

ACTIVE LEARNING CENTER



April 2024 · Final Report

The contents of this document are not for regulatory approval, permitting, or construction

INTRODUCTION

ACILITY PROGRAMMING AND CONSULTING (FPC) was engaged to prepare a program of requirements for the new Active Learning Center at Sam Houston State University. The program is intended to give the design team a workbook from which to design. The program lists all of the technical requirements along with sizing and adjacencies for each of the individual spaces required by the tenants of the building for both current and projected needs. The program is not intended to stunt the creativity of the design team by advocating any design style or procedure. All diagrams and/or drawings contained herein are intended to illustrate the relationships involved, and are provided as examples to augment the text. The design team should not consider any of the diagrams to be a design directive. The summary program document is structured into sections as described below:

- Sign-Offs contains the required signatures for approval of the architectural program
- The Executive Summary is a brief overview of the entire project, including location, both spatial and non-building related requirements, and project schedule
- Vision + Goals describes why the project is required and affirms that it is in keeping with the stated mission and direction of the University
- Site Context provides a brief analysis of site requirements to inform design
- Space + Adjacency Requirements deals with the space requirements and functional relationships portion of the program
- **Project Cost** provides a cost estimate for the improvements based upon the program description

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DEFINITIONS AND TERMINOLOGY

ABBREVIATIONS

- ABIII Academic Building III
- ADA Americans with Disabilities Act
- ASF Assignable Square Feet
- CFCI Contractor Furnished, Contractor Installed
- CMU Concrete Masonry Unit
- GFCI Ground Fault Circuit Interrupter
- GSF Gross Square Feet
- **GWB** Gypsum Wallboard (sheetrock)
- HVAC Heating, Ventilation, and Air Conditioning
- LEED Leadership in Energy and Environmental Design
- MEP Mechanical, Electrical, and Plumbing
- NASF Non-Assignable Square Feet
- OFCI Owner Furnished, Contractor Installed
- **OFOI** Owner Furnished, Owner Installed
- PACE Professional & Academic Center for Excellence
- SHSU Sam Houston State University

DEFINITIONS

- **Assignable Square Feet:** The usable floor area of a space up to the face of the wall on the side of the space
- **Gross Square Feet:** The area within the outside face of the exterior walls of the building which includes assign- able square feet, non-assignable square feet, building service area, circulation area, mechanical area, and structural area
- Non-Assignable Square Feet: Occupiable spaces, e.g. telecommunication closets, janitor closets, required for the building's functions, but not usable space for the owner's program activities (includes building service, circulation, and mechanical areas)
- Non-Occupiable Area: Also non-assignable square feet; floor area that cannot be occupied or used due to the location of interior columns and/or other structural supports, interior walls and permanent partitions and vertical penetrations
- **Technical Requirements:** MEP and other physical, technical, or building construction requirements

SQUARE FOOT TERMINOLOGY

The tables and charts in this document depict area sizes in ASF unless GSF is specifically noted. ASF includes only the usable area of a given space. Spaces, e.g. lobbies, building corridors (excluding internal circulation within suites) and other public and support spaces such as mechanical rooms, rest rooms and stairs are included in non-assignable square feet. The building GSF is the sum of ASF and non-assignable square feet.

INTERNAL CIRCULATION

In addition to vertical penetrations, lobbies and mechanical rooms, the net-to-gross factor for the building includes space for primary building corridors which provide access to the major spaces in the facility. This space allocation does not include space for hallways or semi-public reception spaces affiliated with office suites as the suites themselves are accessed from building corridors, while individual offices and other spaces within the suite are accessed from internal circulation areas.

SIGN-OFFS

RECOMMENDED FOR APPROVAL

<u>4/30/2024</u>

Chuck Jones Director, Facilities, Planning & Construction

Juan Nuñez Vice President for Facilities Management

Amanda Withers

Chief Financial Officer and Senior VP for Operations

Dr. Michael T. Stephenson Provost & Senior VP for Academic Affairs

Dr. Alisa White President

4/30 Date

5-1-2020

Date

Date

5-10-

Date

2

EXECUTIVE SUMMARY

HE SAM HOUSTON STATE University mission—a student-centered, community engaged institution whose mission is to provide accessible, quality higher education—is rooted in the continual pursuit of academic excellence. The SHSU vision aspires to "make SHSU both the best value in higher education and the top regional public university in the state of Texas." Accomplished by "providing high quality, innovative, and flexible academic programs; a commitment to student success, scholarship and creative works, and engagement that solves the most critical challenges facing the world."

In 2009, Sam Houston State University created PACE—the Professional and Academic Center for Excellence to provide research-based professional development to faculty and staff, with the overarching goal of improving teaching and learning across campus. PACE has greatly expanded its scope, offering a suite of professional development opportunities for every academic rank, as well as providing funding related to teaching and learning activities.

In 2019, SHSU embraced active learning through the university's fiveyear Quality Enhancement Plan (QEP) which provides funding for faculty workshops, mentor training, and reimagining instructional methods. The QEP largely fell within the purview of PACE, expanding PACE's programming. In addition, the QEP funded the conversion of a handful of traditional classrooms into active learning spaces that incorporate collaboration-friendly tables, white boards, multiple projectors, and enhanced technology.

Active learning has many faces. For some classes, active learning might look like a mock debate. For others, it might involve small groups collaborating on an activity involving a computer simulation. Active learning can even be as simple as think-pair-share, wherein the instructor pauses to allow students to think about a question, pair up to discuss the answer, and then share the answer with nearby students or with the entire class. Regardless of the method, at the heart of all active learning is improved learning outcomes through student engagement.

At SHSU, traditional classroom space is often not well-suited to active learning. Large classes in fixed stadium-style seating require awkward crouching and craning for students to interact. Instructors in such spaces find it difficult to circulate and facilitate student discussions.

Smaller classroom spaces have their own drawbacks. Often the desks face the front, where the instructor lectures, and the only writable surface is on the front wall, again for the instructor's use. Activities calling for significant interaction require rearranging desks and materials. Multiple breakout sessions within a single class period can eventually become chaotic.

The QEP-funded classroom conversions, while an excellent step in the right direction, were limited by the existing architecture. Consequently, the largest *Engaging Spaces* classroom as of 2024 is oddly proportioned, and other renovated classrooms have similar flaws. Additionally complicating matters is that classrooms are spread out over the campus with priority given to individual departments.

The PACE program is housed in a handful of existing rooms with low visibility, limited by largely ad hoc capabilities. Despite the measurable improvements in student outcomes in classes whose faculty participated in PACE programs, PACE is not as widely known as expected or desired.

The Active Learning Center is a commitment to quality instruction at Sam Houston. Engaging, multi-disciplinary instructional environments promote creative instruction with open, modern, instructional spaces. New instructional environments, integrated with a highly visible, purpose-built PACE suite, will institutionalize, implement, and actualize active learning as part of the Quality Enhancement Plan. A highly visible gateway building, the Active Learning Center is a statement of the future of instruction at SHSU.

VISION + GOALS

HE VISION + GOALS chapter includes a summary of the project objectives for the new *Active Learning Center* at Sam Houston State University. Obtained at collaborative workshops during the programming process, the building committee established the specific goals and objectives to guide the project. The chapter is organized as follows:

- SHSU Mission and Vision
- Project Vision + Goals
- The project will be a success if (it)...

SHSU MISSION STATEMENT

Sam Houston State University (SHSU) is a student-centered, community engaged institution whose mission is to provide accessible, quality higher education. The university offers a variety of innovative and flexible degree programs at the undergraduate, graduate, and professional levels focused on career readiness, personal and professional development, and service. SHSU provides integrated academic and student success services designed to support traditional and non-traditional students from diverse backgrounds.

SHSU VISION STATEMENT

Sam Houston State University will provide a transformative environment that enables students from diverse backgrounds to become leaders who serve their families, communities, and professions. We aspire to make SHSU both the best value in higher education and the top regional public university in the state of Texas. We will accomplish this through providing high quality, innovative, and flexible academic programs; a commitment to student success, scholarship and creative works, and engagement that solves the most critical challenges facing the world.

PROJECT VISION + GOALS

The committee defined the following vision + goals for the project:

- Improve student outcomes and retention
- Create an engaging instructional environment to promote creative instruction for both students and faculty
- Create bright, light, inviting, open, modern instructional spaces
- Build student landing areas to keep students in the building
- Improve the practice of teaching and motivate faculty to engage with new instructional modalities
- Institutionalize, implement, and actualize active learning
- Make a public commitment to quality of instruction
- Build spaces that will serve as a statement of the SHSU future of instruction
- Create a gateway building which is part of an impactful campus entry sequence

THE PROJECT WILL BE A SUCCESS IF (IT)...

- both student and faculty outcomes improve
- multiple individuals from a variety of disciplines want and do teach in the facility
- it is a place where both students and faculty want to be
- faculty know how to use these rooms
- it creates a gateway building with prominent exterior
- it promotes student collaboration within the building
- it is on budget and on time
- it fits well within the campus context
- students feel welcomed by the building
- it becomes a showpiece/benchmark for SHSU

SITE CONTEXT 4

SITE CONTEXT PRESENTS A brief analysis of the proposed site for the project. It addresses factors acting upon the site that may have an impact on the design of the facility. The chapter is organized as follows:

- Site overview
- Location and availability of utilities





- NEW ACTIVE LEARNING CENTER 1
- 2 EVANS COMPLEX 3 VISITOR CENTER
- ESTILL BUILDING 4 FARRINGTON BUILDING 5
- 6 LEE DRAIN BUILDING
- COLLEGE OF HUMANITIES & SOCIAL SCIENCES
- 8 ACADEMIC BUILDING IV
- 9 COLISEUM PARKING GARAGE
- CHEMISTRY AND FORENSIC SCIENCE 11
- 12 FRED PIRKLE ENGINEERING TECHNOLOGY CENTER

SITE OVERVIEW

The current location of the Academic Building III will serve as the site for the new Active Learning Center. Located directly south of the Farrington Building and northwest of the intersection of Bowers Blvd and Avenue J, the site is in a prominent location between the historic quad, Bearkat Plaza, and a future Science & Engineering Technology Quad.





Academic Core – West (SHSU Campus Master Plan 2023)

The 2023 Campus Master Plan refers to extending the Historic Quad through a corridor between the Estill and Farrington Buildings to a new plaza constructed between the Active Learning Center and a new Interdisciplinary Building and Welcome Center. The proposed new plaza and Interdisciplinary Building and Welcome Center create an enhanced campus gateway from Sam Houston Ave. All of these factors place the new Active Learning Center prominently at the center of the western academic campus core.

Site design, building orientation/massing, and landscape elements should be designed to meet the following criteria:

- Create a strong and welcoming public statement to respond to the new gateway and establish the new center of the west academic core
- Building should align with the Farrington Building on the western edge to define the pedestrian path along the future southern extension of the corridor and future plaza
- Primary pedestrian access and entry to the building should be provided from both the existing primary pedestrian pathway to the east as well the parking lot/future plaza to the west
- The existing parking lot to the west will need to be maintained and reconfigured to allow for additional accessible parking spaces



EVANS COMPLEX 2

З VISITOR CENTER

FARRINGTON BUILDING 5 6 LEE DRAIN BUILDING COMMUNICATIONS

ACADEMIC BUILDING IV 9 COLISEUM PARKING GARAGE ELECTRICAL

- CHEMISTRY AND FORENSIC SCIENCE 11
- 12 FRED PIRKLE ENGINEERING TECHNOLOGY CENTER

During the programming process, site considerations pertaining to the demolition and construction phases of the project were identified:

- Demolition of the existing Academic Building III is included in the scope of this project
 - Hazardous material abatement will be required as part of the demolition
 - There is an approximately 10-foot elevation change at the northern edge of the site; an existing retaining wall incorporated in the structure of ABIII will need to be maintained and reinforced (see appendix for more details regarding the maintenance of the existing retaining wall)
- Construction laydown area will likely occur in the existing parking lot to the west of the site; however, vehicular access to the ramp for accessible parking directly north of the site and south of Farrington must stay open throughout the demolition and construction phases
- To the extent possible, pedestrian traffic will need to be rerouted to the eastern side of the site during construction to minimize safety concerns
- Existing electrical lines from ABIII serve the parking lot and University sign lighting to the west and will be impacted by the demolition of ABIII; temporary lines will need to be provided during construction to maintain campus operations (see the utilities section for more detailed information)



Pedestrian path to the east of the site



Accessible parking to north of the site



LOCATION AND AVAILABILITY OF UTILITIES

It is the responsibility of the design team to verify adequate utility capacity is available from the existing utility infrastructure or budget for any new utilities necessary to support the project. Generally, the capacity and size/condition of major utility trunk lines is the responsibility of the Campus/Utility Provider, whereas point of connection at or near the limits of the project and extension to the building is the responsibility of the project. The following summary of location and availability of utilities is based on discussions with SHSU Facilities Management.



COMMUNICATIONS

Fiber to support the new building is available from the northeast manhole. It is anticipated that the existing pathway will be reused. A new cable (two 12-strand ribbons) will need to be pulled through the existing conduit to connect to the demarcation room in the new facility.

The communication line shown on the west side of the site which terminates in the parking lot supports an existing *blue light* (emergency) phone. The phone will be removed temporarily during demolition and construction, but will need to be replaced along with a new/reconnected line in the parking area as part of the project.





View of mechanical yard from the south



View of mechanical yard from the north

ELECTRICITY

An existing mechanical yard with two transformers and switchgear is located at the northeast corner of the site and will remain in place. The northernmost transformer serves the Farrington Building. The second transformer, rated at 750 KVA (120/208 volts), will need to be replaced with a new transformer to provide up to 480-volt power to serve the new building.

Electrical service for parking lot lighting and University sign lighting is also provided from this transformer. A temporary panel will need to be provided at the northeast corner of the site along with temporary surface conduit to maintain electrical service to the parking and sign lights and to serve the construction crew during the construction phase of the project. New connections to a new electrical meter inside the building will need to be provided for both the new building and the parking and signage lighting prior to removal of the temporary service panel and surface lines.



GAS

The Farrington and ABIII buildings are served from a common meter at the northwest corner of the site. The current 2-inch gas line running along the western edge of the site is anticipated to have capacity to serve Farrington and the new building. Service to the Farrington Building must be maintained throughout demolition and construction. A second meter should be provided to serve the new building adjacent to the underground boiler and utility equipment room.



Existing gas meter at northwest corner



SANITARY SEWER

The project will run new sanitary sewer lines to the City of Huntsville sanitary sewer line directly to the south of the site (running east-west along Bowers Blvd). Existing lines running from the ABIII should be removed as part of the demolition phase of the project.



STORM DRAINAGE

Assuming no major alteration to the current topography, storm drainage will continue to be provided via sheet flow along Bowers Blvd. Drainage should be directed south and drained through the retention wall (at the southern edge of the sidewalk to the south of the site) out to Bowers Blvd to the west. There are two existing 10-inch storm drain lines on the eastern edge of the site (at the northeast and southeast) providing storm drainage to the southeast. No storm water detention will be required as part of this project.





Roof of underground mechanical room

CHILLED WATER

Existing 6-inch supply and return lines for chilled water enter the existing ABIII at the northwest corner into the underground boiler and utility equipment room. These lines should be maintained and are adequate to supply the new building with chilled water capacity for HVAC. A new gas-fired boiler/heating system and pump package to circulate the water through the building will be necessary. The existing underground boiler/utility equipment room is proposed to be retained.



DOMESTIC WATER

There are two stub-outs on the eastern edge of the site near the northern retaining wall (one 4-inch for fire water, and one 8-inch for domestic water). The 10-inch water main which runs north-south along the pedestrian path to the east of the site has adequate capacity to supply the new building.

SPACE + ADJACENCY REQUIREMENTS \bigcirc

SPACE + ADJACENCY REQUIREMENTS outlines the spatial, technical, and relationship aspects of the program. This chapter describes the space requirements for the new *Active Learning Center* in physical terms. The information in this chapter will serve as a checklist for the design team as they design and lay out the project. The chapter is organized into the following sections:

- An overview of the project
- The project space list
- Stacking + adjacencies
- Requirements for each space type in the program including size and quantity, technical requirements, and test fits when necessary

PROJECT OVERVIEW

A high demand for technology-rich, collaboration-oriented classrooms is the driving force behind the new *Active Learning Center* at SHSU. To meet the ever-changing trends in educational modalities and fully support the institution's student-centered focus, the new building allocates almost three-fourths of the assignable square footage to active learning instructional areas of varying sizes. Additional academic support is provided through various student spaces to promote study and collaboration and an office suite for the Professional & Academic Center for Excellence (PACE).

ACTIVE LEARNING CENTER	SF	PAGE
Entry + Commons/Student Space	3,000	24
Commons	1,000	26
Food + Beverage	200	26
Signature Stair	600	-
Small Student Study Pods (12)	300	27
Large Student Collaboration Space (4)	400	27
Distributed Gathering	500	28
Instruction/Active Learning	16,400	29
"Egg Over Easy" (2)	5,000	32
Learning Studios (2)	1,860	34
Large Learning Studios (2)	2,480	36
Flat-Floor Collaboration	2,500	38
Tiered Collaboration	4,200	40
Triage Rooms (2)	240	42
Storage	120	42
PACE	3,159	44
Waiting	100	46
Reception Desk	150	46
Bullpen	320	47
Associate Director of Assessment Office	120	47
Director Office	120	47
Open Collaboration	300	48
Conference Room	120	48
Mock Teaching/Conference Room	900	49
Beverage Alcove	60	50
Workroom	120	50
Storage	120	51
Allowance for Internal Circulation (30%)	729	
Building Support	680	53
A/V Support (2)	240	54
Medical Privacy	80	54
Family Restrooms (2)	160	55
Building Storage	200	55
Total ASF	23,239	
Total GSF (@ 60% efficiency)	38,732	

GENERAL TECHNICAL REQUIREMENTS

NATURAL LIGHT AND EXTERIOR VIEWS

The building configuration should allow natural light to penetrate public areas (e.g. entry lobby, gathering areas, etc.) and instructional spaces wherever possible. Office spaces should also be allowed to receive natural light unless otherwise noted. Use of interior glass partitions should be considered to provide transparency and maximize the distribution of natural light throughout the facility.

ARTIFICIAL LIGHT

All exterior covered areas should be provided with general outdoor lighting suitable to the activity. Primary interior lighting sources should consist of general LED light fixtures and/or special fixtures such as down lights where appropriate.

ACOUSTICAL CONSIDERATIONS

All instructional spaces should be provided with appropriate acoustical treatments to support teaching and learning. Design should consider use of demising walls that extend to structural deck in instructional spaces. All study pods/collaboration/gathering areas should utilize sound absorbing materials to provide privacy while using the space and simultaneously minimizing sound transmission to adjacent classrooms/areas.

STACKING DIAGRAM

The stacking diagram for the new Active Learning Center reflects a hybrid high-bay one-story and two-story structure in order to provide proper instructional spaces and stay within the given site boundaries. The first floor is primarily dedicated to instructional spaces, including the three high-bay spaces (tiered collaboration + two "egg over easy" classrooms) along with the flat-floor collaboration space and one each of the regular and large learning studios. The second floor houses the PACE office suite and the remaining two learning studios. Student spaces should be distributed between each level. Collocating the commons space and signature stair with student space offers a significant design opportunity to incorporate double height space and vertical circulation that is highly visible and contributes to a lively, student-centric environment.

Entry + Commons/Student Space

Small Student Study Pods (6) Large Student Collaboration Space (2) **Distributed Gathering**

Building Support

A/V Support Medical Privacy **Family Restroom**

Instruction/Active Learning

Learning Studio Large Learning Studio

> PACE 3159 ASF....

150 ASE

120 ASF....

930 ASF....

5000 ASE

4200 ASF

2500 ASE

1240 ASF

240 ASE

600 ASE

150 ASF

Instruction/Active Learning

"Egg Over Easy" (2) **Tiered Collaboration** Flat-Floor Collaboration Learning Studio Large Learning Studio Storage **Triage Room**

Entry + Commons/Student Space

Commons Signature Stair Food + Beverage Small Student Study Pods (6) Large Student Collaboration Space (2) **Distributed Gathering**

Building Support

Family Restroom 80 ASE **Building Storage** 200 ASE

A/V Support





Innovative Learning Classroom Building at TAMU (Bora Architects)



Innovative Learning Classroom Building at TAMU (Bora Architects)



Innovative Learning Classroom Building at TAMU (Bora Architects)



Innovative Learning Center at OSU (Bora Architects)



Innovative Learning Classroom Building at TAMU (Bora Architects)

	№ + SIZE	
ENTRY + COMMONS/STUDENT SPACE	OF SPACES	SF
Commons	1 @ 1,000 ASF	1,000
Food + Beverage	1 @ 200 ASF	200
Signature Stair	1 @ 600 ASF	600
Small Student Study Pod	12 @ 25 ASF	300
Large Student Collaboration Space	4 @ 100 ASF	400
Distributed Gathering	1 @ 500 ASF	500
Total ASF		3,000

The entry + commons/student space includes the lobby/commons, assorted student study/collaboration spaces, and a self-serve food + beverage area. This spatial sequence will communicate SHSU's commitment to high-quality academic instruction to current and prospective students, faculty, and the larger community.

The commons area is slightly oversized to create an active, lively, and student-centric environment in conjunction with the use of a monumental staircase to discourage the use of elevators as primary vertical circulation and provide a more open connection between the two floors. The commons should include soft, comfortable seating to allow students to use the space to collaborate, study, and socialize.

Student study pods and collaboration spaces along with a portion of the distributed gathering space should be distributed adjacent to the commons and circulation areas. The food + beverage area should also be adjacent to the commons area to allow students, faculty, and building visitors the opportunity to purchase convenient, grab-n-go food and drink options. This space will, in conjunction with the commons and student spaces, provide opportunities for casual social interaction among student and faculty. This space will encourage students to remain in the building in-between and after classes and contribute to an overall sense of community.

