RESIDENCE HALL SCHEDULES

VARIABLE REFRIGERANT FLOW HEAT RECOVERY INDOOR EQUIPMENT SCHEDULE

TAG	TYPE	BASIS OF DESIGN	INDOOR AIR TEMP. (°F) SUMMER DB	SUMMER WB	WINTER DB	MIN CAPACITY (MBH) COOLING	HEATING	ELECTRICAL DATA VOLT/Ø	MCA	MOCP	WEIGHT (LBS)	REMARKS
IU-5.01	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP008FM140B	75	63	68	8.0	9.0	208/1	0.28	15	29	IG-1
IU-5.02	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP018FM140B	75	63	68	18.0	20.0	208/1	0.50	15	32	IG-1
IU-5.03	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.04	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.05	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.06	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.07	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.08	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.09	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.10	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP012FM140B	75	63	68	12.0	13.5	208/1	0.29	15	32	IG-1
IU-5.11	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.12	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.13	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.14	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.15	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.16	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.17	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-5.18	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP008FM140B	75	63	68	8.0	9.0	208/1	0.28	15	29	IG-1
IU-5.19	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP008FM140B	75	63	68	8.0	9.0	208/1	0.28	15	29	IG-1
IU-5.20	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP008FM140B	75	63	68	8.0	9.0	208/1	0.28	15	29	IG-1
IU-5.21	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP012FM140B	75	63	68	12.0	13.5	208/1	0.29	15	32	IG-1
IU-5.22	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP012FM140B	75	63	68	12.0	13.5	208/1	0.29	15	32	IG-1
IU-6.01	WALL MOUNT	TRANE-MITSUBISHI TPKFYP018LM140B	75	63	68	18.0	20.0	208/1	0.24	15	29	IG-1
IU-6.02	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP008FM140B	75	63	68	8.0	9.0	208/1	0.28	15	29	IG-1
IU-6.03	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP018FM140B	75	63	68	18.0	20.0	208/1	0.50	15	32	IG-1
IU-6.04	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.05	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.06	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.07	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.08	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.09	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.10	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.11	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP012FM140B	75	63	68	12.0	13.5	208/1	0.29	15	32	IG-1
IU-6.12	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.13	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.14	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.15	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.16	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.17	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.18	CEILING CASSETTE (3'x3')	TRANE-MITSUBISHI TPLFYP012EM142A	75	63	68	12.0	13.5	208/1	0.39	15	46	BLANK OFF VANE WHERE DUCT CONNECTS WITH INSULATED SHEET METAL, DISCONNCET VANE TO ENSURE VANE IS NOT OPERATIONAL, IG-1
IU-6.19	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP008FM140B	75	63	68	8.0	9.0	208/1	0.28	15	29	IG-1
IU-6.20	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP012FM140B	75	63	68	12.0	13.5	208/1	0.29	15	32	IG-1
IU-6.21	CEILING CASSETTE (2'x2')	TRANE-MITSUBISHI TPLFYP018FM140B	75	63	68	18.0	20.0	208/1	0.50	15	32	IG-1
IU-6.22	WALL MOUNT	TRANE-MITSUBISHI TPKFYP018LM140B	75	63	68	18.0	20.0	208/1	0.24	15	29	IG-1
IU-6.23	CONCEALED DUCTED	TRANE-MITSUBISHI TPEFYP018MA145A	75	63	68	18.0	20.0	208/1	2.88	15	67	IG-1

DUCTLESS SPLIT-SYSTEM - INDOOR UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO	TYPE	COOLING (MBH)	HEATING (MBH)	ELECTRICAL VOLT/Ø	WATTS	MCA	OPER WT (LBS)	REMARKS
DSI-1	TRANE MSZ-GX18NL	WALL	18	21.6	208/1	56	1.0	42	WALL MOUNTED THERMOSTAT, INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT, PROVIDE CONDENSATE PUMP.
DSI-2	TRANE PKA-AK24NL	WALL	24	--	208/1	56	1.0	42	WALL MOUNTED THERMOSTAT, INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT, PROVIDE CONDENSATE PUMP.

DUCTLESS SPLIT-SYSTEM - OUTDOOR UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO	NOM TONS	REFR TYPE	OAT COOL	OAT HEAT	CAPACITY (MBH) COOLING	CAPACITY (MBH) HEATING	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLT/Ø	SEER	EER	OPER WT (LBS)	REMARKS
DSO-1	TRANE MUZ-GX18NL	1-1/2 TON	R454B	95.0	47.0	18	21.6	23	40	208/1	22.5	14.1	135	INVERTER COMPRESSOR, LOW AMBIENT KIT
DSO-2	TRANE PUY-AH24NL	2 TON	R454B	95.0	47.0	18	--	22	37	208/1	22.5	14.1	135	INVERTER COMPRESSOR, LOW AMBIENT KIT

KITCHEN EQUIPMENT HOOD SCHEDULE

TAG	MANUFACTURER & MODEL NO.	CONFIGURATION & POSITION	TOTAL NO. OF SECTIONS	DIMENSIONS (OVERALL) LENGTH	WIDTH	HEIGHT	MATERIAL	TOTAL EXHAUST (CFM)	ELECTRICAL V/PH	OPERATING (AMP)	BREAKER (AMP)	REMARKS
KH-1	DENLAR DS-30-F	FRONT RECIRC	1	30"	19.25"	7"	STAINLESS STEEL	500	120/1	1.2	15	PRE-ENGINEERED, PRE-INSTALLED FIRE SUPPRESSION SYSTEM, LIGHT SWITCH, CHARCOAL AIR FILTER, ELECTRICAL DISCONNECT FOR RANGE

MISCELLANEOUS HVAC POWER, CONTROL AND INTERLOCK WIRING CONNECTIONS

TAG	DESCRIPTION	POWER WIRING	CONTROL & INTERLOCK WIRING	ELECTRICAL V/Ø	REMARKS
SCC-1	TOUCH SCREEN SYSTEM CENTRAL CONTROLLER (TRANE MITSUBISHI TE-200-1)	DIV 26	DIV 23C	120/1	DIVISION 26 ELECTRICAL SHALL PROVIDE ELECTRICAL. IT CABLING FROM ROUTER TO CONTROLLER BY OWNER.
SEC-1	SYSTEM EXPANSION CONTROLLER (TRANE MITSUBISHI TW-50A)	DIV 26	DIV 23C	120/1	DIVISION 26 ELECTRICAL SHALL PROVIDE ELECTRICAL. IT CABLING FROM EXPANSION MODULE TO SYSTEM CONTROLLER BY DIVISION 23C
SEC-2	SYSTEM EXPANSION CONTROLLER (TRANE MITSUBISHI TW-50A)	DIV 26	DIV 23C	120/1	DIVISION 26 ELECTRICAL SHALL PROVIDE ELECTRICAL. IT CABLING FROM EXPANSION MODULE TO SYSTEM CONTROLLER BY DIVISION 23C
SEC-3	SYSTEM EXPANSION CONTROLLER (TRANE MITSUBISHI TW-50A)	DIV 26	DIV 23C	120/1	DIVISION 26 ELECTRICAL SHALL PROVIDE ELECTRICAL. IT CABLING FROM EXPANSION MODULE TO SYSTEM CONTROLLER BY DIVISION 23C
FSD	COMBINATION FIRE/SMOKE DAMPER	DIV 26	DIV 26	120/1	SMOKE DETECTOR SPECIFIED UNDER DIV 26 FIRE ALARM. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.

ION GENERATORS

TAG	MANUFACTURER & MODEL NO.	DEVICES REQUIRED	DEVICE MOUNTING LOCATION	MIN ION OUTPUT PER DEVICE	POWER	REMARKS
IG-1	GLOBAL PLASMA GPS-IRIB	1	IN UNIT DOWNSTREAM OF FILTERS	> 105 MILLION +/- IONS/CC	110 VAC TO 240 VAC	PROVIDE WITH: BUILT IN UNIVERSAL INPUT VOLTAGE TRANSFORMER, ON/OFF SWITCH AND LED POWER INDICATOR LIGHT, UL-2998 NO OZONE CERTIFIED

POWER VENTILATOR SCHEDULE

TAG	MANUFACTURER AND MODEL NO.	TYPE	CFM	ESP	MOTOR HP(AMPS)-V-Ø	FAN SPEED RPM	SOUND POWER dBA	ON/OFF	INTERLOCK	APPROXIMATE OPERATING WEIGHT, LBS	REMARKS
EF-1	GREENHECK G-240-VG	ROOF DOWNBLAST	5,300	1.5	5 - 460 - 3	969	68	EMCS	DOAS-1	205	FACTORY MOUNTED DISCONNECT, FULL RANGE ECM MOTOR, ROOF CURB W/DAMPER TRAY, GRAVITY DAMPER
EF-2	GREENHECK G-200-VG	ROOF DOWNBLAST	4,560	1.5	3 - 460 - 3	1239	71	EMCS	DOAS-2	150	FACTORY MOUNTED DISCONNECT, FULL RANGE ECM MOTOR, ROOF CURB W/DAMPER TRAY, GRAVITY DAMPER

ELECTRIC UNIT HEATER SCHEDULE

TAG	MANUFACTURER AND MODEL NO.	TYPE	ELECTRICAL KW - V - Ø	CAPACITY CFM	REMARKS
EUH-1	MARKEL F3327TD-RP	3320 SERIES FAN FORCED WALL HEATER	4.8 - 208-1	175	MOUNT 1'FT HIGH WITH 2" SEMI RECESS EXTENDER, PROVIDE ROUGH-IN BOX, HEAVY DUTY GRILL. IN-BUILT THERMOSTAT AND INTEGRAL DISCONNECT
EUH-2	MARKEL F3327TD-RP	3320 SERIES FAN FORCED WALL HEATER	4.8 - 208-1	175	MOUNT 1'FT HIGH WITH 2" SEMI RECESS EXTENDER, PROVIDE ROUGH-IN BOX, HEAVY DUTY GRILL. IN-BUILT THERMOSTAT AND INTEGRAL DISCONNECT
EUH-3	MARKEL F1F5105N	5100 SERIES FAN FORCED WALL HEATER	5 - 208 - 1	400	MOUNT 9' HIGH, PROVIDE WALL MOUNTING BRACKET, IN-BUILT THERMOSTAT AND INTEGRAL DISCONNECT
EUH-4	MARKEL F1F5105N	5100 SERIES FAN FORCED WALL HEATER	5 - 208 - 1	400	MOUNT 9' HIGH, PROVIDE WALL MOUNTING BRACKET, IN-BUILT THERMOSTAT AND INTEGRAL DISCONNECT

1

AIR DISTRIBUTION DEVICE SCHEDULE

TAG	TYPE	MANUFACTURER & MODEL NO.	NECK SIZE	FACE SIZE	REMARKS
A	CEILING MOUNTED SUPPLY AIR DEVICE	PRICE SPD	SEE PLANS	SEE REMARKS	12"x12" FACE SIZE AS INDICATED ON PLANS. PROVIDE ALL SURFACE MOUNTED GRILLES WITH PLASTER FRAME MOUNT (PRICE SPF). PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.
B	CEILING MOUNTED RETURN / EXHAUST	PRICE 80	SEE PLANS	SEE REMARKS	24x24, 24x12" OR 12x12" FACE SIZE AS INDICATED ON PLANS. PROVIDE ALL SURFACE MOUNTED GRILLES WITH SCREW HOLES. PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.

NOTES:

1. CEILING DIFFUSERS ARE 4-WAY UNLESS OTHERWISE NOTED BY SHADING ON PLANS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE AND CONSTRUCTION DETAILS.
3. AIR DEVICE FRAME AND STYLE SHALL MATCH CEILING TYPE. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
4. REFER TO ARCHITECT FOR FINISHES AND COLOR OF DEVICES.
5. FACE SIZE TO BE NECK SIZE PLUS 2".
6. ALL SQUARE TO ROUND TRANSITION TO BE 3" HIGH DIFFUSER BOX BLACK FROM FACTORY.

AIR DEVICE CONNECTION SCHEDULE

AIR QUANTITY (CFM)	CEILING MOUNTED NECK SIZE	SIDEWALL MOUNTED NECK SIZE	EXHAUST AIR GRILLE NECK SIZE	BRANCH DUCT SIZE ROUND	BRANCH DUCT SIZE ALTERNATE RECTANGULAR DUCT
0-100	6"Ø	8x4"	8x8"	6"Ø	8x4"
101-200	8"Ø	10x6"	8x8"	8"Ø	10x6"
201-350	10"Ø	12x8"	10x10"	10"Ø	12x8"
351-600	12"Ø	14x10"	12x12"	12"Ø	14x10"
601-850	14"Ø	16x12"	14x14"	14"Ø	16x12"
851-1200	16"Ø	18x16"	16x16"	16"Ø	18x16"

LINEAR SLOT DIFFUSERS SCHEDULE

TAG	MANUFACTURER & MODEL NO.	NO. OF SLOTS	SLOT WIDTH (IN)	TOTAL WIDTH (IN)	TOTAL LENGTH (FT)	FRAME STYLE	PATTERN	PLENUM NUMBER	PLENUM LENGTH (IN)	PLENUM INLET (IN.)	PLENUM TYPE	MAX NC	REMARKS
LSD-1	PRICE CF	1	3	8	4'-0"	EF	JET THROW	1	48	10	CFP	<25	EXPOSED FLANGE, CLEAR ANODIZED FINISH (VERIFY COLOR AND FINISH WITH ARCH)

NOTES: SEE PLANS FOR QUANTITIES. MULTIPLE SLOTS OF EACH TAG ON PLANS

1" = 1'-0" GRAPHIC SCALE 0 6' 1 2

3" = 1'-0" GRAPHIC SCALE 0 2' 6' 1 2

1½" = 1'-0" GRAPHIC SCALE 0 2' 6' 1 2

¾" = 1'-0" GRAPHIC SCALE 0 6' 1 2 3 4

¾" = 1'-0" GRAPHIC SCALE 0 6' 1 2 3 4

¾" = 1'-0" GRAPHIC SCALE 0 1 2 3 4 8

⅜" = 1'-0" GRAPHIC SCALE 0 1 2 3 4 8 16

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JAMES CHRISTOPHER GRANT 17087 REGISTERED PROFESSIONAL ENGINEER 9-18-2025 STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

Project No.: 24053
Date: SEPTEMBER 18, 2025
Drawn: CMM/DB
Checked: JCG
Revisions: 1 ADDENDUM 2 (10-9-2025)

THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
M602
RESIDENCE HALL MECHANICAL SCHEDULES

ERG ENGINEERING RESOURCE GROUP, INC.
ERG:25.10.01

DINING HALL SCHEDULES

ROOFTOP AIR CONDITIONING UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO.	REFR TYPE	SUPPLY FAN				COOLING									HEATING						ELECTRICAL			OPER WT (LBS)	REMARKS
			SUPPLY CFM	OA CFM	ESP	HP	OAT	EDB	LDB	CAPACITY (MBH)		MIN EER	MIN IEER	COMPRESSOR		CONDNSER		EAT	INPUT (MBH)	OUTPUT (MBH)	HGRH (MBH)	FUEL	MIN EFF(%)	VOLT/Ø	MCA	MOCP		
								EWB	LWB	TOTAL	SENS			QTY	RLA	QTY	FLA											
RTU-1	TRANE YSK180A4S0L	R-454B	5,300	---	1.25	2@ 3 EA	95	75	51	169	137	10.8	14.5	2	1@15.5 1@8.1	2	1.3 EA	68	250	202	136	NAT GAS	81	460/3	40	50	3,500	18" ROOF CURB (MINIMUM 14" ABOVE INSULATION), TOOLESS HINGED ACCESS PANELS, MERV 8 FILTERS, FACTORY MOUNTED NON-FUSED DISCONNECT, FACTORY POWERED OUTLET, MODULATING HOT GAS REHEAT, CONDENSATE OVERFLOW SWITCH, STAINLESS STEEL HEAT EXCHANGER, THROUGH-THE-BASE ELECTRICAL, 1 YEAR ENTIRE UNIT AND 5 YEAR COMPRESSOR PARTS WARRANTY.
								62	50																		
RTU-2	TRANE YSK180A4S0L	R-454B	5,300	---	1.25	2@ 3 EA	95	75	51	169	137	10.8	14.5	2	1@15.5 1@8.1	2	1.3 EA	68	250	202	136	NAT GAS	81	460/3	40	50	3,500	18" ROOF CURB (MINIMUM 14" ABOVE INSULATION), TOOLESS HINGED ACCESS PANELS, MERV 8 FILTERS, FACTORY MOUNTED NON-FUSED DISCONNECT, FACTORY POWERED OUTLET, MODULATING HOT GAS REHEAT, CONDENSATE OVERFLOW SWITCH, STAINLESS STEEL HEAT EXCHANGER, THROUGH-THE-BASE ELECTRICAL, 1 YEAR ENTIRE UNIT AND 5 YEAR COMPRESSOR PARTS WARRANTY.
								62	50																		
RTU-3	TRANE YSK180A4S0L	R-454B	5,300	---	1.25	2@ 3 EA	95	75	51	169	137	10.8	14.5	2	1@15.5 1@8.1	2	1.3 EA	68	250	202	136	NAT GAS	81	460/3	40	50	3,500	18" ROOF CURB (MINIMUM 14" ABOVE INSULATION), TOOLESS HINGED ACCESS PANELS, MERV 8 FILTERS, FACTORY MOUNTED NON-FUSED DISCONNECT, FACTORY POWERED OUTLET, MODULATING HOT GAS REHEAT, CONDENSATE OVERFLOW SWITCH, STAINLESS STEEL HEAT EXCHANGER, THROUGH-THE-BASE ELECTRICAL, 1 YEAR ENTIRE UNIT AND 5 YEAR COMPRESSOR PARTS WARRANTY.
								62	50																		
RTU-4	TRANE YSK180A4S0L	R-454B	5,300	---	1.25	2@ 3 EA	95	75	51	169	137	10.8	14.5	2	1@15.5 1@8.1	2	1.3 EA	68	250	202	136	NAT GAS	81	460/3	40	50	3,500	18" ROOF CURB (MINIMUM 14" ABOVE INSULATION), TOOLESS HINGED ACCESS PANELS, MERV 8 FILTERS, FACTORY MOUNTED NON-FUSED DISCONNECT, FACTORY POWERED OUTLET, MODULATING HOT GAS REHEAT, CONDENSATE OVERFLOW SWITCH, STAINLESS STEEL HEAT EXCHANGER, THROUGH-THE-BASE ELECTRICAL, 1 YEAR ENTIRE UNIT AND 5 YEAR COMPRESSOR PARTS WARRANTY.
								62	50																		
RTU-5	TRANE YSK240A4S0L	R-454B	7,000	900	1.25	2@ 3 EA	95	77	53	235	168	9.8	13	2	1@22.4 1@12.2	2	2.5 EA	68	250	202	165	NAT GAS	81	**460/3**	55	70	4,000	18" ROOF CURB (MINIMUM 14" ABOVE INSULATION), TOOLESS HINGED ACCESS PANELS, MERV 8 FILTERS, FACTORY MOUNTED NON-FUSED DISCONNECT, FACTORY POWERED OUTLET, LOW LEAD 2-POSITION MOTORIZED OUTSIDE AIR DAMPER, MODULATING HOT GAS REHEAT, CONDENSATE OVERFLOW SWITCH, STAINLESS STEEL HEAT EXCHANGER, THROUGH-THE-BASE ELECTRICAL, 1 YEAR ENTIRE UNIT AND 5 YEAR COMPRESSOR PARTS WARRANTY.
								65	51																		
RTU-6	VALENT VR-400-25L-I-G0	R-454B	7,000	2,000	1.25	2@ 3 EA	95	81	53	310	198	9.8	13	2	1@13.7 1@5.9	1	1.4 EA	68	250	202	206	NAT GAS	81	**460/3**	64.9	90	4,000	18" H ROOF CURB (MINIMUM 14" ABOVE INSULATION), DOUBLE WALL, HINGED ACCESS (TOOLESS), FACTORY WIRED NON-FUSED DISCONNECT, WEB-BASED USER INTERFACE, CONSTANT VOLUME WITH SPACE THERMOSTAT/ HUMIDISTAT, AVERAGING SENSORS, AIRFLOW MONITOR (SA), PHASE/ BROWNOUT, OA MOTORIZED DAMPER LOW LEAKAGE, CONDENSATE OVERFLOW SWITCH, MERV 8 2" PLTD FILTERS, FACTORY MOUNTED/WIRED OUTLET, 16:1 FURNACE, HAIL GUARDS, 5 YEAR COMPRESSOR, 25 YEAR HX.
								68	53																		

NOTES: UNIT MANUFACTURER TO SUBMIT FULL SEQUENCE OF OPERATIONS AND SUGGESTED LOCAL SETPOINTS WITH SUBMITTAL.

3" = 1'-0" GRAPHIC SCALE

DEDICATED OUTDOOR AIR SYSTEM SCHEDULE

TAG	MANUFACTURER & MODEL NO. (TON)	REFR TYPE	SUPPLY FAN			COOLING								HEATING					ELECTRICAL			OPER WT (LBS)	REMARKS
			SUPPLY CFM	ESP	HP	EDB	LDB	CAPACITY (MBH)		AHRI 920 ISMRE2	COMPRESSOR			EAT	INPUT (MBH)	OUTBUT (MBH)	FUEL	MIN EFF (%)	HGRH (MBH)	VOLT/Ø	MCA	MOCP	
						EWB	LWB	TOTAL	SENS		QTY	RLA	LRA										
DOA-1	VALENT VX-212-30I-M-E2	R-454B	4,800	1.5	3	95	53	350	201	7.2	1@ 1@	27.9 24	N/A 182	20	400	324	NAT GAS	81	205	460/3	68.8	90	4,500	18" H ROOF CURB (MINIMUM 14" ABOVE INSULATION), DOUBLE WALL, HINGED ACCESS (TOOLESS), FACTORY WIRED NON-FUSED DISCONNECT, WEB-BASED USER INTERFACE, CONSTANT VOLUME WITH SPACE NEUTRAL DISCHARGE AIR, AIRFLOW MONITOR (SA), PHASE/ BROWNOUT, OA MOTORIZED DAMPER LOW LEAKAGE, CONDENSATE OVERFLOW SWITCH, MERV 8 2" PLTD FILTERS, FACTORY MOUNTED/WIRED OUTLET, 16:1 FURNACE, HAIL GUARDS, 5 YEAR COMPRESSOR, 25 YEAR HX
						76	53																

NOTES: UNIT MANUFACTURER TO SUBMIT FULL SEQUENCE OF OPERATIONS AND SUGGESTED LOCAL SETPOINTS WITH SUBMITTAL.

1½" = 1'-0" GRAPHIC SCALE

POWER VENTILATOR SCHEDULE

TAG	MANUFACTURER AND MODEL NO.	TYPE	CFM	ESP	MOTOR HP(AMPS)-V-Ø	FAN SPEED RPM	SOUND POWER dBA	ON/OFF	INTERLOCK	APPROXIMATE OPERATING WEIGHT, LBS	REMARKS
EF-1	COOK 100ACED (EC)	ROOF DOWNBLAST	210	0.35	1/8 - 115 - 1	1137	49	OCC SENSOR	---	50	18" H ROOF CURB WITH GRAVITY BACKDRAFT DAMPER (MINIMUM 14" ABOVE INSULATION), FACTORY MOUNTED DISCONNECT, FAN MOUNTED ECM CONTROLLER
EF-2	COOK 101ACED (EC)	ROOF DOWNBLAST	700	0.35	1/8 - 115 - 1	1512	58	OCC SENSOR	---	50	18" H ROOF CURB WITH GRAVITY BACKDRAFT DAMPER (MINIMUM 14" ABOVE INSULATION), FACTORY MOUNTED DISCONNECT, FAN MOUNTED ECM CONTROLLER

NOTES: SEE CONTROL DRAWINGS FOR INTERLOCKING OF FANS AND QUANTITY OF CEILING MOUNTED OCCUPANCY SENSORS. ALL OCCUPANCY SENSORS PROVIDDED AND INSTALLED BY THIS CONTRACTOR.

1" = 1'-0" GRAPHIC SCALE

BI-POLAR ION GENERATOR SCHEDULE

TAG	MANUFACTURER & MODEL NO.	MAX TREATED AIRFLOW (CFM)	MOUNTING LOCATION	SELF-CLEANING	DRY CONTACTS	POWER (VA)	OZONE VALIDATED	DATA OUTPUT TO BAS	INPUT VOLTAGE	REMARKS
IG-1	AIRPLUS FM-6000	6,000	FAN INLET RTU-1	AUTOMATIC	INCLUDED	4.8	UL2998	INTEGRAL	24 VAC	POWERED FROM THE 24V FAN CONTROL CIRCUIT OR FIELD INSTALLED TRANSFORMER BY THIS CONTRACTOR, UL-867
IG-2	AIRPLUS FM-6000	6,000	FAN INLET RTU-2	AUTOMATIC	INCLUDED	4.8	UL2998	INTEGRAL	24 VAC	POWERED FROM THE 24V FAN CONTROL CIRCUIT OR FIELD INSTALLED TRANSFORMER BY THIS CONTRACTOR, UL-867
IG-3	AIRPLUS FM-6000	6,000	FAN INLET RTU-3	AUTOMATIC	INCLUDED	4.8	UL2998	INTEGRAL	24 VAC	POWERED FROM THE 24V FAN CONTROL CIRCUIT OR FIELD INSTALLED TRANSFORMER BY THIS CONTRACTOR, UL-867
IG-4	AIRPLUS FM-6000	6,000	FAN INLET RTU-4	AUTOMATIC	INCLUDED	4.8	UL2998	INTEGRAL	24 VAC	POWERED FROM THE 24V FAN CONTROL CIRCUIT OR FIELD INSTALLED TRANSFORMER BY THIS CONTRACTOR, UL-867
IG-5	AIRPLUS FM-6000	6,000	FAN INLET RTU-5	AUTOMATIC	INCLUDED	4.8	UL2998	INTEGRAL	24 VAC	POWERED FROM THE 24V FAN CONTROL CIRCUIT OR FIELD INSTALLED TRANSFORMER BY THIS CONTRACTOR, UL-867
IG-6	AIRPLUS FM-6000	6,000	FAN INLET RTU-6	AUTOMATIC	INCLUDED	4.8	UL2998	INTEGRAL	24 VAC	POWERED FROM THE 24V FAN CONTROL CIRCUIT OR FIELD INSTALLED TRANSFORMER BY THIS CONTRACTOR, UL-867

1" = 1'-0" GRAPHIC SCALE

AIR DISTRIBUTION DEVICE SCHEDULE

TAG	TYPE	MANUFACTURER & MODEL NO.	NECK SIZE	FACE SIZE	REMARKS
A	CEILING MOUNTED SUPPLY AIR DEVICE	PRICE SPD	SEE PLANS	SEE REMARKS	24"x24" OR 12"x12" FACE SIZE AS INDICATED ON PLANS. PROVIDE ALL SURFACE MOUNTED GRILLES WITH PLASTER FRAME MOUNT (PRICE SPF). PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.
B	CEILING MOUNTED RETURN AIR DEVICE	PRICE 80	SEE PLANS	SEE REMARKS	24"x24" OR 24"x12" FACE SIZE AS INDICATED ON PLANS. PROVIDE ALL SURFACE MOUNTED GRILLES WITH SCREW HOLES.
C	SIDEWALL MOUNTED SUPPLY AIR DEVICE	PRICE 520D	SEE PLANS	SEE REMARKS	FACE SIZE TO BE NECK SIZE PLUS 2". PROVIDE WITH TYPE "A" EXTERNAL SCREW. PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.
D	SIDEWALL MOUNTED RETURN AIR DEVICE	PRICE 530L	SEE PLANS	SEE REMARKS	FACE SIZE TO BE NECK SIZE PLUS 2". PROVIDE WITH TYPE "A" EXTERNAL SCREW. PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.
E	CEILING MOUNTED EXHAUST AIR DEVICE	PRICE 80	SEE PLANS	SEE REMARKS	24"x12" OR 12"x12" FACE SIZE TO BE NECK SIZE PLUS 2". PROVIDE SURFACE MOUNT WITH TYPE "A" EXTERNAL SCREW. PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.
F	CEILING MOUNTED SUPPLY AIR DEVICE	PRICE PDF-AL	SEE PLANS	24x24"	PROVIDE ALL SURFACE MOUNTED GRILLES WITH PLASTER FRAME MOUNT (PRICE SPF). PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.

NOTES:

1. CEILING DIFFUSERS ARE 4-WAY UNLESS OTHERWISE NOTED BY SHADING ON PLANS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE AND CONSTRUCTION DETAILS.
3. AIR DEVICE FRAME AND STYLE SHALL MATCH CEILING TYPE. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
4. REFER TO ARCHITECT FOR FINISHES AND COLOR OF DEVICES.
5. FACE SIZE TO BE NECK SIZE PLUS 2".
6. ALL SQUARE TO ROUND TRANSITION TO BE 3" HIGH DIFFUSER BOX BLACK FROM FACTORY.

¾" = 1'-0" GRAPHIC SCALE

ELECTRIC UNIT HEATER SCHEDULE

TAG	MANUFACTURER AND MODEL NO.	TYPE	ELECTRICAL KW - V - Ø	CAPACITY CFM	REMARKS
EUH-1	MARKEL F1F5105N	5100 SERIES FAN FORCED WALL HEATER	5 - 208 - 1	400	MOUNT 9' HIGH, PROVIDE WALL MOUNTING BRACKET, IN-BUILT THERMOSTAT AND INTEGRAL DISCONNECT
EUH-2	MARKEL F1F5105N	5100 SERIES FAN FORCED WALL HEATER	5 - 208 - 1	400	MOUNT 9' HIGH, PROVIDE WALL MOUNTING BRACKET, IN-BUILT THERMOSTAT AND INTEGRAL DISCONNECT

⚠1

½" = 1'-0" GRAPHIC SCALE

DUCTLESS SPLIT-SYSTEM - INDOOR UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO	TYPE	COOLING (MBH)	HEATING (MBH)	ELECTRICAL			OPER WT (LBS)	REMARKS
					VOLT/Ø	WATTS	MCA		
DSI-1	TRANE TPKA0A0121L10A	WALL	12	18	208/1	56	1.0	50	WALL MOUNTED THERMOSTAT, INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT, PROVIDE CONDENSATE PUMP.
DSI-2	TRANE TPKA0A0121L10A	WALL	12	18	208/1	56	1.0	50	WALL MOUNTED THERMOSTAT, INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT, PROVIDE CONDENSATE PUMP.
DSI-3	TRANE TPKA0A0121L10A	WALL	12	18	208/1	56	1.0	50	WALL MOUNTED THERMOSTAT, INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT, PROVIDE CONDENSATE PUMP.
DSI-4	TRANE TPKA0A0121L10A	WALL	12	18	208/1	56	1.0	50	WALL MOUNTED THERMOSTAT, INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT, PROVIDE CONDENSATE PUMP.
DSI-5	TRANE MITSUBISHI SLZ-AF12NL	CEILING	12	15	208/1	50W	23	50	WALL MOUNTED REMOTE CONTROLLER, INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT

DUCTLESS SPLIT-SYSTEM - OUTDOOR UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO	NOM TONS	REFR TYPE	OAT	CAPACITY (MBH)		ELECTRICAL			SEER	EER	OPER WT (LBS)	REMARKS
				COOL HEAT	COOLING	HEATING	MCA	MOCP	VOLT/Ø				
DSO-1	TRANE TRUZA0121KA70NA	1	R454B	95.0 47.0	12	18	11	28	208/1	22.5	14.1	150	INVERTER COMPRESSOR, LOW AMBIENT KIT, MOUNT ON 18"H EQUIPMENT SUPPORTS EQUAL TO THYBAR TEMS-3 (MINIMUM 14" OVER INSULATION FOR FLASHING)
DSO-2	TRANE TRUZA0121KA70NA	1	R454B	95.0 47.0	12	18	11	28	208/1	22.5	14.1	150	INVERTER COMPRESSOR, LOW AMBIENT KIT, MOUNT ON 18"H EQUIPMENT SUPPORTS EQUAL TO THYBAR TEMS-3 (MINIMUM 14" OVER INSULATION FOR FLASHING)
DSO-3	TRANE TRUZA0121KA70NA	1	R454B	95.0 47.0	12	18	11	28	208/1	22.5	14.1	150	INVERTER COMPRESSOR, LOW AMBIENT KIT, MOUNT ON 18"H EQUIPMENT SUPPORTS EQUAL TO THYBAR TEMS-3 (MINIMUM 14" OVER INSULATION FOR FLASHING)
DSO-4	TRANE TRUZA0121KA70NA	1	R454B	95.0 47.0	12	18	11	28	208/1	22.5	14.1	150	INVERTER COMPRESSOR, LOW AMBIENT KIT, MOUNT ON 18"H EQUIPMENT SUPPORTS EQUAL TO THYBAR TEMS-3 (MINIMUM 14" OVER INSULATION FOR FLASHING)
DSO-5	TRANE MITSUBISHI SUZ-AA12NL	1	454B	95.0 47.0	12	15	16.0	27.0	208/1	20.3	12.5	100	INVERTER COMPRESSOR, LOW AMBIENT KIT, MOUNT ON 18"H EQUIPMENT SUPPORTS EQUAL TO THYBAR TEMS-3 (MINIMUM 14" OVER INSULATION FOR FLASHING)

MISCELLANEOUS HVAC POWER, CONTROL AND INTERLOCK WIRING CONNECTIONS

TAG	DESCRIPTION	POWER WIRING	CONTROL & INTERLOCK WIRING	ELECTRICAL	REMARKS
				V/Ø	
PG-1	PELICAN ETHERNET GATEWAY	DIV 26	DIV 23	120/1	PLUG ADAPTER IN NEAREST RECEPTACLE WITH SURGE PROTECTOR.
DC-1	DOAS CONTROLLER	SEE NOTES	DIV 23	---	CONTROLLER AND ALL REMOTE THERMOSTAT/HUMIDISTAT (SENSORS) ARE POWERED BY UNIT.

