RFP No. 455-016

REQUEST FOR PROPOSALS (RFP)
FOR THE LEASING OF OFFICE AND LABORATORY SPACE
TO BE OCCUPIED BY THE
STATE OF WISCONSIN
DEPARTMENT OF JUSTICE
FOR THE WAUSAU CRIME LABORATORY
WITHIN THE GREATER WAUSAU AREA, WI.

Issued: May 7, 2026

Due Date: Thursday July 23, 2026 2:00 PM Central Time

PREPARED BY:
STATE OF WISCONSIN
DEPARTMENT OF ADMINISTRATION
DIVISION OF FACILITIES AND TRANSPORTATION SERVICES
101 EAST WILSON STREET, 7TH FLOOR
MADISON, WISCONSIN, 53707-7866

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PROJECT OVERVIEW

The State of Wisconsin (the State) is seeking cost-effective, well-qualified lease proposals that detail the Proposer's qualifications, relevant and proven experience in designing and constructing laboratory facilities, financial capability and implementation strategy that meets or exceeds the State's requirements as outlined in this RFP. Well qualified teams must:

- Understand the principles and goals identified in this RFP.
- Add/maximize value in the design, development, construction, and delivery of a high-quality State laboratory and office facility with sufficient parking.
- Assign a team of professionals with demonstrated experience of working together on similar projects.
- Possess the capacity to secure the required financing necessary to complete this Project.
- Possess the development expertise necessary to complete this Project.

A. Project Scope

The State of Wisconsin's Department of Administration (DOA), Division of Facilities and Transportation Services (DFTS) desires to lease approximately 28,600 rentable square feet of office and laboratory space, along with a total of 70 on-site parking stalls for staff, visitors and State-owned vehicles for use by the Department of Justice (DOJ). The lease will be structured as a gross lease with proposals for both a 10 and 20-year initial lease term with four 5-year renewal options. This facility should be within "Greater Wausau area" which includes the City of Wausau and surrounding communities within Marathon County, such as Rib Mountain, Schofield, Rothschild, and Weston, or other nearby jurisdictions that provide comparable proximity and access. Additional site requirements are listed in Appendix A.

B. Project Components

Proposals must address how it will deliver the following Project components:

Approximately 28,600 GSF New State Crime Laboratory and Office Facility

The successful Proposer must provide an approximately 28,600 GSF turn-key crime laboratory and supporting office facility to be located within the Greater Wausau area, Marathon County as defined in Appendix A in this RFP. The new facility shall be one to two stories designed and built and/or renovated in accordance with this RFP. Furniture, fixtures, and equipment indicated in this RFP must also be provided. The Wisconsin State Crime Laboratories (WSCL) are accredited by ANAB and conforms with standards (ISO 17205:2017 Standards, ANAB AR 3125) with requirements related to design, environmental conditions and security (see Forensic Service Provider – ANAB). Operational programming requirements are outlined below, with detailed specifications provided in the applicable section of Appendix C of this RFP.

Tenant – Department of Justice	Assignable Sq. Ft.
Training and Public Areas	2,020
Administration	886
Evidence Receiving and Processing	2,159
Chemistry	5,654
Criminalistics	4,589
Crime Scene Response	3,118
Support	3,643
Circulation 30%	6,621
Total Estimated Gross Square Feet	28,690

C. Parking Structure and or Surface Lots

Proposals must provide a total of 70 onsite parking spaces for staff, visitors, and vendors' vehicles comprised of 30 parking stalls with 24/7 access for staff, 5 parking stalls for use by law enforcement agencies submitting or picking up evidence and located near the evidence submission entrance, 5 parking stalls for use by vendors and staff making deliveries and located near the loading dock, and 30 stalls for use by visitors and located near the public entrance and equipped with an electric vehicle charging station. The parking lot should be highly illuminated and equipped with security camera system capable of complete parking lot surveillance. Parking lot design should account for the addition of secure parking in the future, if desired. Secured parking is defined as onsite, dedicated, fully fenced, security gate with card access and intercom system. The parking requirements can be satisfied through the use of a parking structure (above or below ground), surface parking, or a combination thereof.

I. SELECTION AND AWARD PROCESS

A. Schedule

The Following is a TENTATIVE schedule.

Selection Process	**Date or Timeline**
RFP Posted	May 7, 2026
Proposer's Questions Due to DOA by 2:00 PM CT	June 11, 2026
Responses to Proposers Questions Posted	June 18, 2026
Proposals Due by 2:00 PM CT (Due Date)	**July 23, 2026**
Initial Evaluations of Proposals and possible Property Tours	Approximately 1-2 wks.
Request for Best & Final Offer (BAFO) Letter from Short-listed Proposers	Approximately 1-2 wks.
BAFO Letters DUE, if requested	Approximately 1-2 wks.

Final Evaluations	Approximately 1-2 wks.
Letter of Intent (LOI) issued to selected Proposer & Lease Negotiations	Approximately 1-2 wks.
State Building Commission Approval (target)	TBD
Joint Committee on Finance Passive Review (target)	TBD
Lease Execution (after necessary approvals)	Approx. 1 week
Targeted Tenant Access Date	June 1, 2027
Targeted Lease Commencement Date	July 1, 2027
Note: These dates are subject to extension at the discretion of the State	

B. Proposers Questions and DOA Responses

On or before 2:00 PM CT on June 11, 2026, Proposers may submit written requests for clarification of this RFP and/or questions utilizing the form provided in Appendix F. Submit the completed form via email to doarealestateinfo@wisconsin.gov. Please reference RFP #455-016 in the subject line of the email.

Written responses to properly submitted relevant requests will be posted by June 18, 2026 on the following website: https://doa.wi.gov/Pages/DoingBusiness/Current-Real-Estate-RFPs-and-RFIs.aspx

C. Evaluation Selection and Award Process

All proposals submitted in response to this Request for Proposal will be evaluated by a Selection Committee consisting of representatives of DOA and DOJ. The final selection will be made by the Secretary of the Department of Administration. While monetary terms of each Proposal will be strongly considered, the final selection may not be the lowest cost proposal, as the final selection will be based on the proposal that best meets all of the RFP standards. This is not a fixed-bid proposal, and all items are subject to further negotiations. Variances to the specifications of this RFP may be considered for spaces with "as is" conditions that may prohibit exact conformance to the specifications. A thorough explanation of the variances and the "as is" conditions contributing to the variance must be supplied by the Proposer.

The State reserves the right to modify, amend and/or cancel this RFP at any time and reject any and all proposals at its sole discretion.

The selection of a proposal is a five-part selection process:

Part One: Initial Evaluation of Proposals

An initial evaluation of all proposals received will be completed by the Selection Committee based upon the criteria listed in this RFP. Property tours may be scheduled and completed for those proposals meeting the general requirements of this RFP. The highest scoring proposals, the number of which is at DOA's discretion, may then be short-listed for further consideration.

Part Two: Request for Best and Final Offer (BAFO) Letters

Short-listed proposers may be asked to provide Best and Final Offer letters (BAFO). Within this letter, Proposers are to respond to additional questions and/or requests for clarification. BAFO letters also represent an opportunity for proposers to correct any previously submitted information and/or to provide more attractive proposal terms. BAFO letters must be received no later than the due date stated in the BAFO letter request.

Part Three: Possible In-person Interview and possible site tour

Certain short-listed Proposers may be invited to an interview which will be conducted in-person at DOA, virtual or at the proposed site. An invitation letter will be sent via email with the date, time, and method of interview.

Part Four: Final Evaluation

Final evaluations will be completed for all short-listed proposals by incorporating the Initial evaluations, BAFO letters, site tours, and interviews (if applicable). If necessary, the Selection Committee may ask for additional clarifications necessary to make a complete and full assessment. Based upon the final evaluation, the Selection Committee may recommend one or more proposals which best meet DOJ's needs to the DOA Secretary for review and selection. The Secretary may choose from any proposals submitted by the Selection Committee or close the RFP without award or selection.