COMMONS

Entry + Commons/Student Space

Primary building lobby/commons adjacent to the main entry with video infographics and soft seating

SPATIAL CHARACTERISTICS

ROOM SIZE	1,000 ASF
OCCUPANTS	Varies
WALL FINISH	Painted GWB ¹
FLOOR FINISH	Terrazzo/polished concrete/carpet tiles ¹
CEILING FINISH	Painted GWB ¹
DOOR SIZE	Minimum 72 inches (double doors)
EXTERIOR ACCESS	Yes; primary building entry
NATURAL LIGHT	Required

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt ²
DATA	Ethernet + wireless²
TELEPHONE	_
AUDIOVISUAL	Flat panel displays; infographics ^{1,2}
SECURITY	Card access at building entry
LIGHTING	LED

MECHANICAL · PLUMBING

MECHANICAL

PLUMBING

FLOOR DRAIN

FURNISHINGS • FIXTURES • EQUIPMENT

Electronic bulletin boardofor Flat panel displays/infographics (varying sizes

as required)0F01 Soft seating (minimize long/low benches or couches)0F01 Tables and chairs + counter seating along window wall ..0F01

NOTES

- 1 Consider upgrading finishes in this area if the budget allows; provide appropriate acoustical treatment to ensure that the noise from this area is minimized in relation to adjacent areas; consider zones of carpet at seating areas to aid in sound mitigation
- 2 Provide convenience electrical outlets and ethernet ports along the perimeter walls at regular intervals; provide electrical outlets, ethernet ports, and A/V connections as required to support flat panel displays, infographics, and an electronic bulletin board; provide charging stations at seating areas
- 3 Provide information graphics for branding and wayfinding purposes; provide large flat panel displays within the commons area for general information

FOOD + BEVERAGE

Entry + Commons/Student Space

A small, unstaffed grab'n'go-style food pod for pre-packaged foods and beverages

SPATIAL CHARACTERISTICS

ROOM SIZE	200 ASF
OCCUPANTS	-
WALL FINISH	Painted GWB
FLOOR FINISH	Resilient
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	-
EXTERIOR ACCESS	-
NATURAL LIGHT	Preferred

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt;other ¹
DATA	Ethernet + wireless ¹
TELEPHONE	-
AUDIOVISUAL	Flat panel display ¹
SECURITY	_
LIGHTING	LED ²

MECHANICAL • PLUMBING

PLUMBING -

FLOOR DRAIN

FURNISHINGS • FIXTURES • EQUIPMENT

All food and beverage cooler/display FF&E is to be provided by the contract vendor; FF&E will not be included in the base building or University furniture packages

NOTES

1 Provide electrical outlets and ethernet ports along perimeter walls as needed to support food and beverage coolers/displays; provide electrical outlets and A/V connections to support a wall-mounted flat panel for pricing and other information; provide power and data to support payment system/station
SMALL STUDENT STUDY PODS (12)

Entry + Commons/Student Space

Small study spaces for 1 to 2 people

SPATIAL CHARACTERISTICS

ROOM SIZE	25 ASF
OCCUPANTS	1 to 2
WALL FINISH	Painted GWB ¹
FLOOR FINISH	Carpet tiles/polished concrete ¹
CEILING FINISH	Painted GWB ¹
DOOR SIZE	_
EXTERIOR ACCESS	_
NATURAL LIGHT	Preferred

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt²
DATA	Wireless ²
TELEPHONE	-
AUDIOVISUAL	-
SECURITY	-
LIGHTING	LED ³

MECHANICAL • PLUMBING

MECHANICAL – PLUMBING – FLOOR DRAIN –

FURNISHINGS • FIXTURES • EQUIPMENT

Writable surface(s)	CFCI
Table with seating for up to .	2CFCI/0F0I

NOTES

- 1 Utilize sound isolating materials
- 2 Provide electrical outlets to support computers and small device charging either along perimeter walls (at/ near table height for ease of access) or via furniture with built-in electrical outlets
- 3 Provide non-glare, direct/indirect lighting; utilize task lighting as necessary

LARGE STUDENT COLLABORATION SPACE (4)

Entry + Commons/Student Space

Study spaces for larger groups

SPATIAL CHARACTERISTICS

ROOM SIZE	100 ASF
OCCUPANTS	Up to 4
WALL FINISH	Painted GWB ¹
FLOOR FINISH	Carpet tiles/polished concrete ¹
CEILING FINISH	Painted GWB ¹
DOOR SIZE	-
EXTERIOR ACCESS	_
NATURAL LIGHT	Preferred

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt ²
DATA	Wireless ²
TELEPHONE	_
AUDIOVISUAL	-
SECURITY	-
LIGHTING	LED ³

MECHANICAL • PLUMBING

MECHANICAL	-
PLUMBING	-
FLOOR DRAIN	_

FURNISHINGS • FIXTURES • EQUIPMENT

Writable surface(s)	FCI
Table with seating for up to 4CFCI/OF	FOI

- 1 Utilize sound isolating materials
- 2 Provide electrical outlets to support computers and small device charging either along perimeter walls (at/ near table height for ease of access) or via furniture with built-in electrical outlets
- 3 Provide non-glare, direct/indirect lighting; utilize task lighting as necessary

DISTRIBUTED GATHERING

Entry + Commons/Student Space

Informal gathering areas for students as well as an area to wait/study between classes

SPATIAL CHARACTERISTICS

ROOM SIZE	500 ASF
OCCUPANTS	Varies
WALL FINISH	Painted GWB ¹
FLOOR FINISH	Carpet tiles/polished concrete ¹
CEILING FINISH	Painted GWB ¹
DOOR SIZE	_
EXTERIOR ACCESS	_
NATURAL LIGHT	Preferred

ELECTRICAL • IT • AUDIOVISUAL

Standard 120-volt²
Wireless ¹
-
_
-
LED

MECHANICAL · PLUMBING

_	MECHANICAL
_	PLUMBING
_	FLOOR DRAIN

FURNISHINGS • FIXTURES • EQUIPMENT

Writable surface(s)	CFCI
Lounge seating	0F0I
Tables and chairs	0F0I

- 1 Utilize sound isolating materials
- 2 Provide area with power strip for mobile device charging; provide convenience electrical outlets and ethernet ports along the perimeter walls at regular intervals; when locating outlets, pay special attention to the location of furniture
- 3 A variety of seating configurations is recommended to allow student to have options to suit their study habits
- 4 Spaces should be located adjacent to and accessible from public corridors; to prevent disruption of instruction related to noise, it is recommended that this space be located away from direct adjacencies to classrooms

	№ + SIZE	
INSTRUCTION/ACTIVE LEARNING	OF SPACES	SF
"Egg Over Easy"	2 @ 2,500 ASF	5,000
Learning Studio	2 @ 930 ASF	1,860
Large Learning Studio	2 @ 1,240 ASF	2,480
Flat-Floor Collaboration	1 @ 2,500 ASF	2,500
Tiered Collaboration	1 @ 4,200 ASF	4,200
Triage Room	2 @ 120 ASF	240
Storage	1 @ 120 ASF	120
Total ASF		16,400

The instructional spaces offered in the new facility will provide a variety of teaching and learning environments to support more modern pedagogies with an emphasis on active learning and collaborative learning strategies. Instructional spaces include two *egg over easy* classrooms (for up to 54 students each), four learning studios (two for up to 36 students; two with up to 48 students), a flat-floor collaboration classroom (for up to 48 students), and a tiered collaboration classroom (for up to 96 students).

All classrooms will be outfitted to provide the capability for lecture capture and distance learning. All classrooms will also provide direct connections to projection equipment via the instructional podium as well as mobile device connections from students or faculty via a protected WiFi connection.

The *egg over easy* classrooms are designed as an active lecture hall with the goal of maximizing audience engagement. Students are configured to face each other with radial seating to foster class discussions. Projection technology on three walls provides the best possible viewing angles for all students. Wide aisles allow for easy movement within the space for both the instructor and students.

Both the large and small learning studios promote teaching through an active learning approach incorporating both lecture and student breakout sessions. The learning studios will feature round tables seating six students with a large central demonstration area. The learning studios are based on a model where students will bring their own device and be able to project to a flat panel display paired with each group via a protected WiFi connection. The instructor may stream over WiFi to any of the displays or utilize the computer at the podium to connect to all displays simultaneously via a direct, physical connection.





Egg classroom with fixed tables and flexible seating



Example of a learning studio setup



Tiered collaboration space with group tables

The flat-floor and tiered collaboration classrooms are flex learning spaces that support standard lectures in combination with student breakout sessions for collaboration in groups of six. The tabletops provide a writable surface for small group projects. Student devices are integrated with the projection technology to enhance discussion.

In support of the instructional areas, two triage rooms and a dedicated storage room are provided. The triage rooms provide both a faculty prep space before class begins and/or a post-class breakout space to debrief with up to three to four students. The storage room provides a dedicated space for classroom supplies and equipment.

"EGG OVER EASY" DIAGRAM Instruction/Active Learning



A PROGRAM OF REQUIREMENTS FOR THE NEW ACTIVE LEARNING CENTER AT SAM HOUSTON STATE UNIVERSITY

"EGG OVER EASY" (2)

Instruction/Active Learning

These spaces are intended as an active lecture hall. The goal is complete audience engagement to maintain audience focus. The output devices are laid out to provide the best viewing angle for all audience members. Collaboration and open discussion are the primary goals for these spaces, and the technology will assist in this goal.

SPATIAL CHARACTERISTICS

ROOM SIZE	2,500 ASF
OCCUPANTS	Up to 54 + instructor
WALL FINISH	Painted GWB ¹
FLOOR FINISH	Carpet tiles/polished concrete ²
CEILING FINISH	Painted GWB/acoustical tile ³
DOOR SIZE	72 inches wide (double doors)
EXTERIOR ACCESS	_
NATURAL LIGHT	Preferred⁴

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt⁵
DATA	Ethernet + wireless⁵
TELEPHONE	_
AUDIOVISUAL	Presentation equipment ^{5,6}
SECURITY	Standard door lock
LIGHTING	LED ⁷

MECHANICAL • PLUMBING

PLUMBING

FLOOR DRAIN

FURNISHINGS • FIXTURES • EQUIPMENT

Writable surface(s)CFG	CI
Ceiling-mounted HD data projectors (3 to 5)CFG	CI
Motorized projection screens (3 to 5)CFG	CI
Sound system with integrated audio amplifiercre	CI
Fixed ribbon tables with writable surface	
(for 54 occupants) CF (CI
Ceiling-mounted cameras (for video capture)0FG	01
Ceiling-mounted mics (for audio capture)OF	01
Movable task chairs (for 54 occupants; consider	
providing seating of a similar color, but with slight	
variations in the shade dispersed throughout)0FC	01
Teaching station (with computer and all necessary	
controls for running A/V equipment and lighting)0FG	01

- 1 Provide acoustical wall panels; verify STC requirements during design
- 2 University preference is to provide the tiered level using a raised access floor-style system to provide future flexibility
- 3 Minimum clear height of approximately 20 feet to ensure proper viewing angles
- 4 Consider a clerestory or other means to incorporate borrowed daylight
- 5 Provide electrical outlets along the perimeter walls and as required to support all equipment (in floor and/or at ceiling); provide floor boxes with electrical outlets to provide power at ribbon tables; provide ethernet ports at the teaching station and as required to support equipment; provide appropriate A/V wiring to support ceiling-mounted cameras and mics for distance learning function; provide wiring to allow appropriate control of A/V equipment at the teaching station; also provide software to allow protected wireless access to projection technology by mobile devices
- 6 Ensure that no lighting fixtures or HVAC equipment obstruct the view to the projection screen(s)/writable surface(s)
- 7 Provide LED lighting; consider a zoned lighting approach to provide multiple lighting options with controls either at a teaching wall or the teaching station

LEARNING STUDIO DIAGRAM Instruction/Active Learning



LEARNING STUDIOS (2)

Instruction/Active Learning

The learning studio's primary use is as a flex learning space. This will allow for standard lectures, as well as student breakout sessions for collaboration. The leader in the room will have the ability to send content from any student group to any output in the room. The teaching station is located at the perimeter of the room to allow for freedom of movement and demonstration in the center of the room.

SPATIAL CHARACTERISTICS

ROOM SIZE	930 ASF
OCCUPANTS	Up to 36 + instructor
WALL FINISH	Painted GWB ¹
FLOOR FINISH	Low profile raised floor ²
CEILING FINISH	Painted GWB/acoustical tile ³
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	_
NATURAL LIGHT	Preferred⁴

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt⁵
DATA	Ethernet + wireless⁵
TELEPHONE	-
AUDIOVISUAL	Group equipment ^{5,6}
SECURITY	Standard door lock
LIGHTING	LED ⁷

MECHANICAL • PLUMBING

MECHANICAL	-
PLUMBING	_
FLOOR DRAIN	_

FURNISHINGS • FIXTURES • EQUIPMENT

Writable surface(s)/smart boards (on walls paired with	
flat panel displays for each group/table)	. CFCI
Fixed round tables with writable surface (6)	. CFCI
Ceiling-mounted cameras (for video capture)	.0F0I
Ceiling-mounted mics (for audio capture)	.0F0I
Tall storage cabinets (2)	.0F0I
Movable task chairs (for 36 occupants)	.0F0I
Flat panel displays (6; one per group/table)	.0F0I
Teaching station (with computer and all necessary	
controls for running A/V equipment and lighting)	.0F0I

- 1 Provide acoustical wall panels; verify STC requirements during design
- 2 A low profile raised floor is preferred to allow for the room to be reconfigured
- 3 Minimum clear height of approximately 15 feet
- 4 Consider a clerestory or other means to incorporate borrowed daylight
- 5 Provide electrical outlets along the perimeter walls and as required to support all equipment (in floor and/or at ceiling); provide ethernet ports at the lectern/teaching station and as required to support equipment; provide appropriate A/V wiring to support ceiling-mounted cameras and mics for distance learning function; provide wiring to allow appropriate control of A/V equipment at the teaching station; provide electrical outlets to support computers/small device charging either along perimeter walls or via furniture with built-in electrical outlets at each of the tables; also provide software to allow protected wireless access to individual flat panel displays via mobile devices
- 6 Ensure that no lighting fixtures or HVAC equipment obstruct the view to the flat panel displays/writable surface(s)
- 7 Provide LED lighting; consider a zoned lighting approach to provide multiple lighting options with controls at the teaching station

LARGE LEARNING STUDIO DIAGRAM



LARGE LEARNING STUDIOS (2)

Instruction/Active Learning

The large learning studio's primary use is as a flex learning space. This will allow for standard lectures, as well as student breakout sessions for collaboration. The leader in the room will have the ability to send content from any student group to any output in the room. The teaching station is located at the perimeter of the room to allow for freedom of movement and demonstration in the center of the room.

SPATIAL CHARACTERISTICS

ROOM SIZE	1,240 ASF
OCCUPANTS	Up to 48 + instructor
WALL FINISH	Painted GWB ¹
FLOOR FINISH	Low profile raised floor ²
CEILING FINISH	Painted GWB/acoustical tile ³
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	_
NATURAL LIGHT	Preferred⁴

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt⁵
DATA	Ethernet + wireless⁵
TELEPHONE	-
AUDIOVISUAL	Group equipment ^{5,6}
SECURITY	Standard door lock
LIGHTING	LED ⁷

MECHANICAL • PLUMBING

MECHANICAL	-
PLUMBING	_
FLOOR DRAIN	_

FURNISHINGS • FIXTURES • EQUIPMENT

Writable surface(s)/smart boards (on walls paired with	
flat panel displays for each group/table)	. CFCI
Fixed round tables with writable surface (8)	. CFCI
Ceiling-mounted cameras (for video capture)	.0F0I
Ceiling-mounted mics (for audio capture)	.0F0I
Tall storage cabinets (2)	.0F0I
Movable task chairs (for 48 occupants)	.0F0I
Flat panel displays (8; one per group/table)	.0F0I
Teaching station (with computer and all necessary	
controls for running A/V equipment and lighting)	.0F0I

- 1 Provide acoustical wall panels; verify STC requirements during design
- 2 A low profile raised floor is preferred to allow for the room to be reconfigured
- 3 Minimum clear height of approximately 15 feet
- 4 Consider a clerestory or other means to incorporate borrowed daylight
- 5 Provide electrical outlets along the perimeter walls and as required to support all equipment (in floor and/or at ceiling); provide ethernet ports at the lectern/teaching station and as required to support equipment; provide appropriate A/V wiring to support ceiling-mounted cameras and mics for distance learning function; provide wiring to allow appropriate control of A/V equipment at the teaching station; provide electrical outlets to support computers/small device charging either along perimeter walls or via furniture with built-in electrical outlets at each of the tables; also provide software to allow protected wireless access to individual flat panel displays via mobile devices
- 6 Ensure that no lighting fixtures or HVAC equipment obstruct the view to the flat panel displays/writable surface(s)
- 7 Provide LED lighting; consider a zoned lighting approach to provide multiple lighting options with controls at the teaching station

FLAT-FLOOR COLLABORATION DIAGRAM



FLAT-FLOOR COLLABORATION

Instruction/Active Learning

The flat-floor collaboration primary use is as a flex learning space. This will allow for standard lectures, as well as student breakout sessions for collaboration. Instructional materials storage is provided in space behind the projection screens.

SPATIAL CHARACTERISTICS

ROOM SIZE	2,500 ASF
OCCUPANTS	Up to 48 + instructor
WALL FINISH	Painted GWB ¹
FLOOR FINISH	Carpet tiles/polished concrete
CEILING FINISH	Painted GWB/acoustical tile ²
DOOR SIZE	72 inches wide (double doors)
EXTERIOR ACCESS	_
NATURAL LIGHT	Preferred ³

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt⁴
DATA	Ethernet + wireless ⁴
TELEPHONE	_
AUDIOVISUAL	Presentation equipment ^{4,5}
SECURITY	Standard door lock
LIGHTING	LED ⁶

MECHANICAL · PLUMBING

MECHANICAL PLUMBING

FLOOR DRAIN -

FURNISHINGS • FIXTURES • EQUIPMENT

Writable surface(s)	CFCI
Ceiling-mounted HD data projectors (2)	CFCI
Motorized projection screens (2)	CFCI
Sound system with integrated audio amplifier	CFCI
Fixed peninsula tables with writable surface	
(8; 6 per table)	CFCI
Ceiling-mounted cameras (for video capture)	0F0I
Ceiling-mounted mics (for audio capture)	0F0I
Movable task chairs (for 48 occupants; consider	
providing seating of a similar color, but with slight	
variations in the shade dispersed throughout)	0F0I
Teaching station (with computer and all necessary	
controls for running A/V equipment and lighting)	0F0I

- 1 Provide acoustical wall panels; verify STC requirements during design
- 2 Minimum clear height of approximately 20 feet to ensure proper viewing angles
- 3 Consider a clerestory or other means to incorporate borrowed daylight
- 4 Provide electrical outlets along the perimeter walls and as required to support all equipment (in floor and/ or at ceiling); provide floor boxes with electrical outlets to provide power at peninsula tables; provide ethernet ports at the teaching station and as required to support equipment; provide appropriate A/V wiring to support ceiling-mounted cameras and mics for distance learning function; provide wiring to allow appropriate control of A/V equipment at the teaching station; also provide software to allow protected wireless access to projection technology by mobile devices
- 5 Ensure that no lighting fixtures or HVAC equipment obstruct the view to the projection screen(s)/writable surface(s)
- 6 Provide LED lighting; consider a zoned lighting approach to provide multiple lighting options with controls either at a teaching wall or at the teaching station

TIERED COLLABORATION DIAGRAM

Instruction/Active Learning



TIERED COLLABORATION

Instruction/Active Learning

The tiered collaboration primary use is as a flex learning space. This will allow for standard lectures, as well as student breakout sessions for collaboration. Instructional materials storage is provided in space behind the projection screens.

SPATIAL CHARACTERISTICS

ROOM SIZE	4,200 ASF
OCCUPANTS	Up to 96 + instructor
WALL FINISH	Painted GWB ¹
FLOOR FINISH	Carpet tiles/polished concrete ²
CEILING FINISH	Painted GWB/acoustical tile ³
DOOR SIZE	72 inches wide (double doors)
EXTERIOR ACCESS	_
NATURAL LIGHT	Preferred ⁴

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt⁵
DATA	Ethernet + wireless⁵
TELEPHONE	-
AUDIOVISUAL	Presentation equipment ^{5,6}
SECURITY	Standard door lock
LIGHTING	LED ⁷

MECHANICAL · PLUMBING

MECHANICAL – PLUMBING – FLOOR DRAIN –

FURNISHINGS • FIXTURES • EQUIPMENT

Writable surface(s)	CFCI
Ceiling-mounted HD data projectors (2)	CFCI
Motorized projection screens (2)	CFCI
Sound system with integrated audio amplifier	CFCI
Fixed peninsula tables with writable surface	
(16; 6 per table)	CFCI
Ceiling-mounted cameras (for video capture))F0I
Ceiling-mounted mics (for audio capture))F0I
Movable task chairs (for 96 occupants; consider	
providing seating of a similar color, but with slight	
variations in the shade dispersed throughout))F0I
Teaching station (with computer and all necessary	
controls for running A/V equipment and lighting))F0I

- 1 Provide acoustical wall panels; verify STC requirements during design
- 2 University preference is to provide the tiered level using a raised access floor-style system to provide future flexibility
- 3 Minimum clear height of approximately 20 feet to ensure proper viewing angles
- 4 Consider a clerestory or other means to incorporate borrowed daylight
- 5 Provide electrical outlets along the perimeter walls and as required to support all equipment (in floor and/ or at ceiling); provide floor boxes with electrical outlets to provide power at peninsula tables; provide ethernet ports at the teaching station and as required to support equipment; provide appropriate A/V wiring to support ceiling-mounted cameras and mics for distance learning function; provide wiring to allow appropriate control of A/V equipment at the teaching station; also provide software to allow protected wireless access to projection technology by mobile devices
- 6 Ensure that no lighting fixtures or HVAC equipment obstruct the view to the projection screen(s)/writable surface(s)
- 7 Provide LED lighting; consider a zoned lighting approach to provide multiple lighting options with controls either at a teaching wall or at the teaching station

TRIAGE ROOMS (2)

Instruction/Active Learning

The triage rooms provide a prep area for instructors prior to entering a classroom to teach and also allows for small group debrief with 3 to 4 students after a class concludes

SPATIAL CHARACTERISTICS

ROOM SIZE	120 ASF
OCCUPANTS	4
WALL FINISH	Painted GWB
FLOOR FINISH	Carpet tiles
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	_
NATURAL LIGHT	-

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt ¹
DATA	Ethernet + wireless ¹
TELEPHONE	-
AUDIOVISUAL	-
SECURITY	Standard door lock
LIGHTING	LED ²

MECHANICAL • PLUMBING

MECHANICAL	-
PLUMBING	_
FLOOR DRAIN	_

FURNISHINGS • FIXTURES • EQUIPMENT

Writable surface	CFCI
Lockers	0F0I
Small round table	0F0I
Task chairs (2 to 4)	0F0I

NOTES

- 1 Provide convenience electrical outlets and ethernet ports along the perimeter walls
- 2 Provide non-glare, direct/indirect lighting

STORAGE

Instruction/Active Learning

Storage area for classrooms supplies and equipment

SPATIAL CHARACTERISTICS

ROOM SIZE	120 ASF
OCCUPANTS	-
WALL FINISH	Painted GWB
FLOOR FINISH	Resilient
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	_
NATURAL LIGHT	_

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt convenience outlets
DATA	Ethernet + wireless
TELEPHONE	-
AUDIOVISUAL	_
SECURITY	Standard door lock
LIGHTING	LED

MECHANICAL • PLUMBING

- MECHANICAL
- PLUMBING -
- FLOOR DRAIN -

FURNISHINGS • FIXTURES • EQUIPMENT

Tall storage cabinets	0F0I
Industrial metal shelving	z٥F0I



Innovative Learning Center at Oregon State University (Bora Architects) Use of glass partitions to provide transparency and borrowed natural light



Innovative Learning Classroom Building at TAMU (Bora Architects) Example of open collaboration area



Office Building (Rogers Partners) Transparency and borrowed daylight within a suite/area

	№ + SIZE	
PACE	OF SPACES	SF
Waiting	1 @ 100 ASF	100
Reception Desk	1 @ 150 ASF	150
Bullpen	1 @ 320 ASF	320
Associate Director of Assessment Office	1 @ 120 ASF	120
Director Office	1 @ 120 ASF	120
Open Collaboration	1 @ 300 ASF	300
Conference Room	1 @ 120 ASF	120
Mock Teaching/Conference Room	1 @ 900 ASF	900
Beverage Alcove	1 @ 60 ASF	60
Workroom	1 @ 120 ASF	120
Storage	1 @ 120 ASF	120
SubTotal ASF		2,430
Allowance for Internal Circulation (30%)		729
Total ASF		3,159

The Professional and Academic Center for Excellence (PACE) cultivates academic achievement by offering faculty and staff evidence-based programs and services that provide a foundation of support for student and faculty success. In support of this mission, the new office suite shall provide workstations and office space for staff members (including future staff growth space in an office-sized conference room), open collaboration space, and a flat-floor, multipurpose mock teaching/conference space to hold workshops, engagements, and PACE advisory meetings.

The office suite should utilize glass partitions to provide maximum transparency and access to natural light. In addition, the private offices and conference room should be directly adjacent to the bullpen space with glass partitions between the spaces to promote transparency within the suite.

WAITING

PACE

Waiting area for 4 people

SPATIAL CHARACTERISTICS

ROOM SIZE	100 ASF
OCCUPANTS	4
WALL FINISH	Painted GWB
FLOOR FINISH	Carpet tiles
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	-
NATURAL LIGHT	Preferred

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt ¹
DATA	Ethernet + wireless ¹
TELEPHONE	_
AUDIOVISUAL	Flat panel display(s) ¹
SECURITY	Standard door lock
LIGHTING	LED ²

MECHANICAL · PLUMBING

MECHANICAL	
PLUMBING	

FLOOR DRAIN -

FURNISHINGS • FIXTURES • EQUIPMENT

Lounge seating (for 4 people)	0F0I
Side table(s)	0F0I
Flat panel display(s)	0F0I

NOTES

- Provide convenience electrical outlets and ethernet ports along the perimeter walls; also provided electrical outlets and AV connections to support flat panel display(s)
- 2 Provide non-glare, direct/indirect lighting

RECEPTION DESK

PACE

Reception desk for up to three student workers

SPATIAL CHARACTERISTICS

ROOM SIZE	150 ASF
OCCUPANTS	3
WALL FINISH	Painted GWB
FLOOR FINISH	Carpet tiles
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	-
EXTERIOR ACCESS	-
NATURAL LIGHT	Preferred

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt ¹
DATA	Ethernet + wireless ¹
TELEPHONE	VOIP ¹
AUDIOVISUAL	-
SECURITY	-
LIGHTING	LED ²

MECHANICAL • PLUMBING

PLUMBING -

FLOOR DRAIN -

FURNISHINGS • FIXTURES • EQUIPMENT

Reception desk with three workstations and	
storage below	CFCI
Task chairs (3)	OFOI
Lateral file cabinet(s)	OFOI
Computers (3)	OFOI
Telephones (3)	0F0I

- 1 Provide electrical outlets, ethernet ports, and telephone outlets to support all computers and equipment at the reception desk
- 2 Provide non-glare, direct/indirect lighting; utilize task lighting as required

BULLPEN

PACE

Open office area with workstations for two administrators and two additional stations for future/flex staff

SPATIAL CHARACTERISTICS

ROOM SIZE	320 ASF
OCCUPANTS	4
WALL FINISH	Painted GWB
FLOOR FINISH	Carpet tiles
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	_
EXTERIOR ACCESS	-
NATURAL LIGHT	Preferred

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt ¹
DATA	Ethernet + wireless ¹
TELEPHONE	VOIP ¹
AUDIOVISUAL	-
SECURITY	-
LIGHTING	LED ²

MECHANICAL · PLUMBING

MECHANICAL – PLUMBING – FLOOR DRAIN –

FURNISHINGS • FIXTURES • EQUIPMENT

Workstations (4)	CFC
Task chairs (4)	0F0
Lateral file cabinet(s)	0F0
Computers (4)	0F0
Telephones (4)	0F0

NOTES

- 1 Provide electrical outlets, ethernet ports, and telephone outlets to support all computers and equipment at each workstation
- 2 Provide non-glare, direct/indirect lighting; utilize task lighting as required

DIRECTOR (1)/ASSOC. DIRECTOR OF ASSESSMENT (1)

PACE

Private offices for the Director and the Associate Director of Assessment

SPATIAL CHARACTERISTICS

ROOM SIZE	120 ASF
OCCUPANTS	1
WALL FINISH	Painted GWB
FLOOR FINISH	Carpet tiles
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	-
NATURAL LIGHT	Required

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt ¹
DATA	Ethernet + wireless ¹
TELEPHONE	VOIP ¹
AUDIOVISUAL	-
SECURITY	Standard door lock ²
LIGHTING	LED ³

MECHANICAL • PLUMBING

MECHANICAL	_
PLUMBING	-

FLOOR DRAIN

FURNISHINGS • FIXTURES • EQUIPMENT

Desk	0F0I
Chairs (as required)	0F0I
Bookcase	0F0I
Lateral file cabinet(s)	0F0I
Computer	0F0I
Telephone	OF0I

- 1 Provide an electrical outlet, ethernet port, and telephone outlet to support a computer and a telephone
- 2 Incorporate glazing at entrance for visual transparency and safety (side lite adjacent to the door at minimum)
- 3 Provide non-glare, direct/indirect lighting; utilize task lighting as required

OPEN COLLABORATION

PACE

Open collaboration area with two high peninsula-style tables paired with a flat panel display and writable surface adjacent to the mock teaching/conference space

SPATIAL CHARACTERISTICS

ROOM SIZE	300 ASF
OCCUPANTS	Up to 12
WALL FINISH	Painted GWB
FLOOR FINISH	Carpet tiles
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	-
EXTERIOR ACCESS	-
NATURAL LIGHT	Preferred

ELECTRICAL • IT • AUDIOVISUAL

Standard 120-volt ¹
Ethernet + wireless ¹
-
Flat panel displays ¹
-
LED ²

MECHANICAL • PLUMBING

MECHANICAL	-
PLUMBING	-

FLOOR DRAIN

FURNISHINGS • FIXTURES • EQUIPMENT

Writable surface(s)	CFCI
Standing-height peninsula tables (2; for up to 6 each)	0F0I
Stools with chair backs (12)	0F0I
Flat panel displays (2)	0F0I

NOTES

- 1 Provide electrical outlets and ethernet ports to support A/V equipment and computers with connections to flat panel displays at each table
- 2 Provide non-glare, direct/indirect lighting

CONFERENCE ROOM

PACE

Conference room for up to 4 people. Locate and configure this room to allow future conversion to an office if required.