LINEAR SLOT DIFFUSERS SCHEDULE

TAG	MANUFACTURER & MODEL NO.	NO. OF SLOTS	SLOT WIDTH (IN)	TOTAL WIDTH (IN)	TOTAL LENGTH (FT)	FRAME STYLE	PATTERN	PLENUM				MAX NC	REMARKS
								NUMBER	LENGTH (IN)	INLET (IN.)	TYPE		
LSD-1	PRICE CF	1	3	8	4'-0"	CMF	JET THROW	1	48	8	CFP	<25	CONCEALED MUD FRAME, BLANK OFF UNUSED PORTION OF SLOT
LSD-2	PRICE CF	1	3	8	4'-0"	CMF	JET THROW	1	48	12	CFP	<35	CONCEALED MUD FRAME, BLANK OFF UNUSED PORTION OF SLOT
LSD-3	PRICE SDS100	4	1	8.75	4'0"	TYPE 16	JET THROW	--	--	--	--	<30	SPIRAL MOUNTED ON DUCT, SEE PLANS FOR SPIRAL SIZE, WHITE TO BE PAINTED IN FIELD BY OTEHRS
LSD-4	PRICE CF	1	3	8	4'-0"	CFM	JET SLOT	1	48	--	--	<25	CONCEALED MUD FRAME, BLANK OFF UNUSED PORTION OF SLOT, DUCT TO RUN FULL LENGTH OF SLOT

NOTES: SEE PLANS FOR QUANTITIES. MULTIPLE SLOTS OF EACH TAG ON PLANS

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THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:

M611

DINING HALL (ADD ALTERNATE #1) MECHANICAL SCHEDULES

ENGINEERING RESOURCE GROUP, INC.
ERG25.10.01

THE COMMONS - PACKAGE A
PEARL, MS
24053

FIRE PROTECTION SHEET INDEX

FP001	ABBREVIATIONS, LEGENDS, GENERAL NOTES
FP101	FLOOR PLAN - FIRE PROTECTION
FP301	FIRE PROTECTION DETAILS & SCHEDULES

FIRE PROTECTION LEGEND

PIPING / ACCESSORIES

— F —	FIRE PROTECTION PIPING
	PIPE/EQUIPMENT DEMOLITION
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	OS&Y GATE VALVE (SUPERVISED)
	OS&Y GATE VALVE OR INDICATING BUTTERFLY VALVE (SUPERVISED)
	CHECK VALVE
	FLOW SWITCH
	BUTTERFLY VALVE WITH TAMPER SWITCH
	STAND PIPE CONTROL VALVE TAMPER SWITCH
	STAND PIPE WITH HOSE VALVE
	PRESSURE GAGE W/SNUBBER
	WALL MOUNTED FIRE DEPARTMENT CONNECTION
	REMOTE FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	POST INDICATOR VALVE

SPRINKLER HEADS

	UPRIGHT SPRINKLER HEAD
	CONCEALED PENDANT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD

MISCELLANEOUS

	NEW CONNECTION TO EXISTING PIPING, DUCTWORK AND/OR EQUIPMENT

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AH	AMP HOUR
AHJ	AUTHORITY HAVING JURISDICTION
ALM	ALARM
AWG	AMERICAN WIRE GAUGE
CLG	CEILING
DIA	DIAMETER
DN	DOWN
FH	FIRE HYDRANT
FD	FLOOR DRAIN
FLR	FLOOR
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSE POWER HP
HR	HOUR
ID	INSIDE DIMENSION
KW	KILOWATT
LBS	POUNDS
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN THIS CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIMENSION
P	PUMP
PA	PREACTION
PLBG	PLUMBING
P.I.V.	POST INDICATOR VALVE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH (GAUGE)
RPM	REVOLUTIONS PER MINUTE
SP	SPRINKLER
SF	SQUARE FEET
TS	TAMPER SWITCH
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
V	VENT
VTR	VENT THRU ROOF
W/	WITH
W/O	WITHOUT
EFP	EXISTING FIRE PROTECTION

FIRE PROTECTION GENERAL NOTES

GENERAL

1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE FIRE SUPPRESSION SYSTEM WHERE SHOWN ON DRAWINGS AND REQUIRED BY THE APPROPRIATE BUILDING CODES, INCLUDING, BUT NOT LIMITED TO NFPA 13.
2. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, DETAILED CONSTRUCTION DRAWINGS AND HYDRAULIC CALCULATIONS TO THE ENGINEER AND FIRE SUB-CODE OFFICIAL, PRIOR TO THE INSTALLATION OF ANY EQUIPMENT. OBTAIN CERTIFICATE OF INSPECTION AND APPROVAL FROM THE SAME AGENCY HAVING JURISDICTION AFTER INSTALLATION. THE FIRE SUPPRESSION SYSTEM SPECIFICATIONS ARE PERFORMANCE BASED ONLY. THE CONTRACTOR(S) SHALL BE FULLY RESPONSIBLE FOR THE DESIGN AND TO PROVIDE ALL NECESSARY EQUIPMENT, HARDWARE, CONTROLS, SENSOR, ETC. PER LOCAL FIRE PROTECTION CODES.
3. NUMBERS AND LOCATIONS OF SPRINKLER HEADS, SHOWN ON THESE PLANS, ARE FOR ILLUSTRATION PURPOSES ONLY. EXACT NUMBER AND LOCATIONS SHALL BE SHOWN ON SPRINKLER CONSTRUCTION SHOP DRAWINGS WHICH SHALL BE PROVIDED BY THE CONTRACTOR.
4. ALL NEW SPRINKLER PIPING AND HEADS SHALL BE LOCATED ONLY AS INDICATED ON APPROVED SHOP DRAWINGS. SHOP DRAWINGS MUST BE SUBMITTED AND APPROVED BEFORE STARTING WORK. ANY DEVIATIONS MADE TO APPROVED LAYOUT MUST BE SUBMITTED TO ENGINEER AS "AS-BUILT" DRAWINGS.
5. ALL SPRINKLER SYSTEM COMPONENTS TO BE APPROVED BY THE ENGINEER AND GENERAL CONTRACTOR AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR.
6. COORDINATE INTERLOCKS, SIGNALING AND ALARM CONTACTS WITH FIRE ALARM AND ELECTRICAL CONTRACTORS. COORDINATE DUCT SMOKE DETECTION WITH MECHANICAL CONTRACTOR.
7. CONTRACTOR TO DESIGN PER FM GLOBAL STANDARDS UNLESS OTHERWISE INDICATED.
8. IN GENERAL, WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: COMPLETE OVERHEAD AUTOMATIC SPRINKLER SYSTEMS AS INDICATED ON THE CONTRACT DRAWINGS AND CONTRACT SPECIFICATIONS, CONNECTION TO UNDERGROUND FIRE SERVICE. SYSTEMS AND DEVICE TESTING. ALL NECESSARY PERMITS.
9. THE FIRE SPRINKLER SYSTEMS FOR PROTECTION OF THE BUILDING SHALL BE HYDRAULICALLY DESIGNED WET PIPE SPRINKLER SYSTEMS AS SPECIFIED IN THE FOLLOWING;
   A. OFFICES, INCLUDING CORRIDORS, LOUNGES, AND SIMILAR SPACES SHALL BE DESIGNED FOR A LIGHT HAZARD OCCUPANCY TO PROVIDE A MINIMUM DESIGN DISCHARGE DENSITY OF 0.10 GPM PER SQ FT OVER THE HYDRAULIC CALCULATION AREA OR ROOM.
   B. MECHANICAL, MINOR STORAGE, AND SIMILAR AREAS OF THE BUILDING SHALL BE DESIGNED FOR AN ORDINARY HAZARD GROUP 1 OCCUPANCY. A MINIMUM DESIGN DISCHARGE DENSITY OF 0.15 GPM PER SQ FT OVER THE HYDRAULIC CALCULATION AREA OR ROOM.
   C. BULK STORAGE AND SIMILAR AREAS AREAS OF THE BUILDING SHALL BE DESIGNED FOR AN ORDINARY HAZARD GROUP 2 OCCUPANCY. A MINIMUM DESIGN DISCHARGE DENSITY OF 0.20 GPM PER SQ FT OVER THE HYDRAULIC CALCULATION AREA OR ROOM.
   D. ALL SPRINKLERS WITHIN THE PROJECT AREA SHALL BE NEW, QUICK RESPONSE, ORDINARY TEMPERATURE RATING (EXCEPT AS REQUIRED BY NFPA 13).
10. PROVIDE A COMPLETE AUTOMATIC FIRE SUPPRESSION SYSTEM FOR ALL NEW AND/OR EXISTING INTERIOR AND EXTERIOR COVERED SPACES, INTERSTITIAL SPACES, ATTICS, OVERHANGS, CANOPIES, ETC. AS REQUIRED FOR A COMPREHENSIVE FIRE SPRINKLER SYSTEM.
11. ALL EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND/OR FACTORY MUTUAL APPROVED.
12. ALL MATERIALS AND EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL BE NEW, FIRST GRADE STANDARD, CURRENT PRODUCTS OF A MANUFACTURER REGULARLY ENGAGED IN THE PRODUCTION OF SUCH MATERIALS AND EQUIPMENT. WHERE TWO OR MORE PIECES OF EQUIPMENT PERFORMING THE SAME FUNCTION ARE REQUIRED, THEY SHALL BE THE PRODUCT OF ONE MANUFACTURER AND EXACT DUPLICATES.

PIPING

1. ALL PIPING AND EQUIPMENT SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE. HANGER AND SUPPORTS SHALL BE SPECIFICALLY APPROVED FOR USE IN SPRINKLER SYSTEMS.
2. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF HANGER RODS IN REQUIRED LOCATIONS, PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED AND APPROVED.
3. NO PIPING SHALL BE HUNG FROM THE PIPING OF OTHER TRADES OR DUCTWORK. HANGERS SHALL BE OF HEAVY CONSTRUCTION, SUITABLE FOR THE SIZE OF PIPE TO BE SUPPORTED.
4. PIPING PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED AND SEALED TO A FIRE RATING EQUAL TO THE WALL IT PENETRATES.
5. ALL SPRINKLER PIPING 2" AND BELOW SHALL BE SCHEDULE 40 STEEL. SCHEDULE 10 PIPING SHALL BE ALLOWABLE FOR PIPE SIZES 2-1/2" AND ABOVE.
6. ALL SPRINKLER PIPING IN CRITICAL AREAS MUST BE SCHEDULE 40 STEEL WITH THREADED FITTINGS OR VICTAULIC-TYPE FITTINGS WHERE PERMITTED.
7. FIRE PROTECTION PIPING LAYOUT IS SCHEMATIC IN NATURE AND DOES NOT INDICATE ALL REQUIRED FITTINGS, DRAIN VALVES, ETC.
8. ALL SPRINKLER PIPING SHALL BE INSTALLED SO THAT THE SYSTEM CAN BE DRAINED. PROVIDE DRAINS FOR TRAPPED PIPING IN ACCORDANCE WITH NFPA 13.
9. ALL PIPES PASSING THROUGH FOUNDATION WALLS TO BE PROTECTED.
10. SPRINKLER SYSTEM DRAIN LINES SHALL BE FULLY COORDINATED WITH ALL TRADES.
11. THE USE OF SADDLE TEES FITTED WITH RUBBER GASKETS IS NOT PERMITTED.
12. PIPE SIZES INDICATED ON THE CONTRACT DRAWINGS SHALL NOT BE REDUCED. THEY SHALL HOWEVER BE INCREASED IF REQUIRED BY HYDRAULIC CALCULATIONS.
13. BOLT ON OR STRAP ON BRANCH AND OUTLET FITTINGS WILL NOT BE PERMITTED. SIMILARLY, HOLE CUT PIPING SYSTEM OR STRAPLESS OUTLETS WILL NOT BE PERMITTED.
14. BOLT ON OR STRAP ON BRANCH AND OUTLET FITTINGS WILL NOT BE PERMITTED. SIMILARLY, HOLE CUT PIPING SYSTEM OR STRAPLESS OUTLETS WILL NOT BE PERMITTED.
15. GROOVED COUPLINGS SHALL BE UL LISTED AND/OR FM APPROVED FOR FIRE PROTECTION SERVICE. PLAIN-END TYPE PIPE FITTINGS AND COUPLINGS SHALL NOT BE USED
16. INSTALL HANGERS, BRAIDED HOSE DROP CONNECTIONS, SWING JOINTS AND BRACING IN ACCORDANCE WITH NFPA 13.
17. SYSTEM PIPING SHALL BE INSTALLED SUCH THAT NO JOINTS, FITTINGS OR DEVICES OCCUR DIRECTLY OVER ELECTRICAL EQUIPMENT OR WITHIN THE CLEARANCE SPACE AS REQUIRED BY THE NATIONAL ELECTRIC CODE (NEC).
18. THE CONTACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS AND PENETRATIONS REQUIRED FOR THE FIRE PROTECTION PIPING.
19. CUTTING STRUCTURAL MEMBERS FOR THE PASSING OF FIRE PROTECTION PIPING OR PIPE HANGER FASTENING WILL NOT BE PERMITTED EXCEPT WITH APPROVAL OF THE PROFESSIONAL.
20. SUITABLE MEANS SHALL BE PROVIDED AT EACH HOLE OR PENETRATION TO MAINTAIN THE DESIGNED FIRE RESISTANCE RATING OF THE WALL, CEILING, OR FLOOR ASSEMBLY.
21. INSTALL SPLIT WALL PLATES OR ESCUTCHEONS WHERE EXPOSED PIPING PASSES THROUGH A FINISHED FLOOR, WALL OR CEILING. THEY SHALL FIT SNUGLY AROUND PIPING. THE FINISH OF ESCUTCHEONS OR WALL PLATES SHALL MATCH THE COLOR OF ADJACENT WALLS, CEILINGS, OR FLOORS.
22. UPON COMPLETION OF INSTALLATION AND WHILE PIPING IS STILL EXPOSED, HYDROSTATICALLY TEST THE SYSTEMS AT 200 PSI (OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER) FOR A PERIOD OF 2 HOURS. PORTIONS OF THE SYSTEM MAY BE TESTED AS THEY ARE COMPLETED. SEVENTY-TWO HOUR NOTICE SHALL BE GIVEN TO THE PROFESSIONAL AND THE AUTHORITY HAVING JURISDICTION PRIOR TO ANY TEST. A PRE-INSTALLATION INSPECTION OF PIPE, FITTINGS, AND DEVICES IS REQUIRED.
23. WHERE FLOOR OPENINGS ARE NOT CLASSIFIED AS ATRIUMS, THE SPRINKLERS AT THE CEILING MUST BE ZONED WITH LOWER LEVEL IF IT IS ENCLOSED ON THE UPPER LEVEL (THE ENCLOSURE IS EFFECTIVELY CREATING A HIGH CEILING). OTHERWISE, SPRINKLERS MUST BE ZONED WITH THE UPPER LEVEL.

SPRINKLERS

1. IN AREAS WITHOUT SUSPENDED CEILINGS, LOCATE SPRINKLER HEADS ABOVE AND BELOW ALL DUCTS OVER 48" IN WIDTH.
2. IN AREAS WITH SUSPENDED CEILINGS, SPRINKLER HEADS SHALL BE INSTALLED CENTERED IN BOTH DIRECTIONS OF THE CEILING TILE. CONCEALED SPRINKLER HEADS SHALL BE USED FOR ALL FINISHED CEILING AREAS.
3. UPRIGHT SPRINKLERS SHALL BE INSTALLED IN AREAS WITHOUT SUSPENDED CEILINGS. PROVIDE PROTECTIVE CAGE ON ALL HEADS IN AREAS UNDER DUCTS OR SUBJECT TO ACCIDENTAL DAMAGE.
4. ALL PENDENT AND SIDEWALL SPRINKLERS LOCATED WITHIN 7 FT OF THE FLOOR OR SUBJECT TO MECHANICAL DAMAGE SHALL BE PROVIDED WITH LISTED SPRINKLER GUARDS COMPATIBLE WITH THE SPRINKLER MODELS AND TYPES ON WHICH THEY ARE INSTALLED.
5. STOCK OF EXTRA SPRINKLERS SHALL BE FURNISHED AS REQUIRED FOR EACH TEMPERATURE RATING. EXTRA SPRINKLERS IN THE QUANTITIES REQUIRED BY NFPA 13, CABINETS, AND WRENCHES SHALL BE PROVIDED.
6. DISTANCE OF SPRINKLERS FROM HEAT SOURCES SHALL BE IN ACCORDANCE WITH NFPA.
7. SPRINKLER HEADS INSTALLED IN TILE CEILINGS SHALL BE INSTALLED IN THE CENTER OF THE TILES.
8. SPRINKLER GUARDS MUST BE PROVIDED IN THE FOLLOWING: SPRINKLERS INSTALLED LESS THAN 7 FT FROM FLOOR, SPRINKLERS INSTALLED WITHIN ELEVATOR MACHINE ROOMS AND ELEVATOR PITS, SPRINKLERS INSTALLED WITHIN ELECTRICAL CLOSETS AND EQUIPMENT ROOMS
9. COORDINATE SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. CHANGES ARE SUBJECT TO APPROVAL BY ARCHITECT AND SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

1" = 1'-0" GRAPHIC SCALE
0 6" 1 2

3" = 1'-0" GRAPHIC SCALE
0 6" 1 2

1½" = 1'-0" GRAPHIC SCALE
0 6" 1 2

3" = 1'-0" GRAPHIC SCALE
0 6" 1 2 3

¾" = 1'-0" GRAPHIC SCALE
0 6" 1 2

½" = 1'-0" GRAPHIC SCALE
0 6" 1 2 3 4

¼" = 1'-0" GRAPHIC SCALE
0 1 2 3 4 8

⅛" = 1'-0" GRAPHIC SCALE
0 1 2 3 4 8 16

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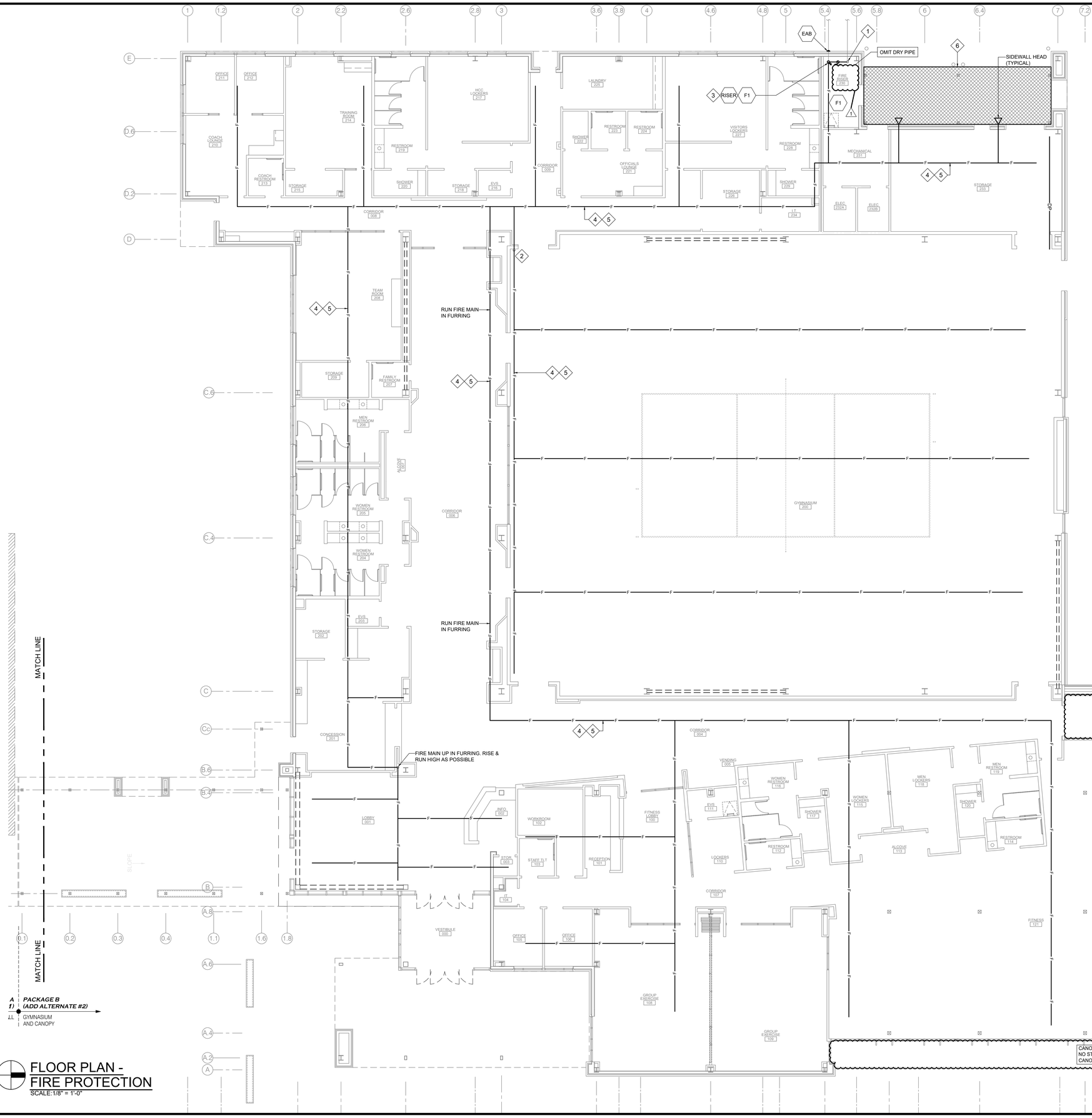
Sheet Number:
FP001
FIRE PROTECTION ABBREVIATIONS, LEGENDS, NOTES

ERG ENGINEERING RESOURCE GROUP, INC.
ERG-25.10.03

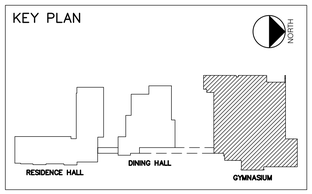
THE COMMONS - PACKAGE B
PEARL, MS
FP001



FLOOR PLAN - FIRE PROTECTION

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

KEY PLAN



PLAN NOTES

1. SPRINKLER CONTRACTOR TO CONNECT AT FLANGES ABOVE FLOOR. PLUMBING CONTRACTOR SHALL INSTALL BELOW GRADE PIPING.
2. FIRE PROTECTION MAIN TO RISE IN TO HIGHER SPACE IN GYMNASIUM.
3. SPRINKLER CONTRACTOR TO CONNECT AT FLANGES ABOVE FLOOR. PLUMBING CONTRACTOR SHALL INSTALL BELOW GRADE PIPING. WET PIPE FIRE SPRINKLER RISER. SEE DETAIL OF WET PIPE FIRE PROTECTION RISER FOR ADDITIONAL INFORMATION.
4. FIRE PROTECTION PIPING SHALL BE ROUTED CONCEALED ABOVE CEILINGS. SIZE AND ROUTING CONTINUATION PROVIDED IN CONJUNCTION WITH FIRE PROTECTION CONTRACTOR PROVIDED HYDRAULIC CALCULATIONS.
5. ENTIRE BUILDING SHALL BE PROTECTED WITH NEW WET PIPE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 13.

OMIT DRY PIPE

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Sheet Number:

FP101

FLOOR PLAN
FIRE PROTECTION

ENGINEERING RESOURCE GROUP, INC.
ERG
ERG:25.10.03

THE COMMONS - PACKAGE B
PEARL, MS
FP101

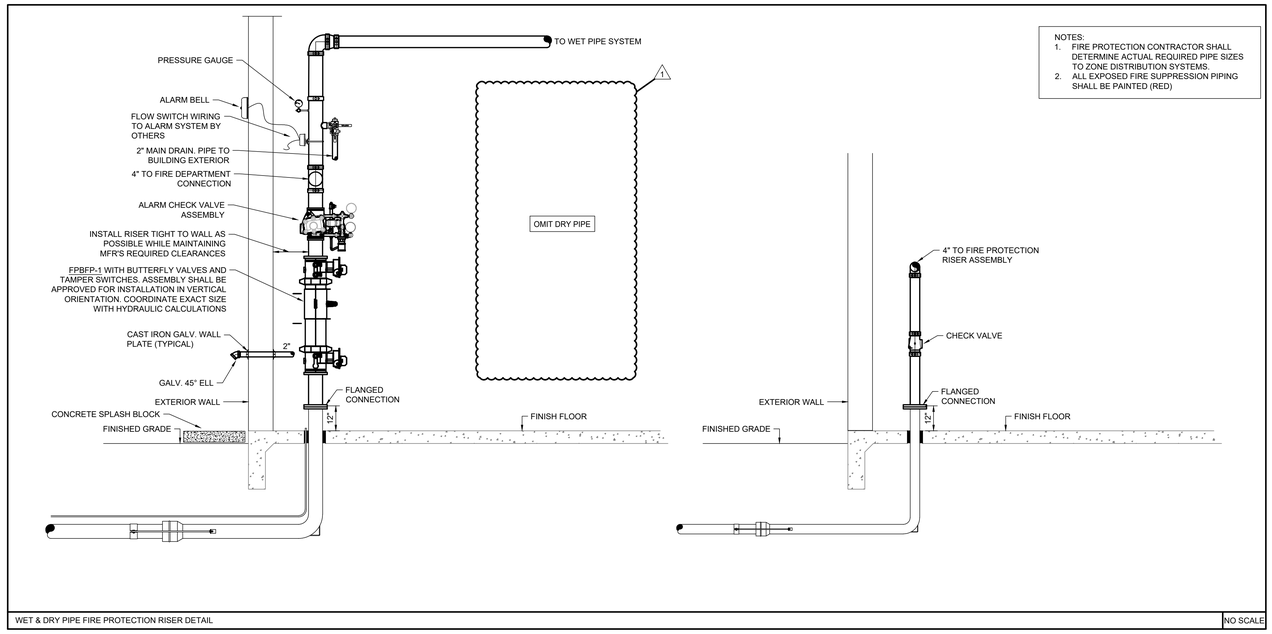
1" = 1'-0" GRAPHIC SCALE
3/4" = 1'-0" GRAPHIC SCALE
1/2" = 1'-0" GRAPHIC SCALE
3/8" = 1'-0" GRAPHIC SCALE

BACKFLOW PREVENTER

MARK	DESCRIPITION	MAKE	MODEL	SERVES	REMARKS
FPBFP-1	FIRE PROTECTION BACKFLOW PREVENTER	WATTS	757OSY NRS	FIRE PROTECTION	

MISCELLANEOUS FIRE PROTECTION POWER, CONTROL AND INTERLOCK WIRING CONNECTIONS

TAG	DESCRIPTION	POWER WIRING	CONTROL & INTERLOCK WIRING	ELECTRICAL V/Ø	REMARKS
RISER	FIRE PROTECTION RISER VALVE	DIV 26 ELECTRICAL	DIV 28 FIRE ALARM	---	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
EAB	ELECTRIC ALARM BELL	DIV 26 ELECTRICAL	DIV 28 FIRE ALARM	120/1	LOCATED ON WALL ADJACENT TO FIRE PROTECTION RISER ROOM. SEE FIRE PROTECTION RISER DETAIL FOR ADDITIONAL INFORMATION.
F1	ZONE 1 FIRE PROTECTION FLOW SWITCH	DIV 26 ELECTRICAL	DIV 28 FIRE ALARM	---	FLOW SWITCH TO MONITOR SYSTEM FLOW STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS.
					OMIT DRY PIPE



NOTES:
1. FIRE PROTECTION CONTRACTOR SHALL DETERMINE ACTUAL REQUIRED PIPE SIZES TO ZONE DISTRIBUTION SYSTEMS.
2. ALL EXPOSED FIRE SUPPRESSION PIPING SHALL BE PAINTED (RED)

WET & DRY PIPE FIRE PROTECTION RISER DETAIL — NO SCALE

1" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
⅜" = 1'-0" GRAPHIC SCALE
⅛" = 1'-0" GRAPHIC SCALE

THE COMMONS - PACKAGE B
PEARL, MS
FP301

DEAN ARCHITECTURE
GEDDIE | GRANT | OUBRE
661 Sunnybrook, Ste 140
Ridgeland, MS 39157
601.939.7717
deandean.com

JOHN CHRISTOPHER GRANT — LICENSED PROFESSIONAL ENGINEER — 17087 — 9-18-2025 — STATE OF MISSISSIPPI

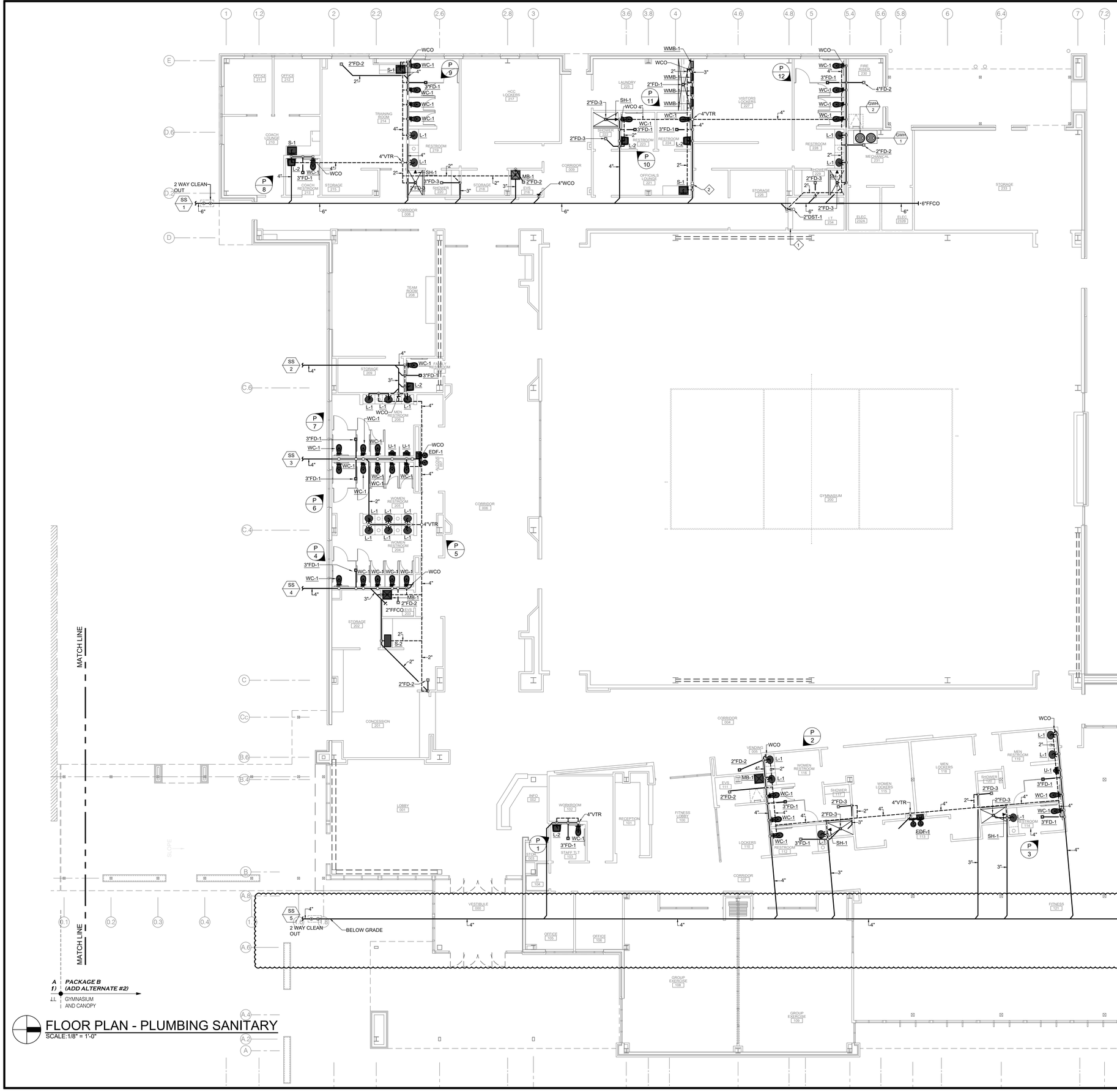
CONSTRUCTION DOCUMENTS

Project No.: 24053
Date: SEPTEMBER 18, 2025
Drawn: CC/DG
Checked: JCG
Revisions: 2 ADDENDUM #2 (10-9-2025)

THE COMMONS - PACKAGE B (ADD ALTERNATE #2)
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
FP301
FIRE PROTECTION DETAILS & SCHEDULES

ERG ENGINEERING RESOURCE GROUP, INC.
ERG-25.10.03



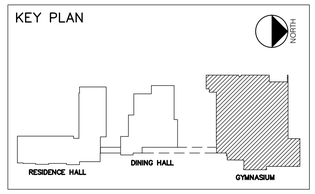
1" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
3" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
⅜" = 1'-0" GRAPHIC SCALE

A PACKAGE B
1) (ADD ALTERNATE #2)
GYMNASIUM AND CANOPY

FLOOR PLAN - PLUMBING SANITARY
SCALE: 1/8" = 1'-0"

THE COMMONS - PACKAGE B PEARL, MS 24053

KEY PLAN



PLAN NOTES

1. TRAP & VENT CONDENSATE DRAIN (SEE DETAIL) AT SPLIT SYSTEM UNIT. RUN DRAIN FULL-SIZE TO DEEP-SEAL TRAP (DST-1). INSTALL (DST-1) NEAR DRAIN OUTLET. INSULATE 2" PIPE IN WALL WITH "ARMAFLEX" 4" DOWN FROM DRAIN CONNECTION.