Part Five: Letter of Intent (LOI)

If a proposal is selected by the DOA Secretary, a Letter of Intent (LOI) will be sent to the selected Proposer. The LOI represents the State's intention to pursue lease negotiations with the Selected Proposer. Should the State be unable to achieve acceptable lease terms with the selected Proposer, it reserves the right to cancel the selection and negotiate with another proposer.

NOTICE: Final lease execution is contingent upon receiving approval from the Wisconsin State Building Commission (see Section IV. C below) and if applicable, the Joint Committee on Finance (see Section IV.D below).

II. PROPOSAL SUBMITTAL REQUIREMENTS

Proposals must be submitted utilizing the following format requirements and process:

A. Format

Proposals should be formatted to print on 8.5"x11" paper, either portrait or landscape. For legibility purposes, site plans, schedules, or other relevant proposal documents may be formatted to print on 11"x17" paper.

B. Criteria

Proposals will be evaluated on the requirements contained in this RFP. The following are primary criteria:

1. Lease terms and conditions
2. Site development Plans
3. Facility details, layout and amenities
4. Schedule and target occupancy

C. Content of Proposal

Proposals must include the following information: Proposals must meet at a minimum, the standards and requirements listed herein, and agreement of the language of the State of Wisconsin's standard lease document (to be modified by the specific terms and conditions pertinent to this RFP – see Gross Lease Template Link in Appendix H). It is mandatory that all proposers utilize the attached Proposer's Response Sheet (Appendix G); and include the specific information, plans/drawings, specifications, and schedules required for their response, as listed below:

Note: In the event any item listed below is not addressed in the proposal, the proposal will be evaluated as failing to meet the standards with respect to such items.

1) Proposer Information

- Fully completed Proposer's Response Sheet. Supply documentation if available, supporting each of the cost elements, as noted.
- Proposer and proposer's team contact information including firm name, contact, business address, phone number, website, number of years in business and roles and responsibility in this Project.
- Identify if the Firm is a Minority Business Enterprise (MBE) or Disabled Veteran-Owned Business (DVB).
- Public Project Experience - Please provide the title, total project cost, and completion date of the highest dollar value construction project each firm has completed. Workload and capacity.
- Please identify each firm's current commitments and anticipated new engagements throughout the duration of this Project.
- Please identify how potential overlap and capacity issues would be addressed to ensure a successful project for the State.
- Minority Business Enterprise and Disabled Veteran-Owned Business (MBE/DVB) Participation.
- Please describe the Proposer Team's goals and action plan to encourage MBE/DVB participation on this Project.

2) Relevant Experience and Past Performance

- Please identify at least three (3) similar or relevant projects, either completed previously or currently under development by at least one member firm of the Proposer Team, that includes at least one of the following components: 1) State or other office building or laboratory; 2) Public Private Partnership, and/or; 3) a mixed-use development.
  For each of the projects listed:
- Describe the Proposer Team's roles and responsibilities.
- Provide an end-user reference (name, title, company, telephone number, and email address)

3) Design Team

- Lead members must have experience designing at least 2 similar laboratories at least 3/4 the size where chemicals are used for analysis. This includes the architect, lab planner and MEP lead designers/planners.

4) Financial Capabilities

- Proposals must address the Team's financial ability to complete all Project components by demonstrating:
- Recent experience securing financing for project(s) of similar size and complexity, specifically;
    i. Satisfactory evidence of having obtained financing for project(s) with a total cost of $10 Million or more in the last five (5) years, and:
    ii. Satisfactory evidence of the ability to obtain financing for development and land acquisition project(s) with a total cost of $15 Million or more.
- Letter(s) of interest from potential lenders.
- Ability to obtain sufficient bonding capacity and insurance for this Project.
- Balance sheet and evidence of cash and/or cash equivalents sufficient to implement this Project.
- Attestation that no member firm of the Proposer Team has filed for bankruptcy in the last ten (10) years or is currently in bankruptcy.

5) Concept and Design Examples

Proposals must include an overall master plan and architectural theme for the Crime Lab that incorporates its highest and best use. The plan should describe:

- Project size (including massing)
- Parking and Transit Oriented Features
- Sustainable Design
  The proposal should include:

- Interior drawings or renderings of the proposed space and common areas, along with exterior renderings of the building and parking lots/ramp.
- Site plan showing the proposed building location, number and type of available parking spots, ingress/egress, loading dock(s), lighting, landscaping and sidewalks.
- 1/8" scale floor plans. This plan should include dimensions and furniture.

The proposal shall include alternative cost impacts for the following two options related to the firing range incorporated with the facility design:

Option 1: Integrated Indoor Firing Range

Include in the proposal design and construction of a 425 square foot firing range to be built within the facility, in accordance with the specifications outlined in Appendix C and the Room Design Specifications (RDS) for Room 511.

and

Option 2: Integration of Existing Mobile Shipping Container Range

As an alternative to option 1, Provide the cost savings for the relocation, placement, and integration of an existing 8’ x 50’ standalone shipping container firing range, currently owned by the Department of Justice (DOJ).

The option 2 cost estimate should account for:

- Relocation,
- Site preparation and infrastructure connections to include concrete footings, lightning protection system, natural gas and electrical 150AMP/208V/3 Phase/60 Hz connectivity, and conduits for network and security cables.
- Integration with the overall facility layout, which would include enclosed walkway access to the exterior firing range offering protection from environmental conditions and maintain building security.

If option 2 is selected, then DOJ will be responsible for ongoing maintenance and repair of the mobile shipping container range.

6) Implementation Strategy, Budget and Schedule

Proposals must outline the Proposer's strategy and method to implement the Project including:

- Project Phasing, Construction Schedule, and Occupancy.
- Project Budget, Proforma, and Cash Flow Projections.
- Estimates of the Overall Economic Impact of this Project.
- Current Zoning, Path for Public Approvals, and Community Outreach Plan.

7) Lease and Project Economics

Lease Structure and Lease Terms (see Proposer’s Response Sheet - Appendix G)

Provide a breakdown of gross lease costs (including real estate taxes and operating expenses), tenant improvement costs (if any) as indicated on the Proposer's Response Sheet. All building construction and tenant improvement costs (subject to Lessee amortization) are the responsibility of the Proposer and should be considered in the Proposer's response. If applicable, additional items (such as furniture, security, and cabling costs) are also required.

III. SUBMISSION

In responding to this RFP, Proposers must submit the following:
One (1) electronic PDF copy of the proposal including the Proposer's Response Sheet via email to doarealestateinfo@wisconsin.gov

Proposals may be disqualified if the electronic copies are not submitted by the Due Date.

PROPOSALS ARE DUE BY 2:00 PM CT ON THURSDAY, July 23, 2026 (Due Date).

Sealed copies of the proposals may be hand delivered to the drop box in front of the State of Wisconsin Administration Building located 101 East Wilson Street, Madison, WI, or delivered by U.S. Mail to the address below and marked as follows:

RFP #455-016 State of Wisconsin, Department of Administration
Division of Facilities & Transportation Services
Lease Administration
101 E. Wilson Street, 7th Floor (53703)
P.O. Box 7866
Madison, WI 53707-7866

Proposers must allow sufficient time for delivery of their proposals by the date and time specified. Proposals received after that date and time will not be accepted. Upon receipt, they will be marked late, remain unopened, and either kept in the RFP hard copy records or returned to the sender (if the sender requests).

A. Evaluation Criteria

Proposals will be evaluated on the requirements contained in this RFP. The following are the primary evaluation criteria:

- Lease Terms, Conditions and Project Economics
- Team Experience, Certification and Past Performance
- Concept and Design
- Location Attributes and Site Information
- Facility Details and Layout
- Schedule –Implementation Strategy and Targeted Occupancy

B. Proposal Content

Proposals must meet at a minimum, the standards and requirements listed herein, including the language of the State of Wisconsin's standard lease document (to be modified by the specific terms and conditions pertinent to this RFP – see Gross Lease Template Link in Appendix H). It is mandatory that all proposers utilize the attached Proposer's Response Sheet (Appendix G); and include the specific information, plans/drawings, specifications, and schedules required for their response, as listed below:

Note: In the event any item listed below is not addressed in the proposal, the proposal will be evaluated as failing to meet the standards with respect to such items.

