ADDENDUM NO. 1 - TO
SPECIFICATIONS AND CONTRACT DOCUMENTS
ENVIRONMENTAL LEARNING CENTER
OUTDOOR LEARNING AREA
JACKSON PUBLIC SCHOOL DISTRICT
JACKSON, MISSISSIPPI

JUNE 4, 2024

This addendum forms a part of the Contract Documents and modifies the original specifications and drawings, dated 5-9-24 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

This Addendum consists of 1 page and 54 attachments.

Item No. 1: PRE-BID MEETING MINUTES AND SIGN-IN SHEET: See attached Pre-Bid Meeting Minutes and Sign In Sheet, consisting of 2 pages and dated May 24, 2024.

Item No. 2: CLARIFICATION: Soils to be removed may be dumped on site at a location designed by the owner. The contractor shall be responsible for spreading material maintaining and restoring haul route, and stabilization upon completion and any erosion control measures to keep silt for leaving the immediate stockpile area.

Item No. 3: SPECIFICATIONS, SECTION 00004 – LIST OF DRAWINGS: Remove and destroy this section and insert the attached revised Section 00004 – LIST OF DRAWINGS, consisting of 2 pages and marked “Revised 6-4-24” in lower left corner.

Item No. 4: SPECIFICATIONS, SECTION 00030 – INFORMATION AVAILABLE TO BIDDERS: Insert attached ASBESTOS INSPECTION AND LEAD CONTAINING PAINT SAMPLING REPORT, prepared by Terracon, dated August 11, 2023, and consisting of 45 pages.

Item No. 5: DRAWINGS, SHEET M1.1 – GENERAL NOTES, LEGEND, SCHEDULES, AND HVAC PLAN: Remove and destroy this sheet and insert the attached revised Sheet M1.1 – GENERAL NOTES, LEGEND, SCHEDULES, AND HVAC PLAN dated 6-4-24.

Item No. 6: DRAWINGS, SHEET P1.2 – ABOVE AND BELOW SLAB PLAN VIEW – PLUMBING: Remove and destroy this sheet and insert the attached revised Sheet P1.2 – ABOVE AND BELOW SLAB PLAN VIEW – PLUMBING dated 6-4-24.

Item No. 7: DRAWINGS, SHEET E0.1 – SPECIFICATIONS, LEGENDS, LIGHT FIXTURE SCHEDULE, PANEL SCHEDULE AND ALT #1: Remove and destroy this sheet and insert the attached revised Sheet E0.1 – SPECIFICATIONS, LEGENDS, LIGHT FIXTURE SCHEDULE, PANEL SCHEDULE AND ALT #1 dated 6-4-24.

Item No. 8: DRAWINGS, SHEET E1.1 – SITE POWER PLAN: Remove and destroy this sheet and insert the attached revised Sheet E1.1 – SITE POWER PLAN dated 6-4-24.

Item No. 9: DRAWINGS, SHEET E3.1 – POWER PLAN: Remove and destroy this sheet and insert the attached revised Sheet E3.1 – POWER PLAN dated 6-4-24.

ALLEN & HOSHALL, PLLC
1675 Lakeland Drive Suite 207
Jackson, Mississippi 39216

JOB NO. 63367

Meeting Minutes – Pre-Bid Meeting

Project: **Environmental Learning Center Outdoor Learning Area**
Date: **May 24, 2024**
Time: **10:00 am**
Location: **Environmental Learning Center**

I. **Player Introductions** – See Attached Sign-In Sheet
- Charles Bunniran – A&H Project Manager
- Michel Lebel – A&H Project Architect
- Lena Franklin - JPS
- Coach Gibson - Principal

II. **Bid Dates and Instructions to Bidders**
- Bid Date is June 11, 2024 at 10:00 am. Bids will be received at the JPS Business Office at 662 South President Street Jackson, MS until 9:00 am. All hand delivery proposals delivered between 9:00 a.m. until 9:59 a.m. (local prevailing time) the date the bid is scheduled to open, must be delivered to JPSD Board Room, 621 South State Street, Jackson, MS 39201. Contractors will not be allowed to sit in on the bid opening.
- Bids will also be received electronically via the planroom.
- Last day for questions is June 6, 2024 at 12:00 PM.
- Questions to be email to Charles at cbunniran@allenhoshall.com and we will answer questions via addendum.

III. **Bid Form**
- Pay close attention to proposal form for the allowances to be included in the bid as well as alternates.

IV. **Project Description**
- Project consists of an outdoor learning area, renovate existing restroom.
- Selected contractor/subcontractors will have sign an affidavit that all employees have passed background checks.

V. **Coordination**
- Substantial Completion date is 150 calendar days from NTP.
- There should be no interaction with students.
- After hours work or weekend work will have to coordinate with the school and Coach Gibson, minimum of 3 days prior.

VI. **Questions/Walk Thru**
- Contractor is responsible for temporary fencing.
- At a minimum sod shall be used in the bottom of drainage swales and slopes 3:1 or greater. All other areas could be seeded and mulched.
- Contractor is responsible for all testing.
- Asbestos and LBP report to be included in addendum.

JACKSON PUBLIC SCHOOL DISTRICT

PRE BID - SIGN-IN SHEET

Environmental Learning Center Outdoor Learning Area

May 24, 2024

	Name	Organization	Phone	Email
1	Charles Brannan	Allen & Hoshall	601-813-3631	cbrannan@allenhoshall.com
2	Max Ellison	Mills Contracting	601 497 3335	mellison@millscontracting.net
3	Jamie Fountain	FCC	601-405-7940	estimating@fountainconstruction.com
4	Tripp Strickland	"	"	"
5	Jay Fowler	Fowler Construction	601-906-0625	Jay@fowlerconstruction.net
6	Leland Mebbea	Traxler Construction	601-439-7177	Traxcon@yahoo.com
7	Jeff Gibson	Jackson Public School	601-573-9044	coachjrgibson@gmail.com
8	Lena Franklin	Jackson Public Schools	601-960-8845	lfranklin@jackson.k12.ms.us
9	Ray Tharman	Jackson Public School	601 960 4012	rtharman@jackson.k12.ms.us
10				
11				
12				
13				
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20				

DOCUMENT 00004

LIST OF DRAWINGS

The following is a list of Contract Drawings which this contract is to be based. These drawings are entitled ENVIRONMENTAL LEARNING CENTER and dated MAY 9, 2024 with revision dates (if any), as noted. They will be supplemented by additional shop and dimensional drawings of materials and equipment and other drawings where specified.

Drawing Number	Sub-Title	Revision Date
.	COVER SHEET	
GENERAL		
G0.1	SHEET INDEX	
G0.2	LIFE SAFETY FLOOR PLAN AND CODE DATA	
CIVIL		
C0.1	EXISTING CONDITIONS AND DEMOLITION PLAN	
C0.2	UNDERCUT LIMITS	
C1.1	SITE PLAN	
C2.1	GRADING AND DRAINAGE PLAN	
C3.1	EROSION CONTROL PLAN	
C3.2	EROSION CONTROL NOTES AND DETAILS	
C4.1	UTILITY PLAN	
C5.1	DETAILS	
ARCHITECTURAL		
A0.1	ABBREVIATIONS, SYMBOLS, AND WALL TYPES	
AD1.0	DEMOLITION PLAN AND NEW PLAN - EXISTING RESTROOMS	
A1.1	DIMENSION FLOOR PLAN	
A1.2	REFERENCE FLOOR PLAN	
A2.1	ENLARGED FLOOR PLANS	
A3.2	REFLECTED CEILING PLAN	
A4.2	ROOF PLAN	
A5.4	EXTERIOR ELEVATIONS	
A5.5	EXTERIOR ELEVATIONS	
A6.2	BUILDING SECTIONS	
A6.3	BUILDING SECTIONS	
A7.1	WALL SECTIONS	
A10.1	DOOR TYPES	
A11.1	INTERIOR ELEVATIONS AND DETAILS - RESTROOMS	
A11.2	INTERIOR ELEVATIONS AND DETAILS -SERVING	
A11.4	INTERIOR ELEVATIONS AND DETAILS - EXISTING RESTROOMS	
A12.1	FINISH FLOOR PLAN, LEGEND AND SCHEDULE	
STRUCTURAL		
S0.1	STRUCTURAL GENERAL NOTES	
S0.2	STRUCTURAL SPECIAL INSPECTIONS	
S1.1	FOUNDATION PLAN	
S1.2	LOWER HORIZONTAL CONTROL PLAN	
S1.3	CROSS LAMINATED DECK (CLT) LAYOUT PLAN	
S1.4	UPPER HORIZONTAL CONTROL PLAN	
S3.0	FOUNDATION SECTIONS	
S3.1	FOUNDATION SECTIONS	
S3.2	ROOF SECTIONS	

S3.3 LEANING COLUMN SECTIONS & DETAILS
S5.1 MISC. DETAILS
S5.2 MISC. DETAILS

MECHANICAL
M1.1 GENERAL NOTES, LEGEND, SCHEDULES, AND HVAC PLAN 6-4-24

PLUMBING
P0.1 LEGEND, NOTES, SCHEDULES, AND SPECIFICATIONS - PLUMBING
P1.1 RENO AREA AND NEW INSTALL PLAN VIEW - PLUMBING
P1.2 ABOVE AND BELOW SLAB PLAN VIEW – PLUMBING 6-4-24

ELECTRICAL
E0.1 SPECIFICATIONS, LEGENDS, LIGHT FIXTURE SCHEDULE, PANEL SCHEDULE AND ALT #1 6-4-24
E1.1 SITE POWER PLAN 6-4-24
E2.1 LIGHTING PLAN - OVERALL PLAN
E3.1 POWER PLAN 6-4-24

END OF SECTION

Asbestos Inspection & Lead-Containing Paint Sampling Report

JPS Lazy U Facility
Main Building and Quonset Hut
6190 Highway 18
Jackson, Mississippi

August 11, 2023 | Terracon Project No. EB237108

Prepared for:
Allen & Hoshall Architects
Jackson, Mississippi

Prepared by:
Terracon Consultants, Inc.
Ridgeland, Mississippi

Terracon

Nationwide
Terracon.com

- Facilities
- Environmental
- Geotechnical
- Materials

859 S Pear Orchard Rd
Ridgeland, MS 39157-5105
P 601-956-4467
F 601-956-9533
Terracon.com

August 11, 2023

Allen & Hoshall Architects
1675 Lakeland Drive, Suite 207
Jackson, Mississippi 39216

Attn: Mr. Charles Bunniran
P: (601) 977-8993
E: cbunniran@allenhoshall.com

RE: Asbestos Inspection and Lead-Containing Paint Sampling Report
JPS Lazy U Facility
Main Building and Quonset Hut
6190 Highway 18
Jackson, Mississippi
Terracon Project No. EB237108

Dear Mr. Bunniran:

The purpose of this report is to present the results of the asbestos inspection and lead-containing paint sampling performed on July 11, 2023 at the above-referenced buildings located in Jackson, Mississippi. These services were conducted in general accordance with our proposal number PEB237108, dated June 14, 2023. We understand that the inspection and sampling were requested by the client to aid in a planned renovation of the two buildings.

One asbestos-containing material was identified in the various materials associated with the Main Building. **Lead was also identified in three of painted surfaces** associated with the buildings. Please refer to the attached report for details.

Terracon appreciates the opportunity to provide this service. If you have any questions regarding this report, please contact the undersigned at (769) 233-2072.

Sincerely,
Terracon Consultants, Inc.

Brad McKnight
Project Industrial Hygienist

Alicia Coley, CIH
Authorized Project Reviewer

Table of Contents

Appendices

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted an asbestos inspection and lead-containing paint sampling of the JPS Lazy U Facility located at 6190 Highway 18 in Jackson, Mississippi. The inspection and sampling were conducted on July 11, 2023 by Terracon representative, Mr. Brad McKnight. The scope of work included an inspection of accessible areas of the interior and exterior of the two buildings and in accordance with Terracon's proposal number PEB237108, dated June 14, 2023.