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JASON CHRISTOPHER GRANT
LICENSED PROFESSIONAL ENGINEER
17087
9-18-2025
STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

Project No. : 24053
Date: SEPTEMBER 18, 2025
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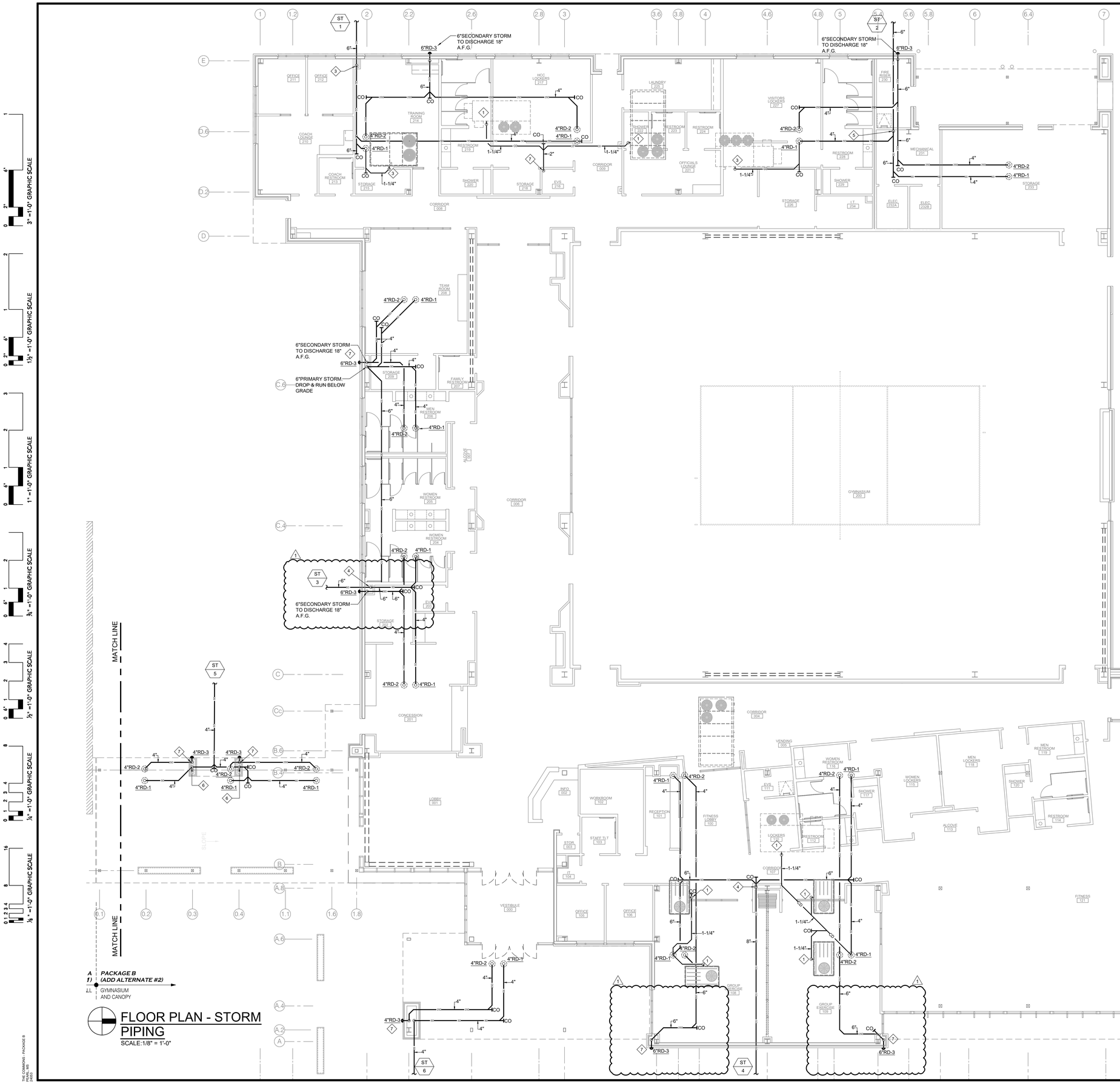
Revisions: 1 ADDENDUM #2 (10-9-2025)

THE COMMONS - PACKAGE B (ADD ALTERNATE #2)
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
P101
FLOOR PLAN
PLUMBING SANITARY

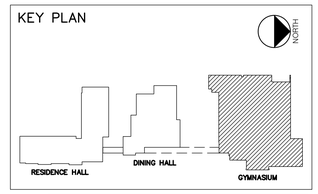
ENGINEERING RESOURCE GROUP, INC.
ERG
ERG25.10.03



FLOOR PLAN - STORM PIPING

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

KEY PLAN



PLAN NOTES

1. TRAP & VENT CONDENSATE DRAIN (SEE DETAIL) AT ROOFTOP UNIT. INCREASE TO 1-1/4". DROP & RUN ON ROOF TO ROOF DRAIN.
2. CONDENSATE DRAIN BOX WITH FRAME, COVER, AND SECONDARY DRAINAGE FUNNEL, AS BY SIOUX CHIEF (SEE DETAIL).
3. TRAP & VENT CONDENSATE DRAIN (SEE DETAIL) AT ROOFTOP UNIT. INCREASE TO 1-1/4". DROP & RUN ABOVE CEILING TO CONDENSATE DRAIN BOX.
4. 6" STORM SEWER. DROP IN FURRING. CONTINUE TO BELOW GRADE.
5. 6" STORM SEWER. DROP NEXT TO WALL AND RUN BELOW GRADE.
6. 4" STORM SEWER. DROP IN FURRING AND RUN BELOW GRADE.
7. 6" SECONDARY STORM SEWER. DROP IN FURRING. STUB THRU WALL 12" A.F.G. WITH DOWNSPOUT NOZZLE (RD-3).

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JOHN CHRISTOPHER DEAN — REGISTERED PROFESSIONAL ENGINEER — 17087 — 9-18-2025 — STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

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Date: SEPTEMBER 18, 2025
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(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE
(COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
P104
FLOOR PLAN
STORM PIPING

ENGINEERING RESOURCE GROUP, INC.
ERG
ERG.25.10.01

THE COMMONS - PACKAGE B
PEARL, MS
PEARL

1" = 1'-0" GRAPHIC SCALE
3/16" = 1'-0" GRAPHIC SCALE
1/8" = 1'-0" GRAPHIC SCALE
3/32" = 1'-0" GRAPHIC SCALE
1 1/2" = 1'-0" GRAPHIC SCALE
3" = 1'-0" GRAPHIC SCALE

The Power Source, PLLC

Consulting Engineers
305 Hwy 51
Ridgeland, MS 39157 **Telephone: (601) 605-4820**

Addendum #2

Date: 10/09/2025
To: Brad Heath, Dean Architecture
From: Chris Green, PE
Subject: Hinds Community College – "The Commons" Buildings
TPS PN: 25024

The following item shall be incorporated into the bid documents:

Item # 1 – Added Specification 263214 – 200KW Natural Gas Generator Sets
Item # 2 – Added Specification 263215 – 125KW Natural Gas Generator Sets
Item # 3 – Added Specification 263623 – Automatic Transfer Switches

Item #4 – Specification 260533 – Add 1.2 F -Size all conduits per the requirements of the NEC; however, minimum conduit size shall be ¾" nominal trade size.

Refer to drawings Package "A".

Item #5 -Sheet E008 – Replaced sheet in its entirety. Modified panel schedules.
Item #6 -Sheet E009 – Replaced sheet in its entirety. Modified panel schedules.
Item #7 -Sheet E010 – Delete this sheet in its entirety.
Item #8 -Sheet E011 – Replaced sheet in its entirety. Modified panel schedules.
Item #9 -Sheet E210 – Replaced sheet in its entirety. Modified power plan.
Item #10 -Sheet E300 – Replaced sheet in its entirety. Modified mechanical plan.
Item #11 -Sheet E301 – Replaced sheet in its entirety. Modified mechanical plan.
Item #12 -Sheet E302 – Replaced sheet in its entirety. Modified mechanical plan.
Item #13 -Sheet E310 – Replaced sheet in its entirety. Modified mechanical plan.

The Power Source, PLLC

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Refer to drawings Package “B”.

Item #13 – Sheet E021 – Replaced sheet in its entirety. Modified one line diagram.
Item #14 – Sheet E024 – Replaced sheet in its entirety. Modified panel schedules.
Item #15 - Sheet E220 – Replaced sheet in its entirety. Modified power plan.
Item #16 -Sheet E320 – Replaced sheet in its entirety. Modified mechanical plan.
Item #17 – Sheet E420 – Replaced sheet in its entirety. Modified auxiliary plan.

Sincerely,

Chris Green, PE
The Power Source, PLLC

SECTION 263214 – 200 KW NATURAL GAS GENERATOR SETS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Provide a complete and operable Emergency/Standby electric generating system with digital electronic controls, including all devices and equipment specified herein, as shown on the drawings, or required for the service. Equipment shall be new, factory tested, and delivered ready for installation.

B. The requirements specified below are based upon a **Cummins C200N6 with Level 2 Aluminum Sound Enclosure 480V 3 Ph.** These requirements are the minimum that will be accepted, no exceptions. Generators by Caterpillar, Kohler, and Blue Star that meet or exceed all the requirements of this specification will be acceptable. Request for approval must include a line-by-line compliance statement based on these specifications.

1.3 DEFINITIONS

A. Emergency Standby Power (ESP): Per ISO 8528: The maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hours of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output (Ppp) over 24 hours of operation shall not exceed 70 percent of the ESP unless otherwise agreed by the RIC engine manufacturer.

B. Operational Bandwidth: The total variation from the lowest to highest value of a parameter over the range of conditions indicated, expressed as a percentage of the nominal value of the parameter.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of packaged engine generator indicated. Include rated capacities, operating characteristics, and furnished specialties and accessories. In addition, include the following:

1. Thermal damage curve for generator.

2. Time-current characteristic curves for generator protective device.

3. Sound test data, based on a free field requirement.

B. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, and location and size of each field connection.

1. Dimensioned outline plan and elevation drawings of engine-generator set and other components specified.

2. Wiring Diagrams: Control interconnection, Customer connections.

C. Certifications:

1. Submit statement of compliance which states the proposed product(s) is certified to the emissions standards required by the location for EPA, stationary emergency application.

1.5 INFORMATIONAL SUBMITTALS

A. Source quality-control test reports.

1. Certified summary of prototype-unit test report. See requirements in Part 2 "Source Quality Control" Article Part A. Include statement indicating torsional compatibility of components.

2. Certified Test Report: Provide certified test report documenting factory test per the requirements of this specification, as well as certified factory test of generator set sensors per NFPA110 level 1.

3. List of factory tests to be performed on units to be shipped for this Project.

4. Report of exhaust emissions and compliance statement certifying compliance with applicable regulations.

B. Warranty:

1. Submit manufacturer’s warranty statement to be provided for this Project.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.

B. Manufacturer Qualifications: A qualified manufacturer. Maintain, within Jackson of Project site, a service center capable of providing training, parts, and emergency maintenance repairs.

C. Source Limitations: Obtain packaged generator sets and auxiliary components through one source from a single manufacturer.

D. Comply with NFPA 37 (Standard For the Installation and Use of Stationary Combustion Engines and Gas Turbines).

E. Comply with NFPA 70 (National Electrical Code. Equipment shall be suitable for use in systems in compliance to Article 700, 701, and 702).

F. Comply with NFPA 110 (Emergency and Standby Power Systems) requirements for Level 1 emergency power supply system.

G. Comply with UL 2200.

H. Noise Emission: Comply with Applicable state and local government requirements for maximum noise level at Adjacent property boundaries due to sound emitted by generator set including engine, engine exhaust, engine cooling-air intake and discharge, and other components of installation.

1.7 PROJECT CONDITIONS

A. Environmental Conditions: Engine-generator system shall withstand the following environmental conditions without mechanical or electrical damage or degradation of performance capability:

1. Ambient Temperature: 0.0 deg C (32.0 deg F) to 40.0 deg C (104.0 deg F).

2. Relative Humidity: 0 to 95 percent.

3. Altitude: Sea level to 500.0 feet (152.4 m).

1.8 WARRANTY

A. Base Warranty: Manufacturer shall provide base warranty coverage on the material and workmanship of the generator set for a minimum of twenty-four (24) months for Standby product and twelve (12) months for Prime/Continuous product from registered commissioning and start-up.

B. Extended Warranty: Manufacturer shall offer extend coverage of 5 years from date of registered commissioning and start-up.

C. No third party warranty will be accepted. Third party warranty means work on the entire engine and generator package shall be performed only by the supplying distributor and must be with factory trained service personnel that are employed by generator distributor. There shall only be one source responsibility for warranty. Warranty verification must be provided with submittals and submittals received without written warranties as specified will be rejected in their entirety.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: The basis for this specification is Cummins Power Generation equipment, approved equals may be considered if equipment performance is shown to meet the requirements herein.

2.2 ENGINE-GENERATOR SET

A. Factory-assembled and -tested, engine-generator set.

B. Mounting Frame: Maintain alignment of mounted components without depending on concrete foundation; and have lifting attachments.

1. Rigging Information: Indicate location of each lifting attachment, generator-set center of gravity, and total package weight in submittal drawings.

C. Capacities and Characteristics:

1. Power Output Ratings: Electrical output power rating for Standby operation of not less than 200.0 kW, at 80 percent lagging power factor, 277/480V Wye Three phase, 4 -wire, 60 hertz.

2. Alternator shall be capable of accepting maximum 790.0 kVA in a single step and be capable of recovering to a minimum of 90% of rated no load voltage. Following the application of the specified kVA load at near zero power factor applied to the generator set.

3. Nameplates: For each major system component to identify manufacturer's name and address, and model and serial number of component. The engine-generator nameplate shall include information of the power output rating of the equipment.

D. Generator-Set Performance:

1. Steady-State Voltage Operational Bandwidth: 1.0 percent of rated output voltage from no load to full load.

2. Transient Voltage Performance: Not more than 20 percent variation for 50 percent step-load increase or decrease. Voltage shall recover and remain within the steady-state operating band within 5 seconds. On application of a 100% load step the generator set shall recover to stable voltage within 10 seconds.

3. Steady-State Frequency Operational Bandwidth: 0.5 percent of rated frequency from no load to full load.

4. Steady-State Frequency Stability: When system is operating at any constant load within the rated load, there shall be no random speed variations outside the steady-state operational band and no hunting or surging of speed.

5. Transient Frequency Performance: Not more than 15 percent variation for 50 percent step-load increase or decrease. Frequency shall recover and remain within the steady-state operating band within 5 seconds. On application of a 100% load step the generator set shall recover to stable frequency within 10 seconds.

6. Output Waveform: At full load, harmonic content measured line to line or line to neutral shall not exceed 5 percent total and 3 percent for any single harmonic. Telephone influence factor, determined according to NEMA MG 1, shall not exceed 50.

7. Sustained Short-Circuit Current: (For engine-generator sets using a PMG-excited alternator) For a 3-phase, bolted short circuit at system output terminals, system shall supply a minimum of 300 percent of rated full-load

current for not less than 8 seconds without damage to generator system components. For a 1-phase, bolted short circuit at system output terminals, system shall regulate both voltage and current to prevent over-voltage conditions on the non-faulted phases.

8. Start Time: Comply with NFPA 110, Level 1, Type 10, system requirements.

9. Ambient Condition Performance: Engine generator shall be designed to allow operation at full rated load in an ambient temperature under site conditions, based on highest ambient condition. Ambient temperature shall be as measured at the air inlet to the engine generator for enclosed units, and at the control of the engine generator for machines installed in equipment rooms.

2.3 ENGINE

A. Fuel: Natural Gas

B. Rated Engine Speed: 1800RPM.

C. Lubrication System: The following items are mounted on engine or skid:

1. Lube oil pump: shall be positive displacement, mechanical, full pressure pump.

2. Filter and Strainer: Provided by the engine manufacturer of record to provide adequate filtration for the prime mover to be used.

3. Crankcase Drain: Arranged for complete gravity drainage to an easily removable container with no disassembly and without use of pumps, siphons, special tools, or appliances.

D. Engine Fuel System: The engine fuel system shall be installed in strict compliance to the engine manufacturer's instructions

E. Coolant Jacket Heater: Electric-immersion type, factory installed in coolant jacket system. Comply with NFPA 110 requirements for Level 1 equipment for heater capacity and performance.

1. Designed for operation on a single 120 VAC, Single phase, 60Hz power connection. Heater voltage shall be shown on the project drawings.

2. Installed with isolation valves to isolate the heater for replacement of the element without draining the engine cooling system or significant coolant loss.

3. Provided with a 12VDC thermostat, installed at the engine thermostat housing

F. Governor: Adjustable isochronous, with speed sensing. The governing system dynamic capabilities shall be controlled as a function of engine coolant temperature to provide fast, stable operation at varying engine operating temperature conditions. The control system shall actively control the fuel rate as appropriate to the state of the engine generator. Fuel rate shall be regulated as a

function of starting, accelerating to start disconnect speed, accelerating to rated speed, and operating in various isochronous states.

G. Cooling System: Closed loop, liquid cooled

1. The generator set manufacturer shall provide prototype test data for the specific hardware proposed demonstrating that the machine will operate at rated standby load in an outdoor ambient condition of 40 deg C.

2. Coolant: Solution of 50 percent ethylene-glycol-based antifreeze and 50 percent water, with anticorrosion additives as recommended by engine manufacturer.

3. Size of Radiator overflow tank: Adequate to contain expansion of total system coolant from cold start to 110 percent load condition.

4. Expansion Tank: Constructed of welded steel plate and rated to withstand maximum closed-loop coolant system pressure for engine used. Equip with gage glass and petcock.

5. Temperature Control: Self-contained, thermostatic-control valve modulates coolant flow automatically to maintain optimum constant coolant temperature as recommended by engine manufacturer.

6. Duct Flange: Generator sets installed indoors shall be provided with a flexible radiator duct adapter flange.

H. Muffler/Silencer: Selected with performance as required to meet sound requirements of the application, sized as recommended by engine manufacturer and selected with exhaust piping system to not exceed engine manufacturer's engine backpressure requirements. For generator sets with outdoor enclosures the silencer shall be inside the enclosure.

I. Air-Intake Filter: Engine-mounted air cleaner with replaceable dry-filter element and restriction indicator.

J. Starting System: 12 or 24V, as recommended by the engine manufacturer; electric, with negative ground.

1. Components: Sized so they will not be damaged during a full engine-cranking cycle with ambient temperature at maximum specified in Part 1 "Project Conditions" Article.

2. Cranking Cycle: As required by NFPA 110 for level 1 systems.

3. Battery Cable: Size as recommended by engine manufacturer for cable length as required. Include required interconnecting conductors and connection accessories.

4. Battery Compartment: Factory fabricated of metal with acid-resistant finish.

5. Battery-Charging Alternator: Factory mounted on engine with solid-state voltage regulation. The battery charging alternator shall have sufficient capacity to recharge the batteries with all parasitic loads connected within 4 hours after a normal engine starting sequence.

6. Battery Chargers: Unit shall comply with UL 1236, provide fully regulated, constant voltage, current limited, battery charger for each battery bank. It will include the following features:

    a. Operation: Equalizing-charging rate based on generator set manufacturer's recommendations shall be initiated automatically after battery has lost charge until an adjustable equalizing voltage is achieved at battery terminals. Unit shall then be automatically switched to a lower float-charging mode and shall continue to operate in that mode until battery is discharged again.

    b. Automatic Temperature Compensation: Adjust float and equalize voltages for variations in ambient temperature from minus 20 deg C to plus 40 deg C to prevent overcharging at high temperatures and undercharging at low temperatures.

    c. Automatic Voltage Regulation: Maintain constant output voltage regardless of input voltage variations up to plus or minus 10 percent.

    d. Safety Functions: Sense abnormally low battery voltage and close contacts providing low battery voltage indication on control and monitoring panel. Sense high battery voltage and loss of ac input or dc output of battery charger. Either condition shall close contacts that provide a battery-charger malfunction indication at system control and monitoring panel.

    e. Provide LED indication of general charger condition, including charging, faults, and modes. Provide a LCD display to indicate charge rate and battery voltage. Charger shall provide relay contacts for fault conditions as required by NFPA110.

    f. Enclosure and Mounting: NEMA, Type 1, wall-mounted cabinet.

2.4 CONTROL AND MONITORING

A. Engine generator control shall be microprocessor based and provide automatic starting, monitoring, protection and control functions for the unit.

B. Automatic Starting System Sequence of Operation: When mode-selector switch on the control and monitoring panel is in the automatic position, remote-control contacts in one or more separate automatic transfer switches initiate starting and stopping of generator set. When mode-selector switch is switched to the on position, generator set starts. The off position of same switch initiates generator-set shutdown. (Switches with different configurations but equal functions are acceptable.) When generator set is running, specified system or equipment failures or derangements automatically shut down generator set and initiate

alarms. Operation of the local (generator set-mounted) and/or remote emergency-stop switch also shuts down generator set.

C. Manual Starting System Sequence of Operation: Switching on-off switch on the generator control panel to the on position starts generator set. The off position of same switch initiates generator-set shutdown. When generator set is running, specified system or equipment failures or derangements automatically shut down generator set and initiate alarms. Operation of the local (generator set-mounted) and/or remote emergency-stop switch also shuts down generator set.

D. Configuration: Operating and safety indications, protective devices, system controls, engine gages and associated equipment shall be grouped in a common control and monitoring panel. Mounting method shall isolate the control panel from generator-set vibration. AC output power circuit breakers and other output power equipment shall not be mounted in the control enclosure.

E. Indicating and Protective Devices and Controls: As required by NFPA 110 for Level 1 system, and the following:

1. AC voltmeter (3-phase, line to line and line to neutral values).
2. AC ammeter (3-phases).
3. AC frequency meter.
4. AC kVA output (total and for each phase). Display shall indicate power flow direction.
5. Ammeter-voltmeter displays shall simultaneously display conditions for all three phases.
6. Emergency Stop Switch: Switch shall be a red “mushroom head” pushbutton device complete with lock-out/tag-out provisions. Depressing switch shall cause the generator set to immediately stop the generator set and prevent it from operating.
7. Fault Reset Switch: Supply a dedicated control switch to reset/clear fault conditions.
8. DC voltmeter (alternator battery charging).
9. Engine-coolant temperature gage.
10. Engine lubricating-oil pressure gage.
11. Running-time meter.
12. Generator-voltage and frequency digital raise/lower switches. Rheostats for these functions are not acceptable. The control shall adjustment of these parameters in a range of plus or minus 5% of the voltage and frequency operating set point (not nominal voltage and frequency values.)

13. AC Protective Equipment: The control system shall include over/under voltage, over current, short circuit, loss of voltage reference, and over excitation shut down protection. There shall be an overload warning, and overcurrent warning alarm.

14. Status LED indicating lamps to indicate remote start signal present at the control, existing alarm condition, not in auto, and generator set running.

15. A graphical display panel with appropriate navigation devices shall be provided to view all information noted above, as well as all engine status and alarm/shutdown conditions (including those from an integrated engine emission control system). The display shall also include integrated provisions for adjustment of the gain and stability settings for the governing and voltage regulation systems.

16. Panel lighting system to allow viewing and operation of the control when the generator room or enclosure is not lighted.

17. DC control Power Monitoring: The control system shall continuously monitor DC power supply to the control, and annunciate low or high voltage conditions. It shall also provide an alarm indicating imminent failure of the battery bank based on degraded voltage recover on loading (engine cranking).

F. Control Heater: Generator sets that are installed in outdoor enclosures, or are in tropical or coastal environments shall be provided with control heaters for anti-condensation protection.

G. Common Remote Audible Alarm: Comply with NFPA 110 requirements for Level 1 systems. Include necessary contacts and terminals in control and monitoring panel.

1. Overcrank shutdown.

2. Coolant low-temperature alarm.

3. Control switch not in auto position.

4. Battery-charger malfunction alarm.

5. Battery low-voltage alarm.

H. Remote Alarm Annunciator: Comply with NFPA 110. An LED labeled with proper alarm conditions shall identify each alarm event and a common audible signal shall sound for each alarm condition.

I. Remote Emergency-Stop Switch: Flush; wall mounted, unless otherwise indicated; and labeled. Push button shall be protected from accidental operation.

2.5 GENERATOR OVERCURRENT AND FAULT PROTECTION

A. Ground-Fault Indication: Comply with NFPA 70, "Emergency System" signals for ground-fault. Integrate ground-fault alarm indication with other generator-set alarm indications.

2.6 GENERATOR, EXCITER, AND VOLTAGE REGULATOR

A. Comply with NEMA MG 1.

B. Drive: Generator shaft shall be directly connected to engine shaft. Exciter shall be rotated integrally with generator rotor.

C. Electrical Insulation: Class H

D. Temperature Rise: 105 / Class F environment.

E. Construction shall prevent mechanical, electrical, and thermal damage due to vibration, over speed up to 125 percent of rating, and heat during operation at 110 percent of rated capacity.

F. Permanent Magnet Generator (PMG) shall provide excitation power for optimum motor starting and short circuit performance.

G. Enclosure: Drip-proof.

H. Voltage Regulator: SCR type, Separate from exciter, providing performance as specified. The voltage regulation system shall be microprocessor-controlled, full wave rectified, and provide a pulse-width modulated signal to the exciter. No exceptions or deviations to these requirements will be permitted.

I. The alternator shall be provided with anti-condensation heater(s) in all applications where the generator set is provided in an outdoor enclosure, or when the generator set is installed in a coastal or tropical environment.

J. Windings: Two-thirds pitch stator winding and fully linked amortisseur winding.

K. Subtransient Reactance: 15 percent maximum, based on the rating of the engine generator set.

2.7 OUTDOOR GENERATOR-SET ENCLOSURE

A. Description: Sound Attenuated Aluminum housing. Multiple panels shall be lockable and provide adequate access to components requiring maintenance. Instruments, control, and battery system shall be mounted within enclosure.

B. Construction:

1. Hinged Doors: With padlocking provisions. Restraint/Hold back hardware to prevent door to keep door open at 180 degrees during maintenance. Rain lips over all doors.

2. Exhaust System:

a. Muffler Location: Within enclosure.

3. Hardware: All hardware and hinges shall be stainless steel.

4. Wind Rating: Wind rating shall be 150 mph

5. Mounting Base: Suitable for mounting on sub-base fuel tank or housekeeping pad.

6. A weather protective enclosure shall be provided which allows the generator set to operate at full rated load with a static pressure drop equal to or less than 0.5 inches of water.

C. Engine Cooling Airflow through Enclosure: Housing shall provide ample airflow for engine generator operation at rated load in an ambient temperature of 40 deg C.

D. Sound Performance: Reduce the sound level of the engine generator while operating at full rated load to a maximum of 73 dBA measured at any location 7 m from the engine generator in a free field environment.

E. Site Provisions:

1. Lifting: Complete assembly of engine generator, enclosure shall be designed to be lifted into place as a single unit, using spreader bars.

2.8 VIBRATION ISOLATION DEVICES

A. Vibration Isolation: Generators installed on grade shall be provided with elastomeric isolator pads integral to the generator, unless the engine manufacturer requires use of spring isolation.

1. IBC Compliance: Isolators complying with IBC requirements shall be specified in the equipment documentation, as well as the installation requirements for the unit.

2.9 FINISHES

A. Indoor and Outdoor Enclosures and Components: Powder-coated and baked over corrosion-resistant pretreatment and compatible primer. Manufacturer’s standard color or as directed on the drawings.

2.10 SOURCE QUALITY CONTROL

A. Prototype Testing: Factory test engine-generator set using same engine model, constructed of identical or equivalent components and equipped with identical or equivalent accessories.

1. Tests: Comply with NFPA 110, Level 1 Energy Converters. In addition, the equipment engine, skid, cooling system, and alternator shall have been subjected to actual prototype tests to validate the capability of the design under the abnormal conditions noted in NFPA110. Calculations and testing on similar equipment which are allowed under NFPA110 are not sufficient to meet this requirement.

B. Project-Specific Equipment Tests: Before shipment, factory test engine-generator set manufactured specifically for this Project. Perform tests at rated load and power factor. Include the following tests:

1. Test engine generator set manufactured for this Project to demonstrate compatibility and functionality.
2. Full load run.
3. Maximum power.
4. Voltage regulation.
5. Steady-state governing.
6. Single-step load pickup.
7. Simulated safety shutdowns.
8. Provide 14 days' advance notice of tests and opportunity for observation of tests by Owner's representative.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Comply with packaged engine-generator manufacturers' written installation, application, and alignment instructions and with NFPA 110.

B. Equipment shall be installed by the contractor in accordance with final submittals and contract documents. Installation shall comply with applicable state and local codes as required by the authority having jurisdiction. Install equipment in accordance with manufacturer's instructions and instructions included in the listing or labeling of UL listed products.

C. Installation of equipment shall include furnishing and installing all interconnecting wiring between all major equipment provided for the on-site power system. The contractor shall also perform interconnecting wiring between equipment sections (when required), under the supervision of the equipment supplier.

D. Equipment shall be installed on concrete housekeeping pads. Equipment shall be permanently fastened to the pad in accordance with manufacturer’s instructions and seismic requirements of the site.

E. Equipment shall be initially started and operated by representatives of the manufacturer. All protective settings shall be adjusted as instructed by the consulting engineer.

F. All equipment shall be physically inspected for damage. Scratches and other installation damage shall be repaired prior to final system testing. Equipment shall be thoroughly cleaned to remove all dirt and construction debris prior to initial operation and final testing of the system.

G. On completion of the installation by the electrical contractor, the generator set supplier shall conduct a site evaluation to verify that the equipment is installed per manufacturer’s recommended practice.

3.2 ON-SITE ACCEPTANCE TEST

A. The complete installation shall be tested to verify compliance with the performance requirements of this specification following completion of all site work. Testing shall be conducted by representatives of the manufacturer, with required fuel supplied by Contractor. The Engineer shall be notified in advance and shall have the option to witness the tests. The generator set manufacturer shall provide a site test specification covering the entire system. Tests shall include:

B. Prior to start of active testing, all field connections for wiring, power conductors, and bus bar connections shall be checked for proper tightening torque.

C. Installation acceptance tests to be conducted on site shall include a "cold start" test, a two hour full load (resistive) test, and a one-step rated load pickup test in accordance with NFPA 110. Provide a resistive load bank and make temporary connections for full load test, if necessary.

D. Perform a power failure test on the entire installed system. This test shall be conducted by opening the power supply from the utility service, and observing proper operation of the system for at least 2 hours. Coordinate timing and obtain approval for start of test with site personnel.

3.3 TRAINING

A. The equipment supplier shall provide training for the facility operating personnel covering operation and maintenance of the equipment provided. The training program shall be not less than 4 hours in duration and the class size shall be limited to 5 persons. Training date shall be coordinated with the facility owner.

3.4 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

3.5 SERVICE AND SUPPORT

A. The generator set supplier shall maintain service parts inventory for the entire power system at a central location which is accessible to the service location 24 hours per day, 365 days per year. The inventory shall have a commercial value of $3 million or more. The manufacturer of the generator set shall maintain a central parts inventory to support the supplier, covering all the major components of the power system, including engines, alternators, control systems, paralleling electronics, and power transfer equipment.

B. The generator set shall be serviced by a local service organization that is trained and factory certified in generator set service. The supplier shall maintain an inventory of critical power system replacement parts in the local service location. Service vehicles shall be stocked with critical replacement parts. The service organization shall be on call 24 hours per day, 365 days per year. The service organization shall be physically located within Jackson of the site.

C. The manufacturer shall maintain model and serial number records of each generator set provided for at least 20 years.

3.6 SERVICE AGREEMENT:

A. The supplier shall include in the base price, a one-year service agreement. The maintenance shall be performed by factory authorized service technicians capable of servicing both the engine generator set and the transfer switch (es). This agreement shall include the following:

1. All engine maintenance as recommended by the service manual.
2. All electrical controls maintenance and calibrations as recommended by the manufacturer.
3. All auxiliary equipment as a part of the emergency systems.
4. The supplier shall guarantee emergency service.
5. All expendable maintenance items are to be included in this agreement.
6. A copy of this agreement and a schedule shall be given to the Owner at the time of his acceptance, showing what work is to be accomplished and when.

END OF SECTION

SECTION 263215 – 125 KW NATURAL GAS GENERATOR SETS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Provide a complete and operable Emergency/Standby electric generating system with digital electronic controls, including all devices and equipment specified herein, as shown on the drawings, or required for the service. Equipment shall be new, factory tested, and delivered ready for installation.

B. The requirements specified below are based upon a **Cummins C125N6 with Level 2 Aluminum Sound Enclosure 480V 3 Ph.** These requirements are the minimum that will be accepted, no exceptions. Generators by Caterpillar, Kohler, and Blue Star that meet or exceed all the requirements of this specification will be acceptable. Request for approval must include a line-by-line compliance statement based on these specifications.

1.3 DEFINITIONS

A. Emergency Standby Power (ESP): Per ISO 8528: The maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hours of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output (Ppp) over 24 hours of operation shall not exceed 70 percent of the ESP unless otherwise agreed by the RIC engine manufacturer.

B. Operational Bandwidth: The total variation from the lowest to highest value of a parameter over the range of conditions indicated, expressed as a percentage of the nominal value of the parameter.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of packaged engine generator indicated. Include rated capacities, operating characteristics, and furnished specialties and accessories. In addition, include the following:

1. Thermal damage curve for generator.

2. Time-current characteristic curves for generator protective device.

3. Sound test data, based on a free field requirement.

B. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, and location and size of each field connection.

1. Dimensioned outline plan and elevation drawings of engine-generator set and other components specified.

2. Wiring Diagrams: Control interconnection, Customer connections.

C. Certifications:

1. Submit statement of compliance which states the proposed product(s) is certified to the emissions standards required by the location for EPA, stationary emergency application.

1.5 INFORMATIONAL SUBMITTALS

A. Source quality-control test reports.

1. Certified summary of prototype-unit test report. See requirements in Part 2 "Source Quality Control" Article Part A. Include statement indicating torsional compatibility of components.

2. Certified Test Report: Provide certified test report documenting factory test per the requirements of this specification, as well as certified factory test of generator set sensors per NFPA110 level 1.

3. List of factory tests to be performed on units to be shipped for this Project.

4. Report of exhaust emissions and compliance statement certifying compliance with applicable regulations.

B. Warranty:

1. Submit manufacturer’s warranty statement to be provided for this Project.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.

B. Manufacturer Qualifications: A qualified manufacturer. Maintain, within Jackson of Project site, a service center capable of providing training, parts, and emergency maintenance repairs.

C. Source Limitations: Obtain packaged generator sets and auxiliary components through one source from a single manufacturer.

D. Comply with NFPA 37 (Standard For the Installation and Use of Stationary Combustion Engines and Gas Turbines).

E. Comply with NFPA 70 (National Electrical Code. Equipment shall be suitable for use in systems in compliance to Article 700, 701, and 702).

F. Comply with NFPA 110 (Emergency and Standby Power Systems) requirements for Level 1 emergency power supply system.

G. Comply with UL 2200.

H. Noise Emission: Comply with Applicable state and local government requirements for maximum noise level at Adjacent property boundaries due to sound emitted by generator set including engine, engine exhaust, engine cooling-air intake and discharge, and other components of installation.