SPATIAL CHARACTERISTICS

ROOM SIZE	120 ASF
OCCUPANTS	Up to 4
WALL FINISH	Painted GWB
FLOOR FINISH	Carpet tiles
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	-
NATURAL LIGHT	Preferred

ELECTRICAL • IT • AUDIOVISUAL

Standard 120-volt ¹
Ethernet + wireless ¹
VOIP
Flat panel display ¹
Standard door lock ²
LED ³

MECHANICAL • PLUMBING

- MECHANICAL
 - PLUMBING
- FLOOR DRAIN -

FURNISHINGS • FIXTURES • EQUIPMENT

CFCI
0F0I
0F0I
0F0I
0F0I

- Provide a floor box with electrical outlets and ethernet ports; coordinate location with final furniture layout; provide electrical outlets, ethernet ports, and A/V wiring to support a wall-mounted flat panel display
- 2 Incorporate glazing at entrance for visual transparency and safety (side lite adjacent to the door at minimum)
- 3 Provide non-glare, direct/indirect lighting

MOCK TEACHING/CONFERENCE ROOM

PACE

Multipurpose flat floor room for workshops, mini engagements, and PACE advisory meetings with flexible furniture to allow for multiple configurations

SPATIAL CHARACTERISTICS

ROOM SIZE	900 ASF
OCCUPANTS	Up to 30 + presenter
WALL FINISH	Painted GWB ¹
FLOOR FINISH	Carpet tiles/resilient
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	-
NATURAL LIGHT	Preferred

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt²
DATA	Ethernet + wireless²
TELEPHONE	-
AUDIOVISUAL	Presentation equipment ^{2,3}
SECURITY	Standard door lock
LIGHTING	LED ⁴

MECHANICAL • PLUMBING

MECHANICAL	
PLUMBING	
FLOOR DRAIN	

FURNISHINGS • FIXTURES • EQUIPMENT

Writable surface(s)	CFCI
Ceiling-mounted HD data projector	CFCI
Motorized projection screen	CFCI
Ceiling-mounted cameras (for video capture)	0F0I
Ceiling-mounted mics (for audio capture)	0F0I
Nesting tables (to seat up to 30 people)	0F0I
Movable task chairs (30)	0F0I
Presenter station (with computer and all necessary	
controls for running A/V equipment and lighting)	0F0I

- 1 Provide acoustical wall panels; verify STC requirements during design
- 2 Provide electrical outlets along the perimeter walls and as required to support all equipment (in floor and/or at ceiling); provide ethernet ports at the lectern/presenter station and as required to support equipment; provide appropriate A/V wiring to support ceiling-mounted cameras and mics for distance learning function; provide wiring to allow appropriate control of A/V equipment at the presenter station/presentation wall; also provide software to allow protected wireless access to projection technology by mobile devices
- 3 Ensure that no lighting fixtures or HVAC equipment obstruct the view to the projection screen/writable surface(s)
- 4 Provide LED lighting; consider a zoned lighting approach to provide multiple lighting options with controls at the presenter station/presentation wall

BEVERAGE ALCOVE

PACE

Beverage alcove to be centrally located in suite for coffee service and a small refrigerator for cold beverages

SPATIAL CHARACTERISTICS

ROOM SIZE	60 ASF
OCCUPANTS	_
WALL FINISH	Painted GWB
FLOOR FINISH	Resilient/match adjacent
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	_
EXTERIOR ACCESS	_
NATURAL LIGHT	_

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt ¹
DATA	Ethernet + wireless ¹
TELEPHONE	-
AUDIOVISUAL	-
SECURITY	-
LIGHTING	LED

MECHANICAL · PLUMBING

MECHANICAL	-
PLUMBING	Domestic hot + cold water at sink
FLOOR DRAIN	_

FURNISHINGS • FIXTURES • EQUIPMENT

Millwork with base cabinets + upper cabinets,
a counter, a sink, and soap/paper towel dispensersCFCI
Undercounter refrigeratorOFOI
Coffee makerOFOI

NOTES

 Provide convenience electrical outlets and ethernet ports along the perimeter walls and countertops; provide a dedicated electrical circuit for the refrigerator; all electrical outlets located within 6 feet of a water source must have GFCI protection

WORKROOM

PACE

Area for shared office equipment and supplies

SPATIAL CHARACTERISTICS

ROOM SIZE	120 ASF
OCCUPANTS	_
WALL FINISH	Painted GWB
FLOOR FINISH	Resilient
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	-
NATURAL LIGHT	_

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt ¹
DATA	Ethernet + wireless ¹
TELEPHONE	-
AUDIOVISUAL	-
SECURITY	Standard door lock ²
LIGHTING	LED

MECHANICAL • PLUMBING

- PLUMBING -
- FLOOR DRAIN -

FURNISHINGS • FIXTURES • EQUIPMENT

Millwork with base cabinets, upper cabinets, and	
a counter	CFCI
Copier/printer	0F0I
Work table	0F0I

- Provide electrical outlets and ethernet ports along the perimeter walls and along countertops paying special attention to possible locations for office equipment; provide a dedicated electrical circuit and ethernet port for a copier/printer
- 2 Incorporate glazing at entrance for visual transparency and safety (side lite adjacent to the door at minimum)

STORAGE

PACE

Storage areas for office supplies and other items.

SPATIAL CHARACTERISTICS

ROOM SIZE	120 ASF
OCCUPANTS	_
WALL FINISH	Painted GWB
FLOOR FINISH	Resilient
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	_
NATURAL LIGHT	_

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt convenience outlets
DATA	Ethernet + wireless
TELEPHONE	_
AUDIOVISUAL	_
SECURITY	Standard door lock
LIGHTING	LED

MECHANICAL • PLUMBING

MECHANICAL – PLUMBING – FLOOR DRAIN –

FURNISHINGS • FIXTURES • EQUIPMENT

Tall storage cabinets	0F0I
Industrial metal shelving	0F0I

		№ + SIZE	
BUILDING SUPPORT		OF SPACES	SF
	A/V Support	2 @ 120 ASF	240
	Medical Privacy	1 @ 80 ASF	80
	Family Restroom	2 @ 80 ASF	160
	Building Storage	1 @ 200 ASF	200
	Total ASF		680

Spaces programmed for building support include general rooms that are required for successful operation of the overall facility. Building support will require two A/V support rooms (one per floor) to support the instructional technology in the classrooms, a medical privacy room for nursing mothers (or others with medical-related situations requiring a private area), two family restrooms (one per floor), and a general building storage room.

Note: SHSU design guidelines for MDF and IDF rooms can be found at <u>https://www.shsu.edu/dept/facilities-management/ae-guidelines/</u> <u>ae-guidelines-2023/Division%2027%20270000%20IT%20&%20Communi-</u> <u>cations%2007-23-21.pdf</u>

A/V SUPPORT (2)

Building Support

Audiovisual control/equipment room in support of the instructional areas; provide one per floor directly adjacent to the MDF/IDF

SPATIAL CHARACTERISTICS

ROOM SIZE	120 ASF
OCCUPANTS	_
WALL FINISH	Painted GWB
FLOOR FINISH	Resilient
CEILING FINISH	Open to structure
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	_
NATURAL LIGHT	_

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt ¹
DATA	Ethernet + wireless ¹
TELEPHONE	_
AUDIOVISUAL	Wiring to/from instructional areas ¹
SECURITY	Standard door lock
LIGHTING	LED

MECHANICAL • PLUMBING

MECHANICAL	Provide ample cooling
PLUMBING	_
FLOOR DRAIN	-

FURNISHINGS • FIXTURES • EQUIPMENT

Audiovisual equipment/controls0F01

NOTES

1 Provide electrical outlets, ethernet ports, and A/V connections/wiring as necessary to support all A/V equipment and a computer

MEDICAL PRIVACY ROOM

Building Support

A private area to allow students, faculty, or staff to retreat to a quiet, closed room for nursing or other medical requirements; the space should provide a calm restful environment with all the required elements for efficiency and safety

SPATIAL CHARACTERISTICS

ROOM SIZE	80 ASF
OCCUPANTS	1
WALL FINISH	Painted GWB
FLOOR FINISH	Resilient
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	_
NATURAL LIGHT	-

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt ¹
DATA	Wireless
TELEPHONE	-
AUDIOVISUAL	-
SECURITY	Privacy door lock
LIGHTING	LED

MECHANICAL • PLUMBING

MECHANICAL	-
PLUMBING	Domestic hot + cold water at sink
FLOOR DRAIN	_

FURNISHINGS • FIXTURES • EQUIPMENT

Millwork with base cabinets, a counter, and a sin	ıkcFCI
Soap + paper towel dispensers	CFCI
Task chair on casters	0F0I
Undercounter refrigerator	0F0I

NOTES

1 Provide a dedicated electrical circuit for the refrigerator

FAMILY RESTROOMS (2)

Building Support Family restrooms to be located on each floor

BUILDING STORAGE

Building Support General building storage room near the building entry.

SPATIAL CHARACTERISTICS

ROOM SIZE	80 ASF
OCCUPANTS	1
WALL FINISH	Painted GWB
FLOOR FINISH	Resilient
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	_
NATURAL LIGHT	_

ELECTRICAL • IT • AUDIOVISUAL

Standard 120-volt convenience outlets
Wireless
-
-
Standard door lock
LED

MECHANICAL • PLUMBING

MECHANICAL	-
PLUMBING	Domestic hot + cold water at sink; toilet
FLOOR DRAIN	-

FURNISHINGS • FIXTURES • EQUIPMENT

Wall-mounted toilet with grab bars	CFCI
Wall-mounted sink	CFCI
Wall-mounted mirror above sink	CFCI
Wall-mounted soap dispenser	CFCI
Wall-mounted paper towel dispenser/hand dryer	CFCI
Wall-mounted baby changing station	CFCI

SPATIAL CHARACTERISTICS

ROOM SIZE	200 ASF
OCCUPANTS	-
WALL FINISH	Painted GWB
FLOOR FINISH	Resilient
CEILING FINISH	Suspended acoustical tile
DOOR SIZE	36 inches wide
EXTERIOR ACCESS	_
NATURAL LIGHT	_

ELECTRICAL • IT • AUDIOVISUAL

POWER	Standard 120-volt convenience outlets
DATA	Wireless
TELEPHONE	-
AUDIOVISUAL	_
SECURITY	Standard door lock
LIGHTING	LED

MECHANICAL • PLUMBING

- PLUMBING -
- FLOOR DRAIN -

FURNISHINGS • FIXTURES • EQUIPMENT

PROJECT COST 6

HE TEXAS STATE UNIVERSITY system capital improvement program process requires that project cost estimates be prepared at various stages throughout project development. During preliminary pre-design, project parameters are validated by balancing the project scope with the available budget. Additional estimates are then prepared at planned intervals throughout the design process. Construction cost limitation (CCL) accounts for hard costs only such as construction of building and equipment with hard connection to the building. Total project cost (TPC) accounts for entire project cost including hard costs plus soft costs such as professional fees, design costs, etc. CCL is approximately \$29.9 million and the TPC is \$39.9 million.

DESCRIPTION	ESTIMATE (\$)
Estimate CCL (Construction Cost Limitation)	29,895,000
Construction Contingency (10% within estimate)	-
CCL Reported	29,895,000
Pre-Construction Services (0.25%)	74,738
A-E Services (8%)	2,391,600
FF&E (4%)	1,195,800
IT/AV/Security (SHSU Estimate)	1,257,367
Owner Services (3%)	896,850
Management Fees (3%/\$1 million max)	896,850
Project Contingency (10%)	2,989,500
Art (1%)	298,950
Total Project Cost (TPC)	39,896,655

ESTIMATE ASSUMPTIONS

- Assumes project will use the Construction Manager-at-Risk (CMAR) delivery method
- Construction inflation assumes escalation to the midpoint of construction-1 $^{\rm st}$ quarter of 2026
- Includes demolition of ABIII which includes hazardous material abatement and retaining/reinforcing the retaining wall (see appendix C) at the lower level of the northern edge of the existing building

- Hazardous material abatement (asbestos and lead-based paint) cost allowance provided by Choice Consulting (see appendices D and E)
- Assumes maintaining the existing underground boiler/utility equipment room north of the existing building along with the connection to existing chilled water lines
- Assumes no additional parking, but includes allowance for repairing and minor reconfiguration of the existing parking lot to the west of the site (as a portion of the lot will likely be used as the construction laydown area)
- Assumes all existing utility lines to the west, east, and south of the site will provide capacity to serve the new building
- New electrical transformer to replace the existing located in the service yard at the northwest corner of the site
- Includes allowance for providing temporary electrical service via surface lines from the northwest service yard to maintain electrical service to the parking lot and University signs located to the west of the site
- Assumes no stormwater detention is required
- Site development will include lighting, signage, and landscaping/ hardscape with consideration of the planned future plaza that would replace the parking lot to the west
- Assumes selective tree protection



SHSU / Active Learning Center Programming Space List

Entry/Commons/Student Space	A building where students want to come and hang out; a focus on larger spaces; space for students to engage one-on-one; high visibility, transparency to create opportunity for borrowed light	Occupants	ASF per Person	No.	& Size of Space(s)	SF
Commons	Soft seating (tables) + powered furniture (no long low benches); digital signage (wayfinding, + marking); follow-up presentation			1	@ 1,000 asf	1,000
Food + Beverage "Grab'n'Go"	Prepackaged - not staffed; Aramark			1	@ 200 asf	200
Signature Stair	With integrated public gathering; bar seating overlook and beverage			1	@ 600 asf	600
Small Student Study Pods	Power + WiFi	2		12	@ 25 asf	300
Large Student Collaboration Space	Glassboards; table	4		4	@ 100 asf	400
Distributed Gathering				1	@ 500 asf	500
Entry/Commons/Student Space Total ASF	·			20		3,000

Instruction/Active Learning	"Playground for instruction", invigorate the instructional spaces on campus; built on engagement in classrooms in Farrington (has trapezoid tables); purpose-built, build excitement; paradigm shift in instruction methodology; Remove burden on instructor who want to engage in active learning; Equal opportunity access for active learning spaces; Multiple screens that can show different content; inclusive as possible for as many discipline; 40-50 is typical undergraduate class size; overall average with graduate students is closer to 30-35 class size	Occupants	ASF per Person	No. 3	& Size of Space(s)	SF
"Egg over easy"	Lecture environment + debate; More aisles; open "cracked egg"; smaller scale than tiered; cabinets; writable tables; group	54	46	2	@ 2,500 asf	5,000
Learning Studio	Group/team work; round tables for 6; fixed furniture + technology, smart board + white board; bullpen + podium in middle, could explore iPad solution for technology linked to LCD screens; storage cabinets; flaf floor	36	26	2	@ 930 asf	1,860
Large Learning Studio	Group/team work; round tables for 6; fixed furniture + technology, smart board + white board; bullpen + podium in middle, could explore iPad solution for technology linked to LCD screens; storage cabinets; flat floor	48	26	2	@ 1,240 asf	2,480
Flat-floor Collaboration	Team tables; 6 seat tables	48	52	1	@ 2,500 asf	2,500
Large Tiered Collaboration	Half lecture/half collaboration; Group tables, writable tables, group of 6	96	44	1	@ 4,200 asf	4,200
Storage	Instruction supplies			1	@ 120 asf	120
Triage Room	"Green rooms" for instructor prep, whiteboard, screen	4		2	@ 120 asf	240
Instruction/Active Learning Total ASF				11		16,400

PACE	Faculty are encourage to collaborate; spaces should allow for interaction	Occupants	ASF per Person	No.	& Size of Space(s)	SF
Waiting		4		1	@ 100 asf	100
Reception Desk	Reception - greet guests; staffed by 3 students (with computer station at each); open concept	3	50	1	@ 150 asf	150
Bullpen	Open concept; Stations for 2 admin. + 2 future/flex stations	4	80	1	@ 320 asf	320
Associate Director of Assessment Office (ADA)	Open office to bullpen; high visibility (glass) to bullpen	1		1	@ 120 asf	120
Director Office	Open office to bullpen; high visibility (glass) to bullpen	1		1	@ 120 asf	120
Beverage Alcove	Coffee service; u/c refrigerator, microwave			1	@ 60 asf	60
Conference Room	Break-out room - potential future office	4		1	@ 120 asf	120
Open Collaboration	Flat panel with high- table top peninsula table (6); with glass boards; 2 zones at least; adjacent to Mock Teaching Room (acts as break out space for mock teaching)	12	25	1	@ 300 asf	300
Mock Teaching/Conference Room	Workshops/mini EE's (mini engagements) (30), PACE advisory (12), Staff meetings, (4); groups for 30-60 would be located in adjacent classroom; teaching equipment; projection, flexible tables (nesting tables); video capture; extra power in room; extra power at the front of room	32		1	@ 900 asf	900
Workroom	Printers; copier; storage cabinets; mailboxes (10+)	4		1	@ 120 asf	120
Storage Room	Workshop equipment, carts, podiums			1	@ 120 asf	120
PACE Subtotal ASF				11		2,430
Allowance for Internal Circulation	30%					729
PACE Total ASF						3,159

A PROGRAM OF REQUIREMENTS FOR THE NEW ACTIVE LEARNING CENTER AT SAM HOUSTON STATE UNIVERSITY

SHSU / Active Learning Center Programming Space List

			ASF per			
Building Support		Occupants	Person	No.	& Size of Space(s)	SF
IT Support	Equipment, racks, (data); ideal to be collocated with AV support; demarcation room; allocated in GSF					0
AV Support	Control panels equipment (Technical support in AB I); 1 per floor adjacent to MDF/IDF			2	@ 120 asf	240
Medical Privacy				1	@ 80 asf	80
Family Restroom	One on each floor			2	@ 80 asf	160
Building Storage	Seasonal displays			1	@ 200 asf	200
Building Support Total ASF				6		680

Tot	al ASF	23,239
Total GSF (@ 60% Net/Gross	Ratio)	38,732
APPENDIX B PROGRAMMING COST ESTIMATE

Active Learning Center

Program Estimate		-
	Level 2	10,515
3/26/2024	Level 1	28,217

				38,732	gsf			
Description	Quantity			Extension		Subtotal	Subtotal	Total
ubstructure/Superstructure								
Drilled Piers	81	ea	\$	3,500.00	\$	282,170		
Pier Caps	96	су	\$	700.00	\$	66,885		
Slab on Grade / Grade Beams	28,217	sf	\$	18.00	\$	507,906		
Structural Steel - 12 psf	232	tons	\$	7,500.00	\$	1,740,000		
Misc Steel 1.25. psf	24	tons	\$	8,000.00	\$	192,000		
Composite Deck	10,515	sf	\$	14.25	\$	149,839		
Roof Deck	28,217	sf	\$	7.50	\$	211,628		
Communicating Stairs - 1 each	1	allow	\$	150,000.00	\$	150,000		
Back of House Stairs - 2 each	128	riser	\$	1,200.00	\$	153,103		
Elevator Pits	1	ea	\$	8,500.00	\$	8,500		
Elevator Pit - Service	1	ea	\$	9,000.00	\$	9,000		
Parapet Back-Up	1,320	sf	\$	12.00	\$	15,840		
Bracing @ Retaining Wall	1	allow	\$	150,000.00	\$	150,000		
Moisture Protection	38,732	sf	\$	1.50	\$	58,098		
				Subtotal			\$ 3,694,968	
				Total S	Subs	tructure/Superstru	cture	\$ 3,694,968
viariar Clasura	24 626	ahaya ar	ada					
Cutoinvoll/Storofront/Shading	24,030	above gr	aue	115.00	¢	1 122 056		
	9,004	SI	¢	22.00	¢ Ŷ	1,133,230		
Blick	14,702	SI	¢	32.00	¢	473,011		
Allow for Shades	1	IS	¢	70,951.00	¢	70,952		
Accent Columns/Other	44 700	allow	¢	250,000.00	¢ ¢	250,000		
Back-Op	14,702	SI	¢	9.00	¢	133,034		
Missellenseus Exterior	14,702	SI	¢	10.00	¢	147,010		
Miscellaneous Exterior	1	15	¢	125,000.00	¢ Ò	125,000		
Door/Frame/Hardware - Overnead	1	ea	¢	10,000.00	¢	10,000		
Door/Frame/Hardware - Automatic Glass Entry (2 Entries)	4	ea	\$	12,000.00	¢	48,000		
	4	ea	¢	5,000.00	¢ D	12,000		
Dooi/Frame/Hardware - Hollow Metal - Allow	4	pr	\$	5,000.00	þ	20,000	¢ 0.400.000	
				Subtotal	Tot	al Exterior Closure	\$ 2,429,069 9	\$ 2,429,069
oofing	00 047	af.	•	00.00	¢	700 040		
Rooming System and insulation	20,21/	SI	¢	20.00	¢ D	1 33,042		
Miscellaneous Caulking and Sealants	30,732	SI	¢	1.00	ð	30,732	* 770.074	
				Subtotal	Tot	al Roofing	\$ //2,3/4	\$ 772,374
						Ū		
quipment	~~ ~~	,	•		•	~~ 7~~		
Other Equipment (Miscellaneous)	38,732	st	\$	1.00	\$	38,732		
	~~	-	*		•	100 000		
Security	38,732	sf	\$	5.00	\$	193,660		

Active Learning Center

Program Estimate				-						
		Level 2		10,515						
3/26/2024		Level 1		28,217						
				38,732	gsf					
Description	Quantity			Extension		Subtotal		Subtotal		Total
					Total	Equipment			\$	232,392
Conveying Systems			•	400.000.00	•	400.000				
Elevators - Service (to Root)	1	ea	\$	180,000.00	\$	180,000				
Elevators - Passenger	1	ea	\$	110,000.00	\$	110,000	¢	200.000		
				Subtotal	Total	Conveying	Þ	290,000	\$	290,000
Fire Protection										
Fire Protection - Sprinkler System	38,732	sf	\$	5.00	\$	193.660				
	00,102	01		Subtotal	Ŷ	100,000	\$	193,660		
					Total	Fire Protection	i	,	\$	193,660
Plumbing/Fire Protection										
Fixtures	38,732	sf	\$	5.50	\$	213,026				
Equipment	38,732	sf	\$	1.75	\$	67,781				
Sanitary Waste Piping	38,732	sf	\$	3.00	\$	116,196				
Water Distribution System	38,732	sf	\$	4.00	\$	154,928				
Gas Distribution	38,732	sf	\$	1.25	\$	48,415				
Storm Drainage	28,217	sf	\$	2.00	\$	56,434				
Testing	38,732	sf	\$	1.00	\$	38,732				
Miscellaneous Plumbing	38,732	sf	\$	2.00	\$	77,464				
				Subtotal	Total	Dlumbing	\$	772,976	¢	772 076
					TOtal	Fiumbing			Ψ	112,510
HVAC										
Equipment / New Boiler / Pumps	38,732	sf	\$	6.00	\$	232,392				
Air Handling Units/Outside Air Units	38,732	sf	\$	15.00	\$	580,980				
Toilet Exhaust	38,732	sf	\$	1.00	\$	38,732				
Ductwork and Insulation	38,732	sf	\$	16.00	\$	619,712				
Distribution Devices / Mixing Boxes	38,732	sf	\$	7.00	\$	271,124				
Miscellaneous HVAC	38,732	sf	\$	2.00	\$	77,464				
Piping and Labor	38,732	sf	\$	10.00	\$	387,320				
Air System/Controls	38,732	sf	\$	8.00	\$	309,856				
Test and Balance - Coordination	38,732	st	\$	0.50 Subtotal	\$	19,366	\$	2.536.946		
				oubtotui	Total	HVAC	Ψ	2,000,040	\$	2,536,946
Electrical										
Switchboard and Distribution	38,732	sf	\$	16.00	\$	619,712				
Emergency Generator / Transfer / Distribution	38,732	sf	\$	2.00	\$	77,464				
Motor and Equipment Connections	38,732	sf	\$	5.00	\$	193,660				
Light Fixtures/Control	38,732	sf	\$	13.00	\$	503,516				
Devices	38,732	sf	\$	6.00	\$	232,392				