1.1 Project Objective

The scope of services included an inspection for asbestos-containing materials (ACM) as required by United States Environmental Protection Agency (USEPA) regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), which prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP and Mississippi Admin, Code Part 2, Chapter 1, Rule 1.8 requires that potentially regulated asbestos-containing building materials (ACBM) be identified, classified, and quantified prior to planned disturbances or demolition/renovation activities.

The Occupational Health and Safety Administration (OSHA) has promulgated a worker protection standard for the disturbance of lead-containing paints during renovation and demolition projects. The lead paint sampling was performed to meet informational needs to comply with the OSHA Lead in Construction Standard (29 CRF 1926.62). Currently, proposed renovations or demolition activities which may impact lead paint is subject to OSHA regulation 29 CFR 1926.62 – Lead Exposure in Construction.

2.0 BUILDING DESCRIPTION

The JPS Lazy U Facility is located at 6190 Highway 18 in Jackson, Mississippi. The building inspected is two buildings that have been connected, the Main Building and the Quonset Hut. The Main Building is an approximate 2,700 square foot wood-framed structure with a pitched shingled roof. The exterior has cementitious asbestos siding and wood-framed windows. The interior consists of vinyl tile flooring throughout, gypsum wallboard walls, and a gypsum wallboard ceilings with texture. The Quonset Hut is a metal-framed, dome-shaped structure consisting of approximately 3,000 square feet. The exterior is metal with metal-framed windows. The interior is metal with spray applied insulation on the walls and ceiling. The space has an exposed concrete floor with a small section of vinyl floor tile and mastic. The mastic remains throughout the remainder of the floor.

3.0 ASBESTOS INSPECTION

3.1 Field Activities

The asbestos inspection was conducted by MDEQ accredited asbestos inspector Brad McKnight (Accreditation No. ABI-00001685). A copy of the asbestos inspector certificate is attached in Appendix G. A summary of inspection activities is provided below.

Visual Assessment

Our inspection activities began with visual observation of areas of the buildings to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color and texture with consideration given to the date of application. The assessment was conducted throughout visually accessible areas of the interior and exterior. Building materials identified as concrete, glass, wood, masonry, metal, or rubber were not considered suspect ACM.

Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with EPA sampling protocols. Random samples of suspect materials were collected in each homogeneous area. The inspector collected bulk samples using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

Thirty-nine bulk samples were collected from twelve homogeneous areas of suspect ACM from the two buildings. A summary of suspected ACM materials collected during the inspection is included as Appendix A, Table 2.

Sample Analysis

Bulk samples were submitted under chain of custody to QuanTEM Laboratories (QuanTEM) in Oklahoma City, Oklahoma for analysis by polarized light microscopy (PLM) with dispersion staining techniques per EPA methodology (EPA/600/R-93/116). The percentage of asbestos, where applicable, was determined by microscopic visual estimation.

3.2 Regulatory Overview – Asbestos

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. The asbestos NESHAP regulation also requires the identification and classification of existing ACM according to friability prior to demolition or renovation activity. Under NESHAP, ACM is identified as either friable, Category I non-friable or Category II non-friable ACM. Friable ACM is a material containing more than 1% asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. All friable ACM is considered regulated asbestos containing material (RACM).

RACM includes all friable ACM, along with Category I and Category II non-friable ACM that has become friable, will be or has been subjected to sanding, grinding, cutting, or abrading, or ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder in the course of renovation or demolition activity.

Category I non-friable ACM are exclusively asbestos-containing packings, gaskets, resilient floor coverings, resilient floor covering mastics and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials other than Category I non-friable ACM that contain more than 1% asbestos. Category II non-friable ACM generally includes but is not limited to cementitious material such as: cement pipes, cement siding, cement panels, glazing, mortar and grouts.

In non-state, non-school buildings, the State of Mississippi sets forth standards for asbestos under 11 Mississippi Administrative Code Part 2, Chapter 1, Rule 1.8. Per Part 2, Chapter 10, Rule 10.1 to 11 standards, the following activities, when conducted, must be performed by accredited individuals: asbestos inspections, asbestos abatement, and monitoring for airborne asbestos.

The United States OSHA asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos must not exceed 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight-hour time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1.0 f/cc) over a 30-minute time period known as an excursion limit (EL). The TWA and EL are known as OSHA's asbestos permissible exposure limits (PELs). The OSHA standard classifies construction and maintenance activities which could disturb ACM and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

3.3 Findings and Recommendations - Asbestos

Based on the analytical results of the samples submitted for analysis, one type of material was determined to contain greater than 1% asbestos. This material was:

- HA-02: White Cementitious Siding (Transite) – Main Building Exterior Walls

A summary of the ACM and analytical results can be found in Appendix A of this report. The sample locations and floor plans can be found in Appendix F.

It should be noted that suspect materials, other than those identified during this inspection may exist within the two buildings. Should suspect materials other than those which were identified during this inspection be uncovered during the renovation process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

4.0 LEAD PAINT SAMPLING

4.1 Field Activities

Brad McKnight of Terracon conducted the lead paint sampling activities. The scope of the sampling included obtaining bulk paint chips samples from the various colored painted components of the interior and exterior of the buildings. A summary of the limited sampling activities is provided below.

Visual Assessment

The lead paint sampling began by visually surveying building components and identifying unique combinations of paint. A unique combination of paint consists of paint that is applied to a building material and has similar room equivalent, substrate, and component. The substrate is the material beneath the painted surface of the component. Substrates typically found are drywall, brick, concrete, wood, plaster, and metal. Paint that was applied to furniture or other movable objects was not included in the scope of this lead paint sampling. Multiple random test locations are chosen for laboratory analysis.

Sample Collection

Terracon collected twelve bulk paint chip samples from painted surfaces from various building components. A summary of paint chip samples collected during the sampling is included as Appendix C.

Sample Analysis

Bulk paint chips were submitted under chain of custody to QuanTEM in Oklahoma City, Oklahoma for analysis by EPA methodology (7000B - Flame AAS). The analytical results are presented in Appendix D of this report.

4.2 Regulatory Overview – Lead Paint

The OSHA *Lead Standard for Construction* (29 CFR 1926.62) applies to all construction work where an employee may be occupationally exposed to lead. All work related to construction, alteration, or repair (including painting and decorating) is included. The lead-in-construction standard applies to any detectable concentration of lead in paint, as even small concentrations of lead can result in unacceptable employee exposures depending upon on the method of removal and other workplace conditions.

Under the OSHA standard, construction includes, but is not limited to, the following:

- Demolition or salvage of structures where lead or materials containing lead are present
- Removal or encapsulation of materials containing lead
- New construction, alteration, repair, or renovation of structures, substrates, or portions containing lead, or materials containing lead
- Installation of products containing lead
- Lead contamination/emergency clean-up
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed
- Maintenance operations associated with construction activities described above

OSHA regulation 29 CFR 1926.62 established an "Action Level" for lead concentrations "in air" of 30 micrograms per cubic meter of air (µg/m^3) and a "Permissible Exposure Limit" for lead concentrations "in air" of 50 µg/m^3. At this time, OSHA has not established limits for lead content in bulk paint (non-airborne). Their interpretation on this issue is that any amount of lead may cause airborne concentrations above the established limits.

4.3 Findings and Recommendations – Lead Paint

Based on the paint chip sample analytical results, LCP concentrations over the laboratory's Reporting Limit (RL) was identified in three of the painted materials sampled. A summary of the paint sample locations and analytical results can be found in Appendix D of this report.

The findings from this sampling indicate that lead-containing painted materials will be impacted during any future renovation or demolition process; therefore, the contractor must comply with the following regulatory requirements:

- If workers perform sanding, grinding, cutting, or any other dust-producing activities (demolition) on lead-containing materials, the employer must implement the requirements of the OSHA Lead in Construction Standard, 29 CFR 1926.62. This standard requires, among other things, lead training, personal protective equipment (e.g., respiratory protection, protective

clothing), an initial exposure assessment, and hygiene facilities for all potentially exposed workers.

- If lead dust-producing activities are to be conducted, care should be taken to minimize the spread of lead particulate beyond the immediate area of the work, and to avoid exposing other unprotected individuals in the area to airborne lead.

5.0 GENERAL COMMENTS

This limited asbestos inspection and lead-containing paint sampling were conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during our inspection of the buildings. The information contained in this report is relevant to the date on which this inspection was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by Allen & Hoshall Architects for the specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories, or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

APPENDIX A

LIMITED ASBESTOS INSPECTION SAMPLE SUMMARY

TABLE 1.0
CONFIRMED ASBESTOS CONTAINING MATERIALS
JPS Lazy U Facility
6190 Highway 18
Jackson, Mississippi
Terracon Project No. EB237108

HA	Material Description	Material Location	NESHAP Category	Condition	Lab Results	Quantity*
02	White Transite Siding with Black Backing	Main Building Exterior Walls	Category II Non-Friable	Poor	Black Layer: ND White Layer: 5%C	~1,500 SF

* Quantities are estimates only and should not be used for bidding purposes.
SF: Square Feet
C: Chrysotile Asbestos
ND: No Asbestos Detected
HA: Homogeneous Area

TABLE 2.0
ASBESTOS SURVEY SAMPLE SUMMARY
JPS Lazy U Facility
6190 Highway 18
Jackson, Mississippi
Terracon Project No. EB237108

HA	Material Description	Material Location	Condition	Sample Number	Lab Results
01	Roof Shingles with Felt	Main Building Roof	Fair	01-01 01-02 01-03	Shingle: ND Felt: ND
02	White Transite Siding with Black Backing	Main Building Exterior Walls	Poor	02-04 02-05 02-06	Black Layer: ND White Layer: 5%C
03	Window Glazing	Main Building Exterior Window Framing	Poor	03-07 03-08 03-09	ND
04	Tan 12” x 12” Floor Tile with Mastic	Main Building	Good	04-10 04-11 04-12	Tile: ND Mastic: ND
05	Brown Cove Base with Mastic and Joint Compound	Main Building	Good	05-13 05-14 05-15	Cove Base: ND Mastic: ND Joint Compound: ND
06	Gypsum Wallboard System	Main Building	Good	06-16 06-17 06-18	ND
07	Ceiling Surface Material	Main Building Interior Ceiling	Good	07-19 07-20 07-21 07-22 07-23 07-24	ND

HA	Material Description	Material Location	Condition	Sample Number	Lab Results
08	Restroom Caulking	Main Building Restrooms	Fair	08-25	ND
				08-26	
				08-27	
09	Unfinished Gypsum Wallboard	Quonset Hut	Fair	09-28	ND
				09-29	
				09-30	
10	Tan 12” x 12” Floor Tile with Mastic	Quonset Hut	Poor	10-31	Tile: ND Mastic: ND
				10-32	
				10-33	
11	Cove Base with Mastic	Quonset Hut	Fair	11-34	Cove Base: ND Mastic: ND
				11-35	
				11-36	
12	Interior Wall and Ceiling	Quonset Hut	Poor	12-37	ND
				12-38	
				12-39	

C: Chrysotile Asbestos
HA: Homogeneous Area
ND: No Asbestos Detected

APPENDIX B

LABORATORY ANALYTICAL REPORT FOR ASBESTOS

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 360272
Account Number: C085

Client: Terracon - Ridgeland
Brad McKnight

Date Received: 07/14/2023
Received By: Baylie Longstreth
Date Analyzed: 07/18/2023
Analyzed By: Jack Mankin
Methodology: EPA/600/R-93/116

Project: Lazy U ACM/LCP Survey
Project Location: Jackson, MS
Project Number: EB237108

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
001	01-01	Layered	Black Shingle	Asbestos Not Present	Glass Fiber	5	Tar Sand CaCO3
001a		Layered	Black Tar Paper	Asbestos Not Present	Cellulose	60	Tar
002	01-02	Layered	Black Shingle	Asbestos Not Present	Glass Fiber	5	Tar Sand CaCO3
002a		Layered	Black Tar Paper	Asbestos Not Present	Cellulose	60	Tar
003	01-03	Layered	Black Shingle	Asbestos Not Present	Glass Fiber	5	Tar Sand CaCO3
003a		Layered	Black Tar Paper	Asbestos Not Present	Cellulose	60	Tar

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 360272
Account Number: C085