1.7 PROJECT CONDITIONS

A. Environmental Conditions: Engine-generator system shall withstand the following environmental conditions without mechanical or electrical damage or degradation of performance capability:

1. Ambient Temperature: 0.0 deg C (32.0 deg F) to 40.0 deg C (104.0 deg F).

2. Relative Humidity: 0 to 95 percent.

3. Altitude: Sea level to 500.0 feet (152.4 m).

1.8 WARRANTY

A. Base Warranty: Manufacturer shall provide base warranty coverage on the material and workmanship of the generator set for a minimum of twenty-four (24) months for Standby product and twelve (12) months for Prime/Continuous product from registered commissioning and start-up.

B. Extended Warranty: Manufacturer shall offer extend coverage of 5 years from date of registered commissioning and start-up.

C. No third party warranty will be accepted. Third party warranty means work on the entire engine and generator package shall be performed only by the supplying distributor and must be with factory trained service personnel that are employed by generator distributor. There shall only be one source responsibility for warranty. Warranty verification must be provided with submittals and submittals received without written warranties as specified will be rejected in their entirety.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: The basis for this specification is Cummins Power Generation equipment, approved equals may be considered if equipment performance is shown to meet the requirements herein.

2.2 ENGINE-GENERATOR SET

A. Factory-assembled and -tested, engine-generator set.

B. Mounting Frame: Maintain alignment of mounted components without depending on concrete foundation; and have lifting attachments.

1. Rigging Information: Indicate location of each lifting attachment, generator-set center of gravity, and total package weight in submittal drawings.

C. Capacities and Characteristics:

1. Power Output Ratings: Electrical output power rating for Standby operation of not less than 125.0, at 80 percent lagging power factor, 277/480V Wye Three phase, 4 -wire, 60 hertz.

2. Alternator shall be capable of accepting maximum 497.0 kVA in a single step and be capable of recovering to a minimum of 90% of rated no load voltage. Following the application of the specified kVA load at near zero power factor applied to the generator set.

3. Nameplates: For each major system component to identify manufacturer's name and address, and model and serial number of component. The engine-generator nameplate shall include information of the power output rating of the equipment.

D. Generator-Set Performance:

1. Steady-State Voltage Operational Bandwidth: 1.0 percent of rated output voltage from no load to full load.

2. Transient Voltage Performance: Not more than 20 percent variation for 50 percent step-load increase or decrease. Voltage shall recover and remain within the steady-state operating band within 5 seconds. On application of a 100% load step the generator set shall recover to stable voltage within 10 seconds.

3. Steady-State Frequency Operational Bandwidth: 0.5 percent of rated frequency from no load to full load.

4. Steady-State Frequency Stability: When system is operating at any constant load within the rated load, there shall be no random speed variations outside the steady-state operational band and no hunting or surging of speed.

5. Transient Frequency Performance: Not more than 15 percent variation for 50 percent step-load increase or decrease. Frequency shall recover and remain within the steady-state operating band within 5 seconds. On application of a 100% load step the generator set shall recover to stable frequency within 10 seconds.

6. Output Waveform: At full load, harmonic content measured line to line or line to neutral shall not exceed 5 percent total and 3 percent for any single harmonic. Telephone influence factor, determined according to NEMA MG 1, shall not exceed 50.

7. Sustained Short-Circuit Current: (For engine-generator sets using a PMG-excited alternator) For a 3-phase, bolted short circuit at system output terminals, system shall supply a minimum of 300 percent of rated full-load

current for not less than 8 seconds without damage to generator system components. For a 1-phase, bolted short circuit at system output terminals, system shall regulate both voltage and current to prevent over-voltage conditions on the non-faulted phases.

8. Start Time: Comply with NFPA 110, Level 1, Type 10, system requirements.

9. Ambient Condition Performance: Engine generator shall be designed to allow operation at full rated load in an ambient temperature under site conditions, based on highest ambient condition. Ambient temperature shall be as measured at the air inlet to the engine generator for enclosed units, and at the control of the engine generator for machines installed in equipment rooms.

2.3 ENGINE

A. Fuel: Natural Gas

B. Rated Engine Speed: 1800RPM.

C. Lubrication System: The following items are mounted on engine or skid:

1. Lube oil pump: shall be positive displacement, mechanical, full pressure pump.

2. Filter and Strainer: Provided by the engine manufacturer of record to provide adequate filtration for the prime mover to be used.

3. Crankcase Drain: Arranged for complete gravity drainage to an easily removable container with no disassembly and without use of pumps, siphons, special tools, or appliances.

D. Engine Fuel System: The engine fuel system shall be installed in strict compliance to the engine manufacturer's instructions

E. Coolant Jacket Heater: Electric-immersion type, factory installed in coolant jacket system. Comply with NFPA 110 requirements for Level 1 equipment for heater capacity and performance.

1. Designed for operation on a single 120 VAC, Single phase, 60Hz power connection. Heater voltage shall be shown on the project drawings.

2. Installed with isolation valves to isolate the heater for replacement of the element without draining the engine cooling system or significant coolant loss.

3. Provided with a 12VDC thermostat, installed at the engine thermostat housing

F. Governor: Adjustable isochronous, with speed sensing. The governing system dynamic capabilities shall be controlled as a function of engine coolant temperature to provide fast, stable operation at varying engine operating temperature conditions. The control system shall actively control the fuel rate as appropriate to the state of the engine generator. Fuel rate shall be regulated as a

function of starting, accelerating to start disconnect speed, accelerating to rated speed, and operating in various isochronous states.

G. Cooling System: Closed loop, liquid cooled

1. The generator set manufacturer shall provide prototype test data for the specific hardware proposed demonstrating that the machine will operate at rated standby load in an outdoor ambient condition of 40 deg C.

2. Coolant: Solution of 50 percent ethylene-glycol-based antifreeze and 50 percent water, with anticorrosion additives as recommended by engine manufacturer.

3. Size of Radiator overflow tank: Adequate to contain expansion of total system coolant from cold start to 110 percent load condition.

4. Expansion Tank: Constructed of welded steel plate and rated to withstand maximum closed-loop coolant system pressure for engine used. Equip with gage glass and petcock.

5. Temperature Control: Self-contained, thermostatic-control valve modulates coolant flow automatically to maintain optimum constant coolant temperature as recommended by engine manufacturer.

6. Duct Flange: Generator sets installed indoors shall be provided with a flexible radiator duct adapter flange.

H. Muffler/Silencer: Selected with performance as required to meet sound requirements of the application, sized as recommended by engine manufacturer and selected with exhaust piping system to not exceed engine manufacturer's engine backpressure requirements. For generator sets with outdoor enclosures the silencer shall be inside the enclosure.

I. Air-Intake Filter: Engine-mounted air cleaner with replaceable dry-filter element and restriction indicator.

J. Starting System: 12 or 24V, as recommended by the engine manufacturer; electric, with negative ground.

1. Components: Sized so they will not be damaged during a full engine-cranking cycle with ambient temperature at maximum specified in Part 1 "Project Conditions" Article.

2. Cranking Cycle: As required by NFPA 110 for level 1 systems.

3. Battery Cable: Size as recommended by engine manufacturer for cable length as required. Include required interconnecting conductors and connection accessories.

4. Battery Compartment: Factory fabricated of metal with acid-resistant finish.

5. Battery-Charging Alternator: Factory mounted on engine with solid-state voltage regulation. The battery charging alternator shall have sufficient capacity to recharge the batteries with all parasitic loads connected within 4 hours after a normal engine starting sequence.

6. Battery Chargers: Unit shall comply with UL 1236, provide fully regulated, constant voltage, current limited, battery charger for each battery bank. It will include the following features:

    a. Operation: Equalizing-charging rate based on generator set manufacturer's recommendations shall be initiated automatically after battery has lost charge until an adjustable equalizing voltage is achieved at battery terminals. Unit shall then be automatically switched to a lower float-charging mode and shall continue to operate in that mode until battery is discharged again.

    b. Automatic Temperature Compensation: Adjust float and equalize voltages for variations in ambient temperature from minus 20 deg C to plus 40 deg C to prevent overcharging at high temperatures and undercharging at low temperatures.

    c. Automatic Voltage Regulation: Maintain constant output voltage regardless of input voltage variations up to plus or minus 10 percent.

    d. Safety Functions: Sense abnormally low battery voltage and close contacts providing low battery voltage indication on control and monitoring panel. Sense high battery voltage and loss of ac input or dc output of battery charger. Either condition shall close contacts that provide a battery-charger malfunction indication at system control and monitoring panel.

    e. Provide LED indication of general charger condition, including charging, faults, and modes. Provide a LCD display to indicate charge rate and battery voltage. Charger shall provide relay contacts for fault conditions as required by NFPA110.

    f. Enclosure and Mounting: NEMA, Type 1, wall-mounted cabinet.

2.4 CONTROL AND MONITORING

A. Engine generator control shall be microprocessor based and provide automatic starting, monitoring, protection and control functions for the unit.

B. Automatic Starting System Sequence of Operation: When mode-selector switch on the control and monitoring panel is in the automatic position, remote-control contacts in one or more separate automatic transfer switches initiate starting and stopping of generator set. When mode-selector switch is switched to the on position, generator set starts. The off position of same switch initiates generator-set shutdown. (Switches with different configurations but equal functions are acceptable.) When generator set is running, specified system or equipment failures or derangements automatically shut down generator set and initiate

alarms. Operation of the local (generator set-mounted) and/or remote emergency-stop switch also shuts down generator set.

C. Manual Starting System Sequence of Operation: Switching on-off switch on the generator control panel to the on position starts generator set. The off position of same switch initiates generator-set shutdown. When generator set is running, specified system or equipment failures or derangements automatically shut down generator set and initiate alarms. Operation of the local (generator set-mounted) and/or remote emergency-stop switch also shuts down generator set.

D. Configuration: Operating and safety indications, protective devices, system controls, engine gages and associated equipment shall be grouped in a common control and monitoring panel. Mounting method shall isolate the control panel from generator-set vibration. AC output power circuit breakers and other output power equipment shall not be mounted in the control enclosure.

E. Indicating and Protective Devices and Controls: As required by NFPA 110 for Level 1 system, and the following:

1. AC voltmeter (3-phase, line to line and line to neutral values).
2. AC ammeter (3-phases).
3. AC frequency meter.
4. AC kVA output (total and for each phase). Display shall indicate power flow direction.
5. Ammeter-voltmeter displays shall simultaneously display conditions for all three phases.
6. Emergency Stop Switch: Switch shall be a red “mushroom head” pushbutton device complete with lock-out/tag-out provisions. Depressing switch shall cause the generator set to immediately stop the generator set and prevent it from operating.
7. Fault Reset Switch: Supply a dedicated control switch to reset/clear fault conditions.
8. DC voltmeter (alternator battery charging).
9. Engine-coolant temperature gage.
10. Engine lubricating-oil pressure gage.
11. Running-time meter.
12. Generator-voltage and frequency digital raise/lower switches. Rheostats for these functions are not acceptable. The control shall adjustment of these parameters in a range of plus or minus 5% of the voltage and frequency operating set point (not nominal voltage and frequency values.)

13. AC Protective Equipment: The control system shall include over/under voltage, over current, short circuit, loss of voltage reference, and over excitation shut down protection. There shall be an overload warning, and overcurrent warning alarm.

14. Status LED indicating lamps to indicate remote start signal present at the control, existing alarm condition, not in auto, and generator set running.

15. A graphical display panel with appropriate navigation devices shall be provided to view all information noted above, as well as all engine status and alarm/shutdown conditions (including those from an integrated engine emission control system). The display shall also include integrated provisions for adjustment of the gain and stability settings for the governing and voltage regulation systems.

16. Panel lighting system to allow viewing and operation of the control when the generator room or enclosure is not lighted.

17. DC control Power Monitoring: The control system shall continuously monitor DC power supply to the control, and annunciate low or high voltage conditions. It shall also provide an alarm indicating imminent failure of the battery bank based on degraded voltage recover on loading (engine cranking).

F. Control Heater: Generator sets that are installed in outdoor enclosures, or are in tropical or coastal environments shall be provided with control heaters for anti-condensation protection.

G. Common Remote Audible Alarm: Comply with NFPA 110 requirements for Level 1 systems. Include necessary contacts and terminals in control and monitoring panel.

1. Overcrank shutdown.

2. Coolant low-temperature alarm.

3. Control switch not in auto position.

4. Battery-charger malfunction alarm.

5. Battery low-voltage alarm.

H. Remote Alarm Annunciator: Comply with NFPA 110. An LED labeled with proper alarm conditions shall identify each alarm event and a common audible signal shall sound for each alarm condition.

I. Remote Emergency-Stop Switch: Flush; wall mounted, unless otherwise indicated; and labeled. Push button shall be protected from accidental operation.

2.5 GENERATOR OVERCURRENT AND FAULT PROTECTION

A. Ground-Fault Indication: Comply with NFPA 70, "Emergency System" signals for ground-fault. Integrate ground-fault alarm indication with other generator-set alarm indications.

2.6 GENERATOR, EXCITER, AND VOLTAGE REGULATOR

A. Comply with NEMA MG 1.

B. Drive: Generator shaft shall be directly connected to engine shaft. Exciter shall be rotated integrally with generator rotor.

C. Electrical Insulation: Class H

D. Temperature Rise: 105 / Class F environment.

E. Construction shall prevent mechanical, electrical, and thermal damage due to vibration, over speed up to 125 percent of rating, and heat during operation at 110 percent of rated capacity.

F. Permanent Magnet Generator (PMG) shall provide excitation power for optimum motor starting and short circuit performance.

G. Enclosure: Drip-proof.

H. Voltage Regulator: SCR type, Separate from exciter, providing performance as specified. The voltage regulation system shall be microprocessor-controlled, full wave rectified, and provide a pulse-width modulated signal to the exciter. No exceptions or deviations to these requirements will be permitted.

I. The alternator shall be provided with anti-condensation heater(s) in all applications where the generator set is provided in an outdoor enclosure, or when the generator set is installed in a coastal or tropical environment.

J. Windings: Two-thirds pitch stator winding and fully linked amortisseur winding.

K. Subtransient Reactance: 15 percent maximum, based on the rating of the engine generator set.

2.7 OUTDOOR GENERATOR-SET ENCLOSURE

A. Description: Sound Attenuated Aluminum housing. Multiple panels shall be lockable and provide adequate access to components requiring maintenance. Instruments, control, and battery system shall be mounted within enclosure.

B. Construction:

1. Hinged Doors: With padlocking provisions. Restraint/Hold back hardware to prevent door to keep door open at 180 degrees during maintenance. Rain lips over all doors.

2. Exhaust System:

a. Muffler Location: Within enclosure.

3. Hardware: All hardware and hinges shall be stainless steel.

4. Wind Rating: Wind rating shall be 150 mph

5. Mounting Base: Suitable for mounting on sub-base fuel tank or housekeeping pad.

6. A weather protective enclosure shall be provided which allows the generator set to operate at full rated load with a static pressure drop equal to or less than 0.5 inches of water.

C. Engine Cooling Airflow through Enclosure: Housing shall provide ample airflow for engine generator operation at rated load in an ambient temperature of 40 deg C.

D. Sound Performance: Reduce the sound level of the engine generator while operating at full rated load to a maximum of 71 dBA measured at any location 7 m from the engine generator in a free field environment.

E. Site Provisions:

1. Lifting: Complete assembly of engine generator, enclosure shall be designed to be lifted into place as a single unit, using spreader bars.

2.8 VIBRATION ISOLATION DEVICES

A. Vibration Isolation: Generators installed on grade shall be provided with elastomeric isolator pads integral to the generator, unless the engine manufacturer requires use of spring isolation.

1. IBC Compliance: Isolators complying with IBC requirements shall be specified in the equipment documentation, as well as the installation requirements for the unit.

2.9 FINISHES

A. Indoor and Outdoor Enclosures and Components: Powder-coated and baked over corrosion-resistant pretreatment and compatible primer. Manufacturer’s standard color or as directed on the drawings.

2.10 SOURCE QUALITY CONTROL

A. Prototype Testing: Factory test engine-generator set using same engine model, constructed of identical or equivalent components and equipped with identical or equivalent accessories.

1. Tests: Comply with NFPA 110, Level 1 Energy Converters. In addition, the equipment engine, skid, cooling system, and alternator shall have been subjected to actual prototype tests to validate the capability of the design under the abnormal conditions noted in NFPA110. Calculations and testing on similar equipment which are allowed under NFPA110 are not sufficient to meet this requirement.

B. Project-Specific Equipment Tests: Before shipment, factory test engine-generator set manufactured specifically for this Project. Perform tests at rated load and power factor. Include the following tests:

1. Test engine generator set manufactured for this Project to demonstrate compatibility and functionality.
2. Full load run.
3. Maximum power.
4. Voltage regulation.
5. Steady-state governing.
6. Single-step load pickup.
7. Simulated safety shutdowns.
8. Provide 14 days' advance notice of tests and opportunity for observation of tests by Owner's representative.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Comply with packaged engine-generator manufacturers' written installation, application, and alignment instructions and with NFPA 110.

B. Equipment shall be installed by the contractor in accordance with final submittals and contract documents. Installation shall comply with applicable state and local codes as required by the authority having jurisdiction. Install equipment in accordance with manufacturer's instructions and instructions included in the listing or labeling of UL listed products.

C. Installation of equipment shall include furnishing and installing all interconnecting wiring between all major equipment provided for the on-site power system. The contractor shall also perform interconnecting wiring between equipment sections (when required), under the supervision of the equipment supplier.

D. Equipment shall be installed on concrete housekeeping pads. Equipment shall be permanently fastened to the pad in accordance with manufacturer’s instructions and seismic requirements of the site.

E. Equipment shall be initially started and operated by representatives of the manufacturer. All protective settings shall be adjusted as instructed by the consulting engineer.

F. All equipment shall be physically inspected for damage. Scratches and other installation damage shall be repaired prior to final system testing. Equipment shall be thoroughly cleaned to remove all dirt and construction debris prior to initial operation and final testing of the system.

G. On completion of the installation by the electrical contractor, the generator set supplier shall conduct a site evaluation to verify that the equipment is installed per manufacturer’s recommended practice.

3.2 ON-SITE ACCEPTANCE TEST

A. The complete installation shall be tested to verify compliance with the performance requirements of this specification following completion of all site work. Testing shall be conducted by representatives of the manufacturer, with required fuel supplied by Contractor. The Engineer shall be notified in advance and shall have the option to witness the tests. The generator set manufacturer shall provide a site test specification covering the entire system. Tests shall include:

B. Prior to start of active testing, all field connections for wiring, power conductors, and bus bar connections shall be checked for proper tightening torque.

C. Installation acceptance tests to be conducted on site shall include a "cold start" test, a two hour full load (resistive) test, and a one-step rated load pickup test in accordance with NFPA 110. Provide a resistive load bank and make temporary connections for full load test, if necessary.

D. Perform a power failure test on the entire installed system. This test shall be conducted by opening the power supply from the utility service, and observing proper operation of the system for at least 2 hours. Coordinate timing and obtain approval for start of test with site personnel.

3.3 TRAINING

A. The equipment supplier shall provide training for the facility operating personnel covering operation and maintenance of the equipment provided. The training program shall be not less than 4 hours in duration and the class size shall be limited to 5 persons. Training date shall be coordinated with the facility owner.

3.4 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

3.5 SERVICE AND SUPPORT

A. The generator set supplier shall maintain service parts inventory for the entire power system at a central location which is accessible to the service location 24 hours per day, 365 days per year. The inventory shall have a commercial value of $3 million or more. The manufacturer of the generator set shall maintain a central parts inventory to support the supplier, covering all the major components of the power system, including engines, alternators, control systems, paralleling electronics, and power transfer equipment.

B. The generator set shall be serviced by a local service organization that is trained and factory certified in generator set service. The supplier shall maintain an inventory of critical power system replacement parts in the local service location. Service vehicles shall be stocked with critical replacement parts. The service organization shall be on call 24 hours per day, 365 days per year. The service organization shall be physically located within Jackson of the site.

C. The manufacturer shall maintain model and serial number records of each generator set provided for at least 20 years.

3.6 SERVICE AGREEMENT:

A. The supplier shall include in the base price, a one-year service agreement. The maintenance shall be performed by factory authorized service technicians capable of servicing both the engine generator set and the transfer switch (es). This agreement shall include the following:

1. All engine maintenance as recommended by the service manual.
2. All electrical controls maintenance and calibrations as recommended by the manufacturer.
3. All auxiliary equipment as a part of the emergency systems.
4. The supplier shall guarantee emergency service.
5. All expendable maintenance items are to be included in this agreement.
6. A copy of this agreement and a schedule shall be given to the Owner at the time of his acceptance, showing what work is to be accomplished and when.

END OF SECTION

SECTION 263623 – AUTOMATIC TRANSFER SWITCHES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes transfer switches rated 600 V and less, including the following:

1. Automatic transfer switches

B. Related Sections include the following:

1.3 SUBMITTALS

A. Product Data: For each type of product indicated. Include rated capacities, weights, operating characteristics, furnished specialties, and accessories.

1. Technical data on all major components of all transfer switches and other products described in this section. Data is required for the transfer switch mechanism, control system, cabinet, and protective devices specifically listed for use with each transfer switch. Include steady state and fault current ratings, weights, operating characteristics, and furnished specialties and accessories.

2. Single Line Diagram: Show connections between transfer switch, power sources and load

B. Shop Drawings: Dimensioned plans, elevations, sections, and details showing minimum clearances, conductor entry provisions, gutter space, installed features and devices, and material lists for each switch specified.

1. Dimensioned outline drawings of assembly, including elevations, sections, and details including minimal clearances, conductor entry provisions, gutter space, installed features and devices and material lists for each switch specified.

2. Internal electrical wiring and control drawings.

3. Interconnection wiring diagrams, showing recommended conduit runs and point-to-point terminal connections to generator set.

4. Installation and mounting instructions, including information for proper installation of equipment to meet seismic requirements.

C. Manufacturer and Supplier Qualification Data

1. The transfer switch manufacturer shall be certified to ISO 9001 International Quality Standard and shall have third party certification verifying quality assurance in design/development, production, installation, and service, in accordance with ISO 9001.

2. The manufacturer of this equipment shall have produced similar equipment for a minimum period of 10 years. When requested, an acceptable list of installations with similar equipment shall be provided demonstrating compliance with this requirement.

D. Operation and Maintenance Data: For each type of product to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include the following:

1. Features and operating sequences, both automatic and manual.

2. List of all factory settings of relays, timers and protective devices; provide setting and calibration instructions where applicable.

E. Warranty documents demonstrating compliance with the project's contract requirements.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: The equipment supplier shall maintain a service center capable of providing training, parts, maintenance and emergency repairs to equipment, including transfer switch generator sets and remote monitoring equipment (if applicable) at the site within a response period of less than (eight hours or appropriate time period designated for Project) from time of notification.

1. The transfer switch shall be serviced by technicians employed by, and specially trained and certified by, the generator set supplier and the supplier shall have a service organization that is factory-certified in both generator set and transfer switch service. The supplier shall maintain an inventory of critical replacement parts at the local service organization, and in-service vehicles. The service organization shall be on call 24 hours per day, 365 days per year.

2. Submit names, experience level, training certifications, and locations for technicians that will be responsible for servicing equipment at this site.

3. The manufacturer shall maintain model and serial number records of each transfer switch provided for at least 20 years.

B. Source Limitations: All transfer switches are to be obtained through one source from a single manufacturer. The generator set manufacturer shall warrant transfer switches to provide a single source of responsibility for products provided.

C. 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 as suitable for use in emergency, legally required or optional standby use as appropriate for the connected load.

D. The automatic transfer switch installation and application shall conform to the requirements of the following codes and standards:

1. Transfer switches and enclosures shall be UL 1008 listed and labeled as suitable for use in emergency, legally required, and optional standby applications.
2. CSA 282, Emergency Electrical Power Supply for Buildings, and CSA C22.2, No. 14-M91 Industrial Control Equipment
3. NFPA 70, National Electrical Code. Equipment shall be suitable for use in systems in compliance with Articles 700, 701 and 702.
4. Comply with NEMA ICS 10-1993 AC Automatic Transfer Switches
5. IEEE 446 – Recommended Practice for Emergency and Standby Power Systems for Commercial and Industrial Applications
6. EN55011, Class B Radiated Emissions and Class B Conducted Emissions
7. IEC 1000-4-5 (EN 61000-4-5); AC Surge Immunity
8. IEC 1000-4-4 (EN 61000-4-4) Fast Transients Immunity
9. IEC 1000-4-2 (EN 61000-4-2) Electrostatic Discharge Immunity
10. IEC 1000-4-3 (EN 61000-4-3) Radiated Field Immunity
11. IEC 1000-4-6 Conducted Field Immunity
12. IEC 1000-4-11 Voltage Dip Immunity
13. IEEE 62.41, AC Voltage Surge Immunity
14. IEEE 62.45, AC Voltage Surge Testing

E. Comply with NFPA 99 – Essential Electrical Systems for Healthcare Facilities

F. Comply with NFPA 110 – Emergency and Standby Power Systems. The transfer switch shall meet all requirements for Level 1 systems, regardless of the actual circuit level.

G. The manufacturer shall warrant the material and workmanship of the transfer switch equipment for a minimum of two (2) years from registered commissioning and start-up, or eighteen (30) months from date of shipment.

H. The warranty shall be comprehensive. No deductibles shall be allowed for travel time, service hours, repair parts cost, and etc. during the minimum noted warranty period described above.

1.5 PROJECT CONDITIONS

A. Interruption of Existing Electrical Service: Do not interrupt electrical service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary electrical service:

1. Notify (Architect/Construction Manager/Owner) no fewer than (insert appropriate number) days in advance of proposed interruption of electrical service.

2. Do not proceed with interruption of electrical service without (Architect/Construction Manager/Owner's) written permission.

3. Do not energize any new service or distribution equipment without notification and permission of the (Architect/Construction Manager/Owner).

1.6 COORDINATION

A. Size and location of concrete bases and anchor bolt inserts shall be coordinated. Concrete, reinforcement and formwork must meet the requirements specified in Division 03. See section "INSTALLATION" for additional information on installation

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Cummins Power Generation, Model OTEC A 70A, 480V 3 PH 3 Pole NEMA 1 Enclosure

or

2. Cummins Power Generation, Model OTEC A 200A, 480V 3 PH 3 Pole NEMA 1 Enclosure

B. Equipment specifications for this Project are based on automatic transfer switches manufactured by Cummins Power Generation. Switches manufactured by other manufacturers that meet the requirement of this specification are acceptable Proposals must include a line-by-line compliance statement based on this specification.

C. Transfer switches utilizing molded case circuit breakers do not meet the requirements of this specification and will not be accepted.

2.2 GENERAL TRANSFER-SWITCH PRODUCT REQUIREMENTS

A. Provide transfer switches in the number and ratings that are shown on the drawings.

B. Indicated Current Ratings: Apply as defined in UL 1008 for continuous loading and total system transfer.

C. Fault-Current Closing and Withstand Ratings: UL 1008 WCR ratings must be specifically listed as meeting the requirements for use with protective devices at installation locations, under specified fault conditions. Withstand and closing ratings shall be based on use of the same set of contacts for the withstand test and the closing test.

D. Solid-State Controls: All settings should be accurate to +/- 2% or better over an operating temperature range of - 40 to + 60 degrees C (- 40 to + 140 degrees F).

E. Resistance to Damage by Voltage Transients: Components shall meet or exceed voltage-surge withstand capability requirements when tested according to IEEE C62.41. Components shall meet or exceed voltage-impulse withstand test of NEMA ICS 1.

F. Electrical Operation: Accomplished by a non-fused, momentarily energized solenoid or electric motor operator mechanism, mechanically and electrically interlocked in both directions (except that mechanical interlock is not required for closed transition switches).

G. Switch Characteristics: Designed for continuous-duty repetitive transfer of full-rated current between active power sources.

1. Switches using molded-case switches or circuit breakers, or insulated case circuit breaker components are not acceptable.

2. Transfer switches shall be double-throw, electrically and mechanically interlocked, and mechanically held in the Source 1 and Source 2 positions.

3. Main switch contacts shall be high pressure silver alloy. Contact assemblies shall have arc chutes for positive arc extinguishing. Arc chutes shall have insulating covers to prevent inter-phase flashover.

4. Contacts shall be operated by a high-speed electrical mechanism that causes contacts to open or close within three electrical cycles from signal.

5. Transfer switch shall be provided with flame retardant transparent covers to allow viewing of switch contact operation but prevent direct contact with components that could be operating at line voltage levels.

6. The transfer switch shall include the mechanical and control provisions necessary to allow the device to be field-configured for operating speed. Transfer switch operation with motor loads shall be as is recommended in NEMA MG1.

    a. Phase angle monitoring/timing equipment is not an acceptable substitute for this functionality

7. Transfer switches designated on the drawings as “3-pole” shall have a full current-rated neutral bar with lugs.

H. Factory wiring: Transfer switch internal wiring shall be composed of pre-manufactured harnesses that are permanently marked for source and

destination. Harnesses shall be connected to the control system by means of locking disconnect plug(s), to allow the control system to be easily disconnected and serviced without disconnecting power from the transfer switch mechanism

I. Terminals: Terminals shall be pressure type and appropriate for all field wiring. Control wiring shall be equipped with suitable lugs, for connection to terminal strips.

J. Enclosures: All enclosures shall be third-party certified for compliance to NEMA ICS 6 and UL 508, unless otherwise indicated:

1. The enclosure shall provide wire bend space in compliance to the latest version of NFPA70, regardless of the direction from which the conduit enters the enclosure.

2. Exterior cabinet doors shall provide complete protection for the system's internal components. Doors must have permanently mounted key-type latches. Bolted covers or doors are not acceptable.

3. Transfer switches shall be provided in enclosures that are third party certified for their intended environment per NEMA requirements.

2.3 AUTOMATIC TRANSFER SWITCHES

A. Comply with requirements for Level 1 equipment according to NFPA 110.

B. Indicated current ratings:

1. Refer to the Project drawings for specifications on the sizes and types of transfer switch equipment, withstand and closing ratings, number of poles, voltage and ampere ratings, enclosure type, and accessories.

2. Main contacts shall be rated for 600 VAC minimum.

3. Transfer switches shall be rated to carry 100% of rated current continuously in the enclosure supplied, in ambient temperatures of -40 to +60 degrees C (-40 to +140 degrees F), relative humidity up to 95% (non-condensing), and altitudes up to 10,000 feet (3000 meters).

C. Relay Signal: Control shall include provisions for addition of a pre-transfer relay signal, adjustable from 0 to 60 seconds, to be provided if necessary, for elevator operation, based on equipment provided for the project.

D. Transfer switches that are designated on the drawings as 3-pole shall be provided with a neutral bus and lugs. The neutral bus shall be sized to carry 100% of the current designated on the switch rating.

E. Automatic Transfer Switch Control Features

1. The transfer switch control system shall be configurable in the field for any operating voltage level up to 600 VAC. Voltage sensing shall be monitored based on the normal voltage at the site. Systems that utilize voltage

monitoring based on standard voltage conditions that are not field configurable are not acceptable.

2. All transfer switch sensing shall be configurable from an operator panel or from a Windows XP or later PC-based service tool. Designs utilizing DIP switches or other electromechanical devices are not acceptable.

3. The transfer switch shall provide a relay contact signal prior to transfer or re-transfer. The time period before and after transfer shall be adjustable in a range of 0 to 60 seconds.

4. The control system shall be designed and prototype tested for operation in ambient temperatures from - 40 degrees C to + 60 degrees C (- 40 to +140 degrees F). It shall be designed and tested to comply with the requirements of the noted voltage and RFI/EMI standards.

5. The control shall have optically isolated logic inputs, high isolation transformers for AC inputs and relays on all outputs, to provide optimum protection from line voltage surges, RFI and EMI.

6. The transfer switch network monitoring equipment, when supplied, shall be provided with a battery-based auxiliary power supply to allow monitoring of the transfer switch when both AC power sources are non-operational.

7. The indicator panel LEDs shall display:

    a. Which source the load is connected to (Source 1 or Source 2)

    b. Which source or sources are available

    c. When switch is not set for automatic operation, the control is disabled

    d. When the switch is in test/exercise mode

8. The indicator shall have pushbuttons that allow the operator to activate the following functions:

    a. Activate pre-programmed test sequence

    b. Override programmed delays, and immediately go to the next operation

F. Transfer Switch Control Panel: The transfer switch shall have a microprocessor-based control with a sealed membrane panel incorporating pushbuttons for operator-controlled functions, and LED lamps for system status indicators. Panel display and indicating lamps shall include permanent labels.

G. Control Functions: Functions managed by the control shall include:

    a. Engine start (prevents nuisance genset starts in the event of momentary power fluctuation): 0 to 10 seconds (default 3 sec)

    b. Transfer normal to emergency (allows genset to stabilize before load is transferred): 0 to 300 seconds (default 5 sec)

c. Re-transfer emergency to normal (allows utility to stabilize before load is transferred from genset): 0 to 30 minutes (default 10 min)

d. Engine cooldown: 0 to 30 minutes (default 10 min)

e. Programmed transition: 0 to 60 seconds (default 0 sec)

2. Under frequency sensing (emergency side):

a. Pickup: 90% of nominal frequency

b. Dropout: 85% of nominal frequency

H. Control features shall include:

1. Programmable genset exerciser: A field-programmable control shall periodically start and run the generator with or without transferring the load for a preset time period, then re-transfer and shut down the generator after a preset cool-down period.

2. In event of a loss of power to the control, all control settings and the engine start-time delay setting will be retained.

I. Control Interface

1. Provide one set Form C auxiliary contacts on both sides, operated by transfer switch position, rated 10 amps 250 VAC.

J. Engine Starting Contacts

1. One isolated and normally closed pair of contacts rated 8A at 30 VDC minimum.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Design each fastener and support to carry load indicated by seismic requirements and according to seismic-restraint details. See Division 26 Section "Vibration and Seismic Controls for Electrical Systems."

B. Floor-Mounting Switch: Anchor to floor by bolting.

1. Floor-mounted transfer switches (except drawout switches supported by wheeled carriages, which must be rolled out at floor level) shall be mounted on concrete bases complying with the following requirements:

a. Concrete Bases: 4 inches (100 mm) high, reinforced, with chamfered edges. Extend base no more than 4 inches (100 mm) in all directions beyond the maximum dimensions of switch, unless otherwise indicated or unless required for seismic support. Construct concrete bases according to Division 26 Section "Hangers and Supports for Electrical Systems."