Sam Houston State University Active Learning Center

Program Estimate		-
	Level 2	10,515
3/26/2024	Level 1	28,217

38,732	gsf
	3

Description	Quantity		E	xtension	5	Subtotal	Subtotal	Total
Lighting and Power Distribution	38,732	sf	\$	13.00	\$	503,516		
Security - Rough-In for CCTV/Card Readers	38,732	sf	\$	2.50	\$	96,830		
Fire Alarm System	38,732	sf	\$	2.75	\$	106,513		
Miscellaneous	38,732	sf	\$	1.00	\$	38,732		
Grounding	38,732	sf	\$	0.75	\$	29,049		
				Subtotal			\$ 2,401,384	
					Total I	Electrical		\$ 2,401,384
Communications								
AV - Rough-In	38,732	sf	\$	4.00	\$	154,928		
Telephone/Data	38,732	sf	\$	10.00	\$	387,320		
				Subtotal			\$ 542,248	

Total Communications \$ 542,248 \$ 13,866,018 Subtotal General Contractor Fee/General Conditions/Bond 14.00% \$ 1,941,242 \$ 15,807,260 Subtotal **Programmer's Estimating Contingency** 10.00% \$ 1,580,726 Subtotal \$ 17,387,986 Escalation - thru 1st Quarter 2026 10.00% \$ 1,738,799

\$

19,126,785

TOTAL BASE BUILDING

BUILD OUT

ENTRY +	COMMONS / STUDENT SPACE				
Con	nmons	1,000	sf	\$ 155.00	\$ 155,000
Foo	d + Beverage	200	sf	\$ 117.00	\$ 23,400
Sigr	nature Stair	600	sf	above	\$ -
Sma	all Student Study Pod	300	sf	\$ 285.00	\$ 85,500
Larg	ge Student Collaboration Space	400	sf	\$ 185.00	\$ 74,000
Dist	ributed Gathering	500	sf	\$ 123.00	\$ 61,500
INSTRUC	TION / ACTIVE LEARNING				
"Eg	lg Over Easy"	5,000	sf	\$ 229.00	\$ 1,145,000
Lea	arning Studios	1,860	sf	\$ 290.00	\$ 539,400
Lar	ge Learning Studios	2,480	sf	\$ 277.00	\$ 686,960
Fla	t-Floor Collaboration	2,500	sf	\$ 223.00	\$ 557,500
Tie	red Collaboration	4,200	sf	\$ 253.00	\$ 1,062,600
Tria	age Rooms	240	sf	\$ 110.00	\$ 26,400
Sto	rage	120	sf	\$ 77.00	\$ 9,240
PACE					
Wai	ting	100	sf	\$ 146.00	\$ 14,600
Rec	eption Desk	150	sf	\$ 142.00	\$ 21,300

Active Learning Center Program Estimate

ogram Estimate		-
	Level 2	10,515
3/26/2024	Level 1	28,217

Description	Quantity		E	xtension	Subtotal	Subtotal	Total
Bullpen	320	sf	\$	57.00	\$ 18,240		
Associate Director of Assessment Office	120	sf	\$	130.00	\$ 15,600		
Director Office	120	sf	\$	130.00	\$ 15,600		
Open Collaboration	300	sf	\$	134.00	\$ 40,200		
Conference Room	120	sf	\$	230.00	\$ 27,600		
Mock Teaching / Conference Room	900	sf	\$	242.00	\$ 217,800		
Beverage Alcove	60	sf	\$	260.00	\$ 15,600		
Workroom	120	sf	\$	200.00	\$ 24,000		
Storage	120	sf	\$	78.00	\$ 9,360		
Allowance for Internal Circulation (30%)	729	sf	\$	35.00	\$ 25,515		
BUILDING SUPPORT							
A/V Support	240	sf	\$	231.00	\$ 55,440		
Medical Privacy	80	sf	\$	223.00	\$ 17,840		
Family Restrooms	160	sf	\$	267.00	\$ 42,720		
Building Storage	200	sf	\$	61.00	\$ 12,200		
Total ASF	23,239	asf					
Unassigned	15,493	sf	\$	40.00	\$ 619,720.00		
Total GSF	38,732	gsf					

-

38,732 gsf

Subtotal	\$ 5,619,835
General Contractor Fee/General Conditions/Bond 14.00%	\$ 786,777
Subtotal	\$ 6,406,612
Programmer's Estimating Contingency 10.00%	\$ 640,661
Subtotal	\$ 7,047,273
Escalation - thru 1st Quarter 2026 10.00%	\$ 704,727
TOTAL BUILD-OUT	\$ 7,752,000

SITEWORK

Demolition

Site							
Building Demolition / Saw Cut	51,872	sf	\$	10.00	\$	518,720	
Protection of Existing Boiler Room / Retaining Wall	1	allow	\$	20,000.00	\$	20,000	
Site Demolition / Sidewalk	1	ls	\$	25,000.00	\$	25,000	
Remove Sanitary	200	lf	\$	35.00	\$	7,000	
Air Quality	1	ls	\$	75,000.00	\$	75,000	
Specifications and Reporting	1	ls	\$	7,500.00	\$	7,500	
Abatement	1	allow	\$	450,000.00	\$	450,000	
			Subtota	al Site Demoliti	on		\$ 1,103,220
Earthwork							
Clear, Rough Grade / Infill @ Parking Demo	50,000	sf	\$	1.25	\$	62,500	
Building Pad / Infill @ Demo	4,180	су	\$	28.00	\$	117,048	
Fine Grade	50,000	sf	\$	1.35	\$	67,500	

Active	Learning	Center
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Program Estimate		-
	Level 2	10,515
3/26/2024	Level 1	28,217

38,732 gsf

Description	Quantity		I	Extension	Su	btotal		Subtotal	Tot
			Subto	otal Earthwork			\$	247,048	
Environmental									
Allow for Tree Protection	1	ls	\$	20,000.00	\$	20,000			
Storm Water Pollution Prevention Plan	1	ls	\$	25,000.00	\$	25,000			
Deview			Subto	al Environmen	it		\$	45,000	
Paving	4 000	-1	¢	7.00	¢	00.000			
	4,000	ST	\$	7.00	ቅ	28,000			
Repair Parking @ Laydown	1	IS	\$ ¢	30,000.00	Ъ	30,000			
Roadway @ Farrington / Traffic Control / Routing	1	IS	\$	10,000.00	Э	10,000			
Maintain and Reconfigure Parking	1	ls	\$	15,000.00	\$	15,000	•		
Landogano			Subto	tal Pavements	6		\$	83,000	
	4	مالمير	¢	75 000 00	¢	75 000			
Lanuscape	I	allow	⊅ btotollo	/ 5,000.00	φ 	75,000	¢	75.000	
Site Improvements		อน	ibiolal La	nuscape/nard	scape		φ	75,000	
	1	le	¢	25 000 00	\$	25 000			
Allow for Poteining Wall	200	IS If	¢	20,000.00	φ ¢	20,000			
	200	" Su	φ htotal La	00.000	Ψ ecane	00,000	¢	85 000	
Utilities		54		inuscape/naiu	scape		φ	05,000	
Storm System									
Site Storm System - Modify	1	allow	\$	25,000.00	\$	25,000			
Sanitary System									
Sanitary Waste System	80	lf	\$	150.00	\$	12,000			
Tie To Existing / Repair	1	ls	\$	15,000.00	\$	15,000			
Domestic Water Utility + Fire line									
Extend 4" Pipe / Repairs	25	lf	\$	150.00	\$	3.750			
Extend 8" Pipe / Repairs	25	lf	\$	200.00	\$	5,000			
Tie to Existing	1	ls	\$	25,000.00	\$	25,000			
Natural Gas	,	ь.	<u>^</u>	05 000 00	¢	05 000			
New Gas Meter	1	IS Ic	\$	25,000.00	\$ ¢	25,000			
Gas Line / The to Existing	I	IS	¢	30,000.00	¢	30,000			
Additional Work Associated with Utilities									
Protect and Avoid Existing Utilities	1	ls	\$	25,000.00	\$	25,000			
RVAU PIPING			¢		¢				
Retain Existing 6" Supply and Return Line	-		\$	-	φ	-			
Electrical									
Replace 750 KVA Transformer	1	ls	\$	175,000.00	\$	175,000			
Temporary Panel and Power for Parking/Signage/Construction	1	ls	\$	75,000.00	\$	75,000			
	•	-	+	.,	,	.,			

Active Learning Center

Program Estimate		-
	Level 2	10,515
3/26/2024	Level 1	28,217

				38,732	gsf				
Description	Quantity		E	Extension		Subtotal	Subtotal		Total
Miscellaneous Site Electrical	1	ls	\$	25,000.00	\$	25,000			
Security									
Exterior Security	1	ls	\$	15,000.00	\$	15,000			
Telecommunications Utility									
Pull New Communications Through Existing Pathway	110	lf	\$	250.00	\$	27,500			
Remove and Reconnect	1	ea	\$	5,000.00	\$	5,000			
Work in Existing MH	1	ls	\$	10,000.00	\$	10,000		_	
			Sub	total Utilities			\$ 528,250		
Signage									
Building Signage	1	ea	\$	20,000.00	\$	20,000		-	
			Sub	total Signage			\$ 20,000		
			Subt	otal Sitework				\$	2,186,518
	General Contractor F	ee/Genera	al Cond	itions/Bond		14.00%		\$	306,113
				Subtotal				\$	2,492,631
	Programmer's E	stimating	Contin	igency		10.00%		\$	249,263
				Subtotal				\$	2,741,894
	Escalation -	thru 1st Q	uarter	2026		10.00%		\$	274,189
			TOTA	AL SITEWORK				\$	3,016,083
		TOTAL B	UILDIN	G	\$	19,126,785	\$ 493.82		
		TOTAL BI	JILD-OI	UT	\$	7.752.000	\$ 200.14		
		TOTAL SI	TEWOF	RK	\$	3,016,083	\$ 77.87	<u>-</u>	
	то	TAL CON	STRUC	TION	\$	29.894.869	\$ 771.84		

-

APPENDIX RETAINING WALL REQUIREMENTS

HE EXISTING ABIII LOWER-LEVEL northern wall is reinforced to act as a retaining wall against the 10-foot plus elevation change which occurs at that location. It will be essential to maintain this retaining wall throughout demolition and construction of the new structure. After consultation with a structural engineer, it has been determined that the best course of action is to add additional structural bracing to the retaining wall prior to demolition. This bracing would consist of providing a steel structural waler to brace the wall horizontally and adding standard pipe braces at each of the existing structural columns. After the new bracing is installed, the second floor slab can be saw-cut as part of the demolition. The bracing can be left in place or removed if the new structural system for the Active Learning Center is properly designed and constructed to reinforce/integrate with the retaining wall.

Diagrams of the suggested configuration for the structural bracing is available on the following pages.





APPENDIX D ASBESTOS INSPECTION REPORT



PO Box 12333

College Station, Texas 77842 979-492-5104 979-431-0007 Fax

October 2, 2023

Sam Houston State University Mr. Eduardo Grajeda (936) 294-4199

RE: Asbestos Inspection – Sam Houston State University – Academic Building III – 1st Floor – 1922 Avenue J, Huntsville, TX 77340

Mr. Grajeda:

On September 11th and 12th, 2023, at your request, a representative of Choice Consulting, LLC, conducted an asbestos inspection of the above referenced structure.

The purpose of the asbestos inspection was to confirm or rebut the presence of accessible asbestos-containing building materials (ACBM) that may be disturbed prior to renovation/demolition activities.

Friable asbestos-containing material refers to material, which contains more than one (>1%) percent asbestos by weight and when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. **Non-friable** asbestos-containing material is any material containing more than one (>1%) percent asbestos by weight and when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure.

October 2, 2023

The Federal National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 Code of Federal Regulations (CFR) Part 61, subpart M, and the Texas Department of State Health Services (DSHS) Texas Asbestos Health Protection Rules (TAHPR) requires that prior to any renovation or demolition of a commercial or public building that it must be inspected for the presence of suspect ACBM.

The scope of work and services provided include:

- Field investigation and visual observations
- Define homogeneous areas and sampling strategy
- Sampling of suspect ACBM
- ♦ Analysis of suspect ACBM
- Collect information on the condition and friability of ACBM

Suspect ACBM was physically handled to determine friability and bulk samples were obtained for analysis. The inspection involved sampling of forty (40) suspect asbestos-containing building materials and analyzing samples under Polarized Light Microscopy with Dispersion Staining (PLM/DS) EPA Method 600 /R-93/ 116. The PLM results, chain of custody forms, sample location drawings and asbestos licenses are attached to this report.

RESULTS

The following materials were confirmed to contain asbestos by laboratory analysis:

Dark Gray Floor Tile & Black Mastic (w/some Off-White Floor Tiles) -Approximately 500 SF

The dark gray floor tile located in Corridor 100C4 was found to contain 5% chrysotile asbestos as well as its associated black mastic. The material was non-friable and in good condition at the time of the inspection.

Brown Cove Base Mastic - Approximately 900 LF

The brown cove base mastic located in Corridor 100C4, Stairwells, 100 Area, 100U6, 123, 124, 125 & 126 was found to contain 2% chrysotile asbestos. The material was generally non-friable and in fair condition at the time of the inspection.

Beige/Tan Floor Tile & Black Mastic - Approximately 400 SF

The beige/tan floor tile located in Stairwells was found to contain 5% chrysotile asbestos as well as its associated black mastic. The material was generally non-friable and in fair condition at the time of the inspection.

Concrete Ceiling and Column Texture - Approximately 18,400 SF

The concrete ceiling and column texture located throughout was found to contain 2% chrysotile asbestos. The material was non-friable and in good condition at the time of the inspection.

Black Mastic Associated with Beige Floor Tile - Approximately 2,700 SF

The black mastic associated with beige floor tile located under vinyl plank flooring in 110 & 114 Areas was found to contain 3% chrysotile asbestos. The material was generally non-friable and in fair condition at the time of the inspection.

Interior Window Caulk - Approximately 600 LF

The interior window caulk located throughout was found to contain 5% chrysotile asbestos. The material was non-friable and in good condition at the time of the inspection.

Brown/Maroon Floor Tile & Black Mastic - Approximately 10 LF

The brown/maroon floor tile debris located in 100U6 was found to contain 5% chrysotile asbestos as well as its associated black mastic. The material was generally non-friable and in poor condition at the time of the inspection.

Black Mastic Residue - Approximately 250 LF

The black mastic residue located in 100U6 was found to contain 5% chrysotile asbestos. The material was generally non-friable and in poor condition at the time of the inspection.

Stairs Caulk - Approximately 100 LF

The stairs caulk located in Stairwells was found to contain 5% chrysotile asbestos. The material was generally non-friable and in fair condition at the time of the inspection.

Black Mastic Associated with Gray Floor Tile - Approximately 2,100 SF

The black mastic associated with gray floor tile located under carpet in some areas in west side of building was found to contain 5% chrysotile asbestos. The material was generally non-friable and in fair condition at the time of the inspection.

Black Mastic Associated with Gray Ceramic Tile - Approximately 40 SF

The black mastic associated with gray ceramic tile in 116 was found to contain 5% chrysotile asbestos. The material was non-friable and in fair condition at the time of the inspection.

Thermal System Insulation – Approximately 1,500 LF

The thermal system insulation located throughout was identified in a 2018 asbestos inspection to contain 15% chrysotile asbestos and 15% amosite asbestos. The material was generally non-friable and in fair condition. (Note: some localized damage was observed in 100 area above ceiling tiles)

Exterior Window/Door Caulk – Approximately 650 LF

The exterior window and door caulk located throughout was identified in a 2018 asbestos inspection to contain 3% chrysotile asbestos. The material was generally non-friable and in fair condition at the time of inspection.

Exterior Window Glazing – Approximately 1,400 LF

The exterior window glazing located throughout was identified in a 2018 asbestos inspection to contain 2% chrysotile asbestos. The material was generally non-friable and in fair condition at the time of inspection.

ALL OTHER SAMPLES COLLECTED AND ANALYZED WERE "NONE DETECTED" FOR ASBESTOS.

New building materials manufactures labels or material safety data sheets (MSDS) should be reviewed and documented to ensure that no asbestos-containing building products are used during future construction.

LIMITATIONS

This report only applies to the scope of work described herein. This report describes existing conditions at the time of services. Conditions of ACBM may change as a result of damage, deterioration, vandalism or other disturbance and may increase the potential for elevated fiber levels.

This report applies only to accessible areas observed during our field services. Asbestos-containing materials may exist in concealed inaccessible enclosures, such as areas enclosed by permanent partitions, walls, chases, shafts, equipment etc. Material locations and quantities are estimates only and may vary.

Although a good-faith effort was made to locate ACBM in the area within the scope of work, extensive destructive inspection and/or testing was not conducted due to the expense, potential exposure hazards and/or potential regulatory violations.

Inspection and testing for other hazardous or regulated materials was not included in our scope of work.

Per the DSHS TAPHR this report may not be used as a project design specification for asbestos abatement. Design and/or abatement air monitoring services were not included in the scope of work. Choice Consulting, LLC makes no warranty and assumes no liability for the inappropriate use or misuse of this document.

Please let me know if you have any questions or if you would like asbestos removal bids and a proposal for our air monitoring services.

CHOICE CONSULTING, LLC

BARL.

Brent W. Plant Individual Asbestos Consultant License No. 10-5636 Consultant Agency License 10-0480

Javier Murillo Asbestos Inspector License No. 60-2778



NVLAP Lab Code 102056-0 TDSHS License No. 300084

9

2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460

Client :	Choice Consulting, LLC	Lab Job No. : 23B-11145
Project :	SHSU, Academic Building III, 1922 Ave J, Huntsville, TX	Report Date : 09/21/2023
Project # :	Not Provided	Sample Date :09/11/2023 &
Identification :	Asbestos, Bulk Sample Analysis	09/12/2023
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	Page 1 of

Sample Number	Client Sample Description / Location	Asbestos Content
01A	Floor Tile (Dark Grey) and Mastic (Black), 100C4 Corridor West	5% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic None Detected - Leveling Compound
01B	Floor Tile (Dark Grey) and Mastic (Black), 100C4 Corridor West	Not Analyzed - Positive Stop
01C	Floor Tile (Dark Grey) and Mastic (Black), 100C4 Corridor Center	Not Analyzed - Positive Stop
02A	Cove Base Mastic (Brown), 100C4 Corridor by 113	2% Chrysotile - Brown Mastic 1 None Detected - Brown Mastic 2
02B	Cove Base Mastic (Brown), 100V6	Not Analyzed - Positive Stop
02C	Cove Base Mastic (Brown), 100C1 Corridor West	Not Analyzed - Positive Stop
03A	Interior Door Caulk, 100C4 Corridor by 113A	None Detected - Caulking
03B	Interior Door Caulk, 100C4 Corridor by 113A	None Detected - Caulking
03C	Interior Door Caulk, 100C4 Corridor by 113A	None Detected - Caulking
04A	Floor Tile (Beige / Tan) and Mastic (Black), 100S3	5% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
04B	Floor Tile (Beige / Tan) and Mastic (Black), 100S2	Not Analyzed - Positive Stop
04C	Floor Tile (Beige / Tan) and Mastic (Black), 100S4	Not Analyzed - Positive Stop
05A	Sink Undercoating (Grey), 116A Office	None Detected - Sink Undercoating
05B	Sink Undercoating (Grey), 116A Office	None Detected - Sink Undercoating
05C	Sink Undercoating (Grey), 116A Office	None Detected - Sink Undercoating
06A	Ceiling Concrete Texture, 100S3	2% Chrysotile - Texture
06B	Ceiling Concrete Texture, 100V6	Not Analyzed - Positive Stop
06C	Ceiling Concrete Texture, 116A Office North	Not Analyzed - Positive Stop



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2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460

Choice Consulting, LLC	Lab Job No. : 23B-11145
SHSU, Academic Building III, 1922 Ave J, Huntsville, TX	Report Date : 09/21/2023
Not Provided	Sample Date :09/11/2023 &
Asbestos, Bulk Sample Analysis	09/12/2023
Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
EPA Method 600 / R-93 / 116	Page 2 of 9
	Choice Consulting, LLC SHSU, Academic Building III, 1922 Ave J, Huntsville, TX Not Provided Asbestos, Bulk Sample Analysis Polarized Light Microscopy / Dispersion Staining (PLM/DS) EPA Method 600 / R-93 / 116

Sample Number	Client Sample Description / Location	Asbestos Content
07A	2 x 2 Ceiling Tile (Pinholes), 100C4 Corridor West	None Detected - Acoustic Tile
07B	2 x 2 Ceiling Tile (Pinholes), 100C1	None Detected - Acoustic Tile
07C	2 x 2 Ceiling Tile (Pinholes), 116A Office North	None Detected - Acoustic Tile
08A	Texture (Light Tree Bark), Joint Compound, Sheetrock, 100C4 Corridor West	None Detected - Drywall Material None Detected - Texture / Joint Cmpd
08B	Texture (Light Tree Bark), Joint Compound, Sheetrock, 100C4 Corridor West	None Detected - Drywall Material None Detected - Texture / Joint Cmpd
08C	Texture (Light Tree Bark), Joint Compound, Sheetrock, 100C4 Corridor West	None Detected - Drywall Material None Detected - Texture / Joint Cmpd
09A	Sealant Caulk (Red), 100C4 Corridor	None Detected - Sealant
09B	Sealant Caulk (Red), 100V6	None Detected - Sealant
09C	Sealant Caulk (Red), 116D	None Detected - Sealant
10A	Brick Texture, 100C4 Corridor	None Detected - Brick None Detected - Mortar None Detected - Paint
10B	Brick Texture, 125 Vestibule	None Detected - Brick None Detected - Mortar None Detected - Paint
10C	Brick Texture, 116 Office	None Detected - Brick None Detected - Mortar None Detected - Paint
11A	Concrete Texture (Flat), 100C4 Corridor	2% Chrysotile - Texture
11B	Concrete Texture (Flat), 100C1 West	Not Analyzed - Positive Stop
11C	Concrete Texture (Flat), 100T1	Not Analyzed - Positive Stop
12A	Stair Tread Mastic (Brown and Yellow), 100S2	None Detected - Brown Mastic No Yellow Mastic



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Project :	SHSU, Academic Building III, 1922 Ave J, Huntsville, TX	Report Date : 09/21/2023
Project # :	Not Provided	Sample Date :09/11/2023 &
Identification :	Asbestos, Bulk Sample Analysis	09/12/2023
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	Page 3 of 9

Sample Number	Client Sample Description / Location	Asbestos Content
12B	Stair Tread Mastic (Brown and Yellow), 100S1	None Detected - Brown Mastic None Detected - Yellow Mastic
12C	Stair Tread Mastic (Brown and Yellow), 100S4	None Detected - Brown Mastic None Detected - Yellow Mastic
13A	Floor Tile (Beige / Off-White) and Mastic (Black / Yellow), 100C4 Corridor East	None Detected - Floor Tile None Detected - Yellow Mastic 5% Chrysotile - Black Mastic
13B	Floor Tile (Beige / Off-White) and Mastic (Black / Yellow), 100C4 Corridor Center	Not Analyzed - Positive Stop
13C	Floor Tile (Beige / Off-White) and Mastic (Black / Yellow), 100C4 Corridor West	Not Analyzed - Positive Stop
14A	TSI, 100C4 Corridor East	None Detected - Thermal Insulation None Detected - Cotton Wrap
14B	TSI, 100V6	None Detected - Thermal Insulation None Detected - Cotton Wrap
14C	TSI, 116F	None Detected - Thermal Insulation None Detected - Cotton Wrap
15A	Pipe Insulation Mastic, 100C4 Corridor East	None Detected - Thermal Insulation None Detected - Paper / Foil Wrap None Detected - White Mastic
15B	Pipe Insulation Mastic, 100V3	None Detected - Thermal Insulation None Detected - Glass Fiber Mesh None Detected - White Mastic
15C	Pipe Insulation Mastic, 110	None Detected - Thermal Insulation None Detected - Paper / Foil Wrap None Detected - White Mastic
16A	Cove Base Mastic (Beige), 113B	None Detected - Beige Mastic
16B	Cove Base Mastic (Beige), 104 Southwest	None Detected - Beige Mastic