Client: Terracon - Ridgeland
Brad McKnight

Date Received: 07/14/2023
Received By: Baylie Longstreth
Date Analyzed: 07/18/2023
Analyzed By: Jack Mankin
Methodology: EPA/600/R-93/116

Project: Lazy U ACM/LCP Survey
Project Location: Jackson, MS
Project Number: EB237108

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
004	02-04	Layered	Black Siding	Asbestos Not Present	Cellulose 10	Clay Sand Paint
004a		Layered	White Siding	Asbestos Present Chrysotile 5	NA	Gypsum
005	02-05	Layered	Black Siding	Asbestos Not Present	Cellulose 10	Clay Sand Paint
005a		Layered	White Siding	Asbestos Present Chrysotile 5	NA	Gypsum
006	02-06	Layered	Black Siding	Asbestos Not Present	Cellulose 10	Clay Sand Paint
006a		Layered	White Siding	Asbestos Present Chrysotile 5	NA	Gypsum

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited Testing PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested.
NVLAP accreditation applies only to analysis performed utilizing EPA—40 CFR Appendix E to Subpart E of Part 763 and EPA/600/R-93/116 methods.
This report may not be used to claim product endorsement by NVLAP or any agency of the US Government.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 360272
Account Number: C085

Client: Terracon - Ridgeland
Brad McKnight

Date Received: 07/14/2023
Received By: Baylie Longstreth
Date Analyzed: 07/18/2023
Analyzed By: Jack Mankin
Methodology: EPA/600/R-93/116

Project: Lazy U ACM/LCP Survey
Project Location: Jackson, MS
Project Number: EB237108

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
007	03-07	Homogeneous	White Window Glazing	Asbestos Not Present	NA	CaCO3 Binder Paint
008	03-08	Homogeneous	White Window Glazing	Asbestos Not Present	NA	CaCO3 Binder Paint
009	03-09	Homogeneous	White Window Glazing	Asbestos Not Present	NA	CaCO3 Binder Paint
010	04-10	Layered	Tan Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
010a		Layered	Brown Mastic	Asbestos Not Present	NA	Glue
011	04-11	Layered	Tan Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 360272
Account Number: C085

Client: Terracon - Ridgeland
Brad McKnight

Date Received: 07/14/2023
Received By: Baylie Longstreth
Date Analyzed: 07/18/2023
Analyzed By: Jack Mankin
Methodology: EPA/600/R-93/116

Project: Lazy U ACM/LCP Survey
Project Location: Jackson, MS
Project Number: EB237108

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
011a		Layered	Tan Mastic	Asbestos Not Present	NA	Glue
012	04-12	Layered	Tan Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
012a		Layered	Tan Mastic	Asbestos Not Present	NA	Glue
013	05-13	Layered	Brown Cove Base	Asbestos Not Present	NA	Vinyl CaCO3
013a		Layered	Brown Mastic	Asbestos Not Present	NA	Glue CaCO3
013b		Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
014	05-14	Layered	Brown Cove Base	Asbestos Not Present	NA	Vinyl CaCO3

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 360272
Account Number: C085

Client: Terracon - Ridgeland
Brad McKnight

Date Received: 07/14/2023
Received By: Baylie Longstreth
Date Analyzed: 07/18/2023
Analyzed By: Jack Mankin
Methodology: EPA/600/R-93/116

Project: Lazy U ACM/LCP Survey
Project Location: Jackson, MS
Project Number: EB237108

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
014a		Layered	Brown Mastic	Asbestos Not Present	NA	Glue CaCO3
014b		Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
015	05-15	Layered	Brown Cove Base	Asbestos Not Present	NA	Vinyl CaCO3
015a		Layered	Brown Mastic	Asbestos Not Present	NA	Glue CaCO3
015b		Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
016	06-16	Homogeneous	Gray Wallboard	Asbestos Not Present	Glass Fiber 5	Gypsum Paint

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 360272
Account Number: C085

Client: Terracon - Ridgeland
Brad McKnight

Date Received: 07/14/2023
Received By: Baylie Longstreth
Date Analyzed: 07/18/2023
Analyzed By: Jack Mankin
Methodology: EPA/600/R-93/116

Project: Lazy U ACM/LCP Survey
Project Location: Jackson, MS
Project Number: EB237108

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
017	06-17	Homogeneous	Gray Wallboard	Asbestos Not Present	Glass Fiber	5	Gypsum Paint
018	06-18	Homogeneous	Gray Wallboard	Asbestos Not Present	Glass Fiber	5	Gypsum Paint
019	07-19	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA		CaCO3 Paint
020	07-20	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA		CaCO3 Paint
021	07-21	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA		CaCO3 Paint
022	07-22	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA		CaCO3 Paint
023	07-23	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA		CaCO3 Paint

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 360272
Account Number: C085

Client: Terracon - Ridgeland
Brad McKnight

Date Received: 07/14/2023
Received By: Baylie Longstreth
Date Analyzed: 07/18/2023
Analyzed By: Jack Mankin
Methodology: EPA/600/R-93/116

Project: Lazy U ACM/LCP Survey
Project Location: Jackson, MS
Project Number: EB237108

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
024	07-24	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA	CaCO3 Paint
025	08-25	Homogeneous	White Caulk	Asbestos Not Present	NA	CaCO3 Paint
026	08-26	Homogeneous	White Caulk	Asbestos Not Present	NA	CaCO3 Paint
027	08-27	Homogeneous	White Caulk	Asbestos Not Present	NA	CaCO3 Paint
028	09-28	Homogeneous	White Wallboard	Asbestos Not Present	Glass Fiber 5	Gypsum Paint
029	09-29	Homogeneous	White Wallboard	Asbestos Not Present	Glass Fiber 5	Gypsum Paint

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited Testing PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested.
NVLAP accreditation applies only to analysis performed utilizing EPA—40 CFR Appendix E to Subpart E of Part 763 and EPA/600/R-93/116 methods.
This report may not be used to claim product endorsement by NVLAP or any agency of the US Government.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 360272
Account Number: C085

Client: Terracon - Ridgeland
Brad McKnight

Date Received: 07/14/2023
Received By: Baylie Longstreth
Date Analyzed: 07/18/2023
Analyzed By: Jack Mankin
Methodology: EPA/600/R-93/116

Project: Lazy U ACM/LCP Survey
Project Location: Jackson, MS
Project Number: EB237108

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
030	09-30	Homogeneous	White Wallboard	Asbestos Not Present	Glass Fiber 5	Gypsum Paint
031	10-31	Layered	Tan Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
031a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
031b		Layered	White Leveling Compound	Asbestos Not Present	NA	Gypsum
032	10-32	Layered	Tan Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
032a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
033	10-33	Layered	Tan Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 360272
Account Number: C085

Client: Terracon - Ridgeland
Brad McKnight

Date Received: 07/14/2023
Received By: Baylie Longstreth
Date Analyzed: 07/18/2023
Analyzed By: Jack Mankin
Methodology: EPA/600/R-93/116

Project: Lazy U ACM/LCP Survey
Project Location: Jackson, MS
Project Number: EB237108

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
033a		Layered	Black Mastic	Asbestos Not Present	NA	Tar
034	11-34	Layered	Tan Cove Base	Asbestos Not Present	NA	Vinyl CaCO3
034a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
035	11-35	Layered	Tan Cove Base	Asbestos Not Present	NA	Vinyl CaCO3
035a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
036	11-36	Layered	Tan Cove Base	Asbestos Not Present	NA	Vinyl CaCO3

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 360272
Account Number: C085

Client: Terracon - Ridgeland
Brad McKnight

Date Received: 07/14/2023
Received By: Baylie Longstreth
Date Analyzed: 07/18/2023
Analyzed By: Jack Mankin
Methodology: EPA/600/R-93/116

Project: Lazy U ACM/LCP Survey
Project Location: Jackson, MS
Project Number: EB237108

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
036a		Layered	Yellow Mastic	Asbestos Not Present	NA		Glue
037	12-37	Homogeneous	Gray Insulation	Asbestos Not Present	Cellulose	100	
038	12-38	Homogeneous	Gray Insulation	Asbestos Not Present	Cellulose	100	
039	12-39	Homogeneous	Gray Insulation	Asbestos Not Present	Cellulose	100	

Jack Mankin, Laboratory Analyst

7/18/2023
Date of Report

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited Testing PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested.
NVLAP accreditation applies only to analysis performed utilizing EPA—40 CFR Appendix E to Subpart E of Part 763 and EPA/600/R-93/116 methods.
This report may not be used to claim product endorsement by NVLAP or any agency of the US Government.

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www.QuanTEM.com
2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only	
Lab No.	360272
Accept / Reject	Accept

Contact Information			
Company:	Terracon/Ridgeland	Phone:	(769) 233-2072
Contact:	Brad McKnight	Cell Phone:	(601) 497-5795
Account #:	CO-85	E-mail:	brad.mcknight@terracon.com
SAMPLED BY: Name:	Brad McKnight	Date:	7/11/2023

Project Information	
Project Name:	Lazy U ACM/LCP Survey
Project Location:	Jackson, MS
Project ID:	EB237108
P.O. Number:	EB237108

Report Results (☑ one box)	
☐	QuanTEM Website
☑	Email brad.mcknight@terracon.com
☐	Other _____

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
[signature]	7/11/23	FEDEX	[signature]	7/14/23 8:00

REQUESTED SERVICES (Please ☑ the Appropriate Boxes)

PLM	
☑	Bulk Analysis (EPA 600/R-93/116)
☐	400 Point Count
☐	1000 Point Count
☐	Gravimetric Preparation
☐	Particle ID

PLM	
☐	Vermiculite Attic Insulation (EPA 600/R-04/004)
☐	Other

PCM	
☐	NIOSH 7400

TEM	
☐	Air- AHERA
☐	Air- NIOSH 7402
☐	Air- ISO 10312
☐	Drinking Water- EPA 100.2
☐	Waste Water- EPA 600/4-83-043

TEM	
☐	Bulk- Presence / Absence EPA600/R-93/116
☐	Bulk- Quantitative [weight%]- Chatfield
☐	Dust- Presence / Absence
☐	Dust- Quantitative [fibers/sq.cm]- ASTM D5755
☐	Other

TURNAROUND TIME	
☐	Rush
☐	Same Day
☐	24 - Hour
☑	3 - Day
☐	5 - Day

No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
1	01-01	☑	Black	Roof Shingles w/Felt		
2	01-02	☑	Black	Roof Shingles w/Felt		
3	01-03	☑	Black	Roof Shingles w/Felt		
4	02-04	☑	White	Exterior Siding		
5	02-05	☑	White	Exterior Siding		
6	02-06	☑	White	Exterior Siding		
7	03-07	☑	White	Window Glazing		
8	03-08	☑	White	Window Glazing		
9	03-09	☑	White	Window Glazing		
10	04-10	☑	Tan/Tan	12" X 12" Floor Tile w/Mastic		

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"
Please Note - UPS and USPS are NOT available for Saturday Delivery

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2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only
Lab No. 360272
Accept Reject

Project Information		
Company: Terracon/Ridgeland	Project Name: Lazy U ACM/LCP Survey	Project Location: Jackson, MS

No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
11	04-11	☑	Tan/Tan	12" X 12" Floor Tile w/Mastic		
12	04-12	☑	Tan/Tan	12" X 12" Floor Tile w/Mastic		
13	05-13	☑	Brown	Cove Base w/Mastic		
14	05-14	☑	Brown	Cove Base w/Mastic		
15	05-15	☑	Brown	Cove Base w/Mastic		
16	06-16	☑	White	Gypsum Wallboard/Joint Compound/Tape		
17	06-17	☑	White	Gypsum Wallboard/Joint Compound/Tape		
18	06-18	☑	White	Gypsum Wallboard/Joint Compound/Tape		
19	07-19	☑	White	Ceiling Surface Material		
20	07-20	☑	White	Ceiling Surface Material		
21	07-21	☑	White	Ceiling Surface Material		
22	07-22	☑	White	Ceiling Surface Material		
23	07-23	☑	White	Ceiling Surface Material		
24	07-24	☑	White	Ceiling Surface Material		
25	08-25	☑	White	Restroom Caulking		
26	08-26	☑	White	Restroom Caulking		
27	08-27	☑	White	Restroom Caulking		
28	09-28	☑	White	Gypsum Wallboard/Joint Compound/Tape		
29	09-29	☑	White	Gypsum Wallboard/Joint Compound/Tape		
30	09-30	☑	White	Gypsum Wallboard/Joint Compound/Tape		