- Fully completed Proposer's Response Sheet. Supply documentation if available, supporting each of the cost elements, as noted, other than the base building rate.
- Information for each firm on the Proposer's Team, including the Company name, contact person, business address, phone number, email address and website (if applicable) as well as relevant experience with this type of project (lab).
- Interior photos of the proposed space and common areas, along with exterior photos of the building and parking lot/ramp. Add renderings of these spaces if to be a 'design build' space.
- Site plan showing the location, number and type of available parking spots, ingress/egress, loading dock(s), lighting, sidewalks, and trash locations
- 1/8" scale floor plan with a preliminary proposed layout. This plan should include dimensions and furniture.
- Marked map with the proposed building location.
- Provide a breakdown of tenant improvement costs and operating expenses as indicated on the Proposer's Response Sheet. All building construction and tenant improvement costs (subject to Lessee amortization) are the responsibility of the Proposer and should be considered in the Proposer's response. Include all additional items (furniture, security, and cabling costs).
- Construction schedule and timeline showing the completion of tenant improvements (TI's) and the tenant occupancy date.
- List of the areas, systems, or critical characteristics in the tenant program requirements evaluation standards where the proposal fails to meet the minimum requirements.
- Include the strategy and method to implement the Project include schedule and occupancy date.

IV. OTHER CONSIDERATIONS AND RESERVATION OF RIGHTS

A. Procuring and Contracting Agency

The State of Wisconsin's Department of Administration (DOA), Division of Facilities and Transportation Services (DFTS) is the authorized agent of the Governor in the procurement of buildings and real estate for state government occupants. The Department of Administration will be the Lessee of record and will authorize the final selection. All negotiations relative to this RFP and potential lease will only be conducted with the DOA's designated contact.

B. Reservation of Rights

The State reserves the right, in its sole and absolute discretion, and as it may deem necessary, appropriate, or beneficial to the State with respect to the RFP, to:

- Cancel, withdraw, or modify the RFP.
- Modifications or issue clarifications to the RFP - In the event this RFP is modified, modifications will be posted here: https://doa.wi.gov/Pages/DoingBusiness/Current-Real-Estate-RFPs-and-RFIs.aspx, and all Proposers will be provided a chance to revise their Proposals.
- Request submission of additional information from some or all Proposers.
- Waive any irregularity or defect in any RFP proposal.
- Reject any proposal(s) it deems incomplete or unresponsive to the RFP requirements.
- Reject all proposals that are submitted.
- Reissue the original RFP, issue a modified RFP, or issue a new RFP, whether any Proposals have been received in response to the initial RFP.

C. State Building Commission Approval

Any lease resulting from this RFP must be submitted to the State of Wisconsin Building Commission for review and approval prior to execution by the State. Proposers responding to this RFP should be aware of and take into consideration the following State of Wisconsin Building Commission policies:

- State of Wisconsin Building Commission policies require compatibility with local, jurisdictional governments in their long-range planning, economic development and zoning efforts. Failure to consider and address local zoning and municipal planning efforts may disqualify your proposal.
- The State of Wisconsin Building Commission, in the effort to support local government planning, zoning and economic development, will consider recommendations from local officials as to the placement and use of State offices. Proposers should be aware that local official and community input may be sought by the Building Commission and can be a factor in the approval process.

- Local and/or county officials' support may impact the approval of any project, and their support does not guarantee approval of the State of Wisconsin Building Commission.

D. Joint Committee on Finance (JCF) Passive Review

Pursuant to Wis. Stat. Section 16.84(5)(a), execution of leases having an annual cost in excess of $500,000 are subject to and contingent upon a 14-day passive review by the JCF.

E. Miscellaneous

Proposal Preparation, Pre-development and Development Costs.

The State is not liable for any costs incurred by the Proposer in replying to this RFP.

In addition, Proposers should be aware of the following:

- The State of Wisconsin, DOA, and/or DOJ will not be liable for any costs associated with the preparation of any proposal or negotiation of a contract incurred by Proposers.
- All proposals, in their entirety, will become the property of the DOA upon submission.
- Proposers should draw independent conclusions concerning conditions that may affect the methods or cost of development.
- Proposers shall be solely responsible for all pre-development costs (including, without limitation, engineering, architectural, demolition of existing improvements and due diligence studies such as traffic, geotechnical, storm water management, other site preparations, etc.) and development costs associated with the project, if applicable.
- Proposers shall be solely responsible for all costs related to obtaining necessary permits, approvals, clearances, and licenses at the appropriate time.

1) Minority Business Enterprise and Disabled Veteran Owned Business (MBE/DVNB) Participation

Minority Business Enterprises (MBE) and Disabled Veteran Owned Businesses (DVB) are encouraged to respond to this RFP. Any firm that wishes to be certified by the State as a MBE or DVB may contact the DOA Supplier Diversity Program at DOABDMBD@wisconsin.gov or visit their website at:

http://www.doa.wi.gov/Divisions/Enterprise-Operations/Supplier-Diversity-Program

2) Selection non-binding

The State's selection of a Proposer indicates only its intent to negotiate with the selected Proposer. The selection does not constitute a commitment by the State to execute a final agreement or contract with that Proposer. Proposers therefore agree and acknowledge that they are barred from claiming to have detrimentally relied on any action by the State, or its contractor, representative, or employees' actions for any costs or liabilities incurred as a result of responding to this RFP.

3) Communications with Media, Government Agencies and Community

Proposers shall not initiate, pursue or engage in any discussions or communications with the media, government agencies, and/or the community without first coordinating with and receiving the approval of the State.

4) Wisconsin Open Records Law

All information in a Proposer's proposal is subject to the provisions of the Wisconsin Open Records Law (Wisconsin Stat. 19.31 et seq.). Any information or data in the proposal that the Proposer claims as proprietary and confidential and should not be disclosed by the State to third parties shall be clearly identified in their proposal (each page shall be marked as "Proprietary and Confidential") and specified on the Designation of Confidential and Proprietary Information Form as provided in Appendix I of this RFP. Please note that all prices within proposals are always open record 'after' the lease agreement is awarded and fully executed and will not be confidential after such time.

5) State Law

Any agreement between the State and the successful Proposer arising from this RFP will be governed, construed, and interpreted in accordance with the laws of the State of Wisconsin. Proposers are advised that under such laws, the State will not indemnify the successful Proposer against claims, demands, suits, actions, proceedings, liabilities, damages, losses, costs, or expenses of any kind by reason of injury or death to any person or for property damage arising out of or relating to the work to be performed.

6) Wisconsin Environmental Policy Act (WEPA)

An Environmental Impact Assessment (EIA) will be required if there is proposed new construction of the Wausau Crime Laboratory. The EIA will be prepared for a selected site in accordance with the Wisconsin Environmental Policy Act (WEPA), Wisconsin Statutes 1.11 and Wisconsin Administrative Code Chapter Adm 60 to determine whether an Environmental Impact Statement (EIS) is required for the Project.

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V. APPENDICIES

Appendix A – Local Attributes and Site Information

For security purposes, DOJ may choose not to externally identify crime laboratory buildings or publish physical addresses. The Wausau Crime Laboratory requires a location that minimizes foot traffic and general public access and facilitates easy vehicle access to major arterial thoroughfares. DOJ prefers an industrial, medical, research or business park location with ready access to interstate and other major highways. Residential, retail and high traffic/high visibility locations shall be avoided. DOJ will consider locations outside of the preferred area only if they meet the criteria above.

1) Site Information

a) The site shall have access to major roads, located near major vehicle transportation arteries, and easily located with minimal turns.
b) The Proposer shall provide information on municipal water, sewer, police, and fire service.
c) The Proposer shall provide information on cellular telephone service, internet, electric, and natural gas utility service.
d) The zoning must be compatible with this use.
e) The site should not be inhibited by any flood plain or conservancy restrictions, existing buildings that would require razing, or to be a brownfield site.