C. Annunciator Panel Mounting: Flush in wall, unless otherwise indicated.

D. Identify components according to Division 26 Section "Identification for Electrical Systems."

E. Set field-adjustable intervals and delays, relays, and engine exerciser clock.

3.2 CONNECTIONS

A. Wiring to Remote Components: Match type and number of cables and conductors to control and communication requirements of transfer switches as recommended by manufacturer. Increase raceway sizes at no additional cost to Owner if necessary to accommodate required wiring.

B. Field control connections shall be made on a common terminal block that is clearly and permanently labeled.

C. Transfer switch shall be provided with AL/CU mechanical lugs sized to accept the full output rating of the switch. Lugs shall be suitable for the number and size of conductors shown on the drawings.

D. Ground equipment according to Division 26 Section "Grounding and Bonding for Electrical Systems."

E. Connect wiring according to Division 26 Section "Low-Voltage Electrical Power Conductors and Cables."

3.3 SOURCE QUALITY CONTROL

A. Prior to shipping, factory shall test and inspect components, assembled switches, and associated equipment to ensure proper operation.

B. Factory shall check transfer time and voltage, frequency, and time-delay settings for compliance with specified requirements.

C. Factory shall perform dielectric strength test complying with NEMA ICS 1.

3.4 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: The supplier of the transfer switch(es) and associated equipment shall inspect, test, and adjust components, assemblies, and equipment installations, including connections, and report results in writing.

B. Manufacturer’s representative shall perform tests and inspections and prepare test reports.

C. After installing equipment and after electrical circuitry has been energized, installer shall test for compliance with requirements.

1. Perform recommended installation tests as recommended in manufacturer’s installation and service manuals.

2. After energizing circuits, demonstrate interlocking sequence and operational function for each switch.

a. Simulate power failures of normal source to automatic transfer switches and of emergency source with normal source available.

b. Verify time-delay settings.

c. Verify proper sequence and correct timing of automatic engine starting, transfer time delay, retransfer time delay on restoration of normal power, and engine cool-down and shutdown.

3.5 DEMONSTRATION

A. After generator set installation, the generator and transfer switch supplier shall conduct a complete operation, basic maintenance, and emergency service seminar covering generator set and transfer switch equipment, for up to 10 people employed by the Owner.

1. The seminar shall include instruction on operation of the transfer equipment, normal testing and exercise, adjustments to the control system, and emergency operation procedures.

2. The class duration shall be at least 8 hours in length and include practical operation with the installed equipment.

END OF SECTION

PANEL	LOCATION:	ELECTRICAL ROOM N118	LUG LOCATION:	BOTTOM FEED	UL LISTED FOR SERVICE ENTRANCE
RDP	VOLT:	480Y/277V, 3Ø, 4W	MAIN BUS:	1200A MAIN BREAKER w/ LSIG	ALL BRANCH BREAKERS SHALL BE LSIG
	BUS:	1200A	MOUNTING:	SURFACE	PANELBOARD AIC RATING (A): 35,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE	A	B	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	225	3	PANEL "H1A"	A	37.7	52.4		PANEL "H1B"	225	3	2
3	-	-	-	B	37.5	47.4		-	-	-	4
5	-	-	-	C	37.1	42.3		-	-	-	6
7	225	3	PANEL "H2A"	A	30.7	30.4		PANEL "H2B"	225	3	8
9	-	-	-	B	27.3	27.3		-	-	-	10
11	-	-	-	C	26.3	27.0		-	-	-	12
13	225	3	PANEL "H3A"	A	32.0	32.5		PANEL "H3B"	225	3	14
15	-	-	-	B	30.3	30.0		-	-	-	16
17	-	-	-	C	28.6	29.1		-	-	-	18
19	70	3	PANEL "HLSA"	A	4.8	62.8		PANEL "MB"	400	3	20
21	-	-	-	B	5.2	62.8		-	-	-	22
23	-	-	-	C	4.7	62.8		-	-	-	24
25	70	3	PANEL "HEQA"	A	14.5	20.6		DOA-2	125	3	26
27	-	-	-	B	15.1	20.6		-	-	-	28
29	-	-	-	C	13.9	20.6		-	-	-	30
31	225	3	PANEL "MA"	A	37.7	0.0		SPARE	100	3	32
33	-	-	-	B	37.7	0.0		-	-	-	34
35	-	-	-	C	37.7	0.0		-	-	-	36
37	100	3	SPARE	A	0.0	0.0		SPARE	225	3	38
39	-	-	-	B	0.0	0.0		-	-	-	40
41	-	-	-	C	0.0	0.0		-	-	-	42
43	225	3	SPARE	A	0.0	0.0		SPARE	400	3	44
45	-	-	-	B	0.0	0.0		-	-	-	46
47	-	-	-	C	0.0	0.0		-	-	-	48
49	400	3	SPARE	A	0.0	0.0		SPD TYPE 1	60	3	50
51	-	-	-	B	0.0	0.0		-	-	-	52
53	-	-	-	C	0.0	0.0		-	-	-	54
TOTAL			** ARC FAULT BREAKER		356.0	341.1	329.9	* GFCI BREAKER			

PANEL	LOCATION:	SERVICE YARD EX03	LUG LOCATION:	BOTTOM FEED	
MA	VOLT:	480V, 3Ø, 3W	MAIN BUS:	MAIN LUGS ONLY	NEMA 3R ENCLOSURE
	BUS:	225A	MOUNTING:	SURFACE	PANELBOARD AIC RATING (A): 35,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE	A	B	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	30	3	ODU-5	A	6.0	6.9		ODU-4	50	3	2
3	-	-	-	B	6.0	6.9		-	-	-	4
5	-	-	-	C	6.0	6.9		-	-	-	6
7	30	3	ODU-5	A	6.0	6.0		ODU-4	45	3	8
9	-	-	-	B	6.0	6.0		-	-	-	10
11	-	-	-	C	6.0	6.0		-	-	-	12
13	50	3	ODU-6	A	6.9	0.0		SPARE	50	3	14
15	-	-	-	B	6.9	0.0		-	-	-	16
17	-	-	-	C	6.9	0.0		-	-	-	18
19	45	3	ODU-6	A	6.0	0.0		SPARE	45	3	20
21	-	-	-	B	6.0	0.0		-	-	-	22
23	-	-	-	C	6.0	0.0		-	-	-	24
25	30	3	SPARE	A	0.0	0.0		SPARE	30	3	26
27	-	-	-	B	0.0	0.0		-	-	-	28
29	-	-	-	C	0.0	0.0		-	-	-	30
31	50	3	SPARE	A	0.0	0.0		SPARE	50	3	32
33	-	-	-	B	0.0	0.0		-	-	-	34
35	-	-	-	C	0.0	0.0		-	-	-	36
37	45	3	SPARE	A	0.0	0.0		SPD TYPE 2A	30	3	38
39	-	-	-	B	0.0	0.0		-	-	-	40
41	-	-	-	C	0.0	0.0		-	-	-	42
TOTAL			** ARC FAULT BREAKER		37.7	37.7	37.7	* GFCI BREAKER			

PANEL	LOCATION:	ELECTRICAL ROOM N118	LUG LOCATION:	BOTTOM FEED	
H1A	VOLT:	480Y/277V, 3Ø, 4W	MAIN BUS:	MAIN LUGS ONLY	
	BUS:	225A	MOUNTING:	SURFACE	PANELBOARD AIC RATING (A): 35,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE	A	B	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - RESIDENCE N100 THRU N113, CORR N114	A	2.2	2.7		BP-1	20	3	2
3	20	1	LTS. - LOBBY 100, LIVING 113, LAUNDRY 112, CONF 104	B	1.5	2.7		-	-	-	4
5	20	1	LTS. - PARKING LOT	C	0.7	2.7		-	-	-	6
7	20	1	LTS. - PARKING LOT	A	3.0	0.0		SPARE	20	1	8
9	20	1	SPARE	B	0.0	0.0		SPARE	20	1	10
11	20	1	SPARE	C	0.0	0.0		SPARE	20	1	12
13	20	1	SPARE	A	0.0	0.0		SPARE	20	1	14
15	20	1	SPARE	B	0.0	0.0		SPARE	20	1	16
17	20	1	SPARE	C	0.0	0.0		SPARE	20	1	18
19	20	1	SPARE	A	0.0	0.0		SPARE	20	1	20
21	20	1	SPARE	B	0.0	0.0		SPARE	20	1	22
23	20	1	SPARE	C	0.0	0.0		SPARE	20	1	24
25	30	3	SPD TYPE 2A	A	0.0	29.9		TRANSFORMER "T1A" (PANEL "L1A")	175	3	26
27	-	-	-	B	0.0	33.3		-	-	-	28
29	-	-	-	C	0.0	33.8		-	-	-	30
TOTAL			** ARC FAULT BREAKER		37.7	37.5	37.1	* GFCI BREAKER			

PANEL	LOCATION:	MECH / ELEC ROOM N216	LUG LOCATION:	BOTTOM FEED	
H2A	VOLT:	480Y/277V, 3Ø, 4W	MAIN BUS:	MAIN LUGS ONLY	
	BUS:	225A	MOUNTING:	SURFACE	PANELBOARD AIC RATING (A): 35,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE	A	B	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - RESIDENCE N200 THRU N213, CORR N214	A	2.2	0.0		SPARE	20	1	2
3	20	1	LTS. - LOBBY 200, CORR, 205, STUDY 207	B	1.1	0.0		SPARE	20	1	4
5	20	1	SPARE	C	0.0	0.0		SPARE	20	1	6
7	20	1	SPARE	A	0.0	0.0		SPARE	20	1	8
9	20	1	SPARE	B	0.0	0.0		SPARE	20	1	10
11	20	1	SPARE	C	0.0	0.0		SPARE	20	1	12
13	20	1	SPARE	A	0.0	0.0		SPARE	20	1	14
15	20	1	SPARE	B	0.0	0.0		SPARE	20	1	16
17	20	1	SPARE	C	0.0	0.0		SPARE	20	1	18
19	20	1	SPARE	A	0.0	0.0		SPARE	20	1	20
21	20	1	SPARE	B	0.0	0.0		SPARE	20	1	22
23	20	1	SPARE	C	0.0	0.0		SPARE	20	1	24
25	30	3	SPD TYPE 2A	A	0.0	28.5		TRANSFORMER "T2A" (PANEL "L2A")	110	3	26
27	-	-	-	B	0.0	26.3		-	-	-	28
29	-	-	-	C	0.0	26.3		-	-	-	30
TOTAL			** ARC FAULT BREAKER		30.7	27.3	26.3	* GFCI BREAKER			

PANEL	LOCATION:	MECH / ELEC ROOM N316	LUG LOCATION:	BOTTOM FEED	
H3A	VOLT:	480Y/277V, 3Ø, 4W	MAIN BUS:	MAIN LUGS ONLY	
	BUS:	225A	MOUNTING:	SURFACE	PANELBOARD AIC RATING (A): 35,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE	A	B	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - RESIDENCE N300 THRU N313, CORR N314	A	2.2	1.3		EF-2	15	3	2
3	20	1	LTS. - LOBBY 300, CORR 305, CONF 304	B	0.8	1.3		-	-	-	4
5	20	1	SPARE	C	0.0	1.3		-	-	-	6
7	20	1	SPARE	A	0.0	0.0		SPARE	20	1	8
9	20	1	SPARE	B	0.0	0.0		SPARE	20	1	10
11	20	1	SPARE	C	0.0	0.0		SPARE	20	1	12
13	20	1	SPARE	A	0.0	0.0		SPARE	20	1	14
15	20	1	SPARE	B	0.0	0.0		SPARE	20	1	16
17	20	1	SPARE	C	0.0	0.0		SPARE	20	1	18
19	20	1	SPARE	A	0.0	0.0		SPARE	20	1	20
21	20	1	SPARE	B	0.0	0.0		SPARE	20	1	22
23	20	1	SPARE	C	0.0	0.0		SPARE	20	1	24
25	30	3	SPD TYPE 2A	A	0.0	28.5		TRANSFORMER "T3A" (PANEL "L3A")	110	3	26
27	-	-	-	B	0.0	28.1		-	-	-	28
29	-	-	-	C	0.0	27.3		-	-	-	30
TOTAL			** ARC FAULT BREAKER		32.0	30.3	28.6	* GFCI BREAKER			

PANEL	LOCATION:	SERVICE YARD EX02	LUG LOCATION:	BOTTOM FEED	NEMA 3R ENCLOSURE
MB	VOLT:	480V, 3Ø, 3W	MAIN BUS:	MAIN LUGS ONLY	
	BUS:	400A	MOUNTING:	SURFACE	PANELBOARD AIC RATING (A): 25,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE	A	B	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	50	3	ODU-1	A	6.9	24.3		DOA-1	125	3	2
3	-	-	-	B	6.9	24.3		-	-	-	4
5	-	-	-	C	6.9	24.3		-	-	-	6
7	45	3	ODU-1	A	6.0	6.9		ODU-3	50	3	8
9	-	-	-	B	6.0	6.9		-	-	-	10
11	-	-	-	C	6.0	6.9		-	-	-	12
13	50	3	ODU-2	A	6.9	6.0		ODU-3	45	3	14
15	-	-	-	B	6.9	6.0		-	-	-	16
17	-	-	-	C	6.9	6.0		-	-	-	18
19	45	3	ODU-2	A	6.0	0.0		SPARE	45	3	20
21	-	-	-	B	6.0	0.0		-	-	-	22
23	-	-	-	C	6.0	0.0		-	-	-	24
25	30	3	SPARE	A	0.0	0.0		SPARE	30	3	26
27	-	-	-	B	0.0	0.0		-	-	-	28
29	-	-	-	C	0.0	0.0		-	-	-	30
31	45	3	SPARE	A	0.0	0.0		SPARE	50	3	32
33	-	-	-	B	0.0	0.0		-	-	-	34
35	-	-	-	C	0.0	0.0		-	-	-	36
37	50	3	SPARE	A	0.0	0.0		SPD TYPE 2A	30	3	38
39	-	-	-	B	0.0	0.0		-	-	-	40
41	-	-	-	C	0.0	0.0		-	-	-	42
TOTAL			** ARC FAULT BREAKER		62.8	62.8	62.8	* GFCI BREAKER			

PANEL	LOCATION:	MECH / ELEC ROOM S116	LUG LOCATION:	BOTTOM FEED	
H1B	VOLT:	480Y/277V, 3Ø, 4W	MAIN BUS:	MAIN LUGS ONLY	
	BUS:	225A	MOUNTING:	SURFACE	PANELBOARD AIC RATING (A): 25,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE	A	B	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - RESIDENCE S100 THRU S114, CORR S114	A	2.2	0.0		SPARE	20	1	2
3	20	1	SPARE	B	0.0	0.0		SPARE	20	1	4
5	20	1	SPARE	C	0.0	0.0		SPARE	20	1	6
7	20	1	SPARE	A	0.0	0.0		SPARE	20	1	8
9	20	1	SPARE	B	0.0	0.0		SPARE	20	1	10
11	20	1	SPARE	C	0.0	0.0		SPARE	20	1	12
13	20	1	SPARE	A	0.0	0.0		SPARE	20	1	14
15	20	1	SPARE	B	0.0	0.0		SPARE	20	1	16
17	20	1	SPARE	C	0.0	0.0		SPARE	20	1	18
19	20	1	SPARE	A	0.0	0.0		SPARE	20	1	20
21	20	1	SPARE	B	0.0	0.0		SPARE	20	1	22
23	20	1	SPARE	C	0.0	0.0		SPARE	20	1	24
25	30	3	SPD TYPE 2A	A	0.0	50.3		TRANSFORMER "T1B" (PANEL "L1B)	175	3	26
27	-	-	-	B	0.0	47.4		-	-	-	28
29	-	-	-	C	0.0	42.3		-	-	-	30
TOTAL			** ARC FAULT BREAKER		52.4	47.4	42.3	* GFCI BREAKER			

PANEL	LOCATION:	MECH / ELEC ROOM S220	LUG LOCATION:	BOTTOM FEED	
H2B	VOLT:	480Y/277V, 3Ø, 4W	MAIN BUS:	MAIN LUGS ONLY	
	BUS:	225A	MOUNTING:	SURFACE	PANELBOARD AIC RATING (A): 25,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE	A	B	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - RESIDENCE S200 THRU S217, CORR S218	A	2.7	0.0		SPARE	20	1	2
3	20	1	SPARE	B	0.0	0.0		SPARE	20	1	4
5	20	1	SPARE	C	0.0	0.0		SPARE	20	1	6
7	20	1	SPARE	A	0.0	0.0		SPARE	20	1	8
9	20	1	SPARE	B	0.0	0.0		SPARE	20	1	10
11	20	1	SPARE	C	0.0	0.0		SPARE	20	1	12
13	20	1	SPARE	A	0.0	0.0		SPARE	20	1	14
15	20	1	SPARE	B	0.0	0.0		SPARE	20	1	16
17	20	1	SPARE	C	0.0	0.0		SPARE	20	1	18
19	20	1	SPARE	A	0.0	0.0		SPARE	20	1	20
21	20	1	SPARE	B	0.0	0.0		SPARE	20	1	22
23	20	1	SPARE	C	0.0	0.0		SPARE	20	1	24
25	30	3	SPD TYPE 2A	A	0.0	27.7		TRANSFORMER "T2B" (PANEL "L2B")	110	3	26
27	-	-	-	B	0.0	27.3		-	-	-	28
29	-	-	-	C	0.0	27.0		-	-	-	30
TOTAL			** ARC FAULT BREAKER		30.4	27.3	27.0	* GFCI BREAKER			

PANEL	LOCATION:	2.7	LUG LOCATION:	BOTTOM FEED	
H3B	VOLT:	480Y/277V, 3Ø, 4W	MAIN BUS:	MAIN LUGS ONLY	
	BUS:	225A	MOUNTING:	SURFACE	PANELBOARD AIC RATING (A): 25,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE	A	B	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - RESIDENCE S300 THRU S317, CORR S318	A	2.7	2.1		-	-	-	2
3	20	1	SPARE	B	0.0	2.1		-	-	-	4
5	20	1	SPARE	C	0.0	2.1		-	-	-	6
7	20	1	SPARE	A	0.0	0.0		SPARE	20	1	8
9	20	1	SPARE	B	0.0	0.0		SPARE	20	1	10
11	20	1	SPARE	C	0.0	0.0		SPARE	20	1	12
13	20	1	SPARE	A	0.0	0.0		SPARE	20	1	14
15	20	1	SPARE	B	0.0	0.0		SPARE	20	1	16
17	20	1	SPARE	C	0.0	0.0		SPARE	20	1	18
19	20	1	SPARE	A	0.0	0.0		SPARE	20	1	20
21	20	1	SPARE	B	0.0	0.0		SPARE	20	1	22
23	20	1	SPARE	C	0.0	0.0		SPARE	20	1	24
25	20	1	SPARE	A	0.0	27.7		TRANSFORMER "T3B" (PANEL "L3B")	110	3	26
27	20	1	SPARE	B	0.0	27.9		-	-	-	28
29	20	1	SPARE	C	0.0	27.0		-	-	-	30
TOTAL			** ARC FAULT BREAKER		32.5	30.0	29.1	* GFCI BREAKER			

PANEL	LOCATION:	ELECTRICAL ROOM N118	LUG LOCATION:	BOTTOM FEED	
L1A - SEC. 1	VOLT:	208Y/120V, 3Ø, 4W	MAIN BUS:	400A MAIN BREAKER W/FEED THRU LUGS	
	BUS:	400A	MOUNTING:	SURFACE	PANELBOARD AIC RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE	A	B	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	REC - REFRIGERATOR N112	A	2.0	2.0		REC - REFRIGERATOR N113	20	1	2
3	20	1	REC - MICROWAVE N112	B	1.4	1.4		REC - MICROWAVE N113	20	1	4
5	20	1	REC - RESIDENCE N112	C	1.6	1.6		REC - RESIDENCE N113	20	1	6
7	20	1	REC - BATH N112A	A	0.4	0.4		REC - BATH N113A	20	1	8
9	20	1	REC - REFRIGERATOR N110	B	2.0	2.0		REC - REFRIGERATOR N111	20	1	10
11	20	1	REC - MICROWAVE N110	C	1.4	1.4		REC - MICROWAVE N111	20	1	12
13	20	1	REC - RESIDENCE N110	A	1.6	1.6		REC - RESIDENCE N111	20	1	14
15	20	1	REC - BATH N110A	B	0.4	0.4		REC - BATH N111A	20	1	16
17	20	1	REC - REFRIGERATOR N108	C	2.0	2.0		REC - REFRIGERATOR N109	20	1	18
19	20	1	REC - MICROWAVE N108	A	1.4	1.4		REC - MICROWAVE N109	20	1	20
21	20	1	REC - RESIDENCE N108	B	1.6	1.6		REC - RESIDENCE N109	20	1	22
23	20	1	REC - BATH N108A	C	0.4	0.4		REC - BATH N109A	20	1	24
25	20	1	REC - REFRIGERATOR N106	A	2.0	2.0		REC - REFRIGERATOR N107	20	1	26
27	20	1	REC - MICROWAVE N106	B	1.4	1.4		REC - MICROWAVE N107	20	1	28
29	20	1	REC - RESIDENCE N106	C	1.6	1.6		REC - RESIDENCE N107	20	1	30
31	20	1	REC - BATH N106A	A	0.4	0.4		REC - BATH N107A	20	1	32
33	20	1	REC - REFRIGERATOR N104	B	2.0	2.0		REC - REFRIGERATOR N105	20	1	34
35	20	1	REC - MICROWAVE N104	C	1.4	1.4		REC - MICROWAVE N105	20	1	36
37	20	1	REC - RESIDENCE N104	A	1.6	1.6		REC - RESIDENCE N105	20	1	38
39	20	1	REC - BATH N104A	B	0.4	0.4		REC - BATH N105A	20	1	40
41	20	1	REC - REFRIGERATOR N102	C	2.0	2.0		REC - REFRIGERATOR N103	20	1	42
43	20	1	REC - MICROWAVE N102	A	1.4	1.4		REC - MICROWAVE N103	20	1	44
45	20	1	REC - RESIDENCE N102	B	1.6	1.6		REC - RESIDENCE N103	20	1	46
47	20	1	REC - BATH N102A	C	0.4	0.4		REC - BATH N103A	20	1	48
49	20	1	REC - REFRIGERATOR N100	A	2.0	2.0		REC - REFRIGERATOR N101	20	1	50
51	20	1	REC - MICROWAVE N100	B	1.4	1.4		REC - MICROWAVE N101	20	1	52
53	20	1	REC - RESIDENCE N100	C	1.6	1.6		REC - RESIDENCE N101	20	1	54
TOTAL			** ARC FAULT BREAKER		25.3	24.0	24.6	* GFCI BREAKER			

PANEL	LOCATION:	MECH / ELEC ROOM N316	LUG LOCATION:	BOTTOM FEED	
L3A - SEC. 1	VOLT:	208Y/120V, 3Ø, 4W	MAIN BUS:	225A MAIN BREAKER W/FEED THRU LUGS	
	BUS:	225A	MOUNTING:	SURFACE	PANELBOARD AIC RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE	A	B	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	REC - REFRIGERATOR N312	A	2.0	2.0		REC - REFRIGERATOR N313	20	1	2
3	20	1	REC - MICROWAVE N312	B	1.4	1.4		REC - MICROWAVE N313	20	1	4
5	20	1	REC - RESIDENCE N312	C	1.6	1.6		REC - RESIDENCE N313	20	1	6
7	20	1	REC - BATH N312A	A	0.4	0.4		REC - BATH N313A	20	1	8
9	20	1	REC - REFRIGERATOR N310	B	2.0	2.0		REC - REFRIGERATOR N311	20	1	10
11	20	1	REC - MICROWAVE N310	C	1.4	1.4		REC - MICROWAVE N311	20	1	12
13	20	1	REC - RESIDENCE N310	A	1.6	1.6		REC - RESIDENCE N311	20	1	14
15	20	1	REC - BATH N310A	B	0.4	0.4		REC - BATH N311A	20	1	16
17	20	1	REC - REFRIGERATOR N308	C	2.0	2.0		REC - REFRIGERATOR N309	20	1	18
19	20	1	REC - MICROWAVE N308	A	1.4	1.4		REC - MICROWAVE N309	20	1	20
21	20	1	REC - RESIDENCE N308	B	1.6	1.6		REC - RESIDENCE N309	20	1	22
23	20	1	REC - BATH N308A	C	0.4	0.4		REC - BATH N309A	20	1	24
25	20	1	REC - REFRIGERATOR N306	A	2.0	2.0		REC - REFRIGERATOR N307	20	1	26
27	20	1	REC - MICROWAVE N306	B	1.4	1.4		REC - MICROWAVE N307	20	1	28
29	20	1	REC - RESIDENCE N306	C	1.6	1.6		REC - RESIDENCE N307	20	1	30
31	20	1	REC - BATH N306A	A	0.4	0.4		REC - BATH N307A	20	1	32
33	20	1	REC - REFRIGERATOR N304	B	2.0	2.0		REC - REFRIGERATOR N305	20	1	34
35	20	1	REC - MICROWAVE N304	C	1.4	1.4		REC - MICROWAVE N305	20	1	36
37	20	1	REC - RESIDENCE N304	A	1.6	1.6		REC - RESIDENCE N305	20	1	38
39	20	1	REC - BATH N304A	B	0.4	0.4		REC - BATH N305A	20	1	40
41	20	1	REC - REFRIGERATOR N302	C	2.0	2.0		REC - REFRIGERATOR N303	20	1	42
43	20	1	REC - MICROWAVE N302	A	1.4	1.4		REC - MICROWAVE N303	20	1	44
45	20	1	REC - RESIDENCE N302	B	1.6	1.6		REC - RESIDENCE N303	20	1	46
47	20	1	REC - BATH N302A	C	0.4	0.4		REC - BATH N303A	20	1	48
49	20	1	REC - REFRIGERATOR N300	A	2.0	2.0		REC - REFRIGERATOR N301	20	1	50
51	20	1	REC - MICROWAVE N300	B	1.4	1.4		REC - MICROWAVE N301	20	1	52
53	20	1	REC - RESIDENCE N300	C	1.6	1.6		REC - RESIDENCE N301	20	1	54
TOTAL			** ARC FAULT BREAKER		25.3	24.0	24.6	* GFCI BREAKER			

PANEL	LOCATION:	ELECTRICAL ROOM N118	LUG LOCATION:	TOP FEED	
L1A - SEC. 2	VOLT:	208Y/120V, 3Ø, 4W	MAIN:	MAIN LUGS ONLY	
	BUS:	400A	MOUNTING:	SURFACE	PANELBOARD AIC RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE	A	B	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
55	20	1	REC - BATH N100A	A	0.4	0.4		REC - BATH N101A	20	1	56
57	20	1	DOOR OPERATOR	B	0.5	1.0		REC. - VENDING MACHINE	20	1	58
59	20	1	DOOR OPERATOR	C	0.5	1.0		REC. - VENDING MACHINE	20	1	60
61	20	1	DOOR OPERATOR	A	0.5	0.7		REC. - LOBBY 100	20	1	62
63	20	1	SIGN	B	0.5	0.4		REC. - LOBBY 100	20	1	64
65	20	1	REC. - CORRIDOR N114	C	0.5	0.7		REC - CONFERENCE 104	20	1	66
67	20	2	BS-4.2, IU-4.09 THRU 4.15	A

PANEL	LOCATION:	MECH / ELEC ROOM S220	LUG LOCATION:	BOTTOM FEED
L2B - SEC. 1	VOLT:	**208Y/120V, 3Ø, 4W**	MAIN BUS:	**225A MAIN BREAKER W/FEED THRU LUGS**
	BUS:	**225A**	MOUNTING:	**SURFACE**

PANELBOARD AIC RATING (A): **10,000**

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	REC. - REFRIGERATOR S216	1.0	1.0					REC. - REFRIGERATOR S217	20	1	2
3	20	1	REC. - MICROWAVE S216			1.4	1.4			REC. - MICROWAVE S217	20	1	4
5	20	1	REC. - RESIDESCE S216					1.6	1.6	REC. - RESIDESCE S217	20	1	6
7	20	1	REC. - BATH S216A	0.4	0.4					REC. - BATH S217A	20	1	8
9	20	1	REC. - REFRIGERATOR S214			1.0	1.0			REC. - REFRIGERATOR S215	20	1	10
11	20	1	REC. - MICROWAVE S214					1.4	1.4	REC. - MICROWAVE S215	20	1	12
13	20	1	REC. - RESIDESCE S214	1.6	1.6					REC. - RESIDESCE S215	20	1	14
15	20	1	REC. - BATH S214A			0.4	0.4			REC. - BATH S215A	20	1	16
17	20	1	REC. - REFRIGERATOR S212					1.0	1.0	REC. - REFRIGERATOR S213	20	1	18
19	20	1	REC. - MICROWAVE S212	1.4	1.4					REC. - MICROWAVE S213	20	1	20
21	20	1	REC. - RESIDESCE S212			1.6	1.6			REC. - RESIDESCE S213	20	1	22
23	20	1	REC. - BATH S212A					0.4	0.4	REC. - BATH S213A	20	1	24
25	20	1	REC. - REFRIGERATOR S210	1.0	1.0					REC. - REFRIGERATOR S211	20	1	26
27	20	1	REC. - MICROWAVE S210			1.4	1.4			REC. - MICROWAVE S211	20	1	28
29	20	1	REC. - RESIDESCE S210					1.6	1.6	REC. - RESIDESCE S211	20	1	30
31	20	1	REC. - BATH S210A	0.4	0.4					REC. - BATH S211A	20	1	32
33	20	1	REC. - REFRIGERATOR S208			1.0	1.0			REC. - REFRIGERATOR S209	20	1	34
35	20	1	REC. - MICROWAVE S208					1.4	1.4	REC. - MICROWAVE S209	20	1	36
37	20	1	REC. - RESIDESCE S208	1.6	1.6					REC. - RESIDESCE S209	20	1	38
39	20	1	REC. - BATH S208A			0.4	0.4			REC. - BATH S209A	20	1	40
41	20	1	REC. - REFRIGERATOR S206					1.0	1.0	REC. - REFRIGERATOR S207	20	1	42
43	20	1	REC. - MICROWAVE S206	1.4	1.4					REC. - MICROWAVE S207	20	1	44
45	20	1	REC. - RESIDESCE S206			1.6	1.6			REC. - RESIDESCE S207	20	1	46
47	20	1	REC. - BATH S206A					0.4	0.4	REC. - BATH S207A	20	1	48
49	20	1	REC. - REFRIGERATOR S204	1.0	1.0					REC. - REFRIGERATOR S205	20	1	50
51	20	1	REC. - MICROWAVE S204			1.4	1.4			REC. - MICROWAVE S205	20	1	52
53	20	1	REC. - RESIDESCE S204					1.6	1.6	REC. - RESIDESCE S205	20	1	54
TOTAL			**** ARC FAULT BREAKER**	19.3		20.0		20.6		*** GFCI BREAKER**			

PANEL	LOCATION:	MECH / ELEC ROOM S220	LUG LOCATION:	TOP FEED
L2B - SEC. 2	VOLT:	**208Y/120V, 3Ø, 4W**	MAIN:	**MAIN LUGS ONLY**
	BUS:	**225A**	MOUNTING:	**SURFACE**

PANELBOARD AIC RATING (A): **10,000**

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
55	20	1	REC. - BATH S204A	0.4	0.4					REC. - BATH S205A	20	1	56
57	20	1	REC. - REFRIGERATOR S202			1.0	1.0			REC. - REFRIGERATOR S203	20	1	58
59	20	1	REC. - MICROWAVE S202					1.3	1.4	REC. - MICROWAVE S203	20	1	60
61	20	1	REC. - RESIDENCE S202	1.6	1.6					REC. - RESIDENCE S203	20	1	62
63	20	1	REC. - BATH S202A			0.4	0.4			REC. - BATH S203A	20	1	64
65	20	1	REC. - REFRIGERATOR S200					1.0	1.0	REC. - REFRIGERATOR S201	20	1	66
67	20	1	REC. - MICROWAVE S200	1.4	1.4					REC. - MICROWAVE S201	20	1	68
69	20	1	REC. - RESIDENCE S200			1.6	1.6			REC. - RESIDENCE S201	20	1	70
71	20	1	REC. - BATH S200A					0.4	0.4	REC. - BATH S201A	20	1	72
73	20	1	REC. - CORRIDOR S218	0.4	0.4					REC. - EVS S218, ELEC S220	20	1	74
75	20	1	REC. - CORRIDOR S318			0.4	0.0			SPARE	20	1	76
77	20	2	BS-2.3, IU-2.16 THRU 2.23					0.5	0.0	SPARE	20	1	78
79	-	-	-	0.5	0.0					SPARE	20	1	80
81	20	2	BS-2.2, IU-2.10 THRU 2.16			0.5	0.0			SPARE	20	1	82
83	-	-	-					0.5	0.0	SPARE	20	1	84
85	20	2	BS-2.1, IU-2.01 THRU 2.08	0.5	0.0					SPARE	20	1	86
87	-	-	-			0.5	0.0			SPARE	20	1	88
89	20	1	SPARE					0.0	0.0	SPARE	20	1	90
91	20	1	SPARE	0.0	0.0					SPARE	20	1	92
93	20	1	SPARE			0.0	0.0			SPARE	20	1	94
95	20	1	SPARE					0.0	0.0	SPARE	20	1	96
97	20	1	SPARE	0.0	0.0					SPARE	20	1	98
99	20	1	SPARE			0.0	0.0			SPARE	20	1	100
101	20	1	SPARE					0.0	0.0	SPARE	20	1	102
103	20	1	SPARE	0.0	0.0					SPARE	20	1	104
105	20	1	SPARE			0.0	0.0			SPARE	20	1	106
107	20	1	SPARE					0.0	0.0	SPARE	20	1	108
TOTAL			**** ARC FAULT BREAKER**	8.4		7.3		6.4		*** GFCI BREAKER**			

PANEL	LOCATION:	MECH / ELEC ROOM S320	LUG LOCATION:	BOTTOM FEED
L3B - SEC. 1	VOLT:	**208Y/120V, 3Ø, 4W**	MAIN BUS:	**225A MAIN BREAKER W/FEED THRU LUGS**
	BUS:	**225A**	MOUNTING:	**SURFACE**