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Project # :	Not Provided	Sample Date :09/11/2023 &
Identification :	Asbestos, Bulk Sample Analysis	09/12/2023
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	Page 4 of 9

Sample Number	Client Sample Description / Location	Asbestos Content
16C	Cove Base Mastic (Beige), 116A North	None Detected - Beige Mastic
17A	Wood Panel Texture, 113B	None Detected - Texture
17B	Wood Panel Texture, 113B	None Detected - Texture
17C	Wood Panel Texture, 100C4 Corridor West	None Detected - Texture
18A	Wall Mastic (Beige), 100V2	None Detected - Beige Mastic
18B	Wall Mastic (Beige), 100V2	None Detected - Beige Mastic
18C	Wall Mastic (Beige), 100V2	None Detected - Beige Mastic
19A	Carpet Mastic (Yellow), 113A	None Detected - Yellow Mastic
19B	Carpet Mastic (Yellow), 116A North	None Detected - Yellow Mastic
19C	Carpet Mastic (Yellow), 116C	None Detected - Yellow Mastic
20A	Floor Tile (Dark Grey) and Mastic (Yellow), 113	None Detected - Floor Tile None Detected - Yellow Mastic
20B	Floor Tile (Dark Grey) and Mastic (Yellow), 113	None Detected - Floor Tile None Detected - Yellow Mastic
20C	Floor Tile (Dark Grey) and Mastic (Yellow), 113	None Detected - Floor Tile None Detected - Yellow Mastic
21A	Pipe Insulation Mastic (White), 100V3	None Detected - Insulation None Detected - Glass Fiber Mesh None Detected - White Mastic
21B	Pipe Insulation Mastic (White), 100C1 East	None Detected - Insulation None Detected - Paper / Foil Wrap None Detected - White Mastic
21C	Pipe Insulation Mastic (White), 100C1 Center	None Detected - Insulation None Detected - Paper / Foil Wrap None Detected - White Mastic



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Identification :	Asbestos, Bulk Sample Analysis	09/12/2023
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	Page 5 of 9

Sample Number	Client Sample Description / Location	Asbestos Content
22A	Ceramic Tile (Red) and Grout, 100V3	None Detected - Ceramic Tile None Detected - Grout
22B	Ceramic Tile (Red) and Grout, 116D	None Detected - Ceramic Tile None Detected - Grout
22C	Ceramic Tile (Red) and Grout, 100C1 East	None Detected - Ceramic Tile None Detected - Grout
23A	Duct Caulk (Grey), 100V3	None Detected - Caulking
23B	Duct Caulk (Grey), 100V6	None Detected - Caulking
23C	Duct Caulk (Grey), 100V3	None Detected - Caulking
24A	Sheet Flooring and Subfloor, 104B	None Detected - Blue Mastic None Detected - Sheet Flooring None Detected - Fiber Backing
24B	Sheet Flooring and Subfloor, 104 Southwest	None Detected - Blue Mastic None Detected - Sheet Flooring None Detected - Fiber Backing
24C	Sheet Flooring and Subfloor, 104 North	None Detected - Blue Mastic None Detected - Sheet Flooring None Detected - Fiber Backing
25A	Texture (Light Orange Peel), Joint Compound, Sheetrock, 104B	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture
25B	Texture (Light Orange Peel), Joint Compound, Sheetrock, 100C3 North	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture
25C	Texture (Light Orange Peel), Joint Compound, Sheetrock, 103	None Detected - Drywall Material None Detected - Joint Compound None Detected - Texture
	1	

Moody Labs

NVLAP Lab Code 102056-0 TDSHS License No. 300084

2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460

Client :	Choice Consulting, LLC	Lab Job No. : 23B-11145
Project :	SHSU, Academic Building III, 1922 Ave J, Huntsville, TX	Report Date : 09/21/2023
Project # :	Not Provided	Sample Date :09/11/2023 &
Identification :	Asbestos, Bulk Sample Analysis	09/12/2023
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	Page 6 of 9

Sample Number	Client Sample Description / Location	Asbestos Content
26A	Vinyl Flooring, Floor Tile (Beige) and Mastic (Black / Yellow), 114	None Detected - Sheet Flooring None Detected - Yellow Mastic None Detected - Floor Tile 3% Chrysotile - Black Mastic
26B	Vinyl Flooring, Floor Tile (Beige) and Mastic (Black / Yellow), 100C3	Not Analyzed - Positive Stop
26C	Vinyl Flooring, Floor Tile (Beige) and Mastic (Black / Yellow), 100C3	Not Analyzed - Positive Stop
27A	Cove Base Mastic (Beige and Yellow), 100C3 North	None Detected - Beige Mastic None Detected - Yellow Mastic
27B	Cove Base Mastic (Beige and Yellow), 100V6	None Detected - Beige Mastic None Detected - Yellow Mastic
27C	Cove Base Mastic (Beige and Yellow), 100V6	No Beige Mastic None Detected - Yellow Mastic
28A	Interior Window Caulk, 114	None Detected - Caulking
28B	Interior Window Caulk, 100T1	5% Chrysotile - Caulking
28C	Interior Window Caulk, 100M1	Not Analyzed - Positive Stop
29A	Floor Tile (Brown / Maroon) and Mastic (Black), 100V6	5% Chrysotile - Floor Tile 5% Chrysotile - Black Mastic
29B	Floor Tile (Brown / Maroon) and Mastic (Black), 100V6	Not Analyzed - Positive Stop
29C	Floor Tile (Brown / Maroon) and Mastic (Black), 100V6	Not Analyzed - Positive Stop
30A	Mastic Residue (Black), 100V6	5% Chrysotile - Black Mastic
30B	Mastic Residue (Black), 100V6	Not Analyzed - Positive Stop
30C	Mastic Residue (Black), 100V6	Not Analyzed - Positive Stop
31A	Stair Tread Caulk, 100S1	None Detected - Caulking



NVLAP Lab Code 102056-0 TDSHS License No. 300084

2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460

Client :	Choice Consulting, LLC	Lab Job No. : 23B-11145
Project :	SHSU, Academic Building III, 1922 Ave J, Huntsville, TX	Report Date : 09/21/2023
Project # :	Not Provided	Sample Date :09/11/2023 &
Identification :	Asbestos, Bulk Sample Analysis	09/12/2023
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	Page 7 of 9

Sample Number	Client Sample Description / Location	Asbestos Content
31B	Stair Tread Caulk, 100S4	5% Chrysotile - Old Caulking None Detected - New Caulking
31C	Stair Tread Caulk, 100S3	Not Analyzed - Positive Stop
32A	Floor Tile (Grey) and Mastic (Black), 125	None Detected - Floor Tile 5% Chrysotile - Black Mastic
32B	Floor Tile (Grey) and Mastic (Black), 127A	Not Analyzed - Positive Stop
32C	Floor Tile (Grey) and Mastic (Black), 116	Not Analyzed - Positive Stop
33A	Sheetrock and Wallpaper, 116A North	None Detected - Drywall Material None Detected - Wall Covering
33B	Sheetrock and Wallpaper, 116A	None Detected - Drywall Material None Detected - Wall Covering
33C	Sheetrock and Wallpaper, 116	None Detected - Drywall Material None Detected - Wall Covering
34A	Cove Base Mastic (Beige and Black), 116A	None Detected - Beige Mastic None Detected - Brown Mastic
34B	Cove Base Mastic (Beige and Black), 116	None Detected - Beige Mastic None Detected - Brown Mastic
34C	Cove Base Mastic (Beige and Black), 116	None Detected - Beige Mastic None Detected - Brown Mastic
35A	2 x 2 Ceiling Tile (Pinholes and Fissures), 100T1	None Detected - Acoustic Tile
35B	2 x 2 Ceiling Tile (Pinholes and Fissures), 116B	None Detected - Acoustic Tile
35C	2 x 2 Ceiling Tile (Pinholes and Fissures), 127A	None Detected - Acoustic Tile
36A	CMU Texture, 116D	None Detected - CMU None Detected - Paint / Texture
36B	CMU Texture, 116D	None Detected - CMU None Detected - Paint / Texture

Moody Labs

NVLAP Lab Code 102056-0 TDSHS License No. 300084

2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460

Client :	Choice Consulting, LLC	Lab Job No. : 23B-11145
Project :	SHSU, Academic Building III, 1922 Ave J, Huntsville, TX	Report Date : 09/21/2023
Project # :	Not Provided	Sample Date :09/11/2023 &
Identification :	Asbestos, Bulk Sample Analysis	09/12/2023
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	Page 8 of 9

Sample Number	Client Sample Description / Location Asbestos Content	
36C	CMU Texture, 116D	None Detected - CMU None Detected - Paint / Texture
37A	Ceramic Tile (Grey) and Grout with Mastic (Black), 116	None Detected - Ceramic Tile None Detected - Grout 5% Chrysotile - Black Mastic
37B	Ceramic Tile (Grey) and Grout with Mastic (Black), 116	Not Analyzed - Positive Stop
37C	Ceramic Tile (Grey) and Grout with Mastic (Black), 116	Not Analyzed - Positive Stop
38A	Ceramic Tile (Beige) and Grout, 116A	None Detected - Yellow Mastic None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
38B	Ceramic Tile (Beige) and Grout, 116A	None Detected - Yellow Mastic None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
38C	Ceramic Tile (Beige) and Grout, 116A	None Detected - Yellow Mastic None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
39A	Compound (Debris), 103	None Detected - Drywall Material None Detected - Joint Compound
39B	Compound (Debris), 103	None Detected - Drywall Material None Detected - Joint Compound
39C	Compound (Debris), 103	None Detected - Drywall Material No Joint Compound
40A	Vinyl Flooring and Mastic (Yellow), 200S4	None Detected - Flooring None Detected - Yellow Mastic
40B	Vinyl Flooring and Mastic (Yellow), 200S1	None Detected - Flooring None Detected - Yellow Mastic



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2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460

Client :	Choice Consulting, LLC	Lab Job No. : 23B-11145
Project :	SHSU, Academic Building III, 1922 Ave J, Huntsville, TX	Report Date : 09/21/2023
Project # :	Not Provided	Sample Date :09/11/2023 &
Identification :	Asbestos, Bulk Sample Analysis	09/12/2023
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)	
	EPA Method 600 / R-93 / 116	Page 9 of 9

Sample Number	Client Sample Description /	Location	Asbestos Content
40C	Vinyl Flooring and Mastic (Yellow), 30	00S2	None Detected - Flooring None Detected - Yellow Mastic
These samples were analyzed by layers. Quantification, unless otherwise noted, is performed by calibrated visual estimate. The test report shall not be reproduced except in full without written approval of the laboratory. The results relate only to the items tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government. Accredited by the National Voluntary Laboratory Accreditation Program for Bulk Asbestos Fiber Analysis under Lab Code 102056-0.			
Analyst(s): Amy Le	e, Brian R. Schmidt, Nathan Wood		Meathe Lois
Lab Manager : Hea	ther Lopez	Approved Signatory	
Lab Director : Bruc	e Crabb Thank you for choo	Approved Signatory	Bune Cull

 2051 Valley View Lane
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PLM Detail Report

NVLAP Lab Code 102056-0 TDSHS License No. 300084

Supplement to PLM Summary Report

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Choice Consulting, LLC

Moody Labs

Lab Job No. : 23B-11145 Report Date : 09/21/2023

Project : SHSU, Academic Building III, 1922 Ave J, Huntsville, TX Project # : Not Provided

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
01A	Floor Tile (Grey)	63%	Chrysotile	5%	09/20	BS
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	2%	Chrysotile	5%		
			Tar Binders	95%		
	Leveling Compound (Grey)	35%	Aggregate	40%		
			Calcite / Binders	60%		
01B	Not Analyzed - Positive Stop	100%			09/20	BS
01C	Not Analyzed - Positive Stop	100%			09/20	BS
02A	Brown Mastic 1 (Brown)	10%	Chrysotile	2%	09/20	BS
			Glue Binders	98%		
	Brown Mastic 2 (Dark Brown)	90%	Glue Binders	100%		
02B	Not Analyzed - Positive Stop	100%			09/20	BS
02C	Not Analyzed - Positive Stop	100%			09/20	BS
03A	Caulking (Off-White)	100%	Calcite	50%	09/20	BS
			Binders / Fillers	50%		
03B	Caulking (Off-White)	100%	Calcite	50%	09/20	BS
			Binders / Fillers	50%		
03C	Caulking (Off-White)	100%	Calcite	50%	09/20	BS
			Binders / Fillers	50%		
04A	Floor Tile (Beige / Tan)	60%	Chrysotile	5%	09/20	BS
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	40%	Chrysotile	5%		
			Tar Binders	95%		
04B	Not Analyzed - Positive Stop	100%			09/20	BS
04C	Not Analyzed - Positive Stop	100%			09/20	BS
05A	Sink Undercoating (Light Grey)	100%	Calcite / Talc	55%	09/20	BS
			Binders / Fillers	45%		

Calcite / Talc / Binders

Glass Wool Fibers

Gypsum / Binders

Cellulose Fibers

2%

98%

100%

100%

09/20

BS

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NVLAP Lab Code 102056-0 TDSHS License No. 300084

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Choice Consulting, LLC Lab Job No. : 23B-11145 Report Date : 09/21/2023

Project : SHSU, Academic Building III, 1922 Ave J, Huntsville, TX Project #: Not Provided

Texture / Joint Cmpd (White)

Texture / Joint Cmpd (White)

Drywall Material (Brown)

DW Paper Facing (Tan)

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
05B	Sink Undercoating (Light Grey)	100%	Calcite / Talc	55%	09/20	BS
			Binders / Fillers	45%		
05C	Sink Undercoating (Light Grey)	100%	Calcite / Talc	55%	09/20	BS
			Binders / Fillers	45%		
06A	Texture (Off-White)	100%	Chrysotile	2%	09/20	BS
			Calcite / Talc / Binders	98%		
06B	Not Analyzed - Positive Stop	100%			09/20	BS
06C	Not Analyzed - Positive Stop	100%			09/20	BS
07A	Acoustic Tile (Light Tan)	100%	Cellulose Fibers	50%	09/20	BS
			Mineral Wool Fibers	30%		
			Perlite	20%		
07B	Acoustic Tile (Light Tan)	100%	Cellulose Fibers	50%	09/20	BS
			Mineral Wool Fibers	30%		
			Perlite	20%		
07C	Acoustic Tile (Light Tan)	100%	Cellulose Fibers	50%	09/20	BS
			Mineral Wool Fibers	30%		
			Perlite	20%		
08A	Drywall Material (Brown)	65%	Glass Wool Fibers	2%	09/20	BS
			Gypsum / Binders	98%		
	DW Paper Facing (Tan)	25%	Cellulose Fibers	100%		
	Texture / Joint Cmpd (White)	10%	Calcite / Talc / Binders	100%		
08B	Drywall Material (Brown)	35%	Glass Wool Fibers	2%	09/20	BS
			Gypsum / Binders	98%		
	DW Paper Facing (Tan)	5%	Cellulose Fibers	100%		
	Texture / Joint Cmpd (White)	60%	Calcite / Talc / Binders	100%		

5%

10%

85%

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2051 Valley View Lane

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Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Choice Consulting, LLC

Moody Labs

Lab Job No. : 23B-11145 Report Date : 09/21/2023

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
09A	Sealant (Red)	100%	Glass Wool Fibers	5%	09/20	BS
			Graphite	10%		
			Binders / Fillers	85%		
09B	Sealant (Red)	100%	Glass Wool Fibers	5%	09/20	BS
			Pumice	10%		
			Binders / Fillers	85%		
09C	Sealant (Red)	100%	Glass Wool Fibers	5%	09/20	BS
			Graphite	10%		
			Binders / Fillers	85%		
10A	Brick (Orange)	95%	Sintered Clays	100%	09/20	BS
	Mortar (Grey)	2%	Aggregate	65%		
			Cement Binders	35%		
	Paint (Off-White)	3%	Pigment / Binders	100%		
Note: No Textu	re					
10B	Brick (Orange)	93%	Sintered Clays	100%	09/20	BS
	Mortar (Light Grey)	2%	Aggregate	65%		
			Cement Binders	35%		
	Paint (Off-White)	5%	Pigment / Binders	100%		
Note: No Textu	re					
10C	Brick (Orange)	2%	Sintered Clays	100%	09/20	BS
	Mortar (Light Grey)	80%	Aggregate	65%		
			Cement Binders	35%		
Note: No Taxtu	Paint (Off-White)	18%	Pigment / Binders	100%		
		1000	C1 (1	007	00/20	DC
IIA	Texture (Off-white)	100%	Chrysotile	2%	09/20	B2
			Calcite / Taic / Binders	98%		
11B	Not Analyzed - Positive Stop	100%			09/20	BS
11C	Not Analyzed - Positive Stop	100%			09/20	BS
12A	Brown Mastic (Brown)	100%	Glue Binders	100%	09/20	BS
	No Yellow Mastic					

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
12B	Brown Mastic (Brown)	50%	Glue Binders	100%	09/20	BS
	Yellow Mastic (Yellow)	50%	Glue Binders	100%		
12C	Brown Mastic (Brown)	50%	Glue Binders	100%	09/20	BS
	Yellow Mastic (Yellow)	50%	Glue Binders	100%		
13A	Floor Tile (Off-White)	90%	Calcite / Vinyl Binders	100%	09/20	BS
	Yellow Mastic (Yellow)	2%	Glue Binders	100%		
	Black Mastic (Black)	8%	Chrysotile	5%		
			Tar Binders	95%		
13B	Not Analyzed - Positive Stop	100%			09/20	BS
13C	Not Analyzed - Positive Stop	100%			09/20	BS
14A	Thermal Insulation (Off-White)	85%	Cellulose Fibers	10%	09/20	AL
			Glass Foam	90%		
	Cotton Wrap (Off-White)	15%	Cotton Fibers	90%		
			Vinyl Binders	10%		
14B	Thermal Insulation (Off-White)	85%	Cellulose Fibers	10%	09/20	AL
			Glass Foam	90%		
	Cotton Wrap (Off-White)	15%	Cotton Fibers	90%		
			Vinyl Binders	10%		
14C		85%			09/20	AL
	Cotton Wrap (Off-White)	15%	Cotton Fibers	90%		
			Vinyl Binders	10%		
15A	Thermal Insulation (Black)	20%	Glass Foam	100%	09/20	AL
	Paper / Foil Wrap (White / Silver)	50%	Cellulose Fibers	50%		
			Glass Wool Fibers	20%		
			Metal Foil	30%		
	White Mastic (White)	30%	Cellulose Fibers	5%		
			Binders / Fillers	95%		

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Client : Choice Consulting, LLC

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
15B	Thermal Insulation (Black)	10%	Glass Foam	100%	09/20	AL
	Glass Fiber Mesh (White)	40%	Glass Wool Fibers	100%		
	White Mastic (White)	50%	Cellulose Fibers	5%		
			Binders / Fillers	95%		
15C	Thermal Insulation (Black)	20%	Glass Foam	100%	09/20	AL
	Paper / Foil Wrap (White / Silver)	50%	Cellulose Fibers	50%		
			Glass Wool Fibers	20%		
			Metal Foil	30%		
	White Mastic (White)	45%	Cellulose Fibers	5%		
			Binders / Fillers	95%		
16A	Beige Mastic (Beige)	100%	Calcite	40%	09/20	AL
			Glue Binders	60%		
16B	Beige Mastic (Beige)	100%	Calcite	40%	09/20	AL
			Glue Binders	60%		
16C	Beige Mastic (Beige)	100%	Calcite	40%	09/20	AL
			Glue Binders	60%		
17A	Texture (White)	100%	Calcite / Talc / Binders	100%	09/20	AL
17B	Texture (White)	100%	Calcite / Talc / Binders	100%	09/20	AL
17C	Texture (White)	100%	Calcite / Talc / Binders	100%	09/20	AL
18A	Beige Mastic (Beige)	100%	Calcite	40%	09/20	AL
			Glue Binders	60%		
18B	Beige Mastic (Beige)	100%	Calcite	40%	09/20	AL
			Glue Binders	60%		
18C	Beige Mastic (Beige)	100%	Calcite	40%	09/20	AL
			Glue Binders	60%		
19A	Yellow Mastic (Yellow)	100%	Calcite	40%	09/20	AL
			Glue Binders	60%		

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PLM Detail Report

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60%

20%

20%

5%

95%

Project : SHSU, Academic Building III, 1922 Ave J, Huntsville, TX Project #: Not Provided

Paper / Foil Wrap (Tan / Silver)

White Mastic (White)

Page 6 of 14 % Of % of Analysis Sample Number Layer Components Analyst Sample Layer Date 19B 100% 09/20 Yellow Mastic (Yellow) Calcite 40% AL Glue Binders 60% 19C 100% Calcite 40% 09/20 AL Yellow Mastic (Yellow) Glue Binders 60% 20A Floor Tile (Dark Grey) 98% Calcite / Vinyl Binders 100% 09/20 AL Yellow Mastic (Yellow) 2% Glue Binders 100% 20B 98% Calcite / Vinyl Binders 100% 09/20 AL Floor Tile (Dark Grey) 2% Glue Binders 100% Yellow Mastic (Yellow) 20C Floor Tile (Dark Grey) 98% Calcite / Vinyl Binders 100% 09/20 AL 2% 100% Yellow Mastic (Yellow) Glue Binders 21A 50% Insulation (Yellow) Mineral Wool Fibers 95% 09/20 AL **Resin Binders** 5% Glass Fiber Mesh (White) 20%Glass Wool Fibers 60% Vinyl Binders 40% 30% White Mastic (White) Wollastonite 5% **Binders / Fillers** 95% 21B Insulation (Yellow) 50% Mineral Wool Fibers 95% 09/20 AL **Resin Binders** 5%

30%

20%

Cellulose Fibers

Metal Foil

Wollastonite

Binders / Fillers

Glass Wool Fibers

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Farmers Branch, TX 75234 Phone: (972) 241-8460

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
21C	Insulation (Yellow)	40%	Mineral Wool Fibers	95%	09/20	AL
			Resin Binders	5%		
	Paper / Foil Wrap (Tan / Silver)	40%	Cellulose Fibers	60%		
			Glass Wool Fibers	20%		
			Metal Foil	20%		
	White Mastic (White)	20%	Wollastonite	5%		
			Binders / Fillers	95%		
22A	Ceramic Tile (Red)	60%	Sintered Clays	100%	09/20	AL
	Grout (Grey)	40%	Glass Wool Fibers	10%		
			Aggregate	55%		
			Cement Binders	35%		
22B	Ceramic Tile (Red)	80%	Sintered Clays	100%	09/20	AL
	Grout (Grey)	20%	Glass Wool Fibers	10%		
			Aggregate	55%		
			Cement Binders	35%		
22C	Ceramic Tile (Red)	65%	Sintered Clays	100%	09/20	AL
	Grout (Grey)	35%	Glass Wool Fibers	10%		
			Aggregate	55%		
			Cement Binders	35%		
23A	Caulking (Grey)	100%	Calcite	50%	09/20	AL
			Binders / Fillers	50%		
23B	Caulking (Grey)	100%	Calcite	50%	09/20	AL
			Binders / Fillers	50%		
23C	Caulking (Grey)	100%	Calcite	50%	09/20	AL
			Binders / Fillers	50%		

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Farmers Branch, TX 75234 Phone: (972) 241-8460

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
24A	Blue Mastic (Blue)	10%	Glue Binders	100%	09/20	AL
	Sheet Flooring (Grey)	60%	Glass Wool Fibers	5%		
			Synthetic Foam	65%		
			Vinyl Binders	30%		
	Fiber Backing (Brown)	30%	Cellulose Fibers	100%		
24B	Blue Mastic (Blue)	7%	Glue Binders	100%	09/20	AL
	Sheet Flooring (Grey)	53%	Glass Wool Fibers	5%		
			Synthetic Foam	65%		
			Vinyl Binders	30%		
	Fiber Backing (Brown)	40%	Cellulose Fibers	100%		
24C	Blue Mastic (Blue)	10%	Glue Binders	100%	09/20	AL
	Sheet Flooring (Grey)	55%	Glass Wool Fibers	5%		
			Synthetic Foam	65%		
			Vinyl Binders	30%		
	Fiber Backing (Brown)	35%	Cellulose Fibers	100%		
25A	Drywall Material (White)	25%	Glass Wool Fibers	2%	09/20	AL
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	25%	Cellulose Fibers	100%		
	Joint Compound (White)	25%	Calcite / Talc / Binders	100%		
	Texture (White)	25%	Calcite / Talc / Binders	100%		
25B	Drywall Material (White)	20%	Glass Wool Fibers	2%	09/20	AL
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	25%	Cellulose Fibers	100%		
	Joint Compound (White)	30%	Calcite / Talc / Binders	100%		
	Texture (White)	25%	Calcite / Talc / Binders	100%		
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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
25C	Drywall Material (White)	20%	Glass Wool Fibers	2%	09/20	AL
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper / Tape (Tan / White)	25%	Cellulose Fibers	100%		
	Joint Compound (White)	35%	Calcite / Talc / Binders	100%		
	Texture (White)	20%	Calcite / Talc / Binders	100%		
26A	Sheet Flooring (Tan / Grey)	5%	Calcite / Vinyl Binders	100%	09/20	AL
	Yellow Mastic (Yellow)	3%	Glue Binders	100%		
	Floor Tile (Beige)	89%	Calcite / Vinyl Binders	100%		
	Black Mastic (Black)	3%	Chrysotile	3%		
			Tar Binders	97%		
26B	Not Analyzed - Positive Stop	100%			09/20	AL
26C	Not Analyzed - Positive Stop	100%			09/20	AL
27A	Beige Mastic (Beige)	40%	Calcite	50%	09/20	AL
			Glue Binders	50%		
	Yellow Mastic (Yellow)	60%	Glue Binders	100%		
27B	Beige Mastic (Beige)	40%	Calcite	50%	09/20	AL
			Glue Binders	50%		
	Yellow Mastic (Yellow)	60%	Glue Binders	100%		
27C	No Beige Mastic				09/20	AL
	Yellow Mastic (Yellow)	100%	Glue Binders	100%		
28A	Caulking (White)	100%	Calcite	50%	09/20	NW
			Binders / Fillers	50%		
28B	Caulking (White)	100%	Chrysotile	5%	09/20	NW
			Calcite	55%		
			Binders / Fillers	40%		
28C	Not Analyzed - Positive Stop	100%			09/20	NW
			1			