Appendix B – Technical Specifications and Guidelines

The general intent of the following technical and design guidelines is to reinforce, expand upon, and quantify design standards and expectations. It is not intended to limit design innovation, but rather to ensure that facilities and related physical assets meet their intended functions and are designed, built, and maintainable in a high-quality, cost-effective manner that meets the business needs of the Department of Justice. The following is a list by system, highlighting specialized and/or unique features, fixtures or construction required, and is not all-inclusive.

1) General Requirements

Site Infrastructure

The proposer shall show how the site interacts with the existing roads and major highways and should include outdoor seating areas and bicycle parking in the design.

Setback and Landscape Features

Restrict landscaping from obstructing views of the reception/security desk and CCTV cameras or interfering with lighting or IDS. Barriers (bollards, landscaping, etc.) shall be strategically positioned around the facility to increase the standoff distance of unauthorized vehicles. Provide

vehicle barriers to protect pedestrian and vehicle access points, and critical areas/utilities from penetration by a vehicle.

Building Access

DOJ will require a minimum of 6 separate secured entrances. The Proposer shall provide a separate entrance for the following:

- Main lobby entrance for visitors and the public
- Lobby entrance for DOJ staff
- Law enforcement to submit and retrieve evidence
- Deliveries located by the loading dock
- Vehicle examination bay
- Staff service door adjacent to the crime scene response garage.

All entrances shall have an enclosed air lock vestibule, shall be well lit, and include slip-resistant, highly durable flooring. Please see the individual tenant program requirements for additional details of tenant operations as they relate to public access as provided in Appendix C of this RFP.

External Lighting

Proposer shall effectively light the exterior to provide safety for employees and minimize any "dark" spots near or adjacent to the facility and parking areas. Install exterior lighting at entrances, exits, parking lots, garages and walkways, parking areas to entrances and around building perimeter areas.

Exterior Wayfinding & Signage

Provide a single, internally illuminated, monument-type building address identification sign by all public main entrance drives, in addition to site directional signage. Proper signage is required to clearly identify the use, proper traffic flow, and wayfinding of the parking lots. Signage shall include ADA signs, permit only signs, visitor only signs, and all code-required signage.

Drop Off

Provide adequate drop-off area by the main entrance that is in scale to the overall building for persons with disabilities and general building use.

Materials Delivery/Loading Dock

The loading dock will be heated, air conditioned and will not have humidity control. It will need space for loading and unloading weapons for destruction, gas cylinders, hazardous waste, records, computers, supplies, and general office space needs. The loading dock shall be a dropped loading dock or dock with levelers, with a rain-protecting canopy. Appropriate storage rooms for flammables, bulk materials, compressed gases and hazardous waste shall be planned adjacent to the dock area. A separate walk in service door entrance shall be provided in addition to dock openings as noted above. Security cameras, intercom and door card access locking system are to be provided in the loading dock area. Review tenant Crime Scene Response vehicle garage and

vehicle processing as identified in the tenant specifications Appendix C. These will be separate and distinct areas from the loading dock.

2) Facility Overview

Building Aesthetic

The proposed building should be class A with a professional image. The building shall promote a positive and healthy work environment for all staff. A section or lower floor of the building shall house the public and common use functions such as the Training Room, Demonstration Lab and public Restrooms. See Appendix C of this RFP for more information. Exterior windows to laboratory or controlled areas shall be one-way glass to allow occupants to see out, while providing security and privacy to interior occupants. The need for additional one-way glass for other exterior windows will depend upon the location of the windows, the configuration of workstations, the siting of the building and other design and location considerations.

Elevators

The building, if multi-floor, shall contain a minimum of one passenger elevator and one service elevator. The passenger elevator and service elevator shall have security card access and shall service all floors. The service elevator shall be located near the dock area and/or tenant garage spaces. It shall be capable of transporting large equipment and furnishings. The minimum size is 14'x6' and it shall be rated Class A loading. If within a co-located building, a designated elevator for Crime Lab staff only is required.

Interior Wayfinding and Signage

Upon entering the main building lobby, the public shall be directed both visually and with signage to the reception and waiting areas. The Proposer shall ensure final design includes a comprehensive signage package including site, life safety, accessible, entrance, and way-finding signage for both the building and parking areas. All base building, tenant/visitor wayfinding, and room number/workstation number signage to be included in the Project and follow DOA Interior Sign Standards (To be provided during the design development stage to the selected Proposer). Room or area numbering shall be approved by the DOA DFTS interior design team. Provide one electronic directory centrally located in the main visitor entrance lobby. Type and location of exterior signage will be dependent upon location (e.g., monument, building illuminated sign, etc.)

3) Interior Space Standards and Guidelines

Private Office

Division Administrator offices shall be located on the window wall(s) but avoid corner locations where they might occupy more than one window. Private offices for deputy Division Administrators and Bureau Director may not be located on the exterior window wall. These offices must be located toward the center of the space. Sidelights are to be included at all

offices and conference rooms to increase light infiltration. These glazed units may not be covered with blinds or other window treatments.

Open Office Systems Guidelines

Workstations shall be located adjacent to window walls. System furniture panels shall be 66" tall or less. Approximately 20% to 30% of the panels shall be 54" tall or less. This allows for increased air circulation and light penetration. Orient 66" tall panel's perpendicular to the window wall. Locate overhead storage units on these panels so they too are perpendicular to the windows. Lower panels shall be located parallel to the windows. To reduce soiling wear, overhead flipper doors may not be finished with fabric. Heating/cooling/ventilating units must not be obstructed; use of open panel systems is acceptable. A minimum of 36" is required for the entrance width into all workstations; long, dead-end corridors within workstation areas shall be avoided. Open office system design shall incorporate collaboration spaces consisting of high top table and chairs and/or seating areas adjacent to cubicles.

Regional Training Room

Training room shall be 1,000 sq. ft., with seating for 40 people and shall include an overhead projector, Assistive Listening and Audio systems all provided by the tenant. AV equipment will be provided by tenant, however blocking, device rough-in and cabling support for these items to be provided for in the Project and design.

Conference Room(s)

AV equipment to include large-screen monitor, camera, microphone and speaker system, mounts, and network connectivity will be provided by tenant, however blocking, device rough-in and cabling support for these items to be provided for in the Project and design.

Locker Room

The locker Room (Crime Scene Response and general staff use) shall have a card reader entrance as specified in Appendix C programming. Locker Room shall be located adjacent to Crime Scene Response, the Fitness Room, and unisex bathrooms with showers. Each unisex bathroom with shower listed must contain a shower stall (one accessible shower stall), water closets, lavatory, and a changing area. There shall be mirrors over each sink and one full length mirror. Touch-free soap and towel dispensers, benches, towel hooks and shower curtain rod, and an emergency alert feature shall be included.

Lactation Room

The building shall have one Lactation Room with card reader door access, two private floor-ceiling curtained areas, each with a chair, counter, and electrical outlet. The room shall also contain an upper and lower cabinet area with accessible hot/cold water stainless sink, touch free soap, dispensers and faucets, an under-counter refrigerator, and a minimum of 6 small lockers (minimum 12"x12"x12") for equipment. Flooring in the Lactation Room shall be carpet and walls

to have Type I low or no VOC vinyl wall covering. Lower or adjustable levels of lighting are required.

Breakroom

Provide one 300 square foot breakroom that includes the following within the room:

- Locked storage closet with shelving for supplies
- One double compartment hot/cold-water stainless-steel sink with built in garbage disposal
- Two full-size refrigerators with ice makers
- Upper and lower plastic laminate cabinets
- Two full-size microwaves
- 4' x 4' tables and chairs
- Built-in trash & recycling with access to bins below, incorporated into lower cabinets Water line and water filters for refrigerators, coffee makers, and sink.
- Blocking, electrical, data and HDMI for tenant-supplied wall-mounted TV monitor
- All appliances shall be Energy Star rated.

Coffee maker will be provided by tenant, refrigerators and microwaves should be provided with the lease.

A 24" space above the counters should remain open to allow space for a full-size coffee maker.

Dedicated outlets are to be provided for the coffee maker and microwave. Provide additional outlets for tenant convenience.

Provide a hands-free paper towel and soap dispenser.