PANELBOARD AIC RATING (A): **10,000**

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	REC. - REFRIGERATOR S316	1.0	1.0					REC. - REFRIGERATOR S317	20	1	2
3	20	1	REC. - MICROWAVE S316			1.4	1.4			REC. - MICROWAVE S317	20	1	4
5	20	1	REC. - RESIDESCE S316					1.6	1.6	REC. - RESIDESCE S317	20	1	6
7	20	1	REC. - BATH S316A	0.4	0.4					REC. - BATH S317A	20	1	8
9	20	1	REC. - REFRIGERATOR S314			1.0	1.0			REC. - REFRIGERATOR S315	20	1	10
11	20	1	REC. - MICROWAVE S314					1.4	1.4	REC. - MICROWAVE S315	20	1	12
13	20	1	REC. - RESIDESCE S314	1.6	1.6					REC. - RESIDESCE S315	20	1	14
15	20	1	REC. - BATH S314A			0.4	0.4			REC. - BATH S315A	20	1	16
17	20	1	REC. - REFRIGERATOR S312					1.0	1.0	REC. - REFRIGERATOR S313	20	1	18
19	20	1	REC. - MICROWAVE S312	1.4	1.4					REC. - MICROWAVE S313	20	1	20
21	20	1	REC. - RESIDESCE S312			1.6	1.6			REC. - RESIDESCE S313	20	1	22
23	20	1	REC. - BATH S312A					0.4	0.4	REC. - BATH S313A	20	1	24
25	20	1	REC. - REFRIGERATOR S310	1.0	1.0					REC. - REFRIGERATOR S311	20	1	26
27	20	1	REC. - MICROWAVE S310			1.4	1.4			REC. - MICROWAVE S311	20	1	28
29	20	1	REC. - RESIDESCE S310					1.6	1.6	REC. - RESIDESCE S311	20	1	30
31	20	1	REC. - BATH S310A	0.4	0.4					REC. - BATH S311A	20	1	32
33	20	1	REC. - REFRIGERATOR S308			1.0	1.0			REC. - REFRIGERATOR S309	20	1	34
35	20	1	REC. - MICROWAVE S308					1.4	1.4	REC. - MICROWAVE S309	20	1	36
37	20	1	REC. - RESIDESCE S308	1.6	1.6					REC. - RESIDESCE S309	20	1	38
39	20	1	REC. - BATH S308A			0.4	0.4			REC. - BATH S309A	20	1	40
41	20	1	REC. - REFRIGERATOR S306					1.0	1.0	REC. - REFRIGERATOR S307	20	1	42
43	20	1	REC. - MICROWAVE S306	1.4	1.4					REC. - MICROWAVE S307	20	1	44
45	20	1	REC. - RESIDESCE S306			1.6	1.6			REC. - RESIDESCE S307	20	1	46
47	20	1	REC. - BATH S306A					0.4	0.4	REC. - BATH S307A	20	1	48
49	20	1	REC. - REFRIGERATOR S304	1.0	1.0					REC. - REFRIGERATOR S305	20	1	50
51	20	1	REC. - MICROWAVE S304			1.4	1.4			REC. - MICROWAVE S305	20	1	52
53	20	1	REC. - RESIDESCE S304					1.6	1.6	REC. - RESIDESCE S305	20	1	54
TOTAL			**** ARC FAULT BREAKER**	19.3		20.0		20.6		*** GFCI BREAKER**			

PANEL	LOCATION:	MECH / ELEC ROOM S320	LUG LOCATION:	TOP FEED
L3B - SEC. 2	VOLT:	**208Y/120V, 3Ø, 4W**	MAIN:	**MAIN LUGS ONLY**
	BUS:	**225A**	MOUNTING:	**SURFACE**

PANELBOARD AIC RATING (A): **10,000**

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
55	20	1	REC. - BATH S304A	0.4	0.4					REC. - BATH S305A	20	1	56
57	20	1	REC. - REFRIGERATOR S302			1.0	1.0			REC. - REFRIGERATOR S303	20	1	58
59	20	1	REC. - MICROWAVE S302					1.3	1.4	REC. - MICROWAVE S303	20	1	60
61	20	1	REC. - RESIDENCE S302	1.6	1.6					REC. - RESIDENCE S303	20	1	62
63	20	1	REC. - BATH S302A			0.4	0.4			REC. - BATH S303A	20	1	64
65	20	1	REC. - REFRIGERATOR S300					1.0	1.0	REC. - REFRIGERATOR S301	20	1	66
67	20	1	REC. - MICROWAVE S300	1.4	1.4					REC. - MICROWAVE S301	20	1	68
69	20	1	REC. - RESIDENCE S300			1.6	1.6			REC. - RESIDENCE S301	20	1	70
71	20	1	REC. - BATH S300A					0.4	0.4	REC. - BATH S301A	20	1	72
73	20	1	REC. - CORRIDOR S318	0.4	0.4					REC. - EVS S319, ELEC S320	20	1	74
75	20	1	REC. - CORRIDOR S318			0.4	0.5			REC. - ATTIC	20	1	76
77	20	2	BS-3.3, IU-3.17 THRU 3.24					0.5	0.0	SPARE	20	1	78
79	-	-	-	0.5	0.0					SPARE	20	1	80
81	20	2	BS-3.2, IU-3.10 THRU 3.16			0.5	0.0			SPARE	20	1	82
83	-	-	-					0.5	0.0	SPARE	20	1	84
85	20	2	BS-3.1, IU-3.01 THRU 3.09	0.5	0.0					SPARE	20	1	86
87	-	-	-			0.5	0.0			SPARE	20	1	88
89	20	1	SPARE					0.0	0.0	SPARE	20	1	90
91	20	1	SPARE	0.0	0.0					SPARE	20	1	92
93	20	1	SPARE			0.0	0.0			SPARE	20	1	94
95	20	1	SPARE					0.0	0.0	SPARE	20	1	96
97	20	1	SPARE	0.0	0.0					SPARE	20	1	98
99	20	1	SPARE			0.0	0.0			SPARE	20	1	100
101	20	1	SPARE					0.0	0.0	SPARE	20	1	102
103	20	1	SPARE	0.0	0.0					SPARE	20	1	104
105	20	1	SPARE			0.0	0.0			SPARE	20	1	106
107	20	1	SPARE					0.0	0.0	SPARE	20	1	108
TOTAL			**** ARC FAULT BREAKER**	8.4		7.9		6.4		*** GFCI BREAKER**			

PANEL	LOCATION:	GENERATOR YARD	LUG LOCATION:	BOTTOM FEED		
EDP	VOLT:	**480Y/277V, 3Ø, 4W**	MAIN BUS:	**MAIN LUGS ONLY**	**THIS PANEL IS EMERGENCY ONLY**	
	BUS:	**400A**	MOUNTING:	**SURFACE**	**NEMA 3R ENCLOSURE**	
					PANELBOARD AIC RATING (A):	**35,000**

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	70	3	ATS-LSA (PANEL HLSA)	4.8	0.0					ATS-LSC (PANEL HLSC)	70	3	2
3	-	-	-			5.2	0.0			-	-	-	4
5	-	-	-					4.7	0.0	-	-	-	6
7	70	3	ATS-EQA (PANEL HEQA)	14.5	0.0					ATS-EQB (TRANSFORMER TEQB) (PANEL LEQB)	70	3	8
9	-	-	-			15.1	0.0			-	-	-	10
11	-	-	-					13.9	0.0	-	-	-	12
13	80	3	FIRE PUMP	11.1	0.0					SPARE	70	3	14
15	-	-	-			11.1	0.0			-	-	-	16
17	-	-	-					11.1	0.0	-	-	-	18
19	30	3	SPD TYPE 2A	0.0	0.0					SPARE	80	3	20
21	-	-	-			0.0	0.0			-	-	-	22
23	-	-	-					0.0	0.0	-	-	-	24
TOTAL			**** ARC FAULT BREAKER**	30.3		31.4		29.7		*** GFCI BREAKER**			

PANEL	LOCATION:	EMERGENCY ELECTRICAL ROOM N117	LUG LOCATION:	BOTTOM FEED
HLSA	VOLT:	**480Y/277V, 3Ø, 4W**	MAIN BUS:	**MAIN LUGS ONLY**
	BUS:	**100A**	MOUNTING:	**SURFACE**

PANELBOARD AIC RATING (A): **35,000**

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - CORRIDOR N114, LOBBY 100	0.5	0.5					JOCKEY PUMP	15	3	2
3	20	1	LTS. - CORRIDOR N214, LOBBY 200			0.5	0.5			-	-	-	4
5	20	1	LTS. - CORRIDOR N314, LOBBY 300					0.5	0.5	-	-	-	6
7	20	1	LTS. - ATTIC	0.2	0.0					SPARE	20	1	8
9	20	1	LTS. - EXTERIOR			0.5	0.0			SPARE	20	1	10
11	20	1	SPARE					0.0	0.0	SPARE	20	1	12
13	20	1	SPARE	0.0	0.0					SPARE	20	1	14
15	20	1	SPARE			0.0	0.0			SPARE	20	1	16
17	20	1	SPARE					0.0	0.0	SPARE	20	1	18
19	20	1	SPARE	0.0	1.9					PANEL "HLSB"	60	3	20
21	20	1	SPARE			0.0	1.7			-	-	-	22
23	20	1	SPARE					0.0	1.7	SPARE	20	1	24
25	30	3	SPD TYPE 2A	0.0	1.7					TRANSFORMER "TLSA" (PANEL "LLSA")	25	3	26
27	-	-	-			0.0	2.0			-	-	-	28
29	-	-	-					0.0	2.0	-	-	-	30
TOTAL			**** ARC FAULT BREAKER**	4.8		5.2		4.7		*** GFCI BREAKER**			

PANEL	LOCATION:	EMERGENCY ELECTRICAL ROOM N117	LUG LOCATION:	BOTTOM FEED
LLSA	VOLT:	**208Y/120V, 3Ø, 4W**	MAIN BUS:	**60A MAIN BREAKER**
	BUS:	**100A**	MOUNTING:	**SURFACE**

PANELBOARD AIC RATING (A): **10,000**

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	REC. - AIR COMPRESSOR	0.2	0.5					CODE BLUE	20	1	2
3	20	1	FACP			0.5	0.5			FIRE SMOKE DAMPER	20	1	4
5	20	1	VEP					0.5	0.5	FIRE SMOKE DAMPER	20	1	6
7	20	1	SPARE	0.0	0.5					FIRE SMOKE DAMPER	20	1	8
9	20	1	ACCESS CONTROL POWER SUPPLY			0.5	0.0			SPARE	20	1	10
11	20	1	ACCESS CONTROL POWER SUPPLY					0.5	0.0	SPARE	20	1	12
13	20	1	ACCESS CONTROL POWER SUPPLY	0.5	0.0					SPARE	20	1	14
15	20	1	ACP			0.5	0.0			SPARE	20	1	16
17	20	1	ACCESS CONTROL POWER SUPPLY					0.5	0.0	SPARE	20	1	18
19	20	1	SPARE	0.0	0.0					SPARE	20	1	20
21	20	1	SPARE			0.0	0.0			SPARE	20	1	22
23	20	1	SPARE					0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0					SPARE	20	1	26
27	20	1	SPARE			0.0	0.0			SPARE	20	1	28
29	20	1	SPARE					0.0	0.0	SPARE	20	1	30
TOTAL			**** ARC FAULT BREAKER**	1.7		2.0		2.0		*** GFCI BREAKER**			

2 FIRE SMOKE DAMPER

PANEL	LOCATION:	MECH / ELEC ROOM S116	LUG LOCATION:	BOTTOM FEED
HLSB	VOLT:	**480Y/277V, 3Ø, 4W**	MAIN BUS:	**MAIN LUGS ONLY**
	BUS:	**60A**	MOUNTING:	**SURFACE**

PANELBOARD AIC RATING (A): **25,000**

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - CORRIDOR S114, FOYER S115	0.2	0.0					SPARE	20	1	2
3	20	1	LTS. - CORRIDOR S214			0.2	0.0			SPARE	20	1	4
5	20	1	LTS. - CORRIDOR S314					0.2	0.0	SPARE	20	1	6
7	20	1	LTS. - ATTIC	0.2	0.0					SPARE	20	1	8
9	20	1	LTS. - EXTERIOR			0.5	0.0			SPARE	20	1	10
11	20	1	SPARE					0.0	0.0	SPARE	20	1	12
13	20	1	SPARE	0.0	0.0					SPARE	20	1	14
15	20	1	SPARE			0.0	0.0			SPARE	20	1	16
17	20	1	SPARE					0.0	0.0	SPARE	20	1	18
19	20	1	SPARE	0.0	0.0					SPARE	20	1	20
21	20	1	SPARE			0.0	0.0			SPARE	20	1	22
23	20	1	SPARE					0.0	0.0	SPARE	20	1	24
25	30	3	SPD TYPE 2A	0.0	1.5					TRANSFORMER "TLSB" (PANEL "LLSB")	25	3	26
27	-	-	-			0.0	1.0			-	-	-	28
29	-	-	-					0.0	1.5	-	-	-	30
TOTAL			**** ARC FAULT BREAKER**	1.9		1.7		1.7		*** GFCI BREAKER**			

PANEL	LOCATION:	MECH / ELEC ROOM S116	LUG LOCATION:	BOTTOM FEED
LLSB	VOLT:	**208Y/120V, 3Ø, 4W**	MAIN BUS:	**60A MAIN BREAKER**
	BUS:	**100A**	MOUNTING:	**SURFACE**

PANELBOARD AIC RATING (A): **10,000**

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	SPARE	0.0	0.5					CODE BLUE	20	1	2
3	20	1	ACCESS CONTROL POWER SUPPLY			0.5	0.5			FIRE SMOKE DAMPER	20	1	4
5	20	1	ACCESS CONTROL POWER SUPPLY					0.5	0.5	FIRE SMOKE DAMPER	20	1	6
7	20	1	ACCESS CONTROL POWER SUPPLY	0.5	0.5					FIRE SMOKE DAMPER	20	1	8
9	20	1	SPARE			0.0	0.0			SPARE	20	1	10
11	20	1	ACCESS CONTROL POWER SUPPLY					0.5	0.0	SPARE	20	1	12
13	20	1	SPARE	0.0	0.0					SPARE	20	1	14
15	20	1	SPARE			0.0	0.0			SPARE	20	1	16
17	20	1	SPARE					0.0	0.0	SPARE	20	1	18
19	20	1	SPARE	0.0	0.0					SPARE	20	1	20
21	20	1	SPARE			0.0	0.0			SPARE	20	1	22
23	20	1	SPARE					0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0					SPARE	20	1	26
27	20	1	SPARE			0.0	0.0			SPARE	20	1	28
29	20	1	SPARE					0.0	0.0	SPARE	20	1	30
TOTAL			**** ARC FAULT BREAKER**	1.5		1.0		1.5		*** GFCI BREAKER**			

2 FIRE SMOKE DAMPER

PANEL	LOCATION:	ELECTRICAL ROOM N118	LUG LOCATION:	BOTTOM FEED
HEQA	VOLT:	**480Y/277V, 3Ø, 4W**	MAIN BUS:	**MAIN LUGS ONLY**
	BUS:	**100A**	MOUNTING:	**SURFACE**

PANELBOARD AIC RATING (A): **35,000**

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	**30	3	ELEVATOR	4.9	4.9					ELEVATOR	**30	3	2
3	-	-	-			4.9	4.9			-	-	-	4
5	-	-	-					4.9	4.9	-	-	-	6
7			SHUNT TRIP COIL	0.0	0.0					SHUNT TRIP COIL			8
9	20	1	SPARE			0.0	0.0			SPARE	20	1	10
11	20	1	SPARE					0.0	0.0	SPARE	20	1	12
13	20	1	SPARE	0.0	0.0					SPARE	20	1	14
15	20	1	SPARE			0.0	0.0			SPARE	20	1	16
17	20	1	SPARE					0.0	0.0	SPARE	20	1	18
19	20	1	SPARE	0.0	0.0					SPARE	20	1	20
21	20	1	SPARE			0.0	0.0			SPARE	20	1	22
23	20	1	SPARE					0.0	0.0	SPARE	20	1	24
25	30	3	SPD TYPE 2A	0.0	4.6					TRANSFORMER "TEQA" (PANEL "LEQA")	25	3	26
27	-	-	-			0.0	5.2			-	-	-	28
29	-	-	-					0.0	4.0	-	-	-	30
TOTAL			**** WITH AUXILIARY CONTACTS**	14.5		15.1		13.9		*** GFCI BREAKER**			

PANEL	LOCATION:	ELECTRICAL ROOM N118	LUG LOCATION:	BOTTOM FEED
LEQA	VOLT:	**208Y/120V, 3Ø, 4W**	MAIN BUS:	**60A MAIN BREAKER**
	BUS:	**100A**	MOUNTING:	**SURFACE**

PANELBOARD AIC RATING (A): **10,000**

| CIRCUIT NO. | BREAKER AMPS | BREAKER POLES | DESCRIPTION | PH

PANEL	LOCATION: ELECTRICAL ROOM 119B	LUG LOCATION: BOTTOM FEED	UL LISTED FOR SERVICE ENTRANCE
DDP	VOLT: 480Y/277V, 3Ø, 4W	MAIN BUS: 1200A MAIN BREAKER	
	BUS: 1200A	MOUNTING: SURFACE	PANELBOARD AIC RATING (A): 35,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE A	PHASE B	PHASE C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	50	3	RTU-1	8.9	8.9		RTU-4	50	3	2
3	-	-	-		8.9	8.9	-	-	-	4
5	-	-	-			8.9	8.9	-	-	6
7	50	3	RTU-2	8.9	12.2		RTU-5	70	3	8
9	-	-	-		8.9	12.2	-	-	-	10
11	-	-	-			8.9	12.2	-	-	12
13	50	3	RTU-3	8.9	14.4		RTU-6	90	3	14
15	-	-	-		8.9	14.4	-	-	-	16
17	-	-	-			8.9	14.4	-	-	18
19	100	3	ITEM #1K152 - RACK CONVEYOR DISH MACHINE	22.0	15.2		DCA-1	90	3	20
21	-	-	-		22.0	15.2	-	-	-	22
23	-	-	-			22.0	15.2	-	-	24
25	25	3	TRASH COMPACTOR	3.9	35.8		TRANSFORMER "TKP2" (PANEL "KP2")	175	3	26
27	-	-	-		3.9	46.8	-	-	-	28
29	-	-	-			3.9	31.5	-	-	30
31	60	3	SPD TYPE 1	0.0	2.3		PANEL "HLSC"	70	3	32
33	-	0	-		0.0	2.0	-	-	-	34
35	-	0	-			0.0	1.0	-	-	36
37	175	3	TRANSFORMER "TKP" (PANEL "KP")	46.3	46.5		PANEL "HD"	225	3	38
39	-	-	-		48.9	47.0	-	-	-	40
41	-	-	-			47.7	44.8	-	-	42
43	100	3	SPARE	0.0	0.0		SPARE	100	3	44
45	-	-	-		0.0	0.0	-	-	-	46
47	-	-	-			0.0	0.0	-	-	48
49	225	3	SPARE	0.0	0.0		SPARE	400	3	50
51	-	-	-		0.0	0.0	-	-	-	52
53	-	-	-			0.0	0.0	-	-	54
TOTAL				234.0	247.9	228.1				

PANEL	LOCATION: ELECTRICAL ROOM 119B	LUG LOCATION: BOTTOM FEED	
HD	VOLT: 480Y/277V, 3Ø, 4W	MAIN BUS: MAIN LUGS ONLY	
	BUS: 225A	MOUNTING: SURFACE	PANELBOARD AIC RATING (A): 35,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE A	PHASE B	PHASE C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - DINNING 107, SERING 109A	2.5	7.1		MAU-1	35	3	2
3	20	3	MAU-4		1.0	7.1	-	-	-	4
5	20	3	MAU-4			3.8	7.1	-	-	6
7	-	-	-	3.8	0.0		SHUNT TRIP			8
9	-	-	-		3.8	1.2	LTS. - SERVING 109B, 109C, 109D, KITCHEN 110	20	1	10
11			SHUNT TRIP			0.0	7.1	MAU-2	35	3	12
13	15	3	MAU-5	2.1	7.1		-	-	-	14
15	-	-	-		2.1	7.1	-	-	-	16
17	-	-	-			2.1	0.0	SHUNT TRIP			18
19			SHUNT TRIP	0.0	2.1		MAU-3	15	3	20
21	15	3	KEF-1A		1.2	2.1	-	-	-	22
23	-	-	-			1.2	2.1	-	-	24
25	-	-	-	1.2	0.0		SHUNT TRIP			26
27	15	3	KEF-1B		1.2	1.2	KEF-3	15	3	28
29	-	-	-			1.2	1.2	-	-	30
31	-	-	-	1.2	1.2		-	-	-	32
33	15	3	KEF-2A		0.7	1.9	KEF-4	15	3	34
35	-	-	-			0.7	1.9	-	-	36
37	-	-	-	0.7	1.9		-	-	-	38
39	15	3	KEF-2B		0.7	0.7	KEF-5	30	3	40
41	-	-	-			0.7	0.7	-	-	42
43	-	-	-	0.7	0.0		-	-	-	44
45	30	3	ITEM #2A110 - GRIDDLE, INDUCTION HEAT		4.1	4.8	ITEM #1K126 - TILT SKILLET	30	3	46
47	-	-	-			4.1	4.8	-	-	48
49	-	-	-	4.1	4.8		-	-	-	50
51			SHUNT TRIP		0.0	0.0	SHUNT TRIP			52
53	20	3	ITEM #2A112 - WOK, INDUCTION HEAT			2.0	4.1	ITEM #2A111 - COOKTOP, INDUCTION HEAT	20	3	54
55	-	-	-	2.0	4.1		-	-	-	56
57	-	-	-		2.0	4.1	-	-	-	58
59			SHUNT TRIP			0.0	0.0	SHUNT TRIP			60
61	30	3	SPARE	0.0	0.0		SPARE	35	3	62
63	-	-	-		0.0	0.0	-	-	-	64
65	-	-	-			0.0	0.0	-	-	66
67	30	3	SPD TYPE 2A	0.0	0.0		SPARE	20	3	68
69	-	-	-		0.0	0.0	-	-	-	70
71	-	-	-			0.0	0.0	-	-	72
TOTAL				46.5	47.0	44.8				

PANEL	LOCATION: MECHANICAL ROOM 117	LUG LOCATION: BOTTOM FEED	
KP - SEC. 1	VOLT: 208Y/120V, 3Ø, 4W	MAIN BUS: 400A MAIN BREAKER W/FEED THR	
	BUS: 400A	MOUNTING: SURFACE	PANELBOARD AIC RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE A	PHASE B	PHASE C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	*20	1	ITEM#2A101 - REFRIGERATOR, UNDERCOUNTER	0.2	0.9		REC. - OFFICE 113, MECH 117, ELEC 118	20	1	2
3	*20	1	ITEM #2A102 - HEATED HOLDING CABINET		1.4	0.7	REC. - CORR 112, STAFF 115, 116	20	1	4
5	*20	1	ITEM#2A103 - SANDWHICH PREP REFRIGERATOR			0.2	0.7	REC. - DINING 107	20	1	6
7	*20	1	ITEM#2A104 - REFRIGERATOR, UNDERCOUNTER	0.2	1.3		REC. - DINING 107	20	1	8
9	20	1	ITEM #2A105.1 - LED, LIGHTS		0.1	0.1	ITEM #1K115 - DIGITAL SCALE	*20	1	10
11	20	1	ITEM#2A107 - LIQUTEC REFRIGERATED COLD PLAN			0.3	0.8	ITEM #4B100 - REFRIGERATOR, REACH-IN	*20	1	12
13			SHUNT TRIP	0.0	1.0		ITEM #4B101 - REGRIGERATOR, ROLL-IN	*20	1	14
15	20	1	REC. - DINING 107		1.1	2.8	ITEM #4B103 - OVEN, CONVEYOR	50	3	16
17	20	1	REC. - DINING 107			1.1	2.8	-	-	-	18
19	20	1	ITEM #2A114.1 - LED, LIGHTS	0.1	2.8		-	-	-	20
21	30	1	ITEM #2A115 - DROP-IN, HOT/COLD WELLS		2.5	0.2	ITEM #4B104 - GAS-FIRED OVEN, NEOPOLITAN	*20	1	22
23	*20	1	ITEM#2A116.1 - ELECTRONIC FAUCET W/ HY DRO-GEN			1.8	0.5	ITEM #4B106 - PIZZA PREP TABLE	*20	1	24
25	*20	1	ITEM #2A117 - CHIEF BASE REFRIGERATOR	0.2	0.1		ITEM #4B120.1 - LED, LIGHTS	20	1	26
27	20	1	REC. - DINING 107		0.7	2.0	ITEM #1K118a - HOLDING CABINET, HEATING	*20	1	28
29	20	1	REC. - LOUNGE 101, LOBBY 101			1.1	2.0	ITEM #1K118b - HOLDING CABINET, HEATING	*20	1	30
31	*20	1	REC. - DRINKING FOUNTAIN	0.5	0.8		ITEM #1K119 - REFRIGERATOR, REACH-IN	*20	1	32
33	*20	1	ITEM #2A500 - POS PRINTER		0.2	1.4	ITEM # 1K120 - MODULAR CRESCENT CUBER	20	2	34
35	*20	1	ITEM #2A501 - KDS SCREEN			0.2	1.4	-	-	-	36
37	*20	1	ITEM#1K104.1 - ELECTRONIC FAUCET W/ HY DRO-GEN	1.8	0.2		ITEM #4B109 - REFRIGERATOR, WORKTOP	*20	1	38
39	*20	1	ITEM #2A800a - DIGITAL MENU BOARD		0.2	0.0	SHUNT TRIP			40
41	*20	1	ITEM #2A800b - DIGITAL MENU BOARD			0.2	3.0	ITEM #4B111 - DROPIN, HOT/COLD WELLS	35	1	42
43	20	1	REC. - DRINKING FOUNTAIN	0.5	0.9		ITEM #4B114 - HEATED SHELF BUILT-IN	20	1	44
45	30	2	ITEM #1K110 - 40 QUART MIXER		2.5	0.1	ITEM #4B115.1 - LED, LIGHTS	20	1	46
47	-	-	-			2.5	0.2	ITEM #4B116 - REFRIGERATOR, UNDERCOUNTER	*20	1	48
49	*20	1	ITEM #1K111.1 - ELECTRO FAUCET W/ HYDRO-GEN	1.8	0.1		ITEM #4B117.1 - LED, LIGHTS	20	1	50
51	20	1	SPARE		0.0	1.8	ITEM#4B119.1 - ELECTRONIC FAUCET W/ HY DRO-GEN	*20	1	52
53	*20	1	ITEM #1K112.2a THRU #1K112.2f			1.1	1.8	ITEM#1K126.1 - ELECTRONIC FAUCET W/ HY DRO-GEN	*20	1	54
TOTAL				13.4	17.8	21.6	* GFCI BREAKER			

PANEL	LOCATION: MECHANICAL ROOM 117	LUG LOCATION: TOP FEED	
KP - SEC. 2	VOLT: 208Y/120V, 3Ø, 4W	MAIN: MAIN LUGS ONLY	
	BUS: 400A	MOUNTING: SURFACE	PANELBOARD AIC RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE A	PHASE B	PHASE C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
55	*20	1	ITEM #1K112.2g THRU #1K112.2m	1.1	1.3		ITEM #1K129 - FREEZER, REACH-IN	*20	1	56
57	20	1	REC. - WOMEN 102		0.0	1.4	ITEM #1K130a - HEATED HOLDING CABINET	*20	1	58
59	20	1	REC - MEN 103			0.0	1.4	ITEM #1K130b - HEATED HOLDING CABINET	*20	1	60
61	20	1	SIGN	0.5	0.8		ITEM #1K131 - REFRIGERATOR, REACH-IN	*20	1	62
63	20	1	REC. - ELECTRICAL 118		0.4	0.8	ITEM #1K132 - REFRIGERATOR, REACH-IN	*20	1	64
65	20	1	EF-1			0.5	0.2	PG-1	20	1	66
67	20	1	EF-2	0.5	2.5		EUH-2	30	2	68
69	20	1	SPARE		0.0	2.5	-	-	-	70
71	20	1	SPARE			0.0	0.0	SPARE	-	-	72
73	20	1	SPARE	0.0	0.0		SPARE	20	1	74
75	*20	1	ITEM #1K600a THRU #1K600e		0.9	0.0	SPARE	20	1	76
77	*20	1	ITEM #1K600f THRU #1K600h			0.5	0.0	SPARE	20	1	78
79	*20	1	ITEM #4B500 - KDS SCREEN	1.8	0.0		SPARE	20	1	80
81	*20	1	ITEM #4B501 - POS PRINTER		0.6	0.0	SPARE	20	1	82
83	*20	1	ITEM #4B900 - DUPLEX CONVENIENCE RECEPTACLE			0.2	0.0	SPARE	20	1	84
85	*20	1	ITEM #4B800a - DIGITAL MENU BOARD	0.2	0.0		SPARE	20	1	86
87	*20	1	ITEM #4B800b - DIGITAL MENU BOARD		0.2	0.3	ITEM #1K155 - SOILED DISH TABLE	15	2	88
89	20	1	SPARE			0.0	0.3	-	-	-	90
91	20	1	SPARE	0.0	2.4		ITEM #1K156 - POT WASH	30	3	92
93	20	1	SPARE		0.0	2.4	-	-	-	94
95	20	1	SPARE			0.0	2.4	-	-	-	96
97	30	2	DSO-5, DSI-5	1.3	1.8		ITEM #1K157.1 - ELECTRONIC FAUCET W/ HY DRO-GEN	*20	1	98
99	-	-	-		1.3	0.0	SPARE	20	1	100
101	150	3	UDS BY OTHERS			18.7	0.0	SPARE	20	1	102
103	-	-	-	18.7	0.0		SPARE	20	1	104
105	-	-	-		18.7	1.7	DEF-1	25	1	106
107			SHUNT			0.0	1.8	ITEM #2A301.1 - WALL MOUNTED CONTROL CABINET	20	1	108
TOTAL				32.8	31.2	26.1	* GFCI BREAKER			

PANEL	LOCATION: ELECTRICAL ROOM 119B	LUG LOCATION: BOTTOM FEED	
KP2 - SEC. 1	VOLT: 208Y/120V, 3Ø, 4W	MAIN BUS: 400A MAIN BREAKER W/FEED THR	
	BUS: 400A	MOUNTING: SURFACE	PANELBOARD AIC RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE A	PHASE B	PHASE C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	ITEM #9H101 - ICE MACHINE	0.5	0.2		ITEM #5C501 - KDS SCREEN	*20	1	2
3	20	1	ITEM #9H102 - ICE MACHINE		0.5	0.5	ITEM #5C800a THRU 5C800c - DUPLEX:REC	*20	1	4
5	20	1	ITEM#5C301.1 - WALL MOUNTED CONTROL CABINET			0.2	0.2	ITEM #5C800a - DIGITAL MENU BOARD	*20	1	6
7	20	1	SPARE	0.0	0.2		ITEM #5C800b - DIGITAL MENU BOARD	*20	1	8
9	20	1	ITEM #5C102a - HIGH EFFICIENCY FRYER		1.1	0.4	ITEM #8M100a - REFRIGERATOR, MERCHANDISER	*20	1	10
11			SHUNT TRIP			0.0	0.4	ITEM #8M100b - REFRIGERATOR, MERCHANDISER	*20	1	12
13	20	1	ITEM #5C102b - HIGH EFFICIENCY FRYER	1.1	0.4		ITEM #8M100c - REFRIGERATOR, MERCHANDISER	*20	1	14
15			SHUNT TRIP		0.0	0.4	ITEM #8M100d - REFRIGERATOR, MERCHANDISER	*20	1	16
17	20	1	ITEM #5C102c - HIGH EFFICIENCY FRYER			1.1	0.4	ITEM #8M100e - REFRIGERATOR, MERCHANDISER	*20	1	18
19			SHUNT TRIP	0.0	1.7		ITEM #9H008a - STARBUCK, SERENADE SINGLE-CUP	*20	1	20
21	20	1	ITEM #5C102.1 - FRYER, SPREADER CABINET		0.8	1.7	ITEM #9H008b - STARBUCK SERENADE SINGLE-CUP	*20	1	22
23			SHUNT TRIP			0.0	0.0	SPARE	20	1	24
25	*20	1	ITEM #5C103 - FREEZER, WORKTOP	0.8	1.8		ITEM #9H500a - SELF ORDER KIOSK	20	1	26
27	35	2	ITEM #5C105 - PANINI PRESS		2.5	1.8	ITEM #9H500b - SELF ORDER KIOSK	20	1	28
29	-	-	-			2.5	0.2	ITEM #9H500c - SELF ORDER KIOSK	20	1	30
31	*25	1	ITEM #5C106a - CABINET, HOLDING	2.0	0.2		ITEM #9H500d - SELF ORDER KIOSK	20	1	32
33	*25	1	ITEM #5C106b - CABINET, HOLDING		2.0	0.2	ITEM #9H600 - DUPLEX CONVENIENCE RECEPTACLE	*20	1	34
35	20	1	ITEM #5C108.1 - LED, LIGHTS			0.1	0.2	ITEM #9H800a - DIGITAL MENU BOARD	*20	1	36
37	*20	1	ITEM#5C109 - SANDWHICH PREP REFRIGERATOR	0.2	0.2		ITEM #9H800b - DIGITAL MENU BOARD	*20	1	38
39	*30	1	ITEM #5C110 - DROP-IN, HOT/COLD WELLS		3.0	0.2	ITEM#7R100 - SANDWHICH PREP REFRIGERATOR	*20	1	40
41	20	1	ITEM #5C111.1 - LED, LIGHTS			0.1	0.2	ITEM#7R101 - REFRIGERATOR, UNDERCOUNTER	*20	1	42
43	*20	1	ITEM#5C112 - REFRIGERATOR, UNDERCOUNTER	0.2	0.1		ITEM #7R102.1 - LED, LIGHTS	*20	1	44
45	*20	1	ITEM#5C113.1 - ELECTRONIC FAUCET W/ HY DRO-GEN		1.8	2.5	ITEM #7R106 - DROP-IN, HOT/COLD WELLS	30	1	46
47	20	3	ITEM #10F302 - COMBINATION FREEZER			1.5	1.4	ITEM #7R107 - CABINET, HOLDING	*20	1	48
49	-	-	-	1.5	0.2		ITEM#7R108 - REFRIGERATOR, UNDERCOUNTER	*20	1	50
51	-	-	-		1.5	3.0	ITEM #7R109 - HIGH SPEED OVEN	30	2	52
53	*20	1	ITEM #5C500 - POS PRINTER			0.2	3.0	-	-	-	54
TOTAL				11.4	24.0	11.8	* GFCI BREAKER			