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
29A	Floor Tile (Brown)	97%	Chrysotile	5%	09/20	NW
			Calcite / Vinyl Binders	95%		
	Black Mastic (Black)	3%	Chrysotile	5%		
			Tar Binders	95%		
29B	Not Analyzed - Positive Stop	100%			09/20	NW
29C	Not Analyzed - Positive Stop	100%			09/20	NW
30A	Black Mastic (Black)	100%	Chrysotile	5%	09/20	NW
			Tar Binders	95%		
30B	Not Analyzed - Positive Stop	100%			09/20	NW
30C	Not Analyzed - Positive Stop	100%			09/20	NW
31A	Caulking (Off-White)	100%	Calcite	50%	09/20	NW
			Binders / Fillers	50%		
31B	Old Caulking (White)	10%	Chrysotile	5%	09/20	NW
			Calcite	55%		
			Binders / Fillers	40%		
	New Caulking (Off-White)	90%	Calcite	50%		
			Binders / Fillers	50%		
31C	Not Analyzed - Positive Stop	100%			09/20	NW
32A	Floor Tile (Grey)	95%	Calcite / Vinyl Binders	100%	09/20	NW
	Black Mastic (Black)	5%	Chrysotile	5%		
			Tar Binders	95%		
32B	Not Analyzed - Positive Stop	100%			09/20	NW
32C	Not Analyzed - Positive Stop	100%			09/20	NW
33A	Drywall Material (Light Pink)	75%	Cellulose Fibers	5%	09/20	NW
			Gypsum / Binders	95%		
	DW Paper Facing (Tan)	15%	Cellulose Fibers	100%		
	Wall Covering (Brown)	10%	Vinyl Binders	100%		

PLM Detail Report

NVLAP Lab Code 102056-0 TDSHS License No. 300084

Supplement to PLM Summary Report

Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Choice Consulting, LLC

Moody Labs

2051 Valley View Lane

Lab Job No. : 23B-11145 Report Date : 09/21/2023

Project : SHSU, Academic Building III, 1922 Ave J, Huntsville, TX Project # : Not Provided

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
33B	Drywall Material (White)	65%	Glass Wool Fibers	2%	09/20	NW
			Mica	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	20%	Cellulose Fibers	100%		
	Wall Covering (Brown)	15%	Vinyl Binders	100%		
33C	Drywall Material (White)	75%	Glass Wool Fibers	2%	09/20	NW
			Mica	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	15%	Cellulose Fibers	100%		
	Wall Covering (Brown)	10%	Vinyl Binders	100%		
34A	Beige Mastic (Beige)	85%	Calcite	50%	09/20	NW
			Glue Binders	50%		
	Brown Mastic (Brown)	15%	Wollastonite	5%		
			Glue Binders	95%		
34B	Beige Mastic (Beige)	85%	Calcite	50%	09/20	NW
			Glue Binders	50%		
	Brown Mastic (Brown)	15%	Wollastonite	5%		
			Glue Binders	95%		
34C	Beige Mastic (Beige)	85%	Calcite	50%	09/20	NW
			Glue Binders	50%		
	Brown Mastic (Brown)	15%	Wollastonite	5%		
			Glue Binders	95%		
35A	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	09/20	NW
			Mineral Wool Fibers	30%		
			Perlite	20%		
35B	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	09/20	NW
			Mineral Wool Fibers	30%		
			Perlite	20%		

Aggregate

Aggregate **Cement Binders**

Cement Binders

Moody Labs 2051 Valley View Lane Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Choice Consulting, LLC

Sample Number

PLM Detail Report Supplement to PLM Summary Report

Components

Lab Job No. : 23B-11145

Project : SHSU, Academic Building III, 1922 Ave J, Huntsville, TX Project #: Not Provided

Layer

Grout (Grey)

Mortar (Grey)

35C	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	09/20	NW
			Mineral Wool Fibers	30%		
			Perlite	20%		
36A	CMU (Grey)	95%	Aggregate	65%	09/20	NW
			Cement Binders	35%		
	Paint / Texture (Off-White)	5%	Calcite	15%		
			Pigment / Binders	85%		
36B	CMU (Grey)	95%	Aggregate	65%	09/20	NW
			Cement Binders	35%		
	Paint / Texture (Off-White)	5%	Calcite	15%		
			Pigment / Binders	85%		
36C	CMU (Grey)	95%	Aggregate	65%	09/20	NW
			Cement Binders	35%		
	Paint / Texture (Off-White)	5%	Calcite	15%		
			Pigment / Binders	85%		
37A	Ceramic Tile (Grey)	12%	Sintered Clays	100%	09/20	NW
	Grout (Grey)	85%	Aggregate	65%		
			Cement Binders	35%		
	Black Mastic (Black)	3%	Chrysotile	5%		
			Tar Binders	95%		
37B	Not Analyzed - Positive Stop	100%			09/20	NW
37C	Not Analyzed - Positive Stop	100%			09/20	NW
38A	Yellow Mastic (Yellow)	10%	Calcite	40%	09/20	NW
			Glue Binders	60%		
	Ceramic Tile (Beige)	82%	Sintered Clays	100%		

5%

3%

% Of

Sample

Report Date : 09/21/2023

% of

Layer

65%

35%

65%

35%

NVLAP Lab Code 102056-0

TDSHS License No. 300084

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Analyst

Analysis

Date

PLM Detail Report

Supplement to PLM Summary Report

NVLAP Lab Code 102056-0 TDSHS License No. 300084

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Farmers Branch, TX 75234 Phone: (972) 241-8460

Client : Choice Consulting, LLC

Lab Job No. : 23B-11145 Report Date : 09/21/2023

Project : SHSU, Academic Building III, 1922 Ave J, Huntsville, TX

Project #: Not Provided

2051 Valley View Lane

Moody Labs

Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
38B	Yellow Mastic (Yellow)	10%	Calcite	40%	09/20	NW
			Glue Binders	60%		
	Ceramic Tile (Beige)	80%	Sintered Clays	100%		
	Grout (Grey)	5%	Aggregate	65%		
			Cement Binders	35%		
	Mortar (Grey)	5%	Aggregate	65%		
			Cement Binders	35%		
38C	Yellow Mastic (Yellow)	10%	Calcite	40%	09/20	NW
			Glue Binders	60%		
	Ceramic Tile (Beige)	80%	Sintered Clays	100%		
	Grout (Grey)	5%	Aggregate	65%		
			Cement Binders	35%		
	Mortar (Grey)	5%	Aggregate	65%		
			Cement Binders	35%		
39A	Drywall Material (White)	88%	Glass Wool Fibers	2%	09/20	NW
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		
	Joint Compound (White)	2%	Calcite / Talc / Binders	100%		
39B	Drywall Material (White)	90%	Glass Wool Fibers	2%	09/20	NW
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	5%	Cellulose Fibers	100%		
	Joint Compound (White)	5%	Calcite / Talc / Binders	100%		
39C	Drywall Material (White)	90%	Glass Wool Fibers	2%	09/20	NW
			Cellulose Fibers	1%		
			Gypsum / Binders	97%		
	DW Paper Facing (Tan)	10%	Cellulose Fibers	100%		
	No Joint Compound					

Farmers Branch, TX 75234 Phone: (972) 241-8460						
Client : Choice	Client : Choice Consulting, LLC Lab Job No. : 23B-11145					
Project : SHSU	Project : SHSU, Academic Building III, 1922 Ave J, Huntsville, TX Report Date : 09/21/2023					
Project # : Not Pr	rovided					
	1	1			Page 1	4 of 14
Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
40A	Flooring (Grey)	40%	Calcite / Vinyl Binders	100%	09/20	NW
	Yellow Mastic (Yellow)	60%	Glue Binders	100%		
40B	Flooring (Grey)	60%	Calcite / Vinyl Binders	100%	09/20	NW
	Yellow Mastic (Yellow)	40%	Glue Binders	100%		
40C	Flooring (Grey)	55%	Calcite / Vinyl Binders	100%	09/20	NW
	Yellow Mastic (Yellow)	45%	Glue Binders	100%		

PLM Detail Report

Supplement to PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 300084

Moody Labs

2051 Valley View Lane

M	dy Labs	<u>Chain of Custoc</u>	<u>dy</u>	Lab Job # Lab Job # Lab Job #	11145 120744
ASBESTOS Bulk	PLM Immediate 1 day Analyz '400) Immediate 1 day nalyze Blanks ST(0500/0600) 1 day tethod Late Night* bdified) 1 day 1 day Ymmediate 1 day TEM Nethod Late Night* odified) 1 day 1 day 1 day Micro Vac 1 day nks Yes nalysis surcharges apply	□ 2 day □ 3 day 3 5 day □ 2 day □ 3 day □ 5 da □ 2 day □ 3 day □ 5 da □ 2 day □ 3 day □ 5 da □ 2 day □ 12 hr □ 24 hi □ 2 day □ 3 day □ 5 da □ 2 day □ 3 day □ 5 day □ 2 day □ 3 day □ 5 day □ 2 day □ 3 day □ 5 day □ 2 day □ 3 day □ 5 day □ 2 day □ 3 day □ 5 day □ 2 day □ 3 day □ 5 day □ 2 day □ 3 day □ 5 day	MOLD y Direct Expander Expander Culture* Analyze **Turnarou BACTERI/ Total Pla Coliform r Staphylo y OTHER: AFTER HC *Please call in	kam Immed d Air Immed d Air Immed ed Air Immed ted Air Immed stand of Culture Samples sub a** te Count & E. coli (P/A) pcocccus aureus	Page of 1 day 2 day 5 day 1 day 2 day 5 day 1 day 2 day 5 day 1 day 2 day 5 day No ject to Culture Growth** 2 day 1 day 1 day 1 day 2 day 1 day 1 day 1 day 1 day 1 day 1 day
Billing Comp Submitter's C Submitter's N Project: <u>Shi</u> Contact Info E-mail Results Invoice Addre	pany / City: (Holle (Company: lame: lame: lame: Sto: ess: prmation: Name: ess: prove lame before subm	ANSUDNG D IF -1922 AVE. J, HUNEA GUIFLE STATION, TX Itting to lab. Unscaled / improperty package	이 / damaged / expire	# of Samp Sample Da Project #: Phone #: Mobile #: Fax #: P.O. #: ed samples or excessive administration	les: <u>120</u> te: <u># 11/25 - 64 12 23</u> (4794) 442-15104 re requests may incur additional fees*
Sample #	Samp	le Description	Vol. / Area (if applicable)	Location	/ Notes
0 A 0 B 0 C	BOUNDAL CORESPECT. D. 64	-ΩCK M45ΩC		100 CLL (OR RIPUR W W (t	avter
0215 0215 02C 034 0315	INT. DUCK CAULS			10024 COKUIDOR BY 10026 10026 CORRIDOR N 10024 CORRIDOR B	Ц <u></u>) L ЦЗА
036 0412 0413 0416 0416 0416 0415	BOWELTON FIT. S. E	DNG		10053 10052 10054 116A OPPICE	
Released B Released B Released B		Date / Time: CH/13/13 Date / Time:	Received By:	l via Ed Es	9(1473 ^{me:} 9: 4(5a) Date / Time:

 Moody Labs;
 LLC ◆ 2051 Valley View Ln. ◆ Farmers Branch, TX 75234 ◆ Phone (972) 241-8460 ◆ Fax (972) 241-8461

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Lab Job #	233.11145	
Lab Job #	· · · · · · · · · · · · · · · · · · ·	
lah loh #		

Project: StSU - Acapenic BLP6. #

Project #: _

Page <u>2</u> of ____

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
O6A	GALINO CONCEPTE TOTOPE	A	10053
ans			10046
dec			1160 OFFICE N
()	242 C.T. (PIN HURS)		100 CU CLERAPOR W
6713			1000
OC			116A UFFICE N
CLD	HUHT TREE BARK TEXTRE, J.C. SR		10014 WRITER W
UYB			
au			
64A	RED SOTLANT CAULE		100LY CURRIDOR
OYB			10016
540			b 1160
100	BRILLY TESTURE		IDCY CURRIDOR
1013)		12B VBABUE
106	1		116 OFF105
114	FUT WARDE DEXTRE		100CU WARDOR
IIB			100Cl W
IL			(007)
ka	BROWN & YELLOW STARTREAD MASTIC		10052
245	,		(005)
pc			10054
139	6500 /075-WHATE F.T. & BLAUX/YELLOW MAST	د	100CY CORRIVOUR E
1312			(ENTER-
130			Ι ω
NA	TS1		IUDCH CORRIDOR E
143			100%
140	1		IIEE
154	APE INSULATION MASTIC		100CH WRRIDUR E
(5)3			10243
150			lio

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Lab Job #	235-1	1145	
Lab Job #_			
Lab Job #_			

Project: SHOU- Achaemic, BLOG. TH-

_ Project #: _

Page <u>3</u> of ____

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
16A	BOOR WE APAR MATTIC		11313
KB			IOU SW
160			116A N
134	WILD PANEL PEXTURE		11313
1715			
R			100 CY WREMOR W
182	BETHE WALL MASTIC		10012
(SB			
180			
140	YELLW CARPET MATIC		1120-
19B			ILGA N
140			1160.
201	ONOK GREV Fit. & YELLW MEDIC		113
203			1
201			
212	WHITE ARE INSULATION MASTIC		10043
ZIB			
21			1 Centrer
224	RED GRAMIL DIE & GRUT		(4))/3
22B			1160
220			IDAC F
232	6RAY RUTCARK		1001/3
23B			(1)16
230			14243
242	SHEET FLORWG & SUBPLER		10UB
24B			We Hol
24			
200	WATT CLANGE PER TEXTURE). (., SR		1043
2013			10)63 N
260			103

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Lab Job #	23	Б.	11145	ı
Lab Job #_				
Lab Job #_				

Project: SHOV - ACADEMIC BLDG. JIT

_ Project #: _

Page <u>4</u> of ____

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
260	VINYL BURENB, BAGE F.T. & BURKHAUW MA	inc.	04
263			1043
260			
270	BELLE & YELLIN WE BASE MASTIC		100C3 N
2713			INNG
270			
240	INT. WINDLW CONLY		n4
283			Ιωτι
240			IUDMI
240	BROWNY MAREBON F.T. S BLOOK MOSTIC		
243			
290			
300	BLACK MASTIC RESIDUE		2(20)
3013			
<u>-</u> 30			
31A	STAR THEAD WILL		1005)
3113			1054
316			1(053
32~	GRAN FIT D BLOCK WRITE		125
3245			1274
32C			116
33A	SR & MALLPARER		IIIDA N
33B			116A
336			
340	BBLES BLACK WHE BASE WISTIC		IIGA
34B			116
346			
360	2×2 C.T. (PN HUB & ASURES)		
75B			1163
350			1274

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Lab Job # 236 114	5
Lab Job #	
Lab Job #	

Project: _SHSU - Acrocmic BLOG. TIF

_____ Project #: ____

Page <u>5</u> of ___

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
Blac	(MU REALIZE		1160
368			
3ld			
230	GRAY (BRANIL DIES GRANT W/ BLACK MADIC		116
3715			
376			
325	BELOE LORAMIC THE SCRAFT		1160-
3613			
34			
39A	(umpuno (pases)		103
39B			
391			1
402	UMLEACHE & HELLOW MADE		20054
yue			20051
400			30052

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Photo 1: SHSU – Academic Bldg. III – 1922 Ave. J, Huntsville, TX 77340







Photo 3: Asbestos containing floor tile and black mastic (100S3).



associated with off-white floor tile (100C4).





Photo 5: Asbestos-containing concrete ceiling texture (113).







Photo 7: Asbestos-containing black/yellow mastic associated with beige floor tile under vinyl plank flooring (114).



Photo 8: Asbestos-containing black mastic associated with gray floor tile (127A).





Photo 9: Asbestos-containing thermal system insulation (100).



Photo 10: Asbestos-containing black mastic associated with gray ceramic tile (116).





Photo 11: Asbestos-containing black mastic associated with gray floor tile under carpet (116).



Photo 12: Asbestos-containing interior and exterior window caulk and exterior window glazing (116D).





Photo 13: Asbestos-containing stairs caulk (100S1).





Texas Department of State Health Services

CHOICE CONSULTING LLC

is certified to perform as an

Asbestos Consultant Agency

in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas Occupations Code, Chapter 1954 and Title 12, Texas Administrative Code, Chapter 295 relating to Texas Asbestos Health Protection, as long as this license is not suspended or revoked.



License Number: 100480

Control Number: 97513

nnifer Shuford, MD, MPH Commissioner of Health

DID IF ALTERED ¹ NON-TRANSFER

SEE BACK

piration Date: 10/26/2024

Void After Expiration Date)



Texas Department of State Health Services

1/1

such as performent of State that we be provided 5

Asbestos Individual Consultant

BRENT W PLANT License No. 105636 Control No. 98105 Expiration Date: 24-Aug-2024



BRENT W FLANT

unte Beath Services



Texas Department of State Health Services

Asbestos Inspector

JAVIER A MURILLO License No. 602778 Control No. 100428 Expiration Date: 6-Dec-2024





Texas Department of State Health Services

Asbestos Air Monitoring Technician

JAVIER A MURILLO License No. 706342 Control No. 98946 Expiration Date: 14-Nov-2023





Texas Department of State Health Services

Asbestos Project Manager

JAVIER A MURILLO License No. 501201 Control No. 98723 Expiration Date: 30-Oct-2023



APPENDIX LEAD-BASED PAINT TESTING REPORT

APRIL 2024 FINAL REPORT PREPARED BY FACILITY PROGRAMMING AND CONSULTING



979-492-5104

September 16, 2023

Sam Houston State University (SHSU) Academic Building 3

Attn: Mr. Eduardo A. Grajeda, Sr. Project Manager SHSU Facilities Management <u>egrajeda@shsu.edu</u>, (936) 294-4199

RE: Lead-Based Paint Testing – SHSU Academic Building 3 1922 Ave. J, Huntsville, TX 77341

Dear Mr. Grajeda:

On September 13 & 14, 2023, at your request, Choice Consulting, LLC (Choice), conducted lead-based paint testing at the above referenced location.

LEAD-BASED PAINT TESTING

The purpose of the testing was to identify the presence of lead-based paint (LBP) in accessible representative painted components on the interior and exterior of the **SHSU Academic Building 3, 1922 Ave. J, Huntsville, TX 77341**. A surface-by-surface LBP inspection in compliance with the U.S. Department of Housing and Urban Development (HUD) was not conducted for this project. Testing for the presence of LBP in representative components was requested prior to certain construction activities (such as renovations, repairs, demolition) proposed to be conducted at the

building. Certain painted components were not tested for LBP due to safety, height, and/or accessibility restrictions. Painted surfaces or building components not tested as part of this project, or previous investigations, are assumed to be coated with LBP.

As part of the testing, a visual survey was conducted and on-site paint readings using an X-Ray Fluorescence (XRF) lead-in-paint analyzer was performed. The scope of work performed was to inspect the building for the presence of LBP in limited accessible representative components. The XRF instrument utilized was calibrated against the National Institute of Standards and Technology (NIST) standards prior to initial sampling, at least every four hours if applicable, and at the conclusion of sampling to document the instrument's accuracy. The XRF was used to determine the concentration of lead in the painted components tested. XRF testing was performed in accordance with approved documented methodologies such as those outlined in the U.S. Environmental Protection Agency (EPA) and HUD applicable guidelines, as well as the Texas Environmental Lead Reduction Rules (TELRR). **Three-hundred eighty (380)** XRF readings (including pre- and post-calibration readings) were collected for the lead paint testing project. For a complete list of XRF readings collected with testing results, components tested, locations, and other information refer to the attached spreadsheet.

Thirty-seven (37) readings obtained from certain representative painted / coated interior and exterior components tested exceeded the EPA and HUD Lead Action Level of 1.0 milligrams per square centimeter (mg/cm²) as measured by the XRF instrument. The LBP positive reading locations and associated data are listed in the table below:

Reading #	Concentration (mg/cm²)	Test Location	Component	Color	Substrate	Condition
20	4.5	1 st fl. – Spirit 126	Block wall	White	Brick	Intact
25	1.4	1 st fl. – Office 124	Door frame	White	Metal	Intact
71	4.6	1 st fl. – NE Stairs 100S2	Door	Tan	Metal	Damaged
76	1.3	1 st fl. – NE Stairs 100S2	Door	Tan	Metal	Damaged
86	1.2	1 st fl. – N. corridor	Door frame	White	Metal	Damaged
92	1.3	1 st fl. – NW Stairs 100S3	Door	Tan	Metal	Damaged
129	1.8	2 nd fl. – Mech 200U3	Double doors	White	Wood	Damaged
137	1.1	2 nd fl. – Mech 200U1	Door frame	White	Metal	Damaged
141	1.7	2 nd fl. – N. corridor	Door frame	White	Metal	Damaged
145	1.5	2 nd fl. – N. corridor	Door frame	White	Metal	Damaged
151	1.0	2 nd fl. – Mech 200U2	Door frame	White	Metal	Damaged
157	1.6	2 nd fl. – NW Stairs 200S3	Door	Tan	Metal	Damaged
159	4.1	2 nd fl. – NW Stairs 200S3	Door	Tan	Metal	Damaged
195	1.7	3 rd fl. – Office 325	Door	Brown	Metal	Intact
196	1.4	3 rd fl. – NW Stairs 300S3	Door	Tan	Metal	Damaged
206	23.5	1 st fl. – Mech 100U3	Mop sink	White	Cast iron	Damaged
247	25.3	3 rd fl. – Breakroom 313	Sink	White	Cast iron	Intact
251	3.2	3 rd fl. – Room 309	Door	Brown	Metal	Intact
252	1.0	3 rd fl. – Room 309	Door frame	Brown	Metal	Intact
255	3.6	3 rd fl. – Storage 306A	Door	Brown	Metal	Intact
266	3.2	3 rd fl. – NE Stairs 300S2	Door	Tan	Metal	Damaged
268	2.8	3 rd fl. – NE Stairs 300S2	Door	Tan	Metal	Damaged
280	1.5	Exterior – 1 st fl. W. side	Door	Tan	Metal	Damaged
284	10.9	Exterior – 1 st fl. S. side	Tile wall	Blue	Ceramic	Intact
293	11.0	Exterior – 2 nd fl. N. side	Tile wall	Tan	Ceramic	Intact
294	1.3	Exterior – 2 nd fl. N. side	Window lintel	Tan	Metal	Damaged
295	2.1	Exterior – 2 nd fl. N. side	Double doors	Brown	Metal	Intact

Reading #	Concentration (mg/cm ²)	Test Location	Component	Color	Substrate	Condition
298	1.6	Exterior – 2 nd fl. W. side	Door	Tan	Metal	Intact
300	1.9	Exterior – 2 nd fl. W. side	Door lintel	Tan	Metal	Intact
301	1.0	Exterior – 2 nd fl. W. side	Window lintel	Tan	Metal	Intact
316	2.7	Exterior – 2 nd fl. E. side	Door	Tan	Metal	Damaged
319	1.7	Exterior – 2 nd fl. E. side	Door	Tan	Metal	Damaged
324	1.2	Exterior – 3 rd fl. E. side	Door lintel	Tan	Metal	Intact
327	1.3	Exterior – 3 rd fl. E. side	Window lintel	Tan	Metal	Intact
340	1.3	Exterior – 3 rd fl. W. side	Door	Tan	Metal	Damaged
345	3.7	2 nd fl. – Room 209	Door	Tan	Metal	Damaged
368	1.0	2 nd fl. – Studio 241	Restroom door	White	Wood	Intact

PROPERTY DESCRIPTION

Academic Building 3 and the painted interior and exterior components were observed by Choice to be in overall fair condition with certain damaged components in need of paint stabilization / repair. The three-story building was occupied for routine university use during the paint testing and observed to be a brick and concrete structure with various metal, wood, drywall, and other components and materials. The building was constructed in 1956 per the posted interior plaque within the 1st floor lobby, and the front / main entry side of the building faces south.