Flooring to be a non-slip recycled vinyl composition tile or Linoleum tile and wall covering to be a washable Type II low voc or no voc vinyl wall covering.

The backsplash wall of each kitchenette area to be ceramic tile.

High Density Storage

Refer to Appendix C of this document for high-density shelving locations. Proposer to design or verify the floor slab will accommodate the appropriate loading and provide the high-density shelving as part of the lease tenant improvements.

Support Areas

Conference Rooms and other ancillary areas shall be located on the interior of the building. The Training Room and its related storage areas shall be located on the first floor.

Tornado Shelter

A tornado shelter should be incorporated into the design of the building.

4) General Construction Criteria

Windows

All windows shall be fixed. All ventilation shall be accomplished through the mechanical systems. Provide interior manual solar shades at all exterior windows with 5% openness, fascia, and side rails. Install room darkening (blackout) blinds in Conference Rooms, Offices, and Training Rooms when located on the building exterior. Natural daylight will be provided to the greatest extent possible to occupied areas of the building; however, skylights are not an acceptable option.

Exit Stairs

Centrally located exit stairs are preferred to encourage employees to take stairs in lieu of the elevator. The interior of the stairs' enclosure shall be finished to match other building finishes. Provide safety features such as battery backup lighting, areas of refuge, and locations for emergency chair stairs (such as Stryker). If within a co-located building, a designated exit staircase for Crime Lab staff only is required.

Floor to Floor Dimensions

The floor-to-floor dimension shall allow a minimum 9'- 0" clear ceiling and adequate space for mechanical equipment, ductwork, and piping. See summarized room requirements in Appendix C for rooms that will require additional ceiling height clearances.

Doors, Door Frames and Hardware Assemblies

Except specialty doors, or those required by building code, all interior doors shall be wood solid core construction with hard wood edges, 3'-0 x 7'-0 x 1-¾", unless otherwise noted, and have appropriate ADA lever-type hardware and locks or card reader access as determined by its use and security requirements. All lock sets and latch sets shall meet BHMA A156 Grade 1 performance. Door hardware, non-removable cylinders, and keying shall be Schlage, patented Primus. All keying requirements shall be coordinated with the tenant. Enclosed offices and conference rooms locksets shall be thumb turn locked from inside for safety with fail safe open feature. All interior door frames shall be painted 14-gauge hollow metal frames. Doorframes and sidelights shall be constructed in an acoustically sound manner. Each door shall include a doorstop, type as appropriate. Heavy-duty stainless-steel double coat hooks shall be included on the backs of all office doors.

Standard Laboratory Door: Unless otherwise noted on the Room Data Sheets, standard doors into laboratory spaces shall be 7'0" tall and 48" wide with a 1'-6" Glass Sidelight.

If the door is between a lab and a hallway it opens into the lab. The door should have a stop at the floor to keep the door open when needed. To allow for the movement of instrumentation and large evidence items, the facility design shall include at least one continuous pathway of doors for the following areas:

- From the loading dock to the laboratory spaces, and

- From evidence entry vestibule/lobby to Centralized Evidence Storage.

All doors along each of these pathways shall provide a minimum clear opening of 7'-0" tall and 48" wide.

Evidence Room Doors: Evidence room doors shall be 1 ¾ thick, 7’ tall and 48” wide in 14-gauge metal with 14-gauge welded metal masonry frames.

Exterior Doors and Windows

Limit the number of building entry points to the fewest number practical while meeting code requirements. Provide electronic access control for employee entry doors (including after-hours access) in conjunction with CCTV coverage. Secure emergency exit doors using an automatic door closer and exit hardware that are compliant with applicable life safety codes and standards. Secure perimeter doors with non-removable hinges and high-security mechanical or electronic locks. Use delayed egress hardware at emergency exits from critical or sensitive areas, if fire code allows. Design exterior windows in publicly accessible locations to resist forced entry. Minimum recommended standard is one (1) hour forced entry rating with Performance Level 3b glazing.

Exterior Door Hardware

The following items will be required at a minimum to provide fully functional door assemblies:

- Continuous non-removable hinges
- Automatic door operators at accessible entrances and exits
- Electronically controlled panic devices
- Fully mortised entrance / exit locksets with electronic strikes
- Door position switches
- Request for exits
- Card readers
- Absence of pull or exterior trim at exit only doors
- Schlage, Primus ® locking systems

Interior Door Hardware

The following items will be required: at a minimum to provide fully functional door assemblies:

- Fully mortised locksets and latch sets
- Electronic strikes where card readers are used
- Door position switches and request to exit where card readers are used
- Schlage, Primus ® locking systems

Clearstory Glass and Sidelights

Unless noted otherwise, all enclosed offices and conference spaces, shall have 24” wide sidelights, if the location does not allow room for that, an 18” wide sidelight is acceptable. Glass in doors, sidelights, and borrowed light shall start at least 9” AFF. Blinds are not permitted on sidelights or glass fronts in offices and conference rooms. The walls of laboratory areas shall

contain windows on the upper half to the extent possible to maximize visibility of laboratory areas from adjacent hallways and offices.

External Building Systems and Roof Access

Install electronic access control and IDS with CCTV coverage to control and monitor access to critical areas to be determined during design. Provide IDS on perimeter entry and exit doors. Secure utility, mechanical, electrical and telecom rooms, and access to interior space from the roof with electronic access control locks and IDS with CCTV coverage. Provide uninterruptible emergency power to essential electronic security systems for a minimum of 4 hours. Locate critical systems and areas at least 25 ft. away from loading docks, entrances, mailrooms, personnel and package screening locations and uncontrolled parking. Protect non-window openings such as mechanical vents and exposed plenums to resist forcible entry.

5) Furnishings

Furniture to be commercial class A type (metal infrastructure and component parts) examples of acceptable manufacturers are Herman Miller, Knoll, KI, BSI, Haworth, and Kimball. The Proposer to supply all interior and exterior seating, except for individual task chairs.

Modular Workstations and Office Furniture

The Proposer shall provide all new furniture for the Department of Justice. See Appendix C programming for additional information. The Proposer shall work with DOA/DOJ on specification and layout. All furniture (excluding wood) shall be GREENGUARD certified and shall be comprised of a minimum of 20% recycled content. This may be a combination of post-consumer and pre-consumer recycled content. All furnishings with wood components shall have an FSC label (certified by the Forest Stewardship Council).

Systems Modular Workstations

Workstations may be refurbished/recycled or new. Products shall generally afford the owner the option to modify workstations in the field to accommodate reconfigurations and ADA clearance requirements. Panel fabrics shall have 100% recycled content. Each workstation shall be 7’ x 7’ with worksurfaces on 2 sides, unless otherwise specified. They shall include, at a minimum, 30” deep plastic laminate work surfaces, (1) one locking overhead storage bin, (1) one shelf, (2) two locking pedestal files (1) one file/file and (1) one box/box/file), tack boards or tackable panel surfaces, under cabinet task lighting, a wardrobe for coat storage, (4) four power outlets and (2) two data outlets at worksurface level or grommets. Files and wardrobe may be a combined unit. Each workstation shall have (1) one height adjustable worksurface. Each workstation shall be keyed alike for all locking storage components. Proposer shall provide (2) two keys for each lock, (1) one master key and shall coordinate final key schedule with DOJ.

Private Offices

Private offices furnishings shall be wood. Each office shall include, at a minimum, 30” deep work surfaces with a corner and D or P-top desk, one locking overhead storage bin, (1) one shelf, (2)

two locking pedestal files ((1) one file/file and (1) one box/box/file), tack boards or tackable surfaces, under cabinet task lighting, a wardrobe for coat storage and (2) two guest chairs. File cabinets may be metal; wardrobes may be a combined units and each office shall be keyed alike. Each office shall have (1) height adjustable worksurface.

Conference Rooms

Chairs shall be upholstered, nesting and mobile for easy reconfiguration of the room. A standard conference room configuration shall have plastic laminate tables with metal bases, flip fold top, and locking casters to be easily moveable. See specific requirements for training rooms within tenant specific programming.