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LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only
Lab No. 360272
Accept Reject

Project Information		
Company: Terracon/Ridgeland	Project Name: Lazy U ACM/LCP Survey	Project Location: Jackson, MS

No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
31	10-31	☑	Tan/Black	12" X 12" Floor Tile w/Mastic		
32	10-32	☑	Tan/Black	12" X 12" Floor Tile w/Mastic		
33	10-33	☑	Tan/Black	12" X 12" Floor Tile w/Mastic		
34	11-34	☑	Tan	Cove Base w/Mastic		
35	11-35	☑	Tan	Cove Base w/Mastic		
36	11-36	☑	Tan	Cove Base w/Mastic		
37	12-37	☑	Gray	Wall and Ceiling Insulation		
38	12-38	☑	Gray	Wall and Ceiling Insulation		
39	12-39	☑	Gray	Wall and Ceiling Insulation		
40		☐				
41		☐				
42		☐				
43		☐				
44		☐				
45		☐				
46		☐				
47		☐				
48		☐				
49		☐				
50		☐				

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"
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APPENDIX C

LEAD-CONTAINING PAINT SAMPLE SUMMARY

JPS Lazy U Facility
6190 Highway 18
Jackson, Mississippi
Terracon Project No. EB237108

LEAD PAINT SAMPLE LOCATION SUMMARY

Sample Number	Paint Description	Sample Location	Lab Results % Pb by Weight
L-1	Main Building Exterior Tan	Main Building Patio	<0.0050
L-2	Main Building Exterior Tan	Main Building Patio	<0.0050
L-3	Main Building Exterior White	Main Building Exterior Walls	<0.025
L-4	**Main Building Exterior White**	**Main Building Exterior Walls**	**0.036**
L-5	Main Building Interior Tan	Main Building Restrooms	<0.010
L-6	Main Building Interior Tan	Main Building Restrooms	<0.013
L-7	Main Building Interior White	Main Building Interior Walls	<0.0050
L-8	Main Building Interior White	Main Building Interior Walls	<0.0050
L-9	**Quonset Hut Exterior White**	**Quonset Hut Exterior at Entrance**	**11**
L-10	**Quonset Hut Exterior White**	**Quonset Hut Exterior at Entrance**	**12**
L-11	**Quonset Hut Exterior Gray**	**Quonset Hut Exterior**	**2.4**
L-12	**Quonset Hut Exterior Gray**	**Quonset Hut Exterior**	**6.3**

***Bolded samples indicate samples with OSHA-regulated paints with lead concentrations above the laboratory detection limit.**

APPENDIX D

LABORATORY ANALYTICAL REPORT FOR LEAD-CONTAINING PAINT

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Environmental Chemistry Analysis Report

QuanTEM Set ID: 360267
Date Received: 07/13/23
Received By: Courtney Holman
Date Sampled:
Time Sampled:
Analyst: CR
Date of Report: 07/17/23

AIHA LAP, LLC: 101352

Client: Terracon - Ridgeland
Brad McKnight

Acct. No.: C085

Project: Lazy U ACM/LBP
Location: EB237108
Project No.: EB237108

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	L-1	Paint	Lead	<0.0050	0.005	%	07/17/23 13:08	P EPA 7000B (1)
002	L-2	Paint	Lead	<0.0050	0.005	%	07/17/23 13:08	P EPA 7000B (1)
003	L-3	Paint	Lead	<0.025	0.025	%	07/17/23 13:08	P EPA 7000B (1)
004	L-4	Paint	Lead	0.036	0.0071	%	07/17/23 13:08	P EPA 7000B (1)
005	L-5	Paint	Lead	<0.010	0.01	%	07/17/23 13:08	P EPA 7000B (1)
006	L-6	Paint	Lead	<0.013	0.013	%	07/17/23 13:08	P EPA 7000B (1)
007	L-7	Paint	Lead	<0.0050	0.005	%	07/17/23 13:08	P EPA 7000B (1)
008	L-8	Paint	Lead	<0.0050	0.005	%	07/17/23 13:08	P EPA 7000B (1)
009	L-9	Paint	Lead	11	0.005	%	07/17/23 13:08	P EPA 7000B (1)
010	L-10	Paint	Lead	12	0.005	%	07/17/23 13:08	P EPA 7000B (1)
011	L-11	Paint	Lead	2.4	0.0056	%	07/17/23 13:08	P EPA 7000B (1)
012	L-12	Paint	Lead	6.3	0.005	%	07/17/23 13:08	P EPA 7000B (1)

Note: Sample results have not been corrected for blank values.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Environmental Chemistry Analysis Report

QuanTEM Set ID: 360267
Date Received: 07/13/23
Received By: Courtney Holman
Date Sampled:
Time Sampled:
Analyst: CR
Date of Report: 07/17/23

AIHA LAP, LLC: 101352

Client: Terracon - Ridgeland
Brad McKnight

Acct. No.: C085

Project: Lazy U ACM/LBP
Location: EB237108
Project No.: EB237108

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method

Authorized Signature: Cherry Rossen

Cherry Rossen, Technical Manager

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations. Customer provided data such as volumes, areas, etc., cannot be verified by QuanTEM Laboratories, LLC.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report
QAQC Results

QA ID: 20799 **Date:** 7/17/2023 **Lab Number:** 360267
Test: Lead **Matrix:** Paint **Approved By:** Cherry Rossen
Date Approved: 7/17/2023

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	2.2	2.6	2.8
FCV	2.2	2.7	2.8
RLVS	0.05	0.13	0.15
ICV	0.9	1.1	1.1

Duplicate Data:

Sample Number	Result	Duplicate	% RPD
360267-010	240.081	220.396	8.5

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
LCS-P1	0.000	2.010	1.994	99.2	1.944	96.7	2.5

Cherry Rossen

Authorized Signature:_____

Cherry Rossen, Technical Manager

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LEAD CHAIN OF CUSTODY

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LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only
Lab No. 360267
Accept (circled) / Reject

Contact Information		Project Information	
Company: Terracon/Ridgeland	Phone: (769) 233-2072	Project Name: Lazy U ACM/LBP	
Contact: Brad McKnight	Cell Phone: (601) 497-5795	Project Location: Grenada MS	
Account #: CO-85	E-mail: brad.mcknight@terracon.com	Project ID: EB237108	
SAMPLED BY: Name:	Date: 7/11/23	P.O. Number: EB237108	

Report Results (☑ one box)
QuanTEM Website
Email brad.mcknight@terracon.com
Other ____

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
	7/12/23 [illegible]	FEDEX	[signature]	7/13/23 @ ~~12:46~~ 9:16 CH

REQUESTED SERVICES (Please ☑ the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis: Pb			Units: PPM	Wt %	mg / l	µg /ft²	µg / m³	mg / cm²
1	L-1	Main Building Exterior Tan			B	✔				✔				
2	L-2	Main Building Exterior Tan			B	✔				✔				
3	L-3	Main Building Exterior White			B	✔				✔				
4	L-4	Main Building Exterior White			B	✔				✔				
5	L-5	Main Building Interior Tan			B	✔				✔				
6	L-6	Main Building Interior Tan			B	✔				✔				
7	L-7	Main Building Interior White			B	✔				✔				
8	L-8	Main Building Interior White			B	✔				✔				
9	L-9	Quonset Hut Exterior White			B	✔				✔				
10	L-10	Quonset Hut Exterior White			B	✔				✔				
11	L-~~12~~ 11	Quonset Hut Exterior Gray			B	✔				✔				
12	L-~~13~~ 12	Quonset Hut Exterior Gray			B	✔				✔				

CH 7/17/23

Sample Matrix Codes	
A	Soil
B (circled)	Paint Chips
C	Surface / Dust Wipes
D	Bulk Miscellaneous
E	Air Cassette

TURNAROUND TIME	
	Same Day
	24 - Hour
✔	3 - Day
	5 - Day

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"
Please Note - UPS and USPS are NOT available for Saturday Delivery

APPENDIX E

PHOTOGRAPH LOG

Photo 1: (HA-01) Main Building Roof Shingles with Felt

Photo 2: (HA-02) Main Building Exterior Siding

Photo 3: (HA-03) Main Building Window Glazing

Photo 4: (HA-04) Main Building 12” x 12” Tan Floor Tile with Mastic

Photo 5: (HA-05) Main Building Brown Cove Base with Mastic

Photo 6: (HA-06) Main Building Gypsum Wallboard System

Photo 7: (HA-07) Main Building Ceiling Surface Material

Photo 8: (HA-08) Main Building Restroom Caulking

Photo 9: (HA-09) Quonset Hut Gypsum Wallboard System

Photo 10: (HA-10) 1 Quonset Hut 12" x 12" Floor Tile with Mastic

Photo 11: (HA-11) Quonset Hut Tan Cove Base with Mastic

Photo 12: (HA-12) Quonset Hut Wall and Ceiling Insulation

Photo 13: Main Building Exterior Tan Paint

Photo 14: Main Building Exterior White Paint

Photo 15: Main Building Interior Tan Paint

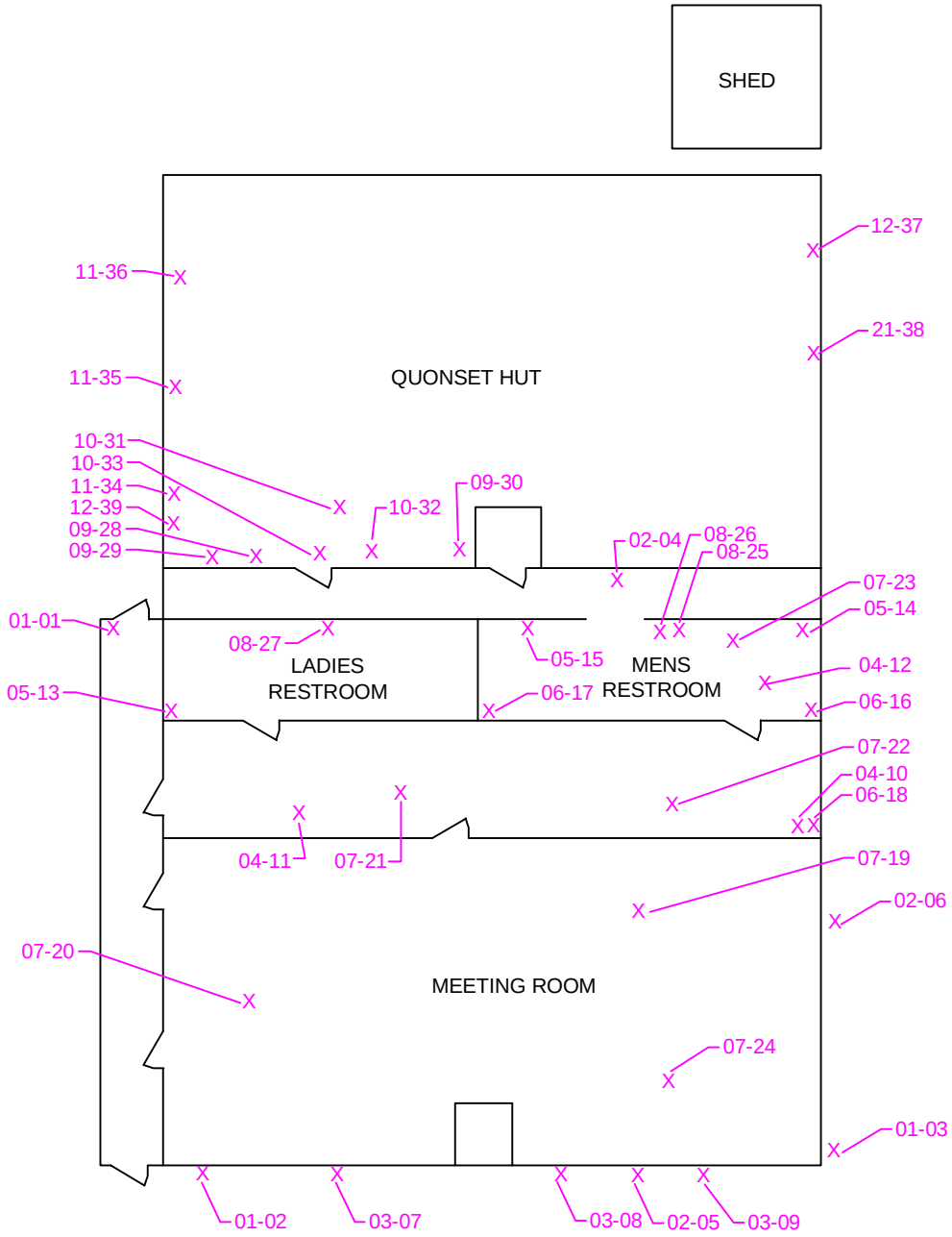
Photo 16: Main Building Interior White Paint

Photo 17: Quonset Hut Exterior White Paint

Photo 18: Quonset Hut Exterior Gray Paint

APPENDIX F

SAMPLE LOCATION PLANS



LEGEND

X SAMPLE LOCATION

N

DIAGRAM IS INTENDED FOR GENERAL USE ONLY, AND IS NOT FOR CONSTRUCTION PURPOSES. LOCATIONS ARE APPROXIMATE.