PRECAUTIONS

Since LBP positive XRF readings were obtained from certain painted components tested, dust lead hazards and/or soil lead hazards may be present at the property. Dust and/or soil sample collection and analysis (if applicable) should follow any lead paint component removal activity, repair, renovation and any other projects that disturb LBP and/or any lead containing materials. Lead safe work practices and

techniques and approved hazard control methods must be followed at properties with building material components that contain LBP.

CONDITIONS & LIMITATIONS

Choice has performed the limited LBP testing at the Client's request in a thorough and professional manner consistent with commonly accepted standard industry practices, using state of the art and best available known technology as of the date of the testing. Choice cannot guarantee and does not warrant that this testing has identified all adverse environmental factors and/or conditions affecting the subject property on the date of the project.

Choice cannot and will not warrant that the testing that was requested by the client will satisfy the dictates of, or provide a legal defense in connection with, any environmental laws or regulations. It is the responsibility of the client to know and abide by all applicable laws, regulations, and standards.

The results reported and conclusions reached by Choice are solely for the benefit of the client. The results and opinions in this report, based solely upon the conditions found on the property as of the date of the testing, will be valid only as of the date of the project site visit. Choice assumes no obligation to advise the client of any changes in any real or potential lead hazards at this property that may or may not be later brought to our attention.

PAINT TESTING AND SAMPLING

Lead concentrations that meet or exceed federal regulatory levels identified as LBP and as being potentially hazardous (e.g., greater than or equal to 1.0 mg/cm²) were identified by XRF testing in components listed in the table above. Paint chip sample results (if applicable) are reported in parts per million (ppm) or % by weight. Paint

chip samples containing greater than or equal to 5000 ppm or 0.5% by weight are considered to be LBP.

As previously stated in this report, painted surfaces or building components not tested as part of this investigation, or previous investigations, are assumed to be coated with LBP. Any renovation or repair activities involving components known or assumed to contain LBP dictate the use of safe work practices that limit dust generation and area contamination. During this project testing was performed using a Viken (formerly Heuresis) Pb200i X-Ray Fluorescence analyzer (SN: 1535). Please refer to the report appendices for the detailed XRF testing data and Viken / Heuresis Performance Characteristic Sheet (PCS).

LEAD HAZARD CONTROL OPTIONS

Lead-safe work practices and worker/occupant protection practices complying with current EPA, HUD, and Occupational Safety and Health Administration (OSHA) standards will be necessary to safely complete all work involving the disturbance of surfaces and components painted or coated with LBP. In addition, any work considered lead hazard control would enlist the use of interim control (temporary) methods and/or abatement (permanent) methods. It should be noted that all lead hazard control activities have the potential of creating additional hazards or creating hazards that were not present before.

All persons and/or firms performing lead hazard control activities must have received proper EPA training in Lead-Safe Work Practices and/or Lead Abatement. Details for the listed lead hazard control options and issues surrounding occupant/worker protection practices can be found in OSHA regulations 29 CFR, Part 1926.62, known as the OSHA Lead in Construction Industry Standard.

Abatement, as defined by federal regulations, means any set of measures designed to permanently eliminate LBP and/or LBP hazards. These activities include but are

not limited to: the removal of LBP from substrates and components; the replacement of components or fixtures with lead-containing materials and/or lead-containing paint; the permanent enclosure of LBP with construction materials; the encapsulation of LBP with approved products; the removal or permanent covering (concrete or asphalt) of soil-lead hazards; and extensive and specialized cleaning activities.

We appreciate the opportunity to provide you with our lead consulting services. If have any questions or require any additional information, please do not hesitate to contact Choice Consulting, LLC at (979) 492-5104.

CHOICE CONSULTING, LLC

Brent Clark

Brent W. Plant DSHS Lead Risk Assessor Certification No. 2070943 Expiration 12/28/2023

UNA.M.

Chad A. McLaughlin DSHS Lead Risk Assessor Certification No. 2070953 Expiration 4/5/2025

Attachments: XRF Testing Data, Lead Analyzer PCS, Lead-Based Paint Positive Reading Locations Drawings & Photographs, and Lead Licenses
Company Viken Detection

Model Pb200i

Type XRF Lead Paint Analyzer

September 13 & 14, 2023 Sam Houston State University

Academic Building 3

Serial # 1535

App Version Pb200i-5.3.1

Roading				Action					
Number	Concentration	Units	Result	Level	Substrate	Component	Color	Test Location	Condition
1	1	mg/cm2	Positive	1	N/A	Pre-Calibration	N/A	N/A	N/A
2	0.9	mg/cm2	Negative	1	N/A	Pre-Calibration	N/A	N/A	N/A
ŝ	0.8	mg/cm2	Negative	1	N/A	Pre-Calibration	N/A	N/A	N/A
4	0.2	mg/cm2	Negative	1	Wood	Door	White	1st - Men's 100M1	Damaged
ß	0.3	mg/cm2	Negative	1	Metal	Door frame	White	1st - Men's 100M1	Damaged
9	0.1	mg/cm2	Negative	1	Brick	Block wall	Gray	1st - Men's 100M1	Intact
7	0.3	mg/cm2	Negative	1	Ceramic	Tile floor	Red	1st - Men's 100M1	Intact
∞	0	mg/cm2	Negative	1	Metal	Stall door	Tan	1st - Men's 100M1	Damaged
6	0.1	mg/cm2	Negative	1	Metal	Door	Tan	1st - SW Stairs 100S4	Damaged
10	0.4	mg/cm2	Negative	1	Metal	Door frame	White	1st - SW Stairs 100S4	Damaged
11	0.2	mg/cm2	Negative	1	Brick	Block wall	Tan	1st - SW Stairs 100S4	Intact
12	0	mg/cm2	Negative	1	Wood	Stair rail	Beige	1st - SW Stairs 100S4	Intact
13	0.1	mg/cm2	Negative	1	Wood	Stair stringer	Beige	1st - SW Stairs 100S4	Damaged
14	0.1	mg/cm2	Negative	1	Metal	Stair riser	Beige	1st - SW Stairs 100S4	Damaged
15	0	mg/cm2	Negative	1	Wood	Door	Beige	1st - SW Stairs 100S4	Damaged
16	0.5	mg/cm2	Negative	1	Metal	Door frame	White	1st - SW Stairs 100S4	Damaged
17	0.1	mg/cm2	Negative	1	Concrete	Wall	White	1st - SW Stairs 100S4	Intact
18	0.1	mg/cm2	Negative	1	Drywall	Wall	White	1st - Dance 125	Intact
19	0.1	mg/cm2	Negative	1	Wood	Door	White	1st - Spirit 126	Damaged
20	4.5	mg/cm2	Positive	7	Brick	Block wall	White	1st - Spirit 126	Intact
21	0.1	mg/cm2	Negative	1	Drywall	Wall	White	1st - Spirit 126	Intact
22	0.1	mg/cm2	Negative	1	Brick	Block wall	White	1st - Spirit 126	Intact
23	0	mg/cm2	Negative	1	Brick	Block wall	Gray	1st - Office 124	Intact
24	0.3	mg/cm2	Negative	Ч	Brick	Block wall	Blue	1st - Office 124	Intact

Reading	Concentration	Units	Result	Action	Substrate	Component	Color	Test Location	Condition
25	1.4	mg/cm2	Positive	1	Metal	Door frame	White	1st - Office 124	Intact
26	0.7	mg/cm2	Negative	1	Metal	Door frame	White	1st - Office 123	Intact
27	0	mg/cm2	Negative	1	Wood	Door	Varnish	1st - Office 124	Intact
28	0.4	mg/cm2	Negative	1	Brick	Block wall	White	1st - 127A	Intact
29	0	mg/cm2	Negative	1	Brick	Block wall	Tan	1st - Common 100C1	Intact
30	0	mg/cm2	Negative	1	Brick	Column	Beige	1st - Common 100C1	Intact
31	0.4	mg/cm2	Negative	1	Ceramic	Tile floor	Red	1st - Common 100C1	Intact
32	0	mg/cm2	Negative	1	Wood	Double doors	Brown	1st - Common 100C1	Damaged
33	0.3	mg/cm2	Negative	1	Metal	Door frame	Brown	1st - Common 100C1	Intact
34	0	mg/cm2	Negative	1	Metal	Double doors	Brown	1st - Mech 100U6	Damaged
35	0.1	mg/cm2	Negative	1	Metal	Door frame	Brown	1st - Mech 100U6	Damaged
36	0	mg/cm2	Negative	1	Brick	Block wall	White	1st - Spirit Gym 102	Damaged
37	0.1	mg/cm2	Negative	1	Wood	Double doors	Blue	1st - Spirit Gym 102	Damaged
38	0.4	mg/cm2	Negative	1	Metal	Door frame	Blue	1st - Spirit Gym 102	Damaged
39	0.2	mg/cm2	Negative	1	Drywall	Wall	White	1st - Spirit Gym 102	Damaged
40	0.3	mg/cm2	Negative	1	Brick	Block wall	White	1st - Spirit Gym 101	Damaged
41	0.2	mg/cm2	Negative	1	Wood	Flooring	Varnish	1st - Spirit Gym 101	Damaged
42	0.1	mg/cm2	Negative	1	Drywall	Wall	White	1st - Spirit Gym 101	Damaged
43	0.1	mg/cm2	Negative	1	Wood	Double doors	Blue	1st - Spirit Gym 101	Damaged
44	0.5	mg/cm2	Negative	1	Metal	Door frame	Blue	1st - Spirit Gym 101	Damaged
45	0	mg/cm2	Negative	1	Wood	Double doors	Brown	1st - Mech 100U1	Damaged
46	0.8	mg/cm2	Negative	Ļ	Metal	Door frame	Brown	1st - Mech 100U1	Damaged
47	0	mg/cm2	Negative	1	Brick	Block wall	Gray	1st - Veterans 110	Intact
48	0.3	mg/cm2	Negative	1	Brick	Block wall	Blue	1st - Veterans 110	Intact
49	0.2	mg/cm2	Negative	1	Concrete	Column	Gray	1st - Veterans 110	Intact
50	0	mg/cm2	Negative	Ļ	Drywall	Wall	Gray	1st - Veterans 110	Intact
51	0.1	mg/cm2	Negative	-	Drywall	Wall	Orange	1st - Veterans 110	Intact
52	0	mg/cm2	Negative	1	Brick	Block wall	Gray	1st - Veterans 114	Intact
53	0	mg/cm2	Negative	1	Wood	Double doors	White	1st - Veterans 114	Intact
54	0.6	mg/cm2	Negative	1	Metal	Door frame	White	1st - Veterans 114	Intact
55	0.1	mg/cm2	Negative	1	Drywall	Wall	Gray	1st - Veterans 114	Intact
56	0	mg/cm2	Negative	1	Metal	Window frame	White	1st - Veterans 114	Intact

Reading	Concentration	Units	Result	Action	Substrate	Component	Color	Test Location	Condition
Number				Leve		-			
57	0	mg/cm2	Negative	-	Wood	Door	Varnish	1st - Veterans 114	Intact
58	0.1	mg/cm2	Negative	1	Metal	Door frame	White	1st - Veterans 114	Intact
59	0.3	mg/cm2	Negative	1	Brick	Block wall	White	1st - Veterans 114	Intact
60	0.1	mg/cm2	Negative	1	Drywall	Wall	Gray	1st - Veterans 114	Intact
61	0	mg/cm2	Negative	1	Brick	Block wall	Gray	1st - Conference 104	Intact
62	0.2	mg/cm2	Negative	1	Drywall	Wall	Gray	1st - Conference 104	Intact
63	0.1	mg/cm2	Negative	1	Wood	Double doors	White	1st - Conference 104	Intact
64	0.1	mg/cm2	Negative	1	Wood	Door frame	White	1st - Conference 104	Intact
65	0	mg/cm2	Negative	1	Wood	Double doors	White	1st - Conference 104	Intact
99	0.6	mg/cm2	Negative	1	Metal	Door frame	White	1st - Conference 104	Intact
67	0.3	mg/cm2	Negative	1	Brick	Block wall	White	1st - NE Stairs 100S2	Damaged
68	0	mg/cm2	Negative	1	Wood	Stair rail	Beige	1st - NE Stairs 100S2	Damaged
69	0.1	mg/cm2	Negative	1	Wood	Stair stringer	Beige	1st - NE Stairs 100S2	Damaged
70	0.5	mg/cm2	Negative	1	Metal	Stair riser	Beige	1st - NE Stairs 100S2	Damaged
71	4.6	mg/cm2	Positive	1	Metal	Door	Tan	1st - NE Stairs 100S2	Damaged
72	0.5	mg/cm2	Negative	1	Metal	Door frame	White	1st - NE Stairs 100S2	Damaged
73	0.1	mg/cm2	Negative	1	Concrete	Wall	White	1st - NE Stairs 100S2	Damaged
74	0.1	mg/cm2	Negative	1	Wood	Door	Tan	1st - Storage 105	Intact
75	0.1	mg/cm2	Negative	1	Wood	Door frame	White	1st - Storage 105	Intact
76	1.3	mg/cm2	Positive	1	Metal	Door	Tan	1st - NE Stairs 100S2	Damaged
77	0.4	mg/cm2	Negative	1	Metal	Door frame	White	1st - NE Stairs 100S2	Damaged
78	0	mg/cm2	Negative	1	Wood	Double doors	Varnish	1st - Mech 100U2	Intact
79	0.9	mg/cm2	Negative	1	Metal	Door frame	White	1st - Mech 100U2	Intact
80	0.1	mg/cm2	Negative	1	Metal	Vent / grill	White	1st - Mech 100U2	Intact
81	0	mg/cm2	Negative	1	Brick	Block wall	White	1st - N. corridor	Intact
82	0.1	mg/cm2	Negative	1	Metal	Window frame	White	1st - N. corridor	Intact
83	0.1	mg/cm2	Negative	1	Metal	Fan cover	White	1st - N. corridor	Damaged
84	0	mg/cm2	Negative	1	Concrete	Column	White	1st - N. corridor	Intact
85	0	mg/cm2	Negative	1	Wood	Double doors	Varnish	1st - N. corridor	Damaged
86	1.2	mg/cm2	Positive	Ч	Metal	Door frame	White	1st - N. corridor	Damaged
87	0	mg/cm2	Negative	1	Wood	Double doors	Varnish	1st - N. corridor	Damaged
88	0.4	mg/cm2	Negative	1	Metal	Door frame	White	1st - N. corridor	Damaged

units		Result	Action Level	Substrate	Component	Color	Test Location	Condition
mg/cm2 Neg	Neg	ative	Ч	Wood	Door	Varnish	1st - Mech 100U3	Damaged
mg/cm2 Nega	Nega	tive	Ч	Drywall	Wall	White	1st - Mech 100U3	Damaged
mg/cm2 Negat	Negat	ive	Ч	Metal	Door frame	White	1st - Storage 115A	Damaged
mg/cm2 Positiv	Positiv	é	H	Metal	Door	Tan	1st - NW Stairs 100S3	Damaged
mg/cm2 Negati	Negati	ve	Ч	Metal	Door frame	White	1st - NW Stairs 100S3	Damaged
mg/cm2 Negati	Negati	ve	Ч	Concrete	Wall	White	1st - NW Stairs 100S3	Damaged
mg/cm2 Negativ	Negativ	e/	Ч	Wood	Stair rail	Beige	1st - NW Stairs 100S3	Intact
mg/cm2 Negativ	Negativ	é	Ч	Wood	Stair stringer	Beige	1st - NW Stairs 100S3	Damaged
mg/cm2 Negativ	Negativ	e/	Ч	Metal	Stair riser	Beige	1st - NW Stairs 100S3	Damaged
mg/cm2 Negativ	Negativ	ē	Ч	Metal	Door	Tan	1st - NW Stairs 100S3	Damaged
mg/cm2 Negative	Negative	a)	Ч	Metal	Door frame	White	1st - NW Stairs 100S3	Damaged
mg/cm2 Negativ	Negativ	رە	Ч	Drywall	Wall	White	1st - Ballet 103	Damaged
mg/cm2 Negativ	Negativ	a	Ч	Wood	Flooring	Varnish	1st - Ballet 103	Damaged
mg/cm2 Negativ	Negativ	دە	Ч	Brick	Block wall	White	1st - Ballet 103	Damaged
mg/cm2 Negative	Negative	a)	Ч	Wood	Double doors	Blue	1st - Ballet 103	Damaged
mg/cm2 Negative	Negative	a)	1	Metal	Door frame	White	1st - Ballet 103	Damaged
mg/cm2 Negative	Negative		1	Wood	Stair rail	Beige	1st - SE Stairs 100S1	Intact
mg/cm2 Negative	Negative		Ч	Wood	Stair stringer	Beige	1st - SE Stairs 100S1	Damaged
mg/cm2 Negative	Negative	a)	Ч	Metal	Stair riser	Beige	1st - SE Stairs 100S1	Damaged
mg/cm2 Negative	Negative	a)	Ч	Metal	Door	Tan	1st - SE Stairs 100S1	Damaged
mg/cm2 Negative	Negative	a)	Ч	Metal	Door frame	Tan	1st - SE Stairs 100S1	Damaged
mg/cm2 Negativ	Negativ	a	Ч	Brick	Block wall	White	1st - SE Stairs 100S1	Damaged
mg/cm2 Negativ	Negativ	e	Ч	Concrete	Wall	White	1st - SE Stairs 100S1	Damaged
mg/cm2 Negativ	Negativ	e	H	Concrete	Ceiling	White	1st - SE Stairs 100S1	Intact
mg/cm2 Negativ	Negativ	e	-	Wood	Stair rail	Beige	2nd - SE Stairs 200S1	Intact
mg/cm2 Negativ	Negativ	cD	Ч	Wood	Stair stringer	Beige	2nd - SE Stairs 200S1	Damaged
mg/cm2 Negativ	Negativ	a	Ч	Metal	Stair riser	Beige	2nd - SE Stairs 200S1	Damaged
mg/cm2 Negativ	Negativ	c۵	Ч	Brick	Block wall	White	2nd - SE Stairs 200S1	Damaged
mg/cm2 Negativ	Negativ	é	Ч	Concrete	Wall	White	2nd - SE Stairs 200S1	Damaged
mg/cm2 Negati	Negati	ve	Ч	Concrete	Ceiling	White	2nd - SE Stairs 200S1	Damaged
mg/cm2 Negativ	Negativ	ē	Ч	Metal	Door	Tan	2nd - SE Stairs 200S1	Damaged
mg/cm2 Negativ	Negativ	e	Ч	Metal	Door frame	Tan	2nd - SE Stairs 200S1	Damaged

Reading Number	Concentration	Units	Result	Action Level	Substrate	Component	Color	Test Location	Condition
121	0.5	mg/cm2	Negative	Ч	Brick	Block wall	White	2nd - S. corridor	Intact
122	0.1	mg/cm2	Negative	Ļ	Concrete	Column	White	2nd - S. corridor	Intact
123	0	mg/cm2	Negative	Ч	Wood	Door	White	2nd - S. corridor	Intact
124	0.7	mg/cm2	Negative	Ч	Metal	Door frame	White	2nd - S. corridor	Damaged
125	0	mg/cm2	Negative	Ч	Brick	Block wall	White	2nd - S. corridor	Intact
126	0.1	mg/cm2	Negative	Ч	Wood	Door	White	2nd - S. corridor	Intact
127	0.6	mg/cm2	Negative	Ч	Metal	Door frame	White	2nd - S. corridor	Damaged
128	0.2	mg/cm2	Negative	Ч	Metal	Vent / grill	White	2nd - Mech 200U3	Damaged
129	1.8	mg/cm2	Positive	1	Wood	Double doors	White	2nd - Mech 200U3	Damaged
130	0.8	mg/cm2	Negative	Ч	Metal	Door frame	White	2nd - Mech 200U3	Intact
131	0	mg/cm2	Negative	Ч	Wood	Door	White	2nd - Women's 200W1	Intact
132	0.5	mg/cm2	Negative	Ч	Metal	Door frame	White	2nd - Women's 200W1	Intact
133	0	mg/cm2	Negative	Ч	Brick	Block wall	Gray	2nd - Women's 200W1	Damaged
134	0	mg/cm2	Negative	Ч	Metal	Stall door	Gray	2nd - Women's 200W1	Damaged
135	0	mg/cm2	Negative	Ч	Metal	Window frame	Black	2nd - Women's 200W1	Damaged
136	0	mg/cm2	Negative	Ч	Wood	Double doors	Varnish	2nd - Mech 200U1	Damaged
137	1.1	mg/cm2	Positive	Ļ	Metal	Door frame	White	2nd - Mech 200U1	Damaged
138	0	mg/cm2	Negative	Ч	Brick	Block wall	White	2nd - N. corridor	Intact
139	0.9	mg/cm2	Negative	Ч	Concrete	Column	White	2nd - N. corridor	Intact
140	0.1	mg/cm2	Negative	Ч	Wood	Door	White	2nd - N. corridor	Intact
141	1.7	mg/cm2	Positive	1	Metal	Door frame	White	2nd - N. corridor	Damaged
142	0.3	mg/cm2	Negative	Ч	Brick	Block wall	White	2nd - N. corridor	Intact
143	0.1	mg/cm2	Negative	Ч	Concrete	Column	White	2nd - N. corridor	Intact
144	0.1	mg/cm2	Negative	Ļ	Wood	Door	White	2nd - N. corridor	Intact
145	1.5	mg/cm2	Positive	Ļ	Metal	Door frame	White	2nd - N. corridor	Damaged
146	0.3	mg/cm2	Negative	Ч	Brick	Block wall	White	2nd - Men's 200M1	Damaged
147	0.2	mg/cm2	Negative	H	Concrete	Wall	White	2nd - Men's 200M1	Damaged
148	0.1	mg/cm2	Negative	сц	Metal	Stall panel	White	2nd - Men's 200M1	Damaged
149	0.2	mg/cm2	Negative	сц	Concrete	Ceiling	White	2nd - Men's 200M1	Damaged
150	0	mg/cm2	Negative	H	Wood	Double doors	Varnish	2nd - Mech 200U2	Damaged
151	1	mg/cm2	Positive	1	Metal	Door frame	White	2nd - Mech 200U2	Damaged
152	0.1	mg/cm2	Negative	Ч	Wood	Stair rail	Beige	2nd - NW Stairs 200S3	Damaged

eading lumber	Concentration	Units	Result	Action Level	Substrate	Component	Color	Test Location	Condition
153	0.1	mg/cm2	Negative	1	Wood	Stair stringer	Beige	2nd - NW Stairs 200S3	Damaged
154	0.1	mg/cm2	Negative	1	Metal	Stair riser	Beige	2nd - NW Stairs 200S3	Damaged
155	0.3	mg/cm2	Negative	1	Brick	Block wall	White	2nd - NW Stairs 200S3	Damaged
156	0.2	mg/cm2	Negative	1	Concrete	Wall	White	2nd - NW Stairs 200S3	Intact
157	1.6	mg/cm2	Positive	1	Metal	Door	Tan	2nd - NW Stairs 200S3	Damaged
158	0.6	mg/cm2	Negative	1	Metal	Door frame	White	2nd - NW Stairs 200S3	Damaged
159	4.1	mg/cm2	Positive	1	Metal	Door	Tan	2nd - NW Stairs 200S3	Damaged
160	0.7	mg/cm2	Negative	1	Metal	Door frame	White	2nd - NW Stairs 200S3	Damaged
161	Ч	mg/cm2	Positive	1	N/A	Mid-Calibration	N/A	N/A	N/A
162	0.9	mg/cm2	Negative	1	N/A	Mid-Calibration	N/A	N/A	N/A
163	Ч	mg/cm2	Positive	1	N/A	Mid-Calibration	N/A	N/A	N/A
164	0.3	mg/cm2	Negative	1	Brick	Block wall	White	3rd - SW Stairs 300S4	Intact
165	0.1	mg/cm2	Negative	1	Metal	Door	Tan	3rd - SW Stairs 300S4	Damaged
166	0.7	mg/cm2	Negative	1	Metal	Door frame	White	3rd - SW Stairs 300S4	Damaged
167	0.2	mg/cm2	Negative	1	Wood	Stair rail	Beige	3rd - SW Stairs 300S4	Intact
168	0.4	mg/cm2	Negative	1	Metal	Stair stringer	Beige	3rd - SW Stairs 300S4	Damaged
169	0.3	mg/cm2	Negative	1	Metal	Stair riser	Beige	3rd - SW Stairs 300S4	Damaged
170	0.2	mg/cm2	Negative	1	Concrete	Ceiling	White	3rd - SW Stairs 300S4	Intact
171	0	mg/cm2	Negative	1	Wood	Double doors	Brown	3rd - Mech 300U4	Damaged
172	0.8	mg/cm2	Negative	1	Metal	Door frame	Brown	3rd - Mech 300U4	Intact
173	0.2	mg/cm2	Negative	1	Metal	Vent / grill	White	3rd - Mech 300U4	Damaged
174	0.3	mg/cm2	Negative	1	Brick	Block wall	White	3rd - S. corridor	Intact
175	0.1	mg/cm2	Negative	1	Concrete	Column	White	3rd - S. corridor	Intact
176	0	mg/cm2	Negative	1	Wood	Door	Brown	3rd - S. corridor	Intact
177	0.7	mg/cm2	Negative	1	Metal	Door frame	Brown	3rd - S. corridor	Damaged
178	0.4	mg/cm2	Negative	1	Brick	Block wall	Tan	3rd - Office 345	Intact
179	0	mg/cm2	Negative	1	Wood	Door	Brown	3rd - Office 345	Intact
180	0.6	mg/cm2	Negative	1	Metal	Door frame	Brown	3rd - Office 345	Intact
181	0.2	mg/cm2	Negative	1	Drywall	Restroom ceiling	White	3rd - Office 345	Intact
182	0.4	mg/cm2	Negative	1	Brick	Block wall	Tan	3rd - S. corridor	Intact
183	0	mg/cm2	Negative	1	Concrete	Column	Tan	3rd - S. corridor	Intact
184	0	mg/cm2	Negative	-	Wood	Door	Brown	3rd - S. corridor	Damaged