Breakroom

Tables shall be plastic laminate with metal bases, and easily moveable. Chairs to be stackable and the seating made of either wood, plastic, or metal with a metal base and easy to clean.

Reception Area

Main Building Reception Desk shall be systems furniture, but with upgraded finishes including wood and glass. Provide upholstered seating for 8 and wood side tables.

Outdoor Furniture

Provide outdoor tables and seating for 15 people. Tables and chairs to be powder coated metal.

6) Interior Walls

Interior walls at all Conference Rooms, Training Rooms, Locker Rooms, Restrooms, card access secured rooms and Laboratory areas to have sound absorbing insulation and extend to the structural deck. The design of interior wall placement and surfaces (sound absorbing materials) shall enhance acoustics and prevent echoing. Refer to Appendix C for additional wall construction requirements. The Offices, Unsecured Storage, Janitor Closet, Breakroom and Wellness Room shall have Gypsum Wall Board (GWB) partitions to a minimum of 6” above the finished ceiling. Partitions shall provide effective sound attenuation in walls and above the ceiling. Evidence Storage areas and firearm vaults shall be constructed with fortified walls and ceilings.

7) Casework

All casework in Breakrooms, Mail and Copy/Workroom shall be AWI Custom Grade, full overlay. Cabinetry units in Break Room shall consist of upper and lower units with at least two lockable cabinets. Cabinetry units in mail/copy/workrooms to have a standing height plastic laminate counter with plastic laminate cabinets below. Casework is to have high pressure laminate on all exposed sides and surfaces. One (1) adjustable shelf shall be provided per 18” of cabinet space. A portion of all wall cabinets shall comply with ANSI reach ranges. Knee openings are to be provided at sink base cabinets per ADA requirements.

Standard Laboratory Cabinetry

All cabinetry in the laboratory shall be laboratory grade wood cabinetry with ¾" thick case panels joined by dowels and glue, ¾" thick bottoms and end panels, ¾" shelves, adjustable in 1" increments, "five knuckle" door and drawer pulls, and heavy-duty drawer suspensions (150 lb. minimum). Unless specified, knee holes shall not have a "skirt" under the front edge of the top work surface. Wall cabinets shall be 12"D x 30"H and have glass front doors, sliding or hinged. They shall be mounted 18" above a 36"H bench and 24" above a 30"H bench.

Glassware Storage Cabinetry

The standard glassware storage cabinet shall be 4'W x 7'H x 2'D and constructed the same as the standard cabinetry. The glassware storage cabinet shall have sliding glass doors and five adjustable shelves.

Standard Laboratory Bench

Unless other dimensions are given, the standard laboratory bench shall be 30" D and topped by a 1" thick epoxy resin with rounded corners and edges. When the bench is against a wall a 4"H epoxy resin backsplash shall be provided each wall. Unless otherwise specified the bench shall be supported by base cabinets (see Standard Laboratory Cabinetry) with a combination of kneeholes, drawers, and cupboards. These will be specified during the design phase. In each case standard laboratory benches shall be 30"H or 36" H. Where an epoxy resin benchtop is not supported by base cabinets, 2.25" square, wood legs shall be specified to match the wood cabinetry. Include black rubber leg boots for added protection against scuffing.

Fume Hoods

Provide fume hoods with sizes, features and utility services indicated on the equipment list and room data sheets. Fume hoods that are provided by the lessor shall be as specified in DFD master specification 11 53 13 Laboratory Fume Hoods.

Loading Dock Area

Provide a 6' long minimum, standing height, plastic laminate counter for equipment check-in.

Display Cabinetry

At a minimum, two millwork display cabinets with locking glass fronts (4' x 4' x 6") built-in should be provided. One located in the hallway outside of the training room/demonstration lab and one located in the secure hallway to laboratory spaces

8) Ceilings

To ensure proper day lighting design techniques, ceiling heights must be studied in order to bounce light as deep into the space as possible. Ceiling tile shall have a minimum Ceiling Attenuation Class (CAC) of 35 and Light Reflectance (LR) of 0.89. Increased acoustic privacy shall be provided using a sound masking system. Ceiling tile shall be tegular, and color shall be white. Minimum recycled content shall be 74%. Restrooms, Locker Rooms, Janitor's Closets and other

wet areas ceiling to be provided with appropriate moisture resistant surface. Ceiling in main Lobby, elevator lobby (if applicable), and Regional Training Room shall be upgraded with soffits, bulkheads, and height level changes to add architectural interest and create a professional image. In addition to standard lighting, LED accent lighting shall also be provided in these spaces and shall be approved by the tenant. Standard finished office ceiling height in office areas shall be 9'-0". Laboratory areas shall have ceiling heights of 10'-0"- 12'-0". Refer to Appendix C for areas/room with that will also need additional such as in the Crime Scene Processing Garage and Imaging Studio.

9) Interior Finishes

Flooring

Provide commercial-grade, recessed walk off mats, flush with surrounding floor and floor drain at public and staff entrances. Mats shall be carpet-aluminum combination, roll-up with hinge to facilitate cleaning. The design solution shall control moisture from foot traffic in inclement weather yet still create an aesthetically pleasing and easily maintainable space.

Main lobby shall have hard surface natural flooring such as stone. Flooring shall be a highly durable material, slip and wear resistant, stain resistant, suitable for high traffic, and appropriate load-carrying capacity. Hard surface flooring shall include a penetrating sealer, as recommended by the manufacturer, in place of the topical coating of wax.

Restroom flooring shall be non-slip porcelain tile with matching tile base. All tile grout shall be epoxy.

Stairwell flooring, if applicable, shall be of non-slip material, resistant to stain and easy to clean.

Carpet shall be in open office areas, private offices, Lactation rooms, waiting areas (excluding main entrance lobby), meeting rooms and copy areas. Carpets shall be commercial grade 24 oz. solution dyed nylon carpet tile.

Kitchenettes and break room shall have linoleum flooring, vinyl composition tile or LVP with recycled content, and both shall be low VOC or no VOC including adhesives.

Voice and Data Communication rooms to have static dissipative vinyl composition tile with recycled content and low VOC or no VOC including adhesives.

Laboratory areas to have smooth, chemical resistant, fatigue reducing material sheet flooring, which is seamless between rooms, not slippery when wet and can stand up to the constant use of wheeled chairs and carts.

Refer to Appendix C for additional flooring detail. Surface and expansion joints to be included as appropriate.

Main corridors, main lobby, elevator lobbies, general public areas, shall be covered with Type II low VOC or no VOC vinyl wall covering. Provide 5% attic stock for all materials.

Wallcovering

Wall treatment around the drinking fountains shall be non-water absorbing. Provide corner guards on exposed corners and columns and where carts, dock equipment etc., will be present.

Paint

Texture of painted surfaces in general office areas to be smooth rolled satin finish, restroom painted walls shall be semi-gloss. All laboratory areas to be stain resistant semi-gloss paint, except for the Imaging studio which shall be dark grey or black in a matte finish. The Project is to provide paint attic stock equivalent to 4% coverage area for each color.

Ceramic Tile

Walls in toilet and shower stalls shall be tiled. Ceramic tile shall be full height on wet walls and 60" AFF on all other walls. Shower shall be tiled to their full height. Kitchenette and break room back splash shall be ceramic tile. See additional ceramic tile requirements listed in Appendix C.

General

Provide all necessary accessories/equipment including but not necessarily limited to:

- Corner Guards: Provide 48" high commercial grade corner guards. 1 ½" x 1 ½", (Institutional Products Corp. (IPC) brand or equal) on all outside corners and columns.
- Toilet partitions to be ceiling mounted.
- Include water saving fixtures and automatic flush for toilets.
- Provide large, plastic waste and recycling bins at all kitchenettes, training, conference, and public waiting area. Provide for each office, cubicle and small conference room a 9" x 13" x 16" high plastic recycle bin. Provide waste containers intermittently in office areas and large waste and recycling containers appropriate for outdoor use in parking lot, entrance, and outdoor dining area.
- Lessor to provide Fitness Equipment (2) treadmills, (1) stationary bicycles, (1) stair climber, and (1) weight set. Maintenance contracts will be by Lessee.
- Two 30' cone tapered aluminum flag poles shall be provided at the exterior main entry.