Project Mngr:	BM
Approved By:	BM
Checked By:	BM
Drawn By:	DBM

Project No.	EB237108
Scale:	NTS
Date:	08/08/2023
File No.	EB237108E1.DWG

Terracon
859 REAR ORCHARD RD RIDGELAND, MS 39157
PH. (601) 956-4467 TERRACON.COM

ACM SAMPLE LOCATION DIAGARM

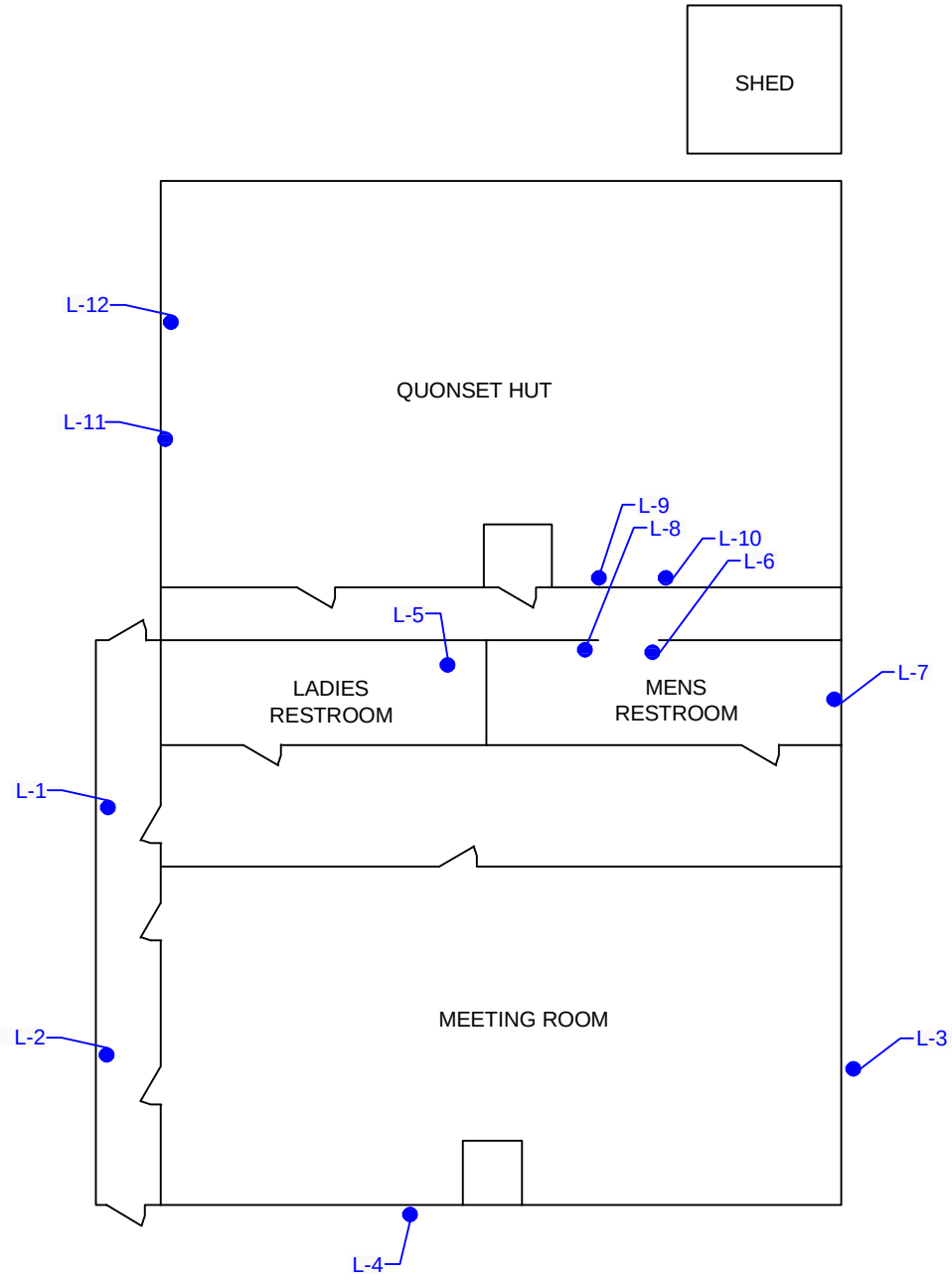
JPS LAZY U FACILITY

6190 HIGHWAY 18

JACKSON, MISSISSIPPI

EXHIBIT

1



LEGEND

● SAMPLE LOCATION

N

DIAGRAM IS INTENDED FOR GENERAL USE ONLY, AND IS NOT FOR CONSTRUCTION PURPOSES. LOCATIONS ARE APPROXIMATE.

Project Mngr:	BM
Approved By:	BM
Checked By:	BM
Drawn By:	DBM

Project No.	EB237108
Scale:	NTS
Date:	08/08/2023
File No.	EB237108E1.DWG

Terracon
859 REAR ORCHARD RD RIDGELAND, MS 39157
PH. (601) 956-4467 TERRACON.COM

LCP SAMPLE LOCATION MAP

JPS LAZY U FACILITY

6190 HIGHWAY 18

JACKSON, MISSISSIPPI

EXHIBIT

2

APPENDIX G

CERTIFICATIONS

State of Mississippi

Department of Environmental Quality

Office of Pollution Control

Certificate of Licensure

In accordance with the Asbestos Abatement Accreditation and Certification Act,
Enacted as 1989 Mississippi Law, Chapter 505

Be it known that

Brad McKnight

Having submitted acceptable evidence of qualifications and
training and other appropriate information, is hereby granted this

Asbestos Inspector

Certification

Greg Mallery

Chief, Asbestos & Lead Branch

Certificate No.: ABI-00001685
Expiration Date: Jun 7th, 2024
Training Expires on Jun 7th, 2024

41468 LIC20230001

GENERAL NOTES/SPECIFICATIONS

1. ALL DUCT IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED ABOVE SUSPENDED CEILING UNLESS OTHERWISE NOTED.
2. VERIFY LOCATION OF NEW EQUIPMENT AND APPURTENANCES.
3. COORDINATE THE HEATING, VENTILATION, AND AIR CONDITIONING WORK WITH THE WORK OF ALL OTHER TRADES INVOLVED WITH THIS PROJECT.
4. SEE ARCHITECTURAL CEILING PLAN FOR EXACT LOCATION OF CEILING AIR DEVICES, AIR DEVICE LOCATION ON MECHANICAL SHEETS ARE FOR QUANTITY AND REFERENCE.
5. ALL DUCT DIMENSIONS ARE SHEET METAL DIMENSIONS.
6. ALL SYSTEMS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE 2018 INTERNATIONAL MECHANICAL CODE.
7. PROVIDE SUBMITTALS FOR ALL EQUIPMENT AND AIR DEVICES FOR APPROVAL.
8. COORDINATE DUCTWORK INSTALLATION WITH ALL OTHER TRADES.
9. THERMOSTATS SHALL BE MOUNTED AT 48" AFF.
10. BALANCE EACH NEW FAN AND AIR DEVICE FOR INDICATED AIRFLOW. PROVIDE A TABULATION OF THESE AIRFLOWS. TAB CONTRACTOR SHALL BE NEBB OR AABC CERTIFIED.
11. DUCTWORK AND RELATED SHEET METAL WORK:
    A. CLASSIFICATION: LOW PRESSURE DUCTWORK SHALL BE LIMITED TO SYSTEMS OPERATING AT STATIC PRESSURES OF TWO INCHES OF WATER OR LESS.
    B. MATERIALS: GALVANIZED SHEET WITH A COATING CLASS OF G90 CONFORMING TO ASTM A653. LIQUID DUCT SEALANT SHALL BE BRUSH OR FLOW GUN GRADE WHICH REMAINS FLEXIBLE AFTER AIR CURING, 3M TYPE 800 OR EQUAL.
    C. CONSTRUCTION: CONSTRUCT DUCTWORK WITH CAREFUL, NEAT, AND ACCURATE WORKMANSHIP AND AIRTIGHT/WATERTIGHT JOINTS AND SEAMS. CONSTRUCT DUCTWORK AND INSTALL IN ACCORDANCE WITH LATEST EDITION OF SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC.) "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE", INCLUDING ALL APPLICABLE RECOMMENDATIONS OF THESE STANDARDS.
12. FLEXIBLE DUCTWORK SHALL BE EQUAL TO FLEXMASTER TYPE 1NI-C, UNINSULATED, CONNECTOR RATED. LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED 3 FEET.
13. INSULATE REFRIGERANT SUCTION LINES WITH ½" THICK AP ARMAFLEX OR EQUAL.

MECHANICAL LEGEND

EF-1	EXHAUST FAN	(1)	DIFFUSER TYPE
DN	DOWN		EXHAUST AIR DEVICE
EAD	EXHAUST AIR DUCT		EXHAUST DUCT IN SECTION
TAD	TRANSFER AIR DUCT	10x6	RECTANGULAR DUCT (WIDTHxDEPTH)
AFF	ABOVE FINISHED FLOOR	8Ø	ROUND DUCTWORK
CFM	CUBIC FEET PER MINUTE	WH-1	ELECTRIC WALL HEATER
(T)	THERMOSTAT	107	ROOM NUMBER
TYP.	TYPICAL	(1)	KEYNOTE
	AIRFLOW DIRECTION		

WALL HEATER SCHEDULE

MARK	KW	VOLT/ PHASE	STAGES	REMARKS
WH-1	3.0	240/1	1	(1) (2) (3) (4)

(1) EQUAL TO INDEECO WAI SERIES ARCHITECTURAL HEATER (BRONZE).
(2) PROVIDE BUILT-IN DISCONNECT.
(3) PROVIDE BUILT IN TAMPERPROOF THERMOSTAT.
(4) PROVIDE SURFACE MOUNTING BOX.

OUTDOOR UNIT SCHEDULE

MARK	MIN SEER	REFRIG. TYPE	TOTAL COOLING CAPACITY BTUH	TOTAL HEATING CAPACITY BTUH	ELECTRICAL DATA			EQUAL TO TRANE/MITSUBISHI MODEL NO.	REMARKS
					VOLTAGE/ PHASE	MCA	MOP		
ODU-1	20.8	R-410A	12,000	18,000/11,100	208-230/1	11.0	15	TRUZA0121KA70NA	1,2,3,4,5
ODU-2	20.8	R-410A	12,000	18,000/11,100	208-230/1	11.0	15	TRUZA0121KA70NA	1,2,3,4,5

REMARKS
1. UNIT SHALL BE EQUAL TO TRANE/MITSUBISHI MODEL SCHEDULED.
2. REQ'D TOTAL COOLING CAPACITY BASED ON 80°F/50% RH EAT AND 95°F DB AMBIENT.
3. REQ'D HEATING CAPACITIES SHOWN BASED ON 70°F EAT AND 47°F/17°F OUTDOOR EAT.
4. DISCONNECT BY ELECTRICAL.
5. UNIT SHALL HAVE ONE YEAR PARTS AND 10 YEAR COMPRESSOR WARRANTY.