Reading Number	Concentration	Units	Result	Action Level	Substrate	Component	Color	Test Location	Condition
185	0.3	mg/cm2	Negative	1	Metal	Door frame	Brown	3rd - S. corridor	Damaged
186	0.4	mg/cm2	Negative	1	Brick	Block wall	White	3rd - Class 332	Intact
187	0.1	mg/cm2	Negative	1	Concrete	Column	White	3rd - Class 332	Intact
188	0	mg/cm2	Negative	1	Metal	Air duct	Brown	3rd - Class 332	Intact
189	0.6	mg/cm2	Negative	1	Concrete	Ceiling	White	3rd - Class 332	Intact
190	0.2	mg/cm2	Negative	1	Metal	Door	Brown	3rd - Class 332	Intact
191	0.8	mg/cm2	Negative	1	Metal	Door frame	Brown	3rd - Class 332	Intact
192	0	mg/cm2	Negative	1	Brick	Block wall	Tan	3rd - Office 325	Intact
193	0.1	mg/cm2	Negative	1	Wood	Door	Brown	3rd - Office 325	Intact
194	0.7	mg/cm2	Negative	1	Metal	Door frame	Brown	3rd - Office 325	Intact
195	1.7	mg/cm2	Positive	1	Metal	Door	Brown	3rd - Office 325	Intact
196	1.4	mg/cm2	Positive	Ļ	Metal	Door	Tan	3rd - NW Stairs 300S3	Damaged
197	0.9	mg/cm2	Negative	1	Metal	Door frame	White	3rd - NW Stairs 300S3	Damaged
198	0.4	mg/cm2	Negative	1	Brick	Block wall	White	3rd - NW Stairs 300S3	Damaged
199	0.3	mg/cm2	Negative	1	Concrete	Ceiling	White	3rd - NW Stairs 300S3	Damaged
200	0	mg/cm2	Negative	1	Metal	Door	Tan	3rd - NW Stairs 300S3	Intact
201	0.6	mg/cm2	Negative	1	Metal	Door frame	White	3rd - NW Stairs 300S3	Damaged
202	0.2	mg/cm2	Negative	1	Wood	Stair rail	Beige	3rd - NW Stairs 300S3	Damaged
203	0.2	mg/cm2	Negative	1	Metal	Stair stringer	Beige	3rd - NW Stairs 300S3	Damaged
204	0.1	mg/cm2	Negative	1	Metal	Stair riser	Beige	3rd - NW Stairs 300S3	Damaged
205	0	mg/cm2	Negative	1	Drywall	Wall	Tan	1st - Mech 100U6	Damaged
206	23.5	mg/cm2	Positive	Ļ	Cast iron	Mop sink	White	1st - Mech 100U3	Damaged
207	0.1	mg/cm2	Negative	1	Metal	Pipe	White	1st - Mech 100U3	Damaged
208	0.3	mg/cm2	Negative	1	Brick	Block wall	White	1st - Mech 100U3	Damaged
209	0.1	mg/cm2	Negative	1	Concrete	Wall	White	1st - Mech 100U3	Damaged
210	0.3	mg/cm2	Negative	1	Ceramic	Tile floor	Red	1st - Mech 100U3	Damaged
211	0.1	mg/cm2	Negative	1	Drywall	Wall	Blue	1st - Workroom 113A	Intact
212	0	mg/cm2	Negative	Ч	Wood	Handrail	Blue	1st - Workroom 113A	Intact
213	0.1	mg/cm2	Negative	Ч	Drywall	Ceiling	White	1st - Workroom 113A	Intact
214	0.2	mg/cm2	Negative	Ļ	Drywall	Wall	White	1st - Storage 113B	Intact
215	0.1	mg/cm2	Negative	Ч	Wood	Door frame	White	1st - Storage 113B	Intact
216	0.3	mg/cm2	Negative	1	Wood	Window frame	White	1st - Storage 113B	Intact

Reading	Concentration	Units	Result	Action	Substrate	Component	Color	Test Location	Condition
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217	0.1	mg/cm2	Negative	Η	Drywall	Ceiling	White	1st - Storage 113B	Intact
218	0.1	mg/cm2	Negative	1	Drywall	Wall	Orange	1st - Storage 113B	Intact
219	0	mg/cm2	Negative	1	Wood	Ramp rail	White	1st - Storage 113B	Damaged
220	0.1	mg/cm2	Negative	1	Drywall	Wall	Tan	1st - Orientation 116	Intact
221	0.1	mg/cm2	Negative	1	Drywall	Wall	Blue	1st - Orientation 116	Intact
222	0	mg/cm2	Negative	1	Wood	Door	Varnish	1st - Orientation 116	Intact
223	0	mg/cm2	Negative	1	Metal	Door frame	Tan	1st - Orientation 116	Intact
224	0	mg/cm2	Negative	1	Wood	Cabinet	White	1st - Orientation 116	Intact
225	0.3	mg/cm2	Negative	1	Ceramic	Tile floor	Red	1st - Orientation 116	Intact
226	0.1	mg/cm2	Negative	1	Brick	Block wall	Tan	1st - Orientation 116	Intact
227	0.3	mg/cm2	Negative	1	Concrete	Block wall	White	1st - Orientation 116	Damaged
228	0	mg/cm2	Negative	1	Brick	Block wall	White	1st - Orientation 116	Damaged
229	0.1	mg/cm2	Negative	1	Metal	Pipe	Tan	1st - Orientation 116	Intact
230	0	mg/cm2	Negative	1	Wood	Door	Varnish	1st - Orientation 116	Intact
231	0.1	mg/cm2	Negative	1	Metal	Door frame	Tan	1st - Orientation 116	Intact
232	0.2	mg/cm2	Negative	1	Concrete	Column	Tan	1st - Orientation 116	Intact
233	0.4	mg/cm2	Negative	1	Brick	Block wall	Blue	1st - Orientation 116	Intact
234	0	mg/cm2	Negative	1	Drywall	Wall	Tan	1st - Orientation 116	Intact
235	0.1	mg/cm2	Negative	1	Drywall	Panel wall	Tan	1st - Orientation 116	Damaged
236	0	mg/cm2	Negative	1	Drywall	Wall	Blue	1st - Orientation 116	Intact
237	0.1	mg/cm2	Negative	1	Wood	Panel wall	White	3rd - Office 321	Intact
238	0.1	mg/cm2	Negative	1	Wood	Double doors	Brown	3rd - Mech 300U2	Intact
239	0.4	mg/cm2	Negative	1	Metal	Door frame	Brown	3rd - Mech 300U2	Intact
240	0.4	mg/cm2	Negative	1	Brick	Block wall	White	3rd - Office 319	Intact
241	0	mg/cm2	Negative	1	Wood	Door	Brown	3rd - Office 319	Intact
242	0.9	mg/cm2	Negative	1	Metal	Door frame	Brown	3rd - Office 319	Intact
243	0	mg/cm2	Negative	1	Drywall	Wall	White	3rd - Office 319	Intact
244	0	mg/cm2	Negative	1	Brick	Block wall	White	3rd - Breakroom 313	Intact
245	0.1	mg/cm2	Negative	1	Drywall	Wall	White	3rd - Breakroom 313	Intact
246	0	mg/cm2	Negative	1	Wood	Cabinet	Varnish	3rd - Breakroom 313	Damaged
247	25.3	mg/cm2	Positive	H	Cast iron	Sink	White	3rd - Breakroom 313	Intact
248	0	mg/cm2	Negative	1	Wood	Double doors	Brown	3rd - Mech 300U1	Intact

Reading Number	Concentration	Units	Result	Action Level	Substrate	Component	Color	Test Location	Condition
249	0.6	mg/cm2	Negative	1	Metal	Door frame	Brown	3rd - Mech 300U1	Intact
250	0.1	mg/cm2	Negative	1	Brick	Block wall	White	3rd - Room 309	Intact
251	3.2	mg/cm2	Positive	1	Metal	Door	Brown	3rd - Room 309	Intact
252	Ч	mg/cm2	Positive	1	Metal	Door frame	Brown	3rd - Room 309	Intact
253	0	mg/cm2	Negative	1	Brick	Block wall	White	3rd - Storage 306A	Intact
254	0.3	mg/cm2	Negative	1	Concrete	Ceiling	White	3rd - Storage 306A	Intact
255	3.6	mg/cm2	Positive	1	Metal	Door	Brown	3rd - Storage 306A	Intact
256	0.7	mg/cm2	Negative	1	Metal	Door frame	Brown	3rd - Storage 306A	Intact
257	0.3	mg/cm2	Negative	1	Brick	Block wall	Black	3rd - Room 303	Intact
258	0.2	mg/cm2	Negative	1	Concrete	Column	Black	3rd - Room 303	Intact
259	0.4	mg/cm2	Negative	1	Concrete	Ceiling	White	3rd - Room 303	Intact
260	0	mg/cm2	Negative	1	Metal	Air duct	Brown	3rd - Room 303	Damaged
261	0.3	mg/cm2	Negative	1	Brick	Wall	White	3rd - NE Stairs 300S2	Intact
262	0.1	mg/cm2	Negative	1	Wood	Stair rail	Beige	3rd - NE Stairs 300S2	Intact
263	0.3	mg/cm2	Negative	1	Metal	Stair stringer	Beige	3rd - NE Stairs 300S2	Damaged
264	0.3	mg/cm2	Negative	1	Metal	Stair riser	Beige	3rd - NE Stairs 300S2	Damaged
265	0.1	mg/cm2	Negative	1	Concrete	Ceiling	White	3rd - NE Stairs 300S2	Damaged
266	3.2	mg/cm2	Positive	1	Metal	Door	Tan	3rd - NE Stairs 300S2	Damaged
267	0.9	mg/cm2	Negative	1	Metal	Door frame	White	3rd - NE Stairs 300S2	Damaged
268	2.8	mg/cm2	Positive	1	Metal	Door	Tan	3rd - NE Stairs 300S2	Damaged
269	0.7	mg/cm2	Negative	1	Metal	Door frame	White	3rd - NE Stairs 300S2	Damaged
270	0.8	mg/cm2	Negative	1	N/A	Post-Calibration	N/A	N/A	N/A
271	0.9	mg/cm2	Negative	1	N/A	Post-Calibration	N/A	N/A	N/A
272	Ч	mg/cm2	Positive	1	N/A	Post-Calibration	N/A	N/A	N/A
273	0.9	mg/cm2	Negative	1	N/A	Pre-Calibration	N/A	N/A	N/A
274	Ч	mg/cm2	Positive	1	N/A	Pre-Calibration	N/A	N/A	N/A
275	0.9	mg/cm2	Negative	1	N/A	Pre-Calibration	N/A	N/A	N/A
276	0.2	mg/cm2	Negative	1	Concrete	Overhang / Ceiling	White	Exterior 1st - W. side	Damaged
277	0.1	mg/cm2	Negative	1	Metal	Door	Tan	Exterior 1st - W. side	Damaged
278	0.5	mg/cm2	Negative	1	Metal	Door frame	Tan	Exterior 1st - W. side	Damaged
279	0.2	mg/cm2	Negative	1	Metal	Door lintel	Tan	Exterior 1st - W. side	Damaged
280	1.5	mg/cm2	Positive	1	Metal	Door	Tan	Exterior 1st - W. side	Damaged

Reading Number	Concentration	Units	Result	Action	Substrate	Component	Color	Test Location	Condition
281	0.4	mg/cm2	Negative	Ļ	Metal	Door frame	Tan	Exterior 1st - W. side	Damaged
282	0.7	mg/cm2	Negative	4	Metal	Window lintel	Tan	Exterior 1st - S. side	Damaged
283	0.3	mg/cm2	Negative	1	Concrete	Wall	White	Exterior 1st - S. side	Damaged
284	10.9	mg/cm2	Positive	1	Ceramic	Tile wall	Blue	Exterior 1st - S. side	Intact
285	0.3	mg/cm2	Negative	1	Concrete	Overhang / Soffit	White	Exterior 1st - S. side	Damaged
286	0.4	mg/cm2	Negative	1	Concrete	Overhang / Ceiling	White	Exterior 1st - E. side	Damaged
287	0.1	mg/cm2	Negative	1	Metal	Door	Tan	Exterior 1st - E. side	Damaged
288	0.7	mg/cm2	Negative	1	Metal	Door frame	Tan	Exterior 1st - E. side	Damaged
289	0.2	mg/cm2	Negative	1	Metal	Door lintel	Tan	Exterior 1st - E. side	Damaged
290	0.1	mg/cm2	Negative	1	Metal	Handrail	Brown	Exterior 2nd - N. side	Damaged
291	0	mg/cm2	Negative	1	Metal	Double doors	Brown	Exterior 2nd - N. side	Intact
292	0.4	mg/cm2	Negative	1	Metal	Door frame	Brown	Exterior 2nd - N. side	Intact
293	11	mg/cm2	Positive	1	Ceramic	Tile wall	Tan	Exterior 2nd - N. side	Intact
294	1.3	mg/cm2	Positive	1	Metal	Window lintel	Tan	Exterior 2nd - N. side	Damaged
295	2.1	mg/cm2	Positive	1	Metal	Double doors	Brown	Exterior 2nd - N. side	Intact
296	0.5	mg/cm2	Negative	1	Metal	Door frame	Brown	Exterior 2nd - N. side	Intact
297	0.1	mg/cm2	Negative	1	Wood	Vent louvers trim	Tan	Exterior 2nd - N. side	Damaged
298	1.6	mg/cm2	Positive	Ļ	Metal	Door	Tan	Exterior 2nd - W. side	Intact
299	0.7	mg/cm2	Negative	1	Metal	Door frame	Tan	Exterior 2nd - W. side	Intact
300	1.9	mg/cm2	Positive	1	Metal	Door lintel	Tan	Exterior 2nd - W. side	Intact
301	1	mg/cm2	Positive	1	Metal	Window lintel	Tan	Exterior 2nd - W. side	Intact
302	0.2	mg/cm2	Negative	1	Concrete	Walkway	Gray	Exterior 2nd - W. side	Intact
303	0.3	mg/cm2	Negative	1	Concrete	Overhang / Ceiling	White	Exterior 2nd - W. side	Damaged
304	0.6	mg/cm2	Negative	1	Metal	Door frame	Tan	Exterior 2nd - W. side	Intact
305	0.1	mg/cm2	Negative	1	Metal	Door	Tan	Exterior 2nd - W. side	Intact
306	0.3	mg/cm2	Negative	1	Metal	Handrail	Silver	Exterior 2nd - W. side	Damaged
307	0.1	mg/cm2	Negative	1	Metal	Door	Tan	Exterior 2nd - E. side	Damaged
308	0.6	mg/cm2	Negative	1	Metal	Door frame	Tan	Exterior 2nd - E. side	Damaged
309	0.2	mg/cm2	Negative	1	Concrete	Overhang / Ceiling	White	Exterior 2nd - E. side	Damaged
310	0.4	mg/cm2	Negative	Ļ	Concrete	Door threshold	Black	Exterior 2nd - E. side	Damaged
311	0.4	mg/cm2	Negative	1	Metal	Handrail	Silver	Exterior 2nd - E. side	Damaged
312	0.5	mg/cm2	Negative	1	Metal	Door	Tan	Exterior 2nd - E. side	Damaged

tion Condition	- E. side Damaged	- E. side Intact	- E. side Intact	- E. side Intact	- E. side Damaged	- E. side Damaged	- E. side Intact	- E. side Intact	- E. side Intact	W. side Intact	W. side Intact	W. side Intact	W. side Intact	W. side Damaged	W. side Intact	W. side Intact	W. side Intact	W. side Intact	W. side Damaged	W. side Damaged	W. side Damaged	111 cide Intact	W. slae IIIIau								
Test Locat	Exterior 2nd -	Exterior 3rd -	Exterior 3rd -	Exterior 3rd -	Exterior 3rd -	Exterior 3rd -	Exterior 3rd -	Exterior 3rd -	Exterior 3rd -	Exterior 3rd - \	Exterior 3rd - \	Exterior 3rd - V	Exterior 3rd - V	Exterior 3rd - \	Exterior 3rd - \	Exterior 3rd - \	Exterior 3rd - \	Exterior 3rd - \	Exterior 3rd - \	Exterior 3rd - \	Exterior 3rd - \	Exterior 3rd - \									
Color	Tan	Tan	Tan	Tan	Silver	Black	Tan	White	Tan	Tan	Tan	Tan	Silver	Tan	Tan	Tan															
Component	Door frame	Door lintel	Window lintel	Door	Door lintel	Window lintel	Door	Door frame	Door lintel	Door	Door frame	Door lintel	Handrail	Door threshold	Window lintel	Door	Door	Door	Door frame	Window lintel	Door lintel	Overhang / Ceiling	Door	Door frame	Door lintel	Window lintel	Handrail	Door	Door frame	Door lintel	
Substrate	Metal	Metal	Metal	Metal	Metal	Concrete	Metal	Concrete	Metal																						
Action Level	1	1	1	1	1	1	H	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Result	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Negative	Negative	Negative	Negative	Positive	Negative	Negative	Positive	Negative	Negative	Negative	Negative	Negative	Negative	Positive	Negative	Negative							
Units	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2	mg/cm2									
Concentration	0.6	0.4	0.7	2.7	0.6	0.8	1.7	0.8	0.6	0.1	0.7	1.2	0.4	0.1	1.3	0.1	0.1	0.1	0.7	0.5	0.9	0.4	0.1	0.8	0.8	0.7	0.4	1.3	0.5	0.7	
Reading Number	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	

Reading Number	Concentration	Units	Result	Action Level	Substrate	Component	Color	Test Location	Condition
345	3.7	mg/cm2	Positive	H	Metal	Door	Tan	2nd - Room 209	Damaged
346	0.3	mg/cm2	Negative	Ч	Metal	Door frame	Tan	2nd - Room 209	Intact
347	0	mg/cm2	Negative	Ч	Concrete	Column	White	2nd - Room 209	Intact
348	0.4	mg/cm2	Negative	Ļ	Concrete	Ceiling	White	2nd - Room 209	Intact
349	0	mg/cm2	Negative	Ч	Metal	Air duct	Brown	2nd - Room 209	Damaged
350	0.1	mg/cm2	Negative	Ч	Drywall	Wall	Green	2nd - Room 209	Intact
351	0.3	mg/cm2	Negative	Ч	Brick	Block wall	White	2nd - Room 221	Intact
352	0.3	mg/cm2	Negative	Ļ	Concrete	Ceiling	White	2nd - Room 221	Intact
353	0.5	mg/cm2	Negative	Ч	Metal	Door	Brown	2nd - Room 221	Intact
354	0.4	mg/cm2	Negative	Ч	Metal	Door frame	Brown	2nd - Room 221	Intact
355	0	mg/cm2	Negative	Ч	Metal	Air duct	Brown	2nd - Room 221	Damaged
356	0	mg/cm2	Negative	Ч	Wood	Swinging door	Orange	2nd - Room 221	Damaged
357	0.1	mg/cm2	Negative	Ч	Wood	Counter	Orange	2nd - Room 221	Intact
358	0.4	mg/cm2	Negative	Ч	Metal	Door swing equip.	Silver	2nd - SW hall area	Damaged
359	0.1	mg/cm2	Negative	Ļ	Metal	Pipe	Silver	2nd - Mech 200U3	Damaged
360	0.1	mg/cm2	Negative	Ч	Metal	Pipe	Silver	3rd - Mech 300U2	Damaged
361	0	mg/cm2	Negative	Ч	Brick	Block wall	Gray	2nd - Room 215	Damaged
362	0	mg/cm2	Negative	Ч	Concrete	Wall	White	2nd - Room 215	Intact
363	0.3	mg/cm2	Negative	Ч	Brick	Block wall	Gray	2nd - Room 213	Intact
364	0.1	mg/cm2	Negative	Ч	Concrete	Wall	White	2nd - Room 213	Intact
365	0.1	mg/cm2	Negative	Ч	Concrete	Ceiling	White	2nd - Room 213	Damaged
366	0.5	mg/cm2	Negative	Ч	Brick	Block wall	Gray	2nd - Studio 241	Intact
367	0.3	mg/cm2	Negative	Ч	Concrete	Column	Gray	2nd - Studio 241	Intact
368	H	mg/cm2	Positive	H	Wood	Restroom door	White	2nd - Studio 241	Intact
369	0.5	mg/cm2	Negative	Ч	Metal	Door frame	White	2nd - Studio 241	Intact
370	0.1	mg/cm2	Negative	Ч	Drywall	Restroom ceiling	White	2nd - Studio 241	Intact
371	0.1	mg/cm2	Negative	Ч	Wood	Panel wall	White	2nd - Studio 241	Intact
372	0	mg/cm2	Negative	Ч	Brick	Block wall	Gray	2nd - Studio 235	Intact
373	0.1	mg/cm2	Negative	Ч	Concrete	Column	Gray	2nd - Studio 235	Intact
374	0.1	mg/cm2	Negative	H	Drywall	Restroom ceiling	White	2nd - Studio 235	Intact
375	0.9	mg/cm2	Negative	Ч	Wood	Restroom door	White	2nd - Studio 235	Intact
376	0.6	mg/cm2	Negative	Ч	Metal	Door frame	White	2nd - Studio 235	Intact

Reading	Concentration	Units	Result	Action	Substrate	Component	Color	Test Location	Condition
Inumber				revel					
377	0.2	mg/cm2	Negative	1	Wood	Panel wall	White	2nd - Studio 235	Intact
378	0.9	mg/cm2	Negative	1	N/A	Post-Calibration	N/A	N/A	N/A
379	1	mg/cm2	Positive	1	N/A	Post-Calibration	N/A	N/A	N/A
380	1	mg/cm2	Positive	1	N/A	Post-Calibration	N/A	N/A	N/A

Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2015

MANUFACTURER AND MODEL:

Make:	Heuresis
Models:	Model Pb200i
Source:	⁵⁷ Co, 5 mCi (nominal – new source)

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

ACTION LEVEL MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm ²)
Results not corrected for substrate bias on any substrate	Brick Concrete Drywall Metal	1.0 1.0 1.0 1.0
	Plaster Wood	1.0 1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

OPERATING PARAMETERS

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm² for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm² at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm². Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

Correction value = (1st + 2nd + 3rd + 4th + 5th + 6th Reading)/6 - 1.02 mg/cm²

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

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Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm². The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level				
Reading (mg/cm ²)	Mean Reading Time (seconds)	Standard Deviation (seconds)		
< 0.7	3.48	0.47		
0.7	7.29	1.92		
0.8	13.95	1.78		
0.9 – 1.2	15.25	0.66		
1.3 – 1.4	6.08	2.50		
<u>></u> 1.5	3.32	0.05		

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm^2) , and *negative* if they are *less than* the threshold.

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at <u>http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997</u>.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.



















Sam Houston State University – Academic Building 3 Lead-Based Paint Positive Photographs, 9/13/2023 & 9/14/2023





Sam Houston State University – Academic Building 3 Lead-Based Paint Positive Photographs, 9/13/2023 & 9/14/2023















Legend for Lead-Based Paint Component Location Drawings

Highlighted components are approx. locations of representative components that tested positive for lead-based paint
= Interior brick block wall (appears isolated)
= Interior cast iron sinks (observed – possibly other sinks present)
= Interior / exterior metal or wood door system components (various doors, frames, lintels)
= Exterior metal window lintels (lintels are not present on all window systems)
= Exterior ceramic tile walls





A PROGRAM OF REQUIREMENTS FOR THE NEW ACTIVE LEARNING CENTER AT SAM HOUSTON STATE UNIVERSITY
3rd Floor North >>





Texas Department of State Health Services

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Lead Firm



in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas Occupations Code, Chapter 1955 and Title 25, Texas Administrative Code, Chapter 295 relating to Texas Environmental Lead Reduction, as long as this license is not suspended or revoked.



Control Number: 7334

Certification Number: 2110693



Texas Department of State Health Services

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Certification Number: 2070953

Control Number: 8081

Jennifer Shuford, MD, MPH, Commissioner of Health

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Expiration Date: 04/05/2025

(Void After Expiration Date)

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Certification Number: 2070943

Control Number: 7955

Anvironmental Lend Reduction, as long as this license is not suspended or revoked. Expiration Date: 12/28/2023 John Hellerstedt, M.D., Commissioner of Health Void After Expiration Date) Void Healter SEE BACK



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