The following equipment to be provided by tenant; however, blocking, and electrical, voice, data and cabling for these items to be incorporated in the design and installed by Lessor:

- Training, conference room equipment (projector, smart boards, flat screen TVs, ceiling mounted or recessed projectors).
- AED in fully recessed cabinets shall be provided and alarmed to Capitol Police.
- Recessed cabinets for naloxone.
- Fire Extinguishers in partially recessed cabinets.

Building Systems Criteria

The Crime Lab operational schedule for employees is typically Monday-Friday (6:00am to 6:00pm), weekends and Holidays (7:00am to 3:30pm). Weekend occupancy may be laboratory spaces only, but Crime Scene Response personnel may work at any time 24/7, 365 days per year.

a) Heating Ventilation & Air Conditioning

Outdoor Design Conditions

System			Dry Bulb Temperature (°F)	Wet Bulb Temperature (°F)
Summer	System Design [1]		87	75
	Air Cooled Heat Rejection Ground Mounted Roof Mounted		 100 105	
Winter	System Design[2]		-20	

(1) Based on Cooling DB/MCWB for Marathon, County as published in Wisconsin Building Code.
(2) Based on Heating DB for Marathon, County as published in Wisconsin Building Code.

Indoor Design Conditions, Ventilation Rates and Pressure Relationships (verify specific requirements on room data sheets and during design)

HVAC Space Criteria							
Room	Temperature (°F) [2]		Humidity (%RH) [2]		Minimum Air Change Rate (aCH) [4]		Pressure Relationship
	Min	Max	Min	Max	Occ	Unoc	
Office, Conference and Administrative Support Areas	68	76	20	50	code		Neutral or Positive
Laboratory	68	74	30	50	6	3	Negative
Lab Support Space	68	74	30	50	6	3	Neutral
Evidence Storage	68	68	30	40	See Room Data Sheets		Negative
Vehicle Processing	65	78	20	50	Code		Negative
Toilet Rooms/Janitor Closets	68/76		NR		Code		Negative
Corridor	68/76		NR		code		Positive to Laboratory
Breakroom	68/76		NR		code		Negative
Telecommunication Rooms / Computer Server Room	68-72		NR		NR		Neutral

(2)Minimum – Winter Heating(2)Maximum – Summer Cooling
(4)Air change rates may be higher to accommodate fume hoods and other exhausted devices

NR- No Requirement

Systems must meet the setpoint temperature with a ± 1 °F accuracy unless otherwise noted. Systems will be designed to meet the indicated relative humidity with a ± 5% accuracy unless otherwise noted.
Exact design space temperature and humidity to be verified with DOJ in the design phase.

Temperatures listed above are for occupied time periods. Laboratory, lab support and evidence storage shall be maintained at occupied temperatures at all times. Temperatures for office, conference, administrative support, toilet rooms, corridors, and Break Rooms can be varied up to +/- 8 degrees during unoccupied time periods.

Acoustic Criteria

HVAC systems shall achieve the following noise levels.

Space Type	NC Levels (1)
Laboratory with fume hood	NC45
Laboratory without fume hood	NC40
Support Spaces	NC40
Open Office	NC35
Private Office	NC30
Conference Rooms	NC30

(1) Requirements and criteria will be further evaluated in final design.

Humidification System

System will consist of a packaged, local gas-to-steam or electric to steam generating unit provided for each air handling unit containing a humidifier.

Chilled Water System

Chiller plant shall consist of a minimum of 2 independent air-cooled water chillers, sized so that 70% of the peak cooling load can be met with one unit down. Provide N+1 redundant pumps, cooling systems must have sufficient capacity steps (and/or variable capacity), turn down and speed of response to meet ahu discharge temperature set point plus/minus 1.5 degrees under all airflow rates, all loads and all outside air temperatures.

Heating Hot Water System

Heating hot water system will serve AHU heating coils and terminal heating devices such as reheat coils, unit heaters, finned tube and cabinet unit heaters. Provide N+1 redundant boilers/heat pumps/heating water sources or whatever device is providing heat, along with N +1 redundant pumps, etc. such that 100% of the peak heating load can be met with one heating device and/or one pump down.

Heat Recovery System

Provide an exhaust air heat recovery system that meets applicable mechanical and energy codes.

Air Handling Systems

Two or more central station air handling units manifolded to serve the common air system shall serve all areas of the building, sized such that 70% of the peak airflow can be met with one unit down. System will be a single duct; variable air volume reheat system. AHUS will have cooling coils, humidifiers, hot water heating coils with circulating pumps and a code compliant energy recovery system. Air to air (wheel type/plate type) energy recovery may not be used for exhaust systems connected to fume hoods, MERV 7 prefilters and MERV 14 final filters. Air supplied to

all laboratory spaces will be exhausted to outdoors. No air from the laboratory or laboratory support spaces will be returned to the air handling units. Air handling units will operate 24 hours per day, 365 days per year to maintain temperature and minimal ventilation in the lab and lab support spaces.

Laboratory Exhaust Systems

Laboratory and associated spaces will be served by exhaust air system or systems with 2 or more exhaust fans per system sized such that 100 % of the peak airflow for each system can be met with one fan down. System(s) will consist of code compliant heat recovery unit or units located in penthouse or on the roof, and exhaust fans with a common plenum located on the roof. Laboratory exhaust system(s) will be variable air volume. For systems that exhaust fume hoods, provide discharge stacks and/or high plume dilution fans with a discharge at least 8 feet higher than the roof and any screenwalls. System will operate 24 hours per day, 365 days per year.

Air Terminal Devices

Spaces shall be zoned having similar interior occupancy/loads, similar sizes and similar exterior exposures with no more than three offices/rooms on one zone. Labs, lab support and lab-related spaces, executive management offices and conference rooms shall have dedicated thermostats, VAV and perimeter heat control for each room (i.e. have separate zones). Air terminals shall be venturi style if VAV fume hood system is utilized in space. Utilize space occupancy sensors (typically for lighting as well) to reduce the minimum airflow rates when spaces are not occupied. This applies to all labs, lab support spaces, offices, conference rooms, etc. Does not apply to rooms such as toilets/showers, janitors' closets, IT rooms, storage rooms, etc.

Other building Exhaust System

Provide a separate building exhaust system for bathrooms, kitchenettes, Break Rooms, trash rooms, janitor closets and housekeeping rooms.

Technology Space Cooling

Provide cooling system(s) that operate 24/7 and provide sufficient capacity to cool the room to the specified temperatures with all of the IT equipment in the room.

Evidence Storage Rooms

Evidence Storage Rooms will be provided with self-contained DX fan-coil units to maintain required space temperature and humidity. Minimum outside air shall be provided by laboratory supply air system. See room data sheets for other evidence storage room criteria. Heating and cooling equipment shall not be placed directly above the evidence room.

Firing Range System (Integrated Indoor Firing Range)

Firing range will be provided with a packaged supply and exhaust system that will provide heating, cooling and required filtration for exhaust air from the space. The building laboratory/office supply system will provide required make-up air and the building combined laboratory exhaust system will exhaust the required airflow to the outside from the packaged system. The packaged

unit will be sized to provide a minimum of 75 fpm air velocity moving from the shooting end to the bullet stop end range space. The air will be supplied using laminar supply diffusers or plenum wall. The package HVAC system will be interfaced with the building control system.

HVAC Equipment served by Emergency Power

The following HVAC equipment shall be on emergency power:

All HVAC temperature controls

Sufficient air handlers to maintain the unoccupied ventilation rates in lab spaces. Air terminals serving non lab spaces should be closed to conserve air capacity during emergency power operations.

Sufficient lab exhaust fans to maintain the unoccupied ventilation rates in lab spaces.

Sufficient chiller stages/capacity and associated pumping capacity to provide full cooling to the air handler(s) that will operate on emergency power.

Sufficient hot water boilers and associated pumps to provide 75% of the design heating capacity.

Server room and telecom room cooling.