INDOOR UNIT SCHEDULE

MARK	SA CFM H / M / L	REFRIG. TYPE	TOTAL COOLING CAPACITY BTUH	TOTAL HEATING CAPACITY BTUH	ELECTRICAL DATA			EQUAL TO TRANE/MITSUBISHI MODEL NO.	REMARKS
					VOLTAGE/ PHASE	MCA	MOP		
IDU-1	380/335/290	R-410A	12,000	18,000/11,100	208-230/1	1.0	15	TPKA0A012.1HA70A	1,2,3,4,5,6,7
IDU-2	380/335/290	R-410A	12,000	18,000/11,100	208-230/1	1.0	15	TPKA0A012.1HA70A	1,2,3,4,5,6,7

REMARKS
1. UNIT SHALL BE EQUAL TO TRANE/MITSUBISHI MODEL SCHEDULED.
2. REQ'D TOTAL COOLING CAPACITY BASED ON 80°F/50% RH EAT AND 95°F DB AMBIENT.
3. REQ'D HEATING CAPACITIES SHOWN BASED ON 70°F EAT AND 47°F/17°F OUTDOOR EAT.
4. PROVIDE SIMPLE WIRED CONTROLLER.
5. FURNISH OPTIONAL WHITE DISCONNECT SWITCH.
6. INDOOR UNIT POWERED FROM OUTDOOR UNIT.
7. PROVIDE CONDENSATE PUMP MOUNTED WITHIN UNIT.

FAN SCHEDULE

MARK	SERVICE	CFM	MAX SONE RATING	EST. S.P.W.G.	MOTOR H.P.	VOLTS/ PHASE	FAN WHEEL			DISCHARGE	TYPE	REMARKS
							MAX. RPM	DRIVE	DIA. IN.			
EF-1	STOR/WATER/ELEC 202	140	3.0	0.25	128 WATTS	120/1	1050	DIRECT	-	WALL	CEILING	(1) (2)

(1) EQUAL TO GREENHECK MODEL SP-B150. PROVIDE INTEGRAL DISCONNECT, BACKDRAFT DAMPER, LINE VOLTAGE THERMOSTAT AND SPEED CONTROLLER MOUNTED ON FAN..
(2) CONTROL WITH LINE VOLTAGE THERMOSTAT.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	NECK SIZE	FACE SIZE	MAX. N.C. RATING	MAXIMUM S.P. DROP, IN.	REMARKS
(1)	22x22	24x24	30	0.1	(1)
(2)	10x10	-	30	0.1	(2)
(3)	8"Ø	24x24	30	0.1	(3)

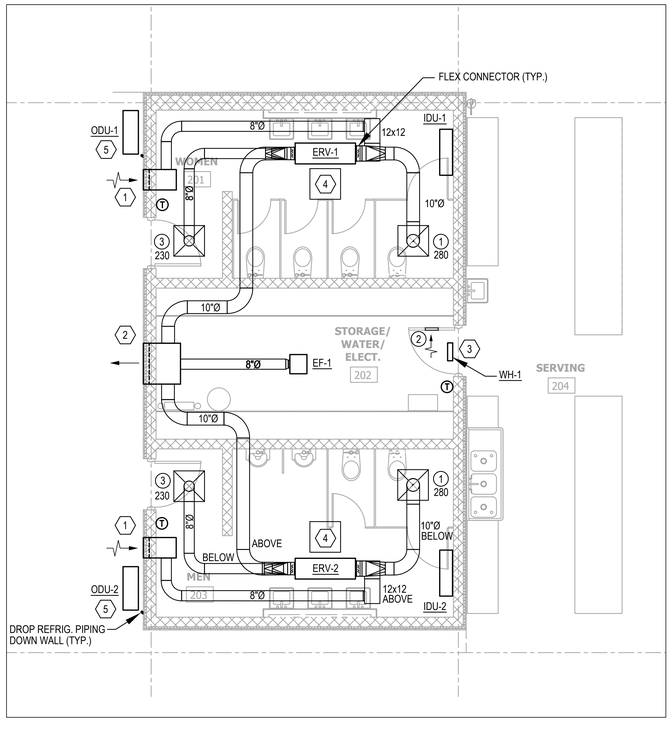
(1) TRANSFER/EXHAUST AIR DEVICE TO BE EGG CRATE TYPE EQUAL TO TITUS 45F. PROVIDE SQUARE TO ROUND ADAPTER.
(2) DOOR GRILLE TO BE EQUAL TO TITUS CT-700L WITH AUXILIARY FRAME.
(3) SUPPLY GRILLE TO BE EQUAL TO TITUS TMS.

ENERGY RECOVERY UNIT SCHEDULE

DESIGN SUMMER AMBIENT CONDITIONS: 97°F db, 77°F wb
DESIGN SUMMER INSIDE CONDITIONS: 75°F db, 62°F wb
DESIGN WINTER AMBIENT CONDITIONS: 10°F db
DESIGN WINTER INSIDE CONDITIONS: 72°F db, 56.0°F wb

MARK	SERVICE	ELECTRICAL DATA			OUTSIDE AIR CFM	EST. EXT. S.P.W.G.	MIN. NOM. FAN H.P.	EXHAUST AIR FAN			SUMMER CONDITIONS				WINTER CONDITIONS		EQUAL TO GREENHECK MODEL NO.	REMARKS
		VOLTAGE/ PHASE	MCA	MOP				EXHAUST AIR CFM	EST. EXT. S.P.W.G.	MIN. NOM. FAN H.P.	ENT. AIR TEMP.		LVG. AIR TEMP.		ENT. AIR TEMP.	LVG. AIR		
											°F db	°F wb	°F db	°F wb	°F db	°F db		
ERV-1	WOMENS TOILET	115/1	6.4	15.0	230	0.5	1/4	280	0.5	1/4	97.0	77.0	80.4	68.2	10	56.8	MINICORE-5-VG-F	1,2,3
ERV-2	MENS TOILET	115/1	6.4	15.0	230	0.5	1/4	280	0.5	1/4	97.0	77.0	80.4	68.2	10	56.8	MINICORE-5-VG-F	1,2,3

REMARKS
1. INTERLOCK ERV WITH OCCUPANCY SENSOR (BY DIV 26).
2. PROVIDE ERV WITH UNIT MOUNTED CONTROL PANEL CONTAINING DOOR INTERLOCKING DISCONNECT SWITCH, MOTOR STARTERS, CONTROL CIRCUIT FUSING, CONTROL TRANSFORMER FOR 24 VAC CONTROLS, AND A TERMINAL STRIP. COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING DISCONNECT SWITCH.
3. PROVIDE ERV WITH 2"- MERV 8 FILTERS.



KEYNOTE LEGEND

(1) 16x16 LOUVER EQUAL TO RUSKIN ELF375DXH WITH FLANGE MOUNTING, BIRDSCREEN AND 12" SLEEVE. INSTALL NONMETALLIC BACKDRAFT DAMPER EQUAL TO RUSKIN NMS2 IN SLEEVE. LOUVER COLOR SHALL BE DARK BRONZE ANODIZED. MOUNT BOTTOM OF LOUVER AT 11' 4" AFF. INSTALL SHEET METAL BLANKOFF ON BACK OF SLEEVE AND CONNECT INTAKE DUCT TO BACK. LOUVER SHALL BE A MINIMUM OF 10'-3" FROM EXHAUST LOUVER..

(2) 32x16 LOUVER EQUAL TO RUSKIN ELF375DXH WITH FLANGE MOUNTING, BIRDSCREEN AND 12" SLEEVE. LOUVER COLOR SHALL BE DARK BRONZE ANODIZED. MOUNT BOTTOM OF LOUVER AT 12' 8" AFF. INSTALL 14" DEEP FULL SIZE SHEET METAL PLENUM ON BACK OF SLEEVE AND CONNECT EXHAUST DUCTS AS SHOWN.

(3) MOUNT BOTTOM OF ELECTRIC WALL HEATER ABOVE DOOR AT 8' AFF. INSTALL WALL MOUNTING SLEEVE AS SCHEDULED.

(4) 24"x24" ACCESS PANEL INCEILING. COORDINATE WITH LIGHTS..

(5) BOLT ODU-1 AND 2 TO CONCRETE SIDEWALK.

1 HVAC PLAN VIEW
1/4" = 1'-0"

1 ENTIRE SHEET REVISED

Allen&Hoshall PLLC
engineers • architects • surveyors

Allen & Hoshall, PLLC
Architect, Michel Lebel
1661 International Drive Memphis, TN 38120
901 820 0820 fax 866 270 6330

ROUND L. THOMPSON REGISTERED PROFESSIONAL ENGINEER 5/9/24 11596 STATE OF MISSISSIPPI

ENVIRONMENTAL LEARNING CENTER

6190 MS - 18
JACKSON, MS 39209

JACKSON PUBLIC SCHOOLS

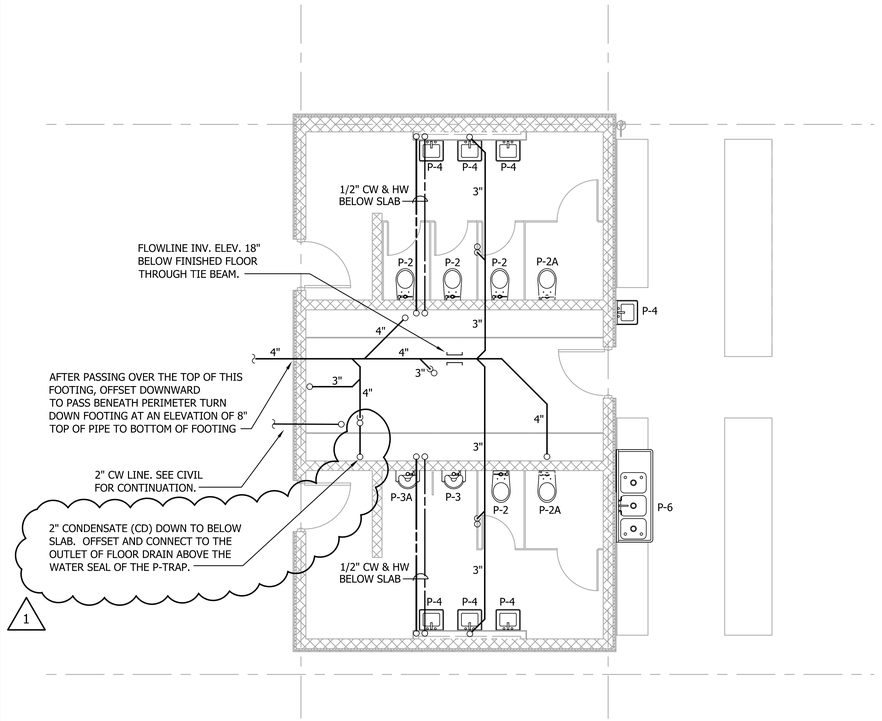
No.	Revision Description	Date
1	ADDENDUM 1	05/31/24

GENERAL NOTES, LEGEND, SCHEDULES AND HVAC PLAN

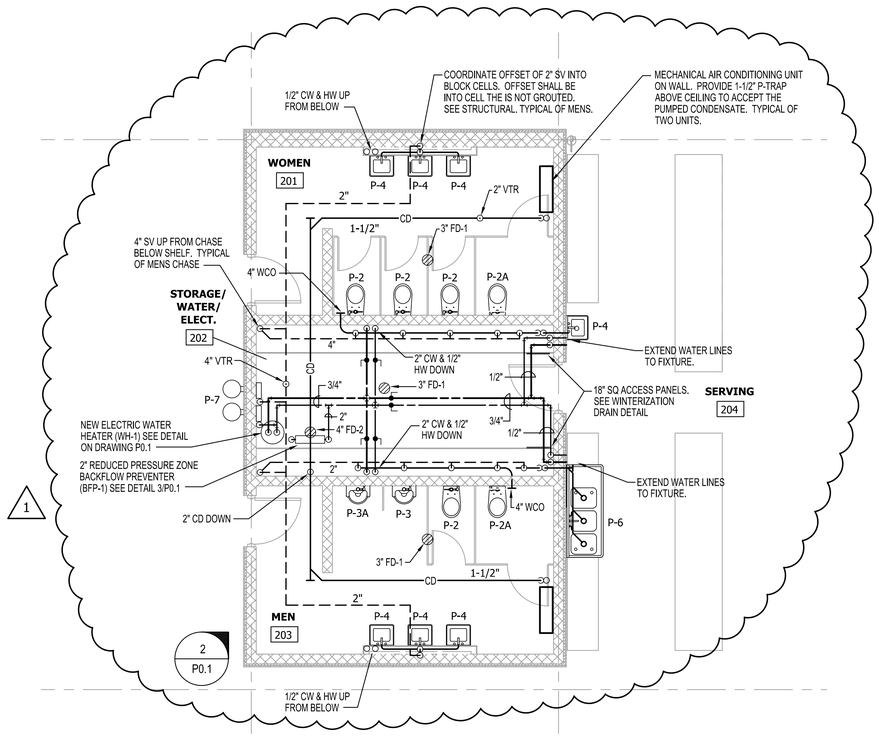
JOB NO: 63367 DRAWN: RLT
DATE: 05.09.24 BID SET