PANEL	LOCATION: ELECTRICAL ROOM 119B	LUG LOCATION: TOP FEED	
KP2 - SEC. 2	VOLT: 208Y/120V, 3Ø, 4W	MAIN: MAIN LUGS ONLY W/FEED THRU LUGS	
	BUS: 400A	MOUNTING: SURFACE	PANELBOARD AIC RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE A	PHASE B	PHASE C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
55	40	2	ITEM #3S101 - HIGH SPEED OVEN	3.0	1.9		ITEM #7R110 - COMBI. OVEN ELECTRIC	20	3	56
57	-	-	-		3.0	1.9	-	-	-	58
59	40	2	ITEM #3S102 - PANINI PRESS			2.5	1.9	-	-	60
61	-	-	-	2.5	0.2		ITEM#7R110.1 - ULTRAVENT PLUS XS VENTLESS	*20	1	62
63	*20	1	ITEM#3S103 - REFRIGERATOR, UNDERCOUNTER		0.2	1.8	ITEM#7R111.1 - ELECTRIC FAUCET W/ HYDRO-GEN	20	1	64
65	*20	1	ITEM #3S105 - SLICER, ELECTRIC			0.5	0.2	ITEM #7R501 - KDS SCREEN	*20	1	66
67	*20	1	ITEM#3S107 - REFRIGERATOR, UNDERCOUNTER	0.2	0.2		ITEM #7R502 - POS PRINTER	*20	1	68
69	20	1	ITEM #3S108.1 - LED, LIGHTS		0.1	0.2	ITEM #7R800a - DIGITAL MENU BOARD	*20	1	70
71	*20	1	ITEM#3S109 - REFRIGERATOR, SANDWHICH PREP			0.3	0.2	ITEM #7R800b - DIGITAL MENU BOARD	*20	1	72
73	*20	1	ITEM #3S110 - REFRIGERATED SERVICE CASE	1.0	2.5		ITEM #6B100 - DROP-IN, HOT/COLD WELLS	30	1	74
75	*20	1	ITEM #3S500 - POS PRINTER		0.6	0.3	ITEM #6B102 - REFRIGERATOR, WORKTOP	*20	1	76
77	*20	1	ITEM #3S501 - KDS SCREEN			0.2	1.5	ITEM #6B105 - INDUCTION WARMER, DROP-IN	20	1	78
79	*20	1	ITEM #3S800a - DIGITAL MENU BOARD	0.2	0.1		ITEM #6B106.1 - LED, LIGHTS	*20	1	80
81	*20	1	ITEM #3S800b - DIGITAL MENU BOARD		0.2	0.2	ITEM#6B107 - REFRIGERATOR, UNDERCOUNTER	*20	1	82
83	20	1	ITEM #10F100.1 & #10F125.1 - LED, LIGHTS			0.2	1.8	ITEM #6B500 - POS PRINTER	*20	1	84
85	*20	1	ITEM #10F102 - REFRIGERATOR, REACH-IN	0.8	1.8		ITEM #6B501 - KDS SCREEN	*20	1	86
87	*20	1	ITEM#10F103 - SANDWHICH PREP REFRIGERATOR		0.2	1.8	ITEM #6B800 - DIGITAL MENU BOARD	*20	1	88
89	*20	1	ITEM #10F104 & #10F104.1			1.0	0.2	ITEM #10F120 - CHEF BASE REFRIGERATOR	*20	1	90
91	40	3	ITEM #10F106 - MULTI COOK OVEN	3.5	0.0		SHUNT TRIP			92
93	-	-	-		3.5	0.3	ITEM#10F123 - SANDWHICH PREP REFRIGERATOR	*20	1	94
95	-	-	-			3.5	1.4	ITEM #10F122 - FLIP WAFFLE MAKERS	*20	1	96
97	*20	1	ITEM #10F109.1 - ELECTRONIC FAUCET	1.8	0.2		ITEM#10F124 - REFRIGERATOR, UNDER COUNTER	*20	1	98
99	*20	1	ITEM #10F110 - FREEZER, REACH-IN		1.1	3.0	ITEM #10F127 - DROP-IN, HOT/COLD WELLS	35	1	100
101	20	1	ITEM #10F113 - BREAD AND BATTER STATION			0.8	1.9	ITEM #10F129 - REFRIGERATED CASE	*20	1	102
103			SHUNT TRIP	0.0	1.9		ITEM #10F130 - REFRIGERATED CASE	*20	1	104
105	20	1	ITEM #10F115 - GRIDDLE		0.1	1.8	ITEM #10F303.1 - WALL MOUNTED CABINET	20	1	106
107			SHUNT TRIP			0.0	1.8	ITEM #10F500 & 10F502 - POS STATION	*20	1	108
TOTAL				21.9	20.4	19.7	* GFCI BREAKER			

PANEL	LOCATION: ELECTRICAL ROOM 119B	LUG LOCATION: BOTTOM FEED	
KP2 - SEC. 3	VOLT: 208Y/120V, 3Ø, 4W	MAIN: MAIN LUGS ONLY	
	BUS: 400A	MOUNTING: SURFACE	PANELBOARD AIC RATING (A): 10,000

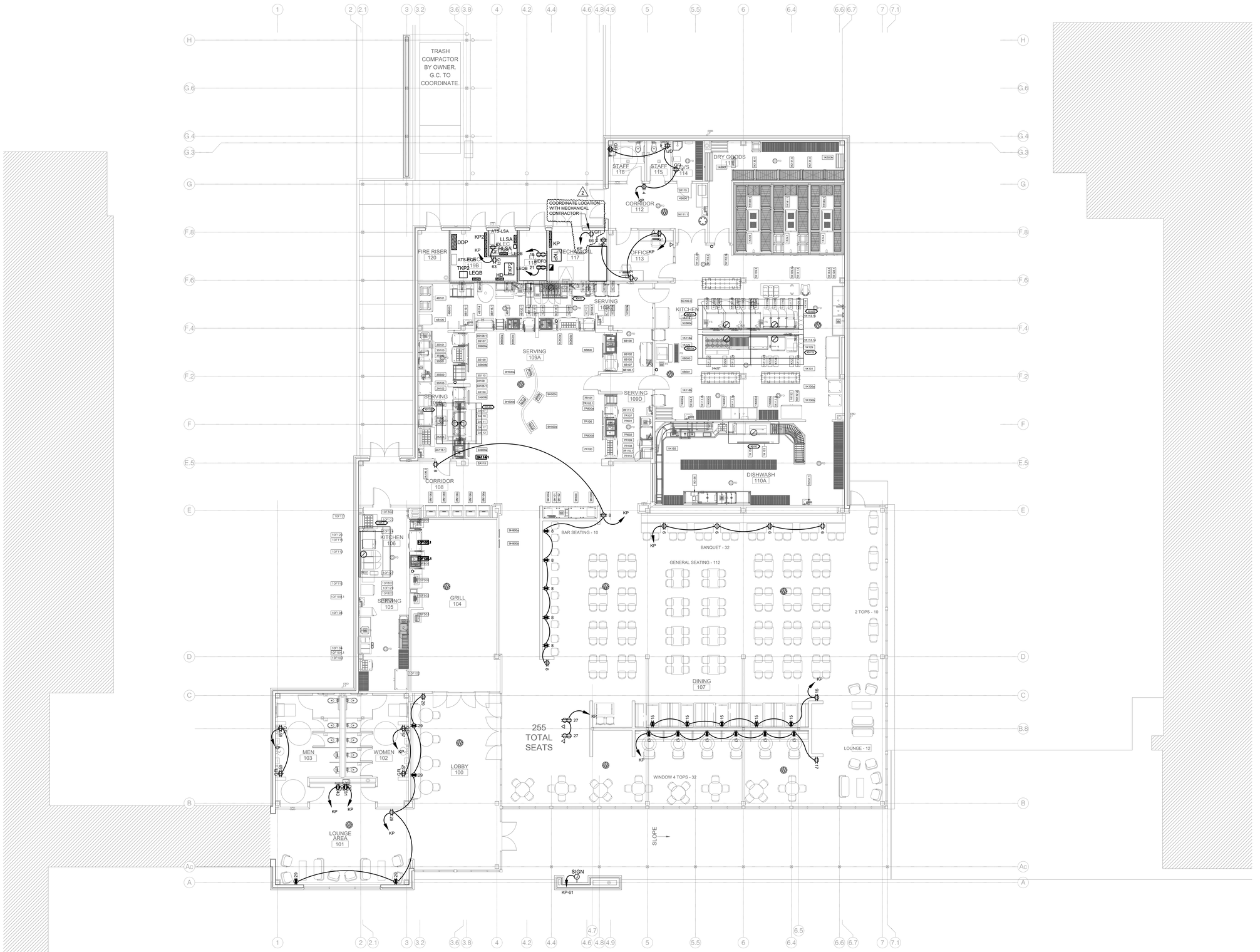
CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE A	PHASE B	PHASE C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
109	*20	1	SPARE	0.0	2.5		EUH-1	30	2	110
111	*20	1	SPARE		0.0	2.5	-	-	-	112
113	*20	1	SPARE			0.0	0.0	SPARE	20	1	114
115	*20	1	SPARE	0.0	0.0		SPARE	20	1	116
117	*20	1	SPARE		0.0	0.0	SPARE	20	1	118
119	*20	1	SPARE			0.0	0.0	SPARE	20	1	120
121	20	1	SPARE	0.0	0.0		SPARE	20	1	122
123	20	1	SPARE		0.0	0.0	SPARE	20	1	124
125	20	1	SPARE			0.0	0.0	SPARE	20	1	126
127	20	1	SPARE	0.0	0.0		SPARE	20	1	128
129	20	1	SPARE		0.0	0.0	SPARE	20	1	130
131	20	1	SPARE			0.0	0.0	SPARE	20	1	132
133	20	1	SPARE	0.0	0.0		SPARE	20	1	134
135	20	1	SPARE		0.0	0.0	SPARE	20	1	136
137	20	1	SPARE			0.0	0.0	SPARE	20	1	138
139	20	1	SPARE	0.0	0.0		SPARE	20	1	140
141	20	1	SPARE		0.0	0.0	SPARE	20	1	142
143	20	1	SPARE			0.0	0.0	SPARE	20	1	144
145	20	1	SPARE	0.0	0.0		SPARE	20	1	146
147	20	1	SPARE		0.0	0.0	SPARE	20	1	148
149	20	1	SPARE			0.0	0.0	SPARE	20	1	150
151	20	1	SPARE	0.0	0.0		SPARE	20	1	152
153	20	1	SPARE		0.0	0.0	SPARE	20	1	154
155	20	1	SPARE			0.0	0.0	SPARE	20	1	156
157	20	1	SPARE	0.0	0.0		SPARE	20	1	158
159	20	1	SPARE		0.0	0.0	SPARE	20	1	160
161	20	1	SPARE			0.0	0.0	SPARE	20	1	162
TOTAL				2.5	2.5	0.0	* GFCI BREAKER			

PANEL	LOCATION: ELECTRICAL ROOM 119A	LUG LOCATION: BOTTOM FEED	
HLSC	VOLT: 480Y/277V, 3Ø, 4W	MAIN BUS: MAIN LUGS ONLY	NEMA 3R ENCLOSURE
	BUS: 100A	MOUNTING: SURFACE	PANELBOARD AIC RATING (A): 35,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE A	PHASE B	PHASE C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - DINING 107, LOBBY 100, SERVING 109, KITCHEN 110	1.5	0.8		LTS. - EXTERIOR	20	1	2
3	20	1	SPARE		0.0	2.0	TRANSFORMER "TLSC" (PANEL "LLSC")	15	2	4
5	20	1	SPARE			0.0	1.0	-	-	6
7	20	1	SPARE	0.0	0.0		SPARE	20	1	8
9	20	1	SPARE		0.0	0.0	SPARE	20	1	10
11	20	1	SPARE			0.0	0.0	SPARE	20	1	12
13	20	1	SPARE	0.0	0.0		SPARE	20	1	14
15	20	1	SPARE		0.0	0.0	SPARE	20	1	16
17	20	1	SPARE			0.0	0.0	SPARE	20	1	18
19	20	1	SPARE	0.0	0.0		SPARE	20	1	20
21	20	1	SPARE		0.0	0.0	SPARE	20	1	22
23	20	1	SPARE			0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0		SPARE	20	1	26
27	20	1	SPARE		0.0	0.0	SPARE	20	1	28
29	20	1	SPARE			0.0	0.0	SPARE	20	1	30
TOTAL				2.3	2.0	1.0				

PANEL	LOCATION: ELECTRICAL ROOM 119A	LUG LOCATION: TOP FEED	
LLSC	VOLT: 240/120V, 1Ø, 3W	MAIN BUS: 20A MAIN BREAKER	
	BUS: 100A	MOUNTING: RECESSED	PANELBOARD AIC RATING (A): 10,000

| CIRCUIT NO. | BRE



1 E210 POWER PLAN - DINING HALL - ADD ALTERNATE #1

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

3" =1'-0" GRAPHIC SCALE
1½" =1'-0" GRAPHIC SCALE
1" =1'-0" GRAPHIC SCALE
¾" =1'-0" GRAPHIC SCALE
½" =1'-0" GRAPHIC SCALE
¼" =1'-0" GRAPHIC SCALE
⅛" =1'-0" GRAPHIC SCALE

THE COMMONS - PACKAGE A
PEARL, MS
24053

THE POWER SOURCE PLLC
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Ridgeland, MS 39157
Voice (601) 605-4820
TPS Proj. # 25024

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CHRISTOPHER L. GREEN
No. 21766
9/10/25
STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

Project No. 24053
Date: SEPTEMBER 18, 2025
Drawn: CTB
Checked: CLG
Revisions: 2 ADDENDUM #2 10/09/2025

THE COMMONS - PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY
COLLEGE (COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

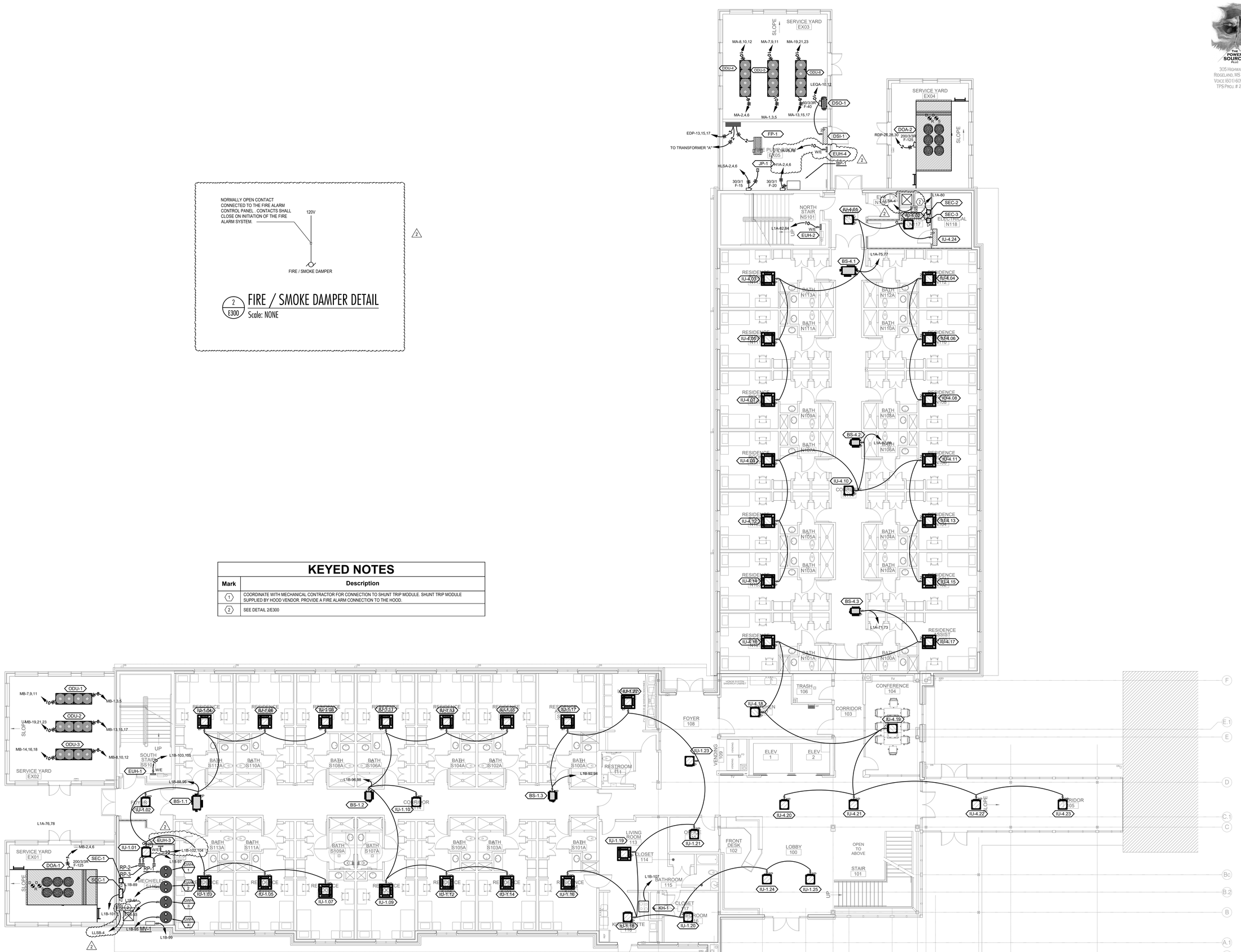
Sheet Number:
E210

2 / E300 FIRE / SMOKE DAMPER DETAIL

Scale: NONE

KEYED NOTES

Mark	Description
1	COORDINATE WITH MECHANICAL CONTRACTOR FOR CONNECTION TO SHUNT TRIP MODULE. SHUNT TRIP MODULE SUPPLIED BY HOOD VENDOR. PROVIDE A FIRE ALARM CONNECTION TO THE HOOD.
2	SEE DETAIL 2/E300



1 / E300 MECHANICAL PLAN FIRST FLOOR - RESIDENCE HALL - BASE BID

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

1" = 1'-0" GRAPHIC SCALE
3/4" = 1'-0" GRAPHIC SCALE
1/2" = 1'-0" GRAPHIC SCALE
1 1/2" = 1'-0" GRAPHIC SCALE
3" = 1'-0" GRAPHIC SCALE

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9/19/25
STATE OF MISSISSIPPI

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THE COMMONS – PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE (COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
E300

THE COMMONS – PACKAGE A
PEARL, MS
24053

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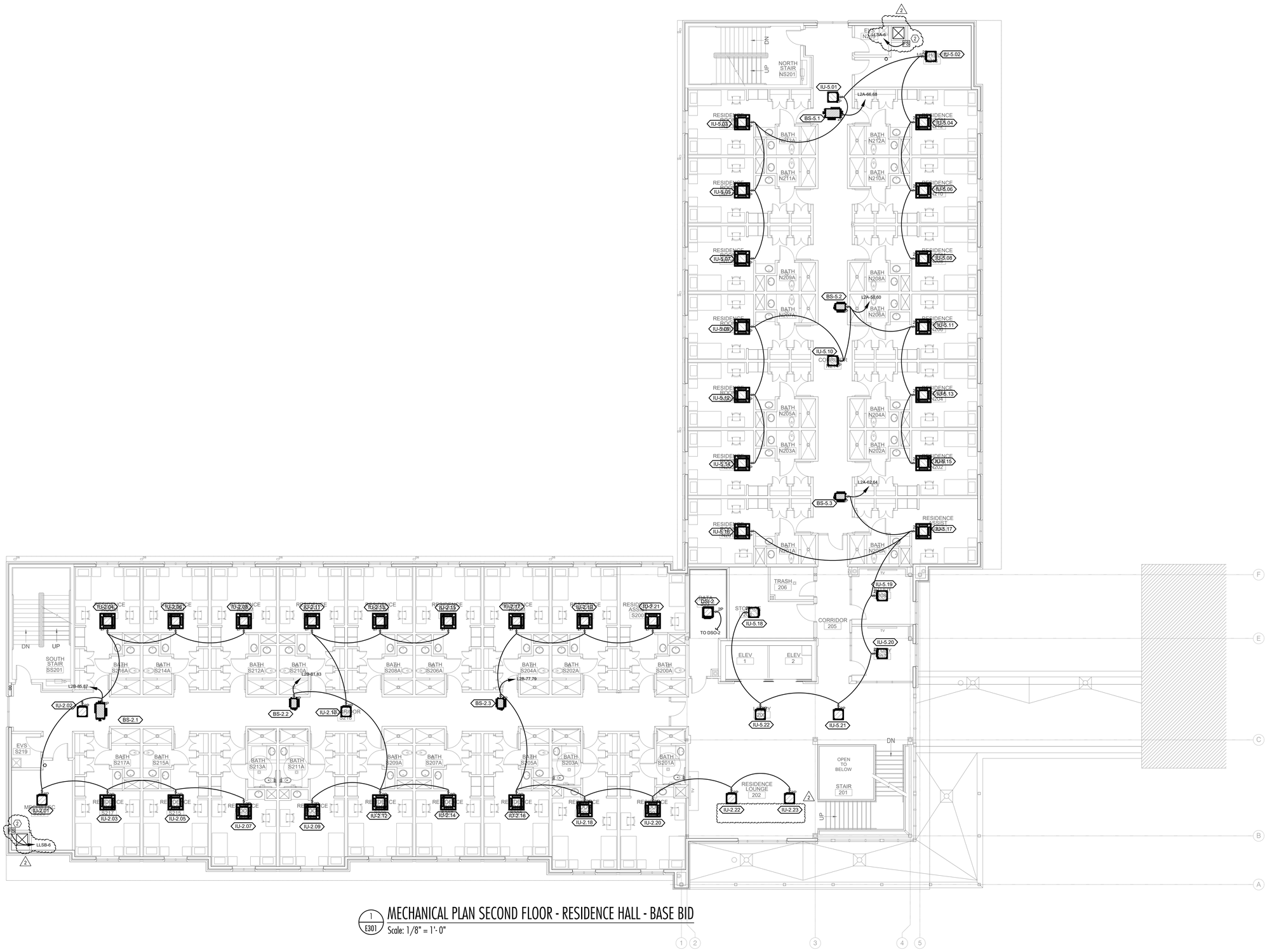
CHRISTOPHER L. GREEN
REGISTERED
ARCHITECT
9/19/2025
STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS



1 E301 MECHANICAL PLAN SECOND FLOOR - RESIDENCE HALL - BASE BID
Scale: 1/8" = 1'-0"

Project No. 24053
Date: SEPTEMBER 18, 2025
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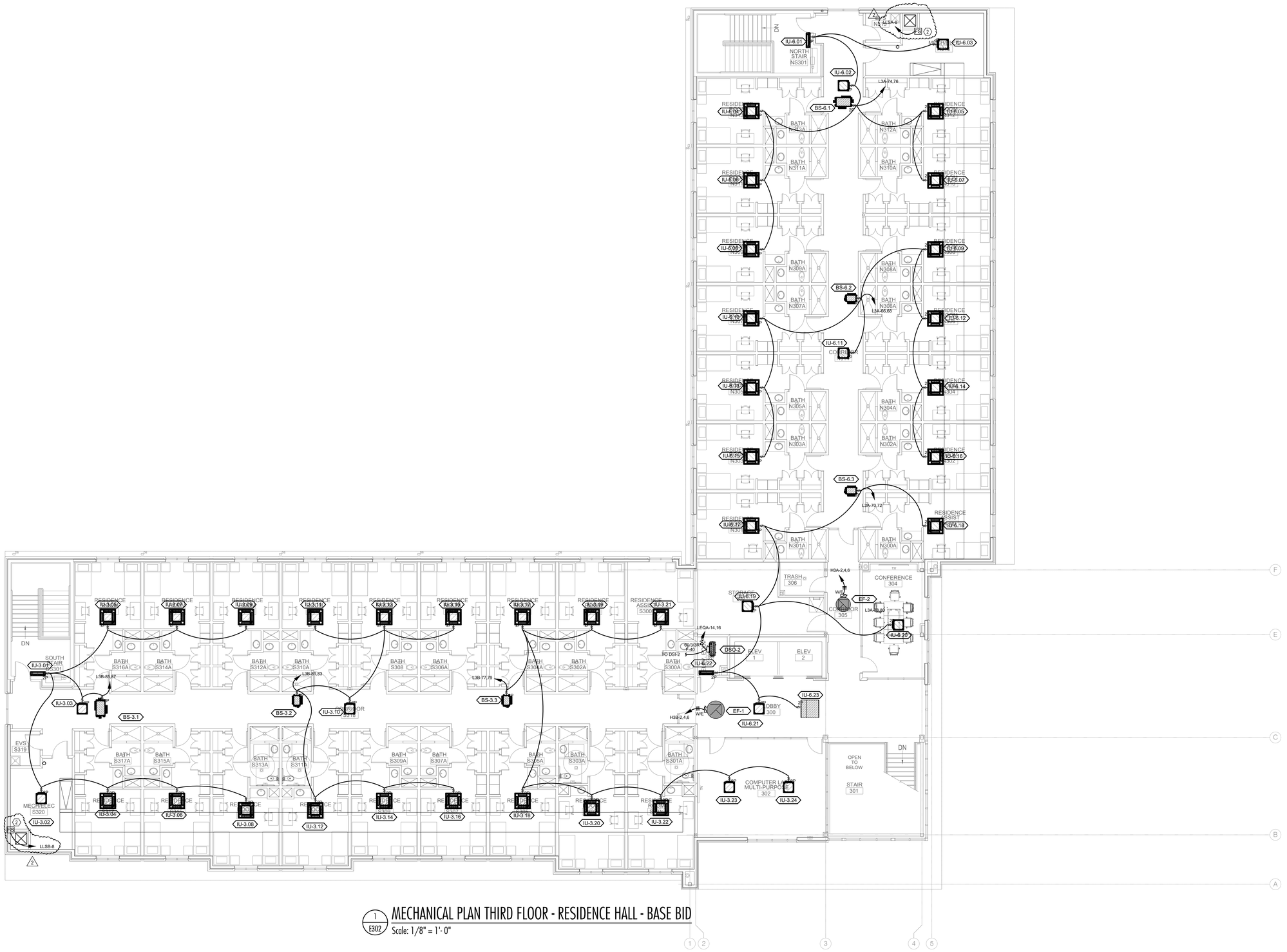
THE COMMONS – PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY
COLLEGE (COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
E301

3" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
1" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
¼" = 1'-0" GRAPHIC SCALE
⅛" = 1'-0" GRAPHIC SCALE



1 / E302 MECHANICAL PLAN THIRD FLOOR - RESIDENCE HALL - BASE BID

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

1/8" = 1'-0" GRAPHIC SCALE
1/4" = 1'-0" GRAPHIC SCALE
1/2" = 1'-0" GRAPHIC SCALE
3/4" = 1'-0" GRAPHIC SCALE
1" = 1'-0" GRAPHIC SCALE
1 1/2" = 1'-0" GRAPHIC SCALE
3" = 1'-0" GRAPHIC SCALE

THE COMMONS – PACKAGE A
PEARL, MS
24053

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CHRISTOPHER L. GREEN
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CONSTRUCTION DOCUMENTS

Project No. 24053
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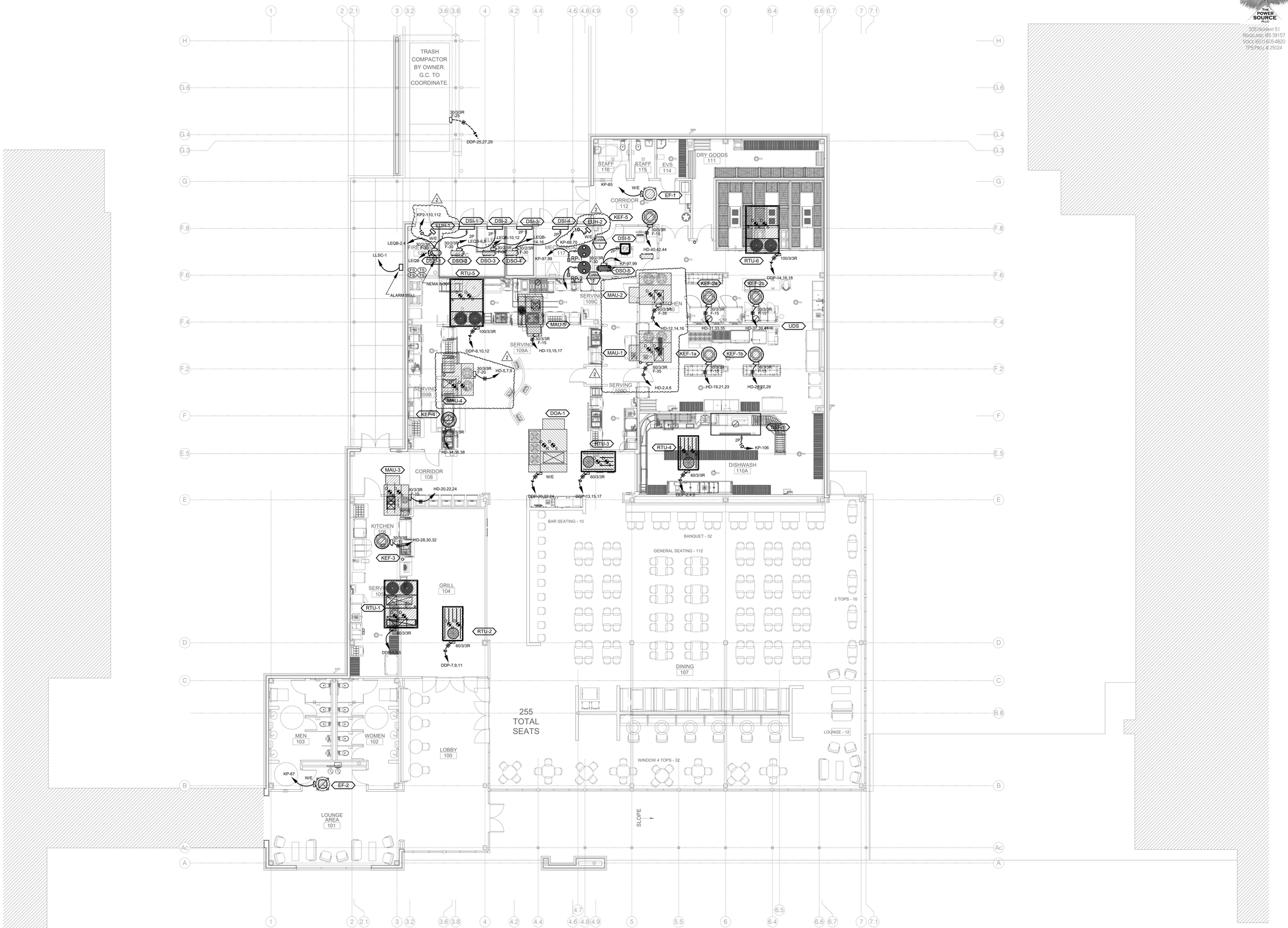
THE COMMONS – PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE (COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
E302



1 E310 MECHANICAL PLAN - DINING HALL - ADD ALTERNATE #1

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

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9/19/2025
STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

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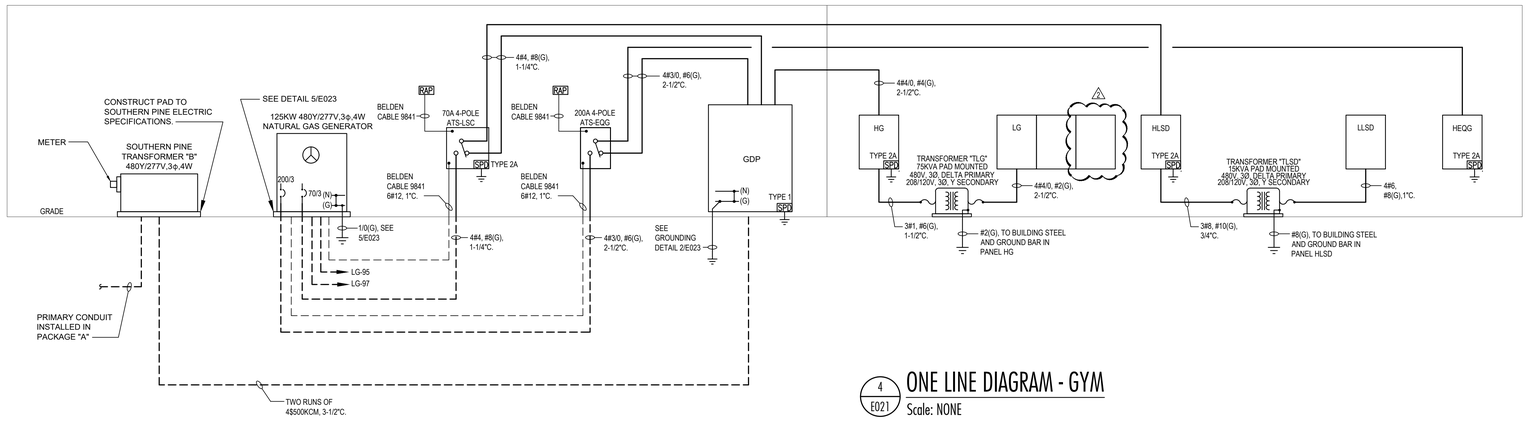
THE COMMONS – PACKAGE A
(RANKIN CAMPUS) HINDS COMMUNITY
COLLEGE (COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