M1.1

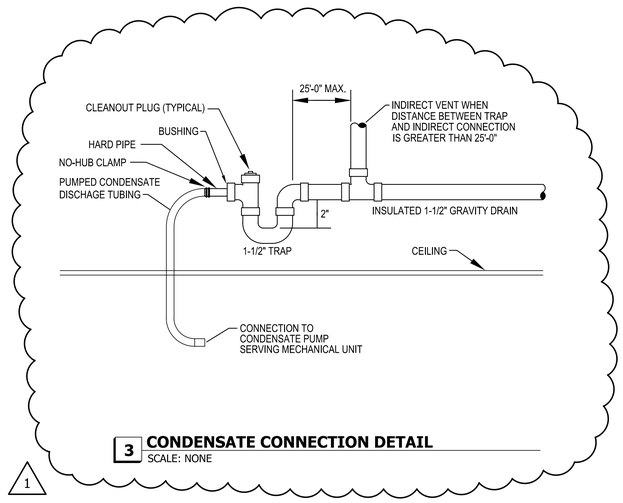
Plotted on: 5/3/2024 4:02:19 PM



1 BELOW SLAB PLAN VIEW
SCALE: 1/4" = 1'-0"



2 ABOVE SLAB PLAN VIEW
SCALE: 1/4" = 1'-0"



3 CONDENSATE CONNECTION DETAIL
SCALE: NONE

Allen&Hoshall PLLC
engineers • architects • surveyors

Allen & Hoshall, PLLC
Architect, Michel Lebel
1661 International Drive Memphis, TN 38120
901 820 0820 fax 866 270 6330

ENVIRONMENTAL LEARNING CENTER

6190 MS - 18
JACKSON, MS 39209

JACKSON PUBLIC SCHOOLS

No.	Revision Description	Date
1	ADDENDUM 1	05/31/24

ABOVE AND BELOW SLAB PLAN VIEW - PLUMBING

JOB NO: 63367 DRAWN: ART
DATE: 05.09.24 BID SET

P1.2

Plotted on: 5/3/2024 4:02:19 PM

LEGEND

	POLE MOUNTED LED FIXTURE
	WALL MOUNTED LED FIXTURE
	2' X 2' SURFACE MOUNTED LED FIXTURE – SEE ELECTRICAL
	2' X 2' RECESSED MOUNTED LED FIXTURE – SEE ELECTRICAL
	CATENARY LED FIXTURE/ COLUMN MOUNTED LED FIXTURE – SEE E SHEETS
	DUPLEX RECEPTACLE, MTD. 18" AFF, UOI
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, MTD. 18" AFF, UOI
WP	WEATHERPROOF WHILE-IN-USE COVER, MTD. 18" AFF, UOI
J	JUNCTION BOX
	120/240V 1PH, 3W PANELBOARD – SEE SINGLE LINE DIAGRAM
	WIRE IN CONDUIT RUN OVERHEAD – CONCEALED IN OR ABOVE CEILING
	INDICATES GROUNDING CONDUCTOR
	WIRE IN CONDUIT RUN BELOW GRADE
MTD	MOUNTED
PND	PENDANT
WP	NEMA-3R RATED ENCLOSURE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
UOI	UNLESS OTHERWISE INDICATED
AC	ABOVE COUNTER – COORDINATE WITH ARCHTECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
EX	EXISTING
XFMR	TRANSFORMER
	NON- FUSED DISCONNECT SWITCH – SIZE AS INDICATED
	FUSED DISCONNECT SWITCH – SIZE AS INDICATED

2 LEGEND
N.T.S

SPECIFICATIONS

GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE.

COMPLY WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES.

USE ONLY COPPER CONDUCTORS, AS NOTED. MINIMUM SIZE #12AWG. USE TYPE THWN, UOI. ALL CIRCUITS SHALL BE COLOR CODED.

USE MINIMUM 1/2 INCH CONDUIT. USE SO CORD FOR DROPS. USE EMT WHERE CONCEALED IN WALLS. USE IMC WHERE EXPOSED. USE RIGID PVC IN SLAB AND UNDERGROUND. PROVIDE PULL CORDS IN ALL EMPTY CONDUITS. COORDINATE WITH STRUCTURAL. USE CAST BOXES WHERE EXPOSED. USE APPROPRIATE ANCHORS FOR WEIGHTS INVOLVED. PAINT EXPOSED CONDUITS AND BOXES TO MATCH STRUCTURE.

ALL WORK SHALL BE COORDINATED WITH OWNERS REPRESENTATIVE. ARRANGE ALL ELECTRICAL WORK TO INTERFERE AS LITTLE AS POSSIBLE WITH OWNER'S NORMAL OPERATIONS. DO NOT INTERRUPT EXISTING ELECTRICAL SERVICE AT ANY TIME WITHOUT OWNERS PRIOR APPROVAL. AFTER AN ELECTRICAL SERVICE INTERRUPTION HAS BEEN MADE, MAKE ALL NECESSARY CONNECTIONS AND ALTERATIONS, AND RESTORE ELECTRICAL SERVICE AS QUICKLY AS POSSIBLE. AT NO EXTRA COST TO OWNER, PROVIDE TEMPORARY ELECTRICAL CONNECTIONS AND OTHER ELECTRICAL WORK AS REQUIRED TO MAINTAIN CONTINUITY OF ELECTRICAL SERVICE.

REMOVE ALL OWNER-SELECTED ELECTRICAL MATERIALS AND ELECTRICAL EQUIPMENT WITHOUT UNNECESSARY DAMAGE THERETO, AND SAFELY STORE THEM AT LOCATIONS DESIGNATED BY OWNER.

ELECTRICIAN IS RESPONSIBLE FOR ALL FINAL ELECTRICAL CONNECTIONS FOR OWNER PROVIDED EXTERIOR BUILDING SIGNS. SIGNS MUST BE CONNECTED WITHIN 48 HOURS OF INSTALLATION AND TESTED FOR NIGHT VIEWING. ADVISE OWNER IF THERE ARE ANY PROBLEMS WITH SIGN OPERATING PROPERLY.

BEFORE COMMENCING ELECTRICAL WORK FOR ELECTRICALLY OPERATED EQUIPMENT, ELECTRICAL SECTION SHALL: CHECK HORSEPOWER AND/OR ELECTRICAL RATING OF EACH INDIVIDUAL ELECTRICALLY OPERATED EQUIPMENT ITEMS, REGARDLESS OF WHO FURNISHES AND/OR INSTALLS THAT EQUIPMENT: AND ADJUST SIZES OF ALL APPLICABLE FEEDERS, CIRCUIT BREAKERS, SWITCHES, PROTECTIVE DEVICES, AND OTHER ELECTRICAL DEVICES FURNISHED BY ELECTRICAL SECTION, AS REQUIRED TO PROVIDE PROPER PROTECTION AND SATISFACTORY OPERATION OF THE ELECTRICALLY OPERATED EQUIPMENT ACTUALLY INSTALLED. THIS INCLUDES INCREASING TO THE NEXT LARGER SIZE, OR DECREASING TO NEXT SMALLER SIZE, ALL FEEDERS, CIRCUIT BREAKERS, SWITCHES, PROTECTIVE DEVICES, AND OTHER ELECTRICAL DEVICES INVOLVED, AS REQUIRED TO MATCH CAPACITIES OF CORRESPONDING ELECTRICALLY OPERATED EQUIPMENT ACTUALLY INSTALLED, EXCEPT THAT NO SIZES SHALL BE DECREASED WITHOUT APPROVAL.

ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE UL LISTED, COMMERCIAL GRADE.

ALL DEVICES AND DEVICE PLATE COLORS SHALL BE BLACK AND BE MANUFACTURED BY BRYANT, HUBBELL, ARROWHART, LEVITON, SIERRA, EAGLE SPECIFICATION LINE OR G.E. ALL

CONTRACTOR SHALL INSPECT ALL EXISTING RATED WALLS AND PROVIDE SLEEVES FOR ALL PENETRATIONS. ALL PENETRATIONS SHALL BE SEALED AS REQUIRED.

USE BLACK DEVICE STANDARD COVERPLATES, UON. CONTRACTOR SHALL VERIFY COLOR REQUIREMENTS WITH OWNER'S REPRESENTATIVE.

SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.

CLEARLY TYPEWRITE ON EACH PANELBOARD DIRECTORY CARD THE DESIGNATIONS OF THE FIXTURES, OUTLETS, AND EQUIPMENT SERVED BY EACH DEVICE IN PANELBOARD. IDENTIFY EACH ENTIRE PANELBOARD. ASSEMBLY WITH A ONE INCH MINIMUM HEIGHT LAMINATED PLASTIC NAMEPLATE ENGRAVED WITH 1/2 INCH MINIMUM EIGHT CHARACTERS SHOWING PANELBOARD DESIGNATION, AND SECURELY ATTACHED TO THE INSIDE OF PANELBOARD DOOR OVER DIRECTORY CARD.

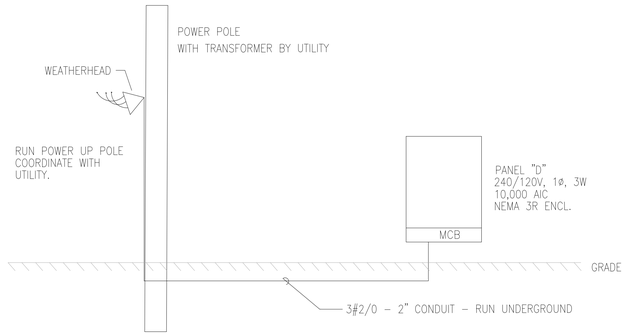
CONTRACTOR SHALL SUBMIT TO THE ARCHITECT A MATERIALS SUBMITTAL CONSISTING OF CUT SHEETS OF ALL PANELS, CONDUIT, WIRE, DEVICES, LIGHT FIXTURES AND EQUIPMENT.

1 SPECIFICATIONS
N.T.S

LIGHTING FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL NO.	MOUNTING	FINISH	WATTAGE	VOLTAGE	COMMENTS
A	LIGMAN	UJE – 95111 – 39w – VW – W30 – 06 – A90521	CATENARY	BRONZE	39 W	120 V	CONFIRM FINISH AND SUSPENSION LENGTH. CATENARY SUSPENSION SYSTEM PER MANUFACTURERS RECOMMENDATION.
B	LIGMAN	UJE – 30391 – 39w – VW – W30– 06 – RPA	POLE	BRONZE	39 W	120 V	CONFIRM FINISH AND MOUNTING HEIGHT
C	COOPER	FLR – WL – 22 – L3C3 –35/50 – CA125 – DFCL-2424W-U	RECESSED	WHITE	41.5 W	120 V	
D	LIGMAN	UJE – 30391 – 39w – VW – W30 – 06	WALL	BRONZE	39 W	120 V	CONFIRM FINISH, MOUNTING HEIGHT, AND ROUND POLE DIMENSIONS
E	VISUAL COMFORT & Co.	6LFR96MBKD	DOWNROD	BLACK	300 W	120 V	CONFIRM FINISH AND MOUNTING HEIGHT
F	COOPER	22FP3235C-FPSURF22	SURFACE	WHITE	30 W	120 V	

3 LIGHTING FIXTURE SCHEDULE
N.T.S



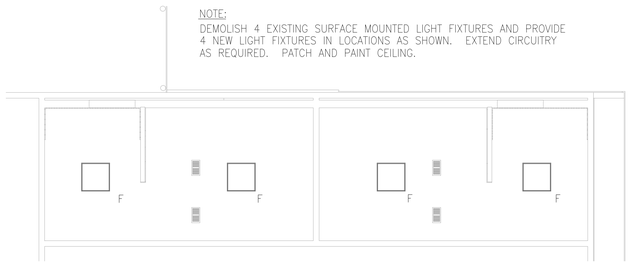
4 SINGLE-LINE DIAGRAM
N.T.S

PANELBOARD D SCHEDULE

125 AMP MAIN CKT. BREAKER, 120/240 VOLT, 1 PHASE, 3 WIRE, 10 K.A.I.C. MINIMUM, SURFACE MOUNTED, 60HZ

LOAD SERVED	LOAD (VA) A	LOAD (VA) B	BKR. SIZE	CKT. NO.	PHASE A	PHASE B	CKT. NO.	BKR. SIZE	LOAD (VA) A	LOAD (VA) B	LOAD SERVED
EF-1	700		20/1	1			2	20/1	600		LIGHTS
RECEPTACLES		900	20/1	3			4	20/1		680	LIGHTS
RECEPTACLES	180		20/1	5			6	20/2	1500		WH-1
RECEPTACLES		180	20/1	7			-	-		1500	-
RECEPTACLES	180		20/1	9			10	20/2	1080		ODU-1
RECEPTACLES		180	20/1	11			-	-		1080	-
RECEPTACLES	720		20/1	13			14	30/2	1080		ODU-2
RECEPTACLES		720	20/1	15			-	-		1080	-
CEILING FANS	900		20/1	17			18	60/2	4500		WATER HEATER
LIGHTS		920	20/1	19			-	-		4500	-
ERU-1	576		15/1	21			22	20/1			SPARE
SEWER PLANT		1200	20/1	23			24	20/1			SPARE
ER-2	576		15/1	25			26	20/1			SPARE
SPARE			20/1	27			28	20/1			SPARE
SPARE			20/1	29			30	20/1			SPARE
SPARE			20/1	31			32	20/1			SPARE
SPARE			20/1	33			34	20/1			SPARE
SPARE			20/1	35			36	20/1			SPARE
SPARE			20/1	37			38	20/1			SPARE
SPARE			20/1	39			40	20/1			SPARE
SPARE			20/1	41			42	20/1			SPARE
SUBTOTAL	3832	4100							8760	8840	
TOTALS					PHASE A 12592	PHASE B 12940			TOTAL 25532 VA		TOTAL AMPS: 106.38

5 PANEL SCHEDULE
N.T.S



6 ALTERNATE #1 - EXISTING BATHROOM LIGHTING
SCALE: 1/4"=1'-0"

Allen&Hoshall PLLC
engineers • architects • surveyors

Allen & Hoshall, PLLC
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MICHEL S. LEBEL REGISTERED PROFESSIONAL ENGINEER 14493 STATE OF MISSISSIPPI 5/3/24

ENVIRONMENTAL LEARNING CENTER

6190 MS - 18
JACKSON, MS 39209

JACKSON PUBLIC SCHOOLS

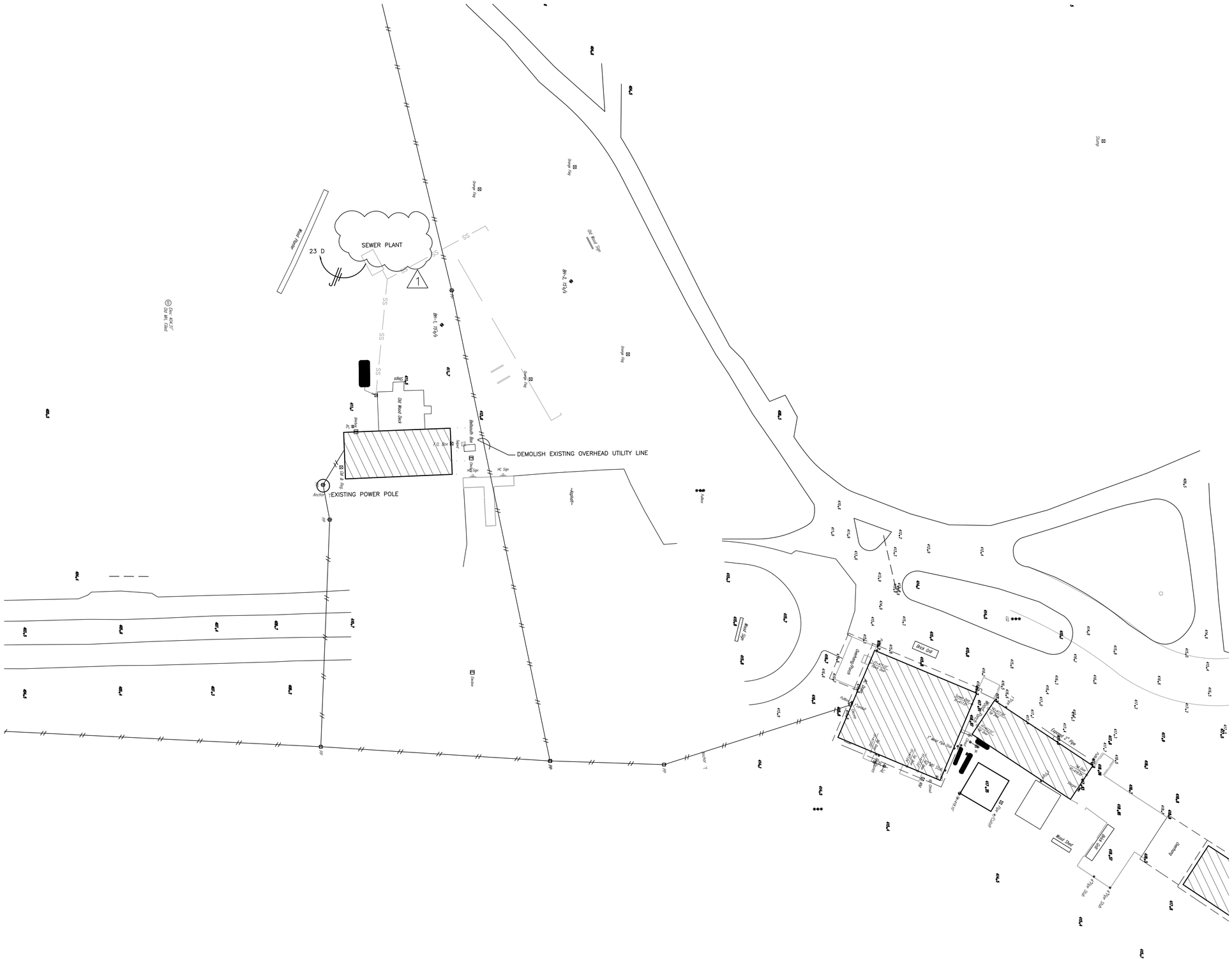
No.	Revision Description	Date
1	ADDENDUM 1	5.31.24

SPECIFICATIONS, LEGEND, LIGHT FIXTURE SCHEDULE, PANEL SCHEDULE AND ALT#1

JOB NO: 63367 DRAWN:EMI
DATE: 05.09.24 BID SET

E0.1

Plotted on: 5/3/2024 4:02:19 PM



6 SITE PLAN - ELECTRICAL

1

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No.	Revision Description	Date
1	ADDENDUM 1	5.31.24

SITE PLAN - ELECTRICAL

JOB NO: 63367   DRAWN:
DATE: 05.09.24   BID SET

E1.1

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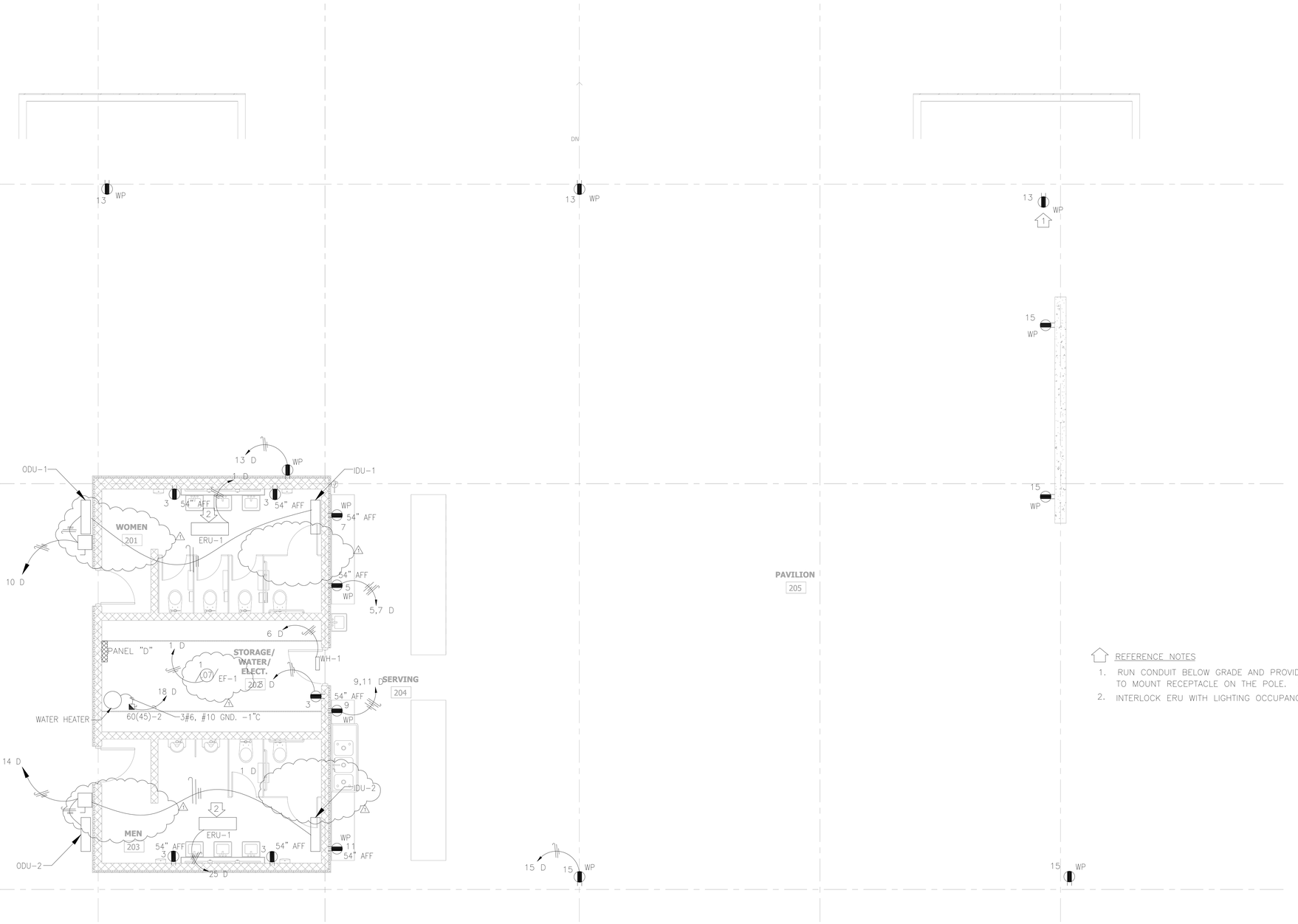

REFERENCE NOTES

1. RUN CONDUIT BELOW GRADE AND PROVIDE ROUND POLE ADAPTER TO MOUNT RECEPTACLE ON THE POLE. (TYPICAL AT POLE)
2. INTERLOCK ERU WITH LIGHTING OCCUPANCY SENSOR.

1 POWER PLAN
1/4" = 1'-0"

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No.	Revision Description	Date
1	ADDENDUM 1	5.31.24

POWER PLAN

JOB NO: 63367 DRAWN: EMI
DATE: 05.09.24 BID SET

E3.1