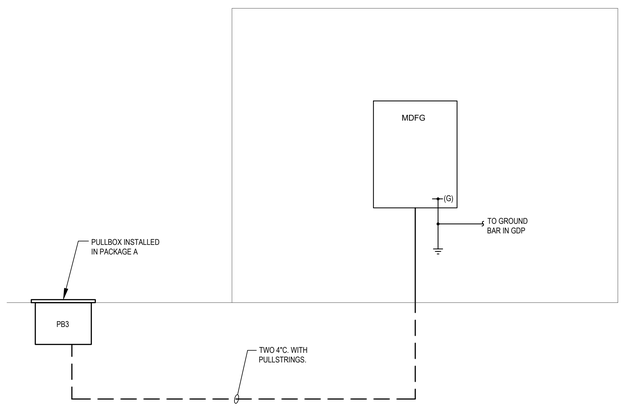
Sheet Number:
E310

1" = 1'-0" GRAPHIC SCALE
3/4" = 1'-0" GRAPHIC SCALE
1/2" = 1'-0" GRAPHIC SCALE
3/8" = 1'-0" GRAPHIC SCALE
1/4" = 1'-0" GRAPHIC SCALE
1 1/2" = 1'-0" GRAPHIC SCALE
3" = 1'-0" GRAPHIC SCALE



4 / E021 ONE LINE DIAGRAM - GYM

Scale: NONE



2 / E021 COMMUNICATIONS ONE LINE DIAGRAM

Scale: NONE

1" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
⅜" = 1'-0" GRAPHIC SCALE
⅛" = 1'-0" GRAPHIC SCALE

THE COMMONS – PACKAGE B
PEARL, MS
PEARL, MS

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TPS Proj. # 25024

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CHRISTOPHER L. GREEN — 17774 — 9/19/2025 — STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

Project No. 24053
Date: SEPTEMBER 18, 2025
Drawn: CTB
Checked: CLG
Revisions: 2 ADDENDUM #2 10/09/2025

THE COMMONS – PACKAGE B (ADD ALTERNATE #2)
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE (COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
E021

PANEL	LOCATION:	ELECTRICAL ROOM 232B	LUG LOCATION:	BOTTOM FEED	UL LISTED FOR SERVICE ENTRANCE
GDP	VOLT:	480Y/277V, 3Ø, 4W	MAIN BUS:	800A MAIN BREAKER	NEMA 3R ENCLOSURE
	BUS:	800A	MOUNTING:	SURFACE	PANELBOARD AIC RATING (A): 25,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	45	3	DOAS-1	6.8	0.0					SPARE	100	3	2
3	-	-	-			6.8	0.0			-	-	-	4
5	-	-	-					6.8	0.0	-	-	-	6
7	50	3	DOAS-2	7.8	0.0					SPARE	100	3	8
9	-	-	-			7.8	0.0			-	-	-	10
11	-	-	-					7.8	0.0	-	-	-	12
13	60	3	DOAS-3	10.9	12.2					RTU-3	70	3	14
15	-	-	-			10.9	12.2			-	-	-	16
17	-	-	-					10.9	12.2	-	-	-	18
19	70	3	SPARE	0.0	6.6					RTU-4	40	3	20
21	-	-	-			0.0	6.6			-	-	-	22
23	-	-	-					0.0	6.6	-	-	-	24
25	50	3	SPARE	0.0	6.6					RTU-5	40	3	26
27	-	-	-			0.0	6.6			-	-	-	28
29	-	-	-					0.0	6.6	-	-	-	30
31	40	3	SPARE	0.0	6.6					RTU-6	40	3	32
33	-	-	-			0.0	6.6			-	-	-	34
35	-	-	-					0.0	6.6	-	-	-	36
37	225	3	SPARE	0.0	6.6					RTU-7	40	3	38
39	-	-	-			0.0	6.6			-	-	-	40
41	-	-	-					0.0	6.6	-	-	-	42
43	200	3	PANEL "HEQG"	36.8	0.0					SPD TYPE 1	30	3	44
45	-	-	-			36.8	0.0			-	-	-	46
47	-	-	-					37.8	0.0	-	-	-	48
49	70	3	PANEL "HLSD	4.4	32.0					PANEL "HG"	225	3	50
51	-	-	-			3.1	29.4			-	-	-	52
53	-	-	-					2.1	25.4	-	-	-	54
TOTAL				137.5		133.5		129.6					

PANEL	LOCATION:	ELECTRICAL ROOM 232A	LUG LOCATION:	BOTTOM FEED
HLSD	VOLT:	480Y/277V, 3Ø, 4W	MAIN BUS:	MAIN LUGS ONLY
	BUS:	100A	MOUNTING:	SURFACE PANELBOARD AIC RATING (A): 14,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - GYMNASIUM 200	0.9	1.2					LTS. - EXTERIOR	20	1	2
3	20	1	LTS. - ELEC 232A, 232B, CORRIDOR 008, LOUNGE 210			0.8	0.0			SPARE	20	1	4
5	20	1	LTS. - CORRIDOR 006, TEAM ROOM 208, FITNESS 121					1.1	0.0	SPARE	20	1	6
7	20	1	SPARE	0.0	0.0					SPARE	20	1	8
9	20	1	SPARE			0.0	0.0			SPARE	20	1	10
11	20	1	SPARE					0.0	0.0	SPARE	20	1	12
13	20	1	SPARE	0.0	0.0					SPARE	20	1	14
15	20	1	SPARE			0.0	0.0			SPARE	20	1	16
17	20	1	SPARE					0.0	0.0	SPARE	20	1	18
19	20	1	SPARE	0.0	0.0					SPARE	20	1	20
21	20	1	SPARE			0.0	0.0			SPARE	20	1	22
23	20	1	SPARE					0.0	0.0	SPARE	20	1	24
25	30	3	SPD TYPE 2A	0.0	2.3					TRANSFORMER "TLSD" (PANEL "LLSD")	25	3	26
27	-	-	-			0.0	2.3			-	-	-	28
29	-	-	-					0.0	1.0	-	-	-	30
TOTAL			** ARC FAULT BREAKER	4.4		3.1		2.1		* GFCI BREAKER			

PANEL	LOCATION:	ELECTRICAL ROOM 232B	LUG LOCATION:	BOTTOM FEED
HG	VOLT:	480Y/277V, 3Ø, 4W	MAIN BUS:	MAIN LUGS ONLY
	BUS:	225A	MOUNTING:	SURFACE PANELBOARD AIC RATING (A): 18,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	LTS. - STORAGE 226, LOUNGE 221, CORR. 008	1.2	2.1					LTS. - GYMNASIUM 200	20	1	2
3	20	1	LTS. - LOBBY 001, CORRIDOR 006, 004			2.3	1.4			LTS. - GYMNASIUM 200	20	1	4
5	20	1	LTS. - TEAM ROOM 208, RR 206, CONCESSION 201					0.9	0.0	SPARE	20	1	6
7	20	1	LTS. - FITNESS LOBBY 100, FITNESS 121	2.2	0.0					SPARE	20	1	8
9	20	1	SPARE			0.0	0.0			SPARE	20	1	10
11	20	1	SPARE					0.0	0.0	SPARE	20	1	12
13	20	1	SPARE	0.0	0.0					SPARE	20	1	14
15	20	1	SPARE			0.0	0.0			SPARE	20	1	16
17	20	1	SPARE					0.0	0.0	SPARE	20	1	18
19	20	1	SPARE	0.0	0.0					SPARE	20	1	20
21	20	1	SPARE			0.0	0.0			SPARE	20	1	22
23	20	1	SPARE					0.0	0.0	SPARE	20	1	24
25	30	3	SPD TYPE 2A	0.0	26.5					TRANSFORMER "TLG" (PANEL "LG")	110	3	26
27	-	-	-			0.0	25.7			-	-	-	28
29	-	-	-					0.0	24.6	-	-	-	30
TOTAL			** ARC FAULT BREAKER	32.0		29.4		25.4		* GFCI BREAKER			

PANEL	LOCATION:	MECHANICAL ROOM 231	LUG LOCATION:	BOTTOM FEED
HEQG	VOLT:	480Y/277V, 3Ø, 4W	MAIN BUS:	MAIN LUGS ONLY
	BUS:	225A	MOUNTING:	SURFACE PANELBOARD AIC RATING (A): 18,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	100	3	RTU-1	18.4	18.4					RTU-2	100	3	2
3	-	-	-			18.4	18.4			-	-	-	4
5	-	-	-					18.4	18.4	-	-	-	6
7			SPACE	0.0	0.0					SPACE			8
9			SPACE			0.0	0.0			SPACE			10
11			SPACE					0.0	0.0	SPACE			12
13			SPACE	0.0	0.0					SPACE			14
15			SPACE			0.0	0.0			SPACE			16
17			SPACE					0.0	0.0	SPACE			18
19			SPACE	0.0	0.0					SPACE			20
21			SPACE			0.0	0.0			SPACE			22
23			SPACE					0.0	0.0	SPACE			24
25			SPACE	0.0	0.0					SPACE			26
27			SPACE			0.0	0.0			SPACE			28
29			SPACE					0.0	0.0	SPACE			30
TOTAL				36.8		36.8		37.8					

PANEL	LOCATION:	ELECTRICAL ROOM 232A	LUG LOCATION:	BOTTOM FEED
LLSD	VOLT:	208Y/120V, 3Ø, 4W	MAIN BUS:	60A MAIN BREAKER
	BUS:	100A	MOUNTING:	SURFACE PANELBOARD AIC RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	ACCESS CONTROL POWER SUPPLY	0.5	1.3					DSO-1 & DSI-1	25	2	2
3	20	1	ACP			0.5	1.3			-	-	-	4
5	20	1	FACP					0.5	0.5	ALARM BELL	20	1	6
7	20	1	VEP	0.5	0.0					SPARE	20	1	8
9	20	1	ACCESS CONTROL POWER SUPPLY			0.5	0.0			SPARE	20	1	10
11	20	1	SPARE					0.0	0.0	SPARE	20	1	12
13	20	1	SPARE	0.0	0.0					SPARE	20	1	14
15	20	1	SPARE			0.0	0.0			SPARE	20	1	16
17	20	1	SPARE					0.0	0.0	SPARE	20	1	18
19	20	1	SPARE	0.0	0.0					SPARE	20	1	20
21	20	1	SPARE			0.0	0.0			SPARE	20	1	22
23	20	1	SPARE					0.0	0.0	SPARE	20	1	24
25	20	1	SPARE	0.0	0.0					SPARE	20	1	26
27	20	1	SPARE			0.0	0.0			SPARE	20	1	28
29	20	1	SPARE					0.0	0.0	SPARE	20	1	30
TOTAL			** ARC FAULT BREAKER	2.3		2.3		1.0		* GFCI BREAKER			

PANEL	LOCATION:	ELECTRICAL ROOM 232B	LUG LOCATION:	BOTTOM FEED
LG - SEC. 1	VOLT:	208Y/120V, 3Ø, 4W	MAIN BUS:	225A MAIN BREAKER W/FEED THR
	BUS:	225A	MOUNTING:	SURFACE PANELBOARD AIC RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
1	20	1	REC. - WOMEN RESTROOM 204	0.7	0.9					REC. - STORAGE 233, RESTROOM 228, LOCKER 227	20	1	2
3	20	1	REC. - EVS 203, STORAGE 202			0.5	1.3			REC. - VISITORS LOCKER ROOM 227	20	1	4
5	20	1	REC. - CONCESSION 201					0.4	0.9	REC. - OFFICIAS LOUNGE 221	20	1	6
7	20	1	REC. - CONCESSION 201	0.4	2.5					REC. - DRYER	30	2	8
9	20	1	REC. - DRINKING MACHINE			1.0	2.5			-	-	-	10
11	20	1	REC. - DRINKING MACHINE					1.0	2.5	REC. - DRYER	30	2	12
13	20	1	REC. - COLD STORAGE	1.0	2.5					-	-	-	14
15	20	1	REC. - ICE MACHINE			1.0	1.0			REC. - WASHER	20	1	16
17	20	1	REC. - CONCESSION 201					0.4	1.0	REC. - WASHER	20	1	18
19	20	1	SECURITY SHUTTER	0.5	0.5					REC. - CORRIDOR 009, LAUNDRY 225	20	1	20
21	20	1	REC. - CORRIDOR 004			0.5	0.7			REC. - HCC LOCKER 217, RESTROOM 219	20	1	22
23	20	1	REC. - VENDING 005					1.0	0.5	REC. - CORRIDOR 009, CORRIDOR 006	20	1	24
25	20	1	REC. - VENDING 005	1.0	1.1					REC. - TRAINING ROOM 214	20	1	26
27	20	1	REC. - CORRIDOR 004			0.4	1.0			REC. - ICE MACHINE	20	1	28
29	20	1	REC. - INFO 002					0.7	0.7	REC. - OFFICE 212	20	1	30
31	20	1	REC. - WORKROOM 102, STAFF TLT 103	0.9	0.7					REC. - OFFICE 211	20	1	32
33	20	1	REC. - RECEPTION 101			0.7	0.9			REC. - COACH LOUNGE 210	20	1	34
35	20	1	REC. - FITNESS LOBBY 100					0.4	1.0	REC. - COFFEE MAKER	20	1	36
37	20	1	REC. - OFFICE 106, OFFICE 105	1.4	0.2					REC. - COACH LOUNGE 210	20	1	38
39	20	1	REC. - GROUP EXERCISE 108			0.9	1.4			REC. - MICROWAVE	20	1	40
41	20	1	REC. - GROUP EXERCISE 109					0.9	0.8	REC. - REFRIGERATOR	20	1	42
43	20	2	MOTORIZED PARTITION	0.8	0.5					REC. - TEAM ROOM 208	20	1	44
45	-	-	-			0.8	0.7			REC. - TEAM ROOM 208	20	1	46
47	20	1	REC. - WOMEN RESTROOM 116, RESTROOM 112					0.5	0.5	REC. - FAMILY RESTROOM 207, MENS RR 206	20	1	48
49	*20	1	REC. - DRINKING FOUNTAIN	0.5	0.4					REC. - CORRIDOR 006	20	1	50
51	*20	1	REC. - DRINKING FOUNTAIN			0.5	0.5			REC. - DRINKING FOUNTAIN	*20	1	52
53	20	1	REC. - MENS RESTROOM 119					0.7	0.5	REC. - DRINKING FOUNTAIN	*20	1	54
TOTAL				16.6		16.3		14.5		* GFCI BREAKER			

PANEL	LOCATION:	ELECTRICAL ROOM 232B	LUG LOCATION:	TOP FEED
LG - SEC. 2	VOLT:	208Y/120V, 3Ø, 4W	MAIN:	MAIN LUGS ONLY W/FEED THRU LUGS
	BUS:	225A	MOUNTING:	SURFACE PANELBOARD AIC RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
55	20	1	REC. - FITNESS 121	0.5	0.4					REC. - GYMNASIUM 200	20	1	56
57	20	1	REC. - FITNESS 121			0.4	0.4			REC. - GYMNASIUM 200	20	1	58
59	20	1	REC. - FITNESS 121					0.4	0.4	REC. - GYMNASIUM 200	20	1	60
61	20	1	REC. - FITNESS 121	0.4	0.4					REC. - GYMNASIUM 200	20	1	62
63	20	1	REC. - FITNESS 121			0.4	1.1			REC. - AV	20	1	64
65	20	1	REC. - FITNESS 121					0.4	1.1	REC. - AV	20	1	66
67	20	1	SIGN	1.0	1.0					REC. - TDBB	20	1	68
69	20	1	SIGN			1.0	1.0			REC. - TDBB	20	1	70
71	20	1	DOOR OPERATOR					0.5	1.0	SCOREBOARD	20	1	72
73	20	1	DOOR OPERATOR	0.5	1.0					SCOREBOARD	20	1	74
75	20	1	DOOR OPERATOR			0.5	0.3			BLEACHER	15	3	76
77	15	3	BLEACHERS					0.3	0.3	-	-	-	78
79	-	-	-	0.3	0.3					-	-	-	80
81	-	-	-			0.3	1.7			EUH-2	20	2	82
83	20	2	EUH-1					1.7	1.7	-	-	-	84
85	-	-	-	1.7	0.7					EF-1, EF-2	20	1	86
87	20	1	GWH-1, GWH-2			0.5	0.2			REC. - EXTERIOR	20	1	88
89	20	1	GWH-3, RP-2					0.5	0.2	REC. - IT 104	20	1	90
91	20	1	MV-1, RP-1	0.5	0.2					REC. - IT 104	20	1	92
93	20	1	REC. - AUDIO RACK			0.4	0.4			REC. - TRAINING ROOM 214	20	1	94
95	20	1	GENERATOR BLOCK HEATER					0.5	0.4	REC. - TRAINING ROOM 214	20	1	96
97	20	1	GENERATOR BATTERY CHARGER	0.5	0.5					REC. - ELECTRICAL ROOM 232	20	1	98
99	20	1	SIGN			0.5	0.5			REC. - MECHANICAL 231	20	1	100
101	20	1	SIGN					0.5	0.5	POWER FOR LOCKERS (LOCKER 217)	20	1	102
103	20	1	PG-1	0.2	0.0					POWER FOR LOCKERS (LOCKER 217)	20	1	104
105	20	1	SPARE			0.0	0.0			POWER FOR LOCKERS (LOCKER 217)	20	1	106
107	20	1	SPARE					0.0	0.0	SPARE	20	1	108
TOTAL				10.0		9.4		10.1		* GFCI BREAKER			

PANEL	LOCATION:	ELECTRICAL ROOM 232B	LUG LOCATION:	BOTTOM FEED
LG - SEC. 3	VOLT:	208Y/120V, 3Ø, 4W	MAIN:	MAIN LUGS ONLY
	BUS:	225A	MOUNTING:	SURFACE PANELBOARD AIC RATING (A): 10,000

CIRCUIT NO.	BREAKER AMPS	BREAKER POLES	DESCRIPTION	PHASE LOAD (KVA) A	A	B	B	C	C	DESCRIPTION	BREAKER AMPS	BREAKER POLES	CIRCUIT NO.
109	20	1	SPARE	0.0	0.0					SPARE	20	1	110
111	20	1	SPARE			0.0	0.0			SPARE	20	1	112
113	20	1	SPARE					0.0	0.0	SPARE	20	1	114
115	20	1	SPARE	0.0	0.0					SPARE	20	1	116
117	20	1	SPARE			0.0	0.0			SPARE	20	1	118
119	20	1	SPARE					0.0	0.0	SPARE	20	1	120
121	20	1	SPARE	0.0	0.0					SPARE	20	1	122
123	20	1	SPARE			0.0	0.0			SPARE	20	1	124
125	20	1	SPARE					0.0	0.0	SPARE	20	1	126
127	20	1	SPARE	0.0	0.0					SPARE	20	1	128
129	20	1	SPARE			0.0	0.0			SPARE	20	1	130
131	20	1	SPARE					0.0	0.0	SPARE	20	1	132
133	20	1	SPARE	0.0	0.0					SPARE	20	1	134
135	20	1	SPARE			0.0	0.0			SPARE	20	1	136
137	20	1	SPARE					0.0	0.0	SPARE	20	1	138
139	20	1	SPARE	0.0	0.0					SPARE	20	1	140
141	20	1	SPARE			0.0	0.0			SPARE	20	1	142
143	20	1	SPARE					0.0	0.0	SPARE	20	1	144
145	20	1	SPARE	0.0	0.0					SPARE	20	1	146
147	20	1	SPARE			0.0	0.0			SPARE	20	1	148
149	20	1	SPARE					0.0	0.0	SPARE	20	1	150
151	20	1	SPARE	0.0	0.0					SPARE	20	1	152
153	20	1	SPARE			0.0	0.0			SPARE	20	1	154
155	20	1	SPARE					0.0	0.0	SPARE	20	1	156
157	20	1	SPARE	0.0	0.0					SPARE	20	1	158
159	20	1	SPARE			0.0	0.0			SPARE	20	1	160
161	20	1	SPARE					0.0	0.0	SPARE	20	1	162
TOTAL				0.0		0.0		0.0		* GFCI BREAKER			

3" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
1" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
¼" = 1'-0" GRAPHIC SCALE
⅛" = 1'-0" GRAPHIC SCALE

THE COMMONS – PACKAGE B
PEARL, MS
PCCI

THE POWER SOURCE PLLC
305 Highway 51
Ridgeland, MS 39157
Voice (601) 605-4820
TPS Proj. # 25024

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601.939.7717
deandean.com

CHRISTOPHER L. GREEN — 17774 — 9/19/2025 — STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

Project No. 24053
Date: SEPTEMBER 18, 2025
Drawn: CTB
Checked: CLG
Revisions: 2 ADDENDUM #2 10/09/2025

THE COMMONS – PACKAGE B (ADD ALTERNATE #2)
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE (COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

Sheet Number:
E024

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CONSTRUCTION DOCUMENTS

Project No. 24053
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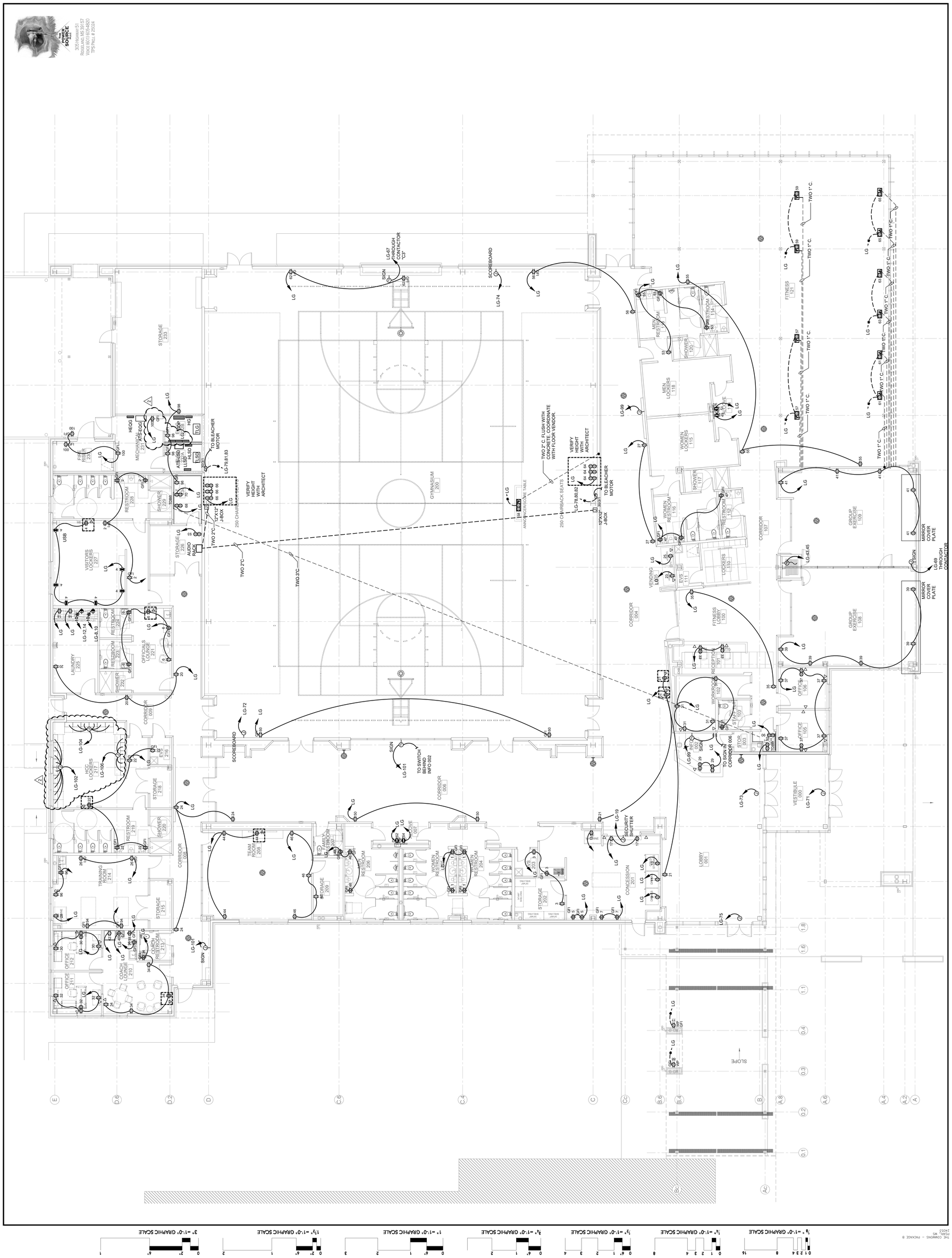
Drawn: CTB
Checked: CJC
Revisions: 2 ADDENDUM #2 10/09/2025

THE COMMONS – PACKAGE B (ADD ALTERNATE #2)
(RANKIN CAMPUS) HINDS COMMUNITY COLLEGE (COMMUNITY COLLEGE BOARD)
PEARL, MISSISSIPPI

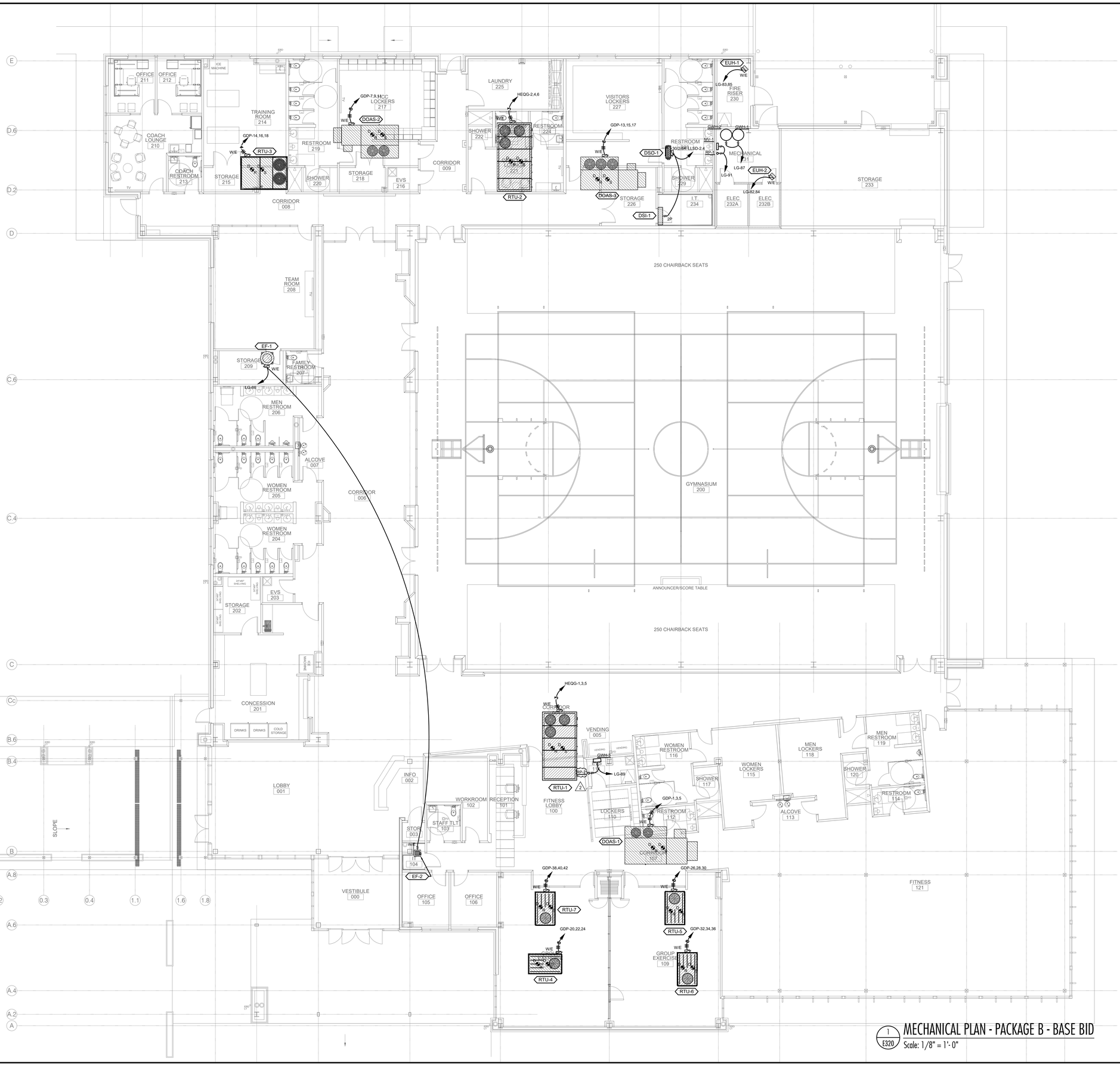
Sheet Number: E220

The SOURCE ALE
345 Highway 61
RIDGELAND, MS 39157
VOICE (601) 605-4820
TPS PROJ. # 25324



THE COMMONS – PACKAGE B
PEARL, MS
24053

1/8" =1'-0" GRAPHIC SCALE
0 1 2 3 4 8 16
1/4" =1'-0" GRAPHIC SCALE
0 1 2 3 4 8
1/2" =1'-0" GRAPHIC SCALE
0 6" 1 2 3 4
1" =1'-0" GRAPHIC SCALE
0 6" 1 2 3
3/4" =1'-0" GRAPHIC SCALE
0 6" 1 2
1 1/2" =1'-0" GRAPHIC SCALE
0 2" 6" 1 2
3" =1'-0" GRAPHIC SCALE
0 2" 6" 1



1 E320 MECHANICAL PLAN - PACKAGE B - BASE BID
Scale: 1/8" = 1'-0"

1" = 1'-0" GRAPHIC SCALE
1½" = 1'-0" GRAPHIC SCALE
3" = 1'-0" GRAPHIC SCALE
¾" = 1'-0" GRAPHIC SCALE
½" = 1'-0" GRAPHIC SCALE
⅜" = 1'-0" GRAPHIC SCALE

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CHRISTOPHER L. GREEN — 14779 — 9/19/2025 — STATE OF MISSISSIPPI — REGISTERED ARCHITECT

CONSTRUCTION DOCUMENTS

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THE COMMONS – PACKAGE B (ADD ALTERNATE #2)
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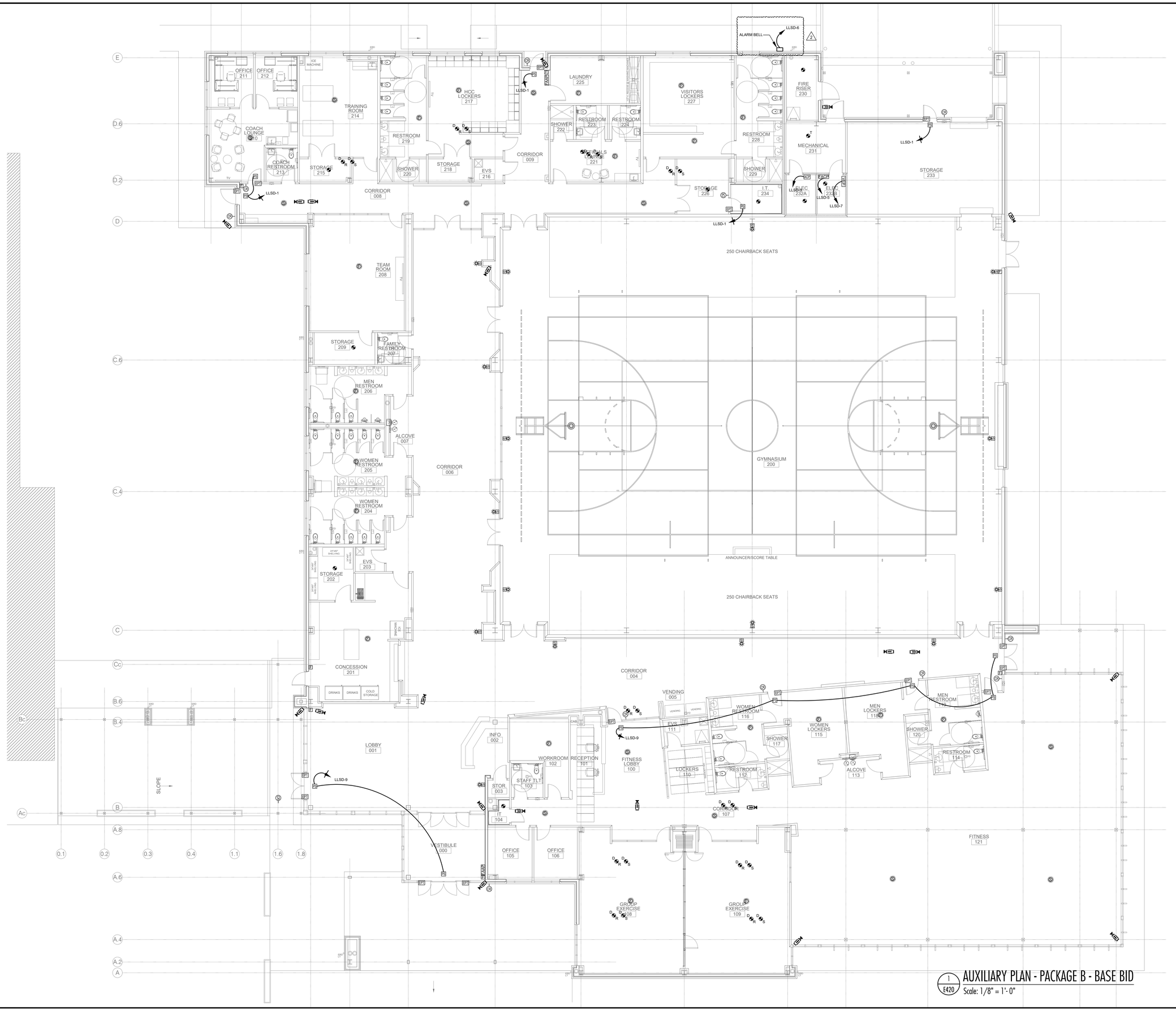
PEARL, MISSISSIPPI

Sheet Number:
E320

THE COMMONS – PACKAGE B
PEARL, MS
24053



1 E420 AUXILIARY PLAN - PACKAGE B - BASE BID
Scale: 1/8" = 1'-0"

3" = -1'-0" GRAPHIC SCALE
1½" = -1'-0" GRAPHIC SCALE
1" = -1'-0" GRAPHIC SCALE
¾" = -1'-0" GRAPHIC SCALE
½" = -1'-0" GRAPHIC SCALE
⅜" = -1'-0" GRAPHIC SCALE

THE COMMONS – PACKAGE B
PEARL, MS
PACKAGE #2

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CHRISTOPHER L. GRANT — 17777 — 9/19/2025 — STATE OF MISSISSIPPI

CONSTRUCTION DOCUMENTS

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Revisions: 2 ADDENDUM #2 10/09/2025

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E420