Elevator machine room cooling if required.

Building Automation System

A complete, direct-digital control (DDC) based Building Automation System (BAS) will be installed to control all mechanical systems **BAS Systems**

DDC controls in addition to complete HVAC and related control	
O2 Depletion Sensors	O2 sensors will be utilized in all spaces where nitrogen or other asphyxiants are used and will be used for warning and ventilation.
Flammable Sensors Power	Flammable vapor sensors will be utilized in all spaces where hydrogen or other flammables are used and will be used for warning and ventilation.
Vehicle Space HVAC	Doors to the outside will be monitored. BAS will shut down the cooling for this space when doors are open. Heating will continue to operate with doors open to facilitate bringing in vehicles in cold weather.
Fume Hood Control	BAS will control fume hoods for two-position (active, inactive) operation whenever possible. All control devices in spaces with two-position fume hoods will be by BAS contractor.
Fume Hood/HVAC shutoff pushbuttons	In room where hazardous substances are used, such as fentanyl, pushbuttons will be installed and wired to the BAS to notify of an incident. These buttons could potentially be used to shut down HVAC for the room (TBD)
Emergency response mode push button	Separate push buttons will be installed (locations TBD) and wired to the BAS to index the system to a prescribed emergency response mode.

b) Plumbing Systems

Waste and Vent Systems

Plumbing fixtures in laboratories and laboratory support spaces will be provided with a drainage system separate from the sanitary drainage system. The laboratory waste system will drain by gravity flow to a dilution basin located in the mechanical room. The effluent from the dilution

basin will discharge into the sanitary building drain. All fixtures will have traps and will be vented through the roof. Vent terminals will be located away from air intakes, exhausts, doors, openable windows and parapet walls at distances required by the plumbing code. In all vehicle areas, waste will be routed through an oil/water separator before discharging to sanitary drain. Floor drains will be provided for emergency showers. Lessor to provide drains for all lessee and lessor provided equipment having drainage/discharge components.

Equipment and Material

Drainage systems containing oil or flammable liquids will be run through appropriate exterior oil/water interceptor before connecting to the sanitary sewer system. The dilution basin will be a polypropylene basin with sealed and gasketed cover. The discharge will have a pH monitor with alarm that will report locally and to building automation system. Floor drains, floor sinks and indirect waste receptors will be provided with trap seal inserts when subject to loss of their trap seals due to evaporation caused by infrequent use. All piping which collects clearwater condensate from air handing equipment will be insulated to prevent condensation on the piping.

Domestic and Non-Potable Water

Domestic hot water to be heated and stored at 140°F and delivered at 120°F with the use of a master electronic tempering valve. Non-potable water system will provide make-up water to irrigation, mechanical (HVAC) systems such as heating hot water, chilled water, and cooling towers. A reduced pressure backflow preventer will protect the domestic water supply. There will be no separate centrally piped lab water system – see equipment for protection requirements. Each water heater will be sized for 70-75% of the design hot water load at an outlet temperature of 140°F. Backflow preventers will be sized for 100% of the design flow.

High Purity Water

A central system will be provided to produce and distribute water meeting the quality requirements of ASTM Type II and Type A from the facilities potable water system.

Water Quality								
Design Standard	**Resistivity**	**Silica**	**Sodium**	**pH**	**Chlorides**	**TOC**	**Bacteria**	**Endotoxin**
ASTM Type II	≥1 MΩ-cm @25°C	≤3µg/L	≤5µg/L	No Limit	≤5µg/L	≤50µg /L	1cfu/ 100ml	<,0.03EU/ ml

Pure water will be continuously circulated in closed loops to users throughout the laboratory. Point of use polishing units will be provided for use points that require a higher level of quality water. The system will be automatically monitored and controlled by a dedicated PLC based control system that will send a discrete alarm signal to the Building Automation System in the event of deviations.

The distribution system will be comprised of 1 loop through which water will be continuously circulated. Each distribution loop will employ a series loop layout. The loops will drop to each use point location and a zero static diaphragm valve will be provided.

High purity water system distribution system shall be one of the following:

- Polypropylene piping will be used for the distribution system. Joints will be made by IR butt fusion. Sanitary clamps or sanitary unions will be used where breakable connections are required. Piping will be continuously supported.

- Low Extractable PVC piping will be used for the distribution system. Joints will be made by solvent socket welding. Sanitary unions will be used where breakable connections are required. Piping will be supported per manufacturer's requirements.

All tee connections shall be installed to minimize the dead leg. The distance from the sealing point on the branch to the inside of the main line wall shall be less than six (6) branch line diameters. Piping will be installed so that it is completely free draining. A minimum slope of 1/8 inch per foot will be maintained. Sink use points shall be as shown on the lab plans. The quality of the water in the distribution system will be monitored by the PLC that will send a discrete alarm signal to the Building Management System in the event of deviation.

Special Gases and Compressed Air Systems

Special gases will be provided to all points of use as required by the tenant (DOJ), including all equipment such as Gas Chromatograph/Mass Spectrometer, Gas Chromatograph, Headspace Gas Chromatograph, Turbo Vap, LCMSMS and QTOF. Special gases shall include but not limited to: Helium, Hydrogen, Zero Grade Air, Nitrogen, and Argon.

Table 1	
Type of Special Gas	**Supply**
Nitrogen, High Purity 99.95%	Nitrogen Generator
Hydrogen, Ultra High Purity 99.999%	Cylinder and/or local generator
Helium, Ultra High Purity 99.999%	Cylinder
Ultra Zero Grade Air	Cylinder
Argon, Ultra High Purity 99.999%	Cylinder
Liquid Nitrogen	Tank

Points of use and types of gases needed are specified in Room Data Sheets. Gases will need to be plumbed from the Centralized Gas Storage Room to the point of use. A Special Gas System will be designed to provide 80 psig at the most remote lab outlet. The system will be sized based upon a load of 0.5 scfm per outlet. Any point loads for specific equipment will be added to the outlet load after any diversity factors are applied. The diversity factors indicated below will be used for determining the load for outlets.

Table 2			
Special Gases System Diversity Factors			
Number of Outlets	Diversity Factor	Minimum Flow (scfm)	Empirical Formula for Flowrate (scfm)
1-5	1.00	0	No. of Outlets*1
6-12	0.80	5	5+(No. of Outlets 5)*5/7
13-33	0.60	10	10+(No. of Outlets 12)*10/21
34-80	0.50	20	20+(No. of Outlets 33)*20/47
81-150	0.40	40	40+(No. of Outlets 80)*20/70
151-315	0.35	60	60+(No. of Outlets 150)*50/165

Nitrogen service will be supplied by a centralized nitrogen generator served with compressed air and a backup cylinder manifold system. Special Gases (H, He, Zero Grade Air) will be supplied by a duplex cylinder manifold system with automatic switchover. The number of cylinders on each system will be based on building use criteria but will not be less than two cylinders per bank. The manifold system must be able to distribute special gases at 80 psig. Argon will be supplied via pony cylinder directly connected to the instrument (ie. QTOF). Liquid Nitrogen will be in a tank and will be transferred via manual carboys to the point of use, if requested.

Special Gases Piping:
Nitrogen: ASTM B-280 Type L, oxygen cleaned, with brazed joints. Laboratory outlets will be needle-valve type outlets.

Special Gases: ASTM B-280 Type L, oxygen cleaned, tube with brazed joints. Laboratory outlets will be [quarter-turn] [needle-valve] type outlets. Type 316, ASTM A269, stainless steel tube with compression fittings and joints.

Compressed Air:
Laboratory grade compressed air will be provided to all laboratory areas at a pressure of 100 psig and a dewpoint of -40°F. Compressed air will be provided as required by the tenant (DOJ).

Compressed air piping system will be sized based on 5 scfm per outlet plus any flow required for individual pieces of equipment. Diversity factors will be applied to laboratory outlets as indicated below.

Table 2			
Compressed Air System Diversity Factors			
Number of Outlets	Diversity Factor	Minimum Flow (scfm)	Empirical Formula for Flowrate (scfm)
1-5	1.00	0	No. of Outlets*1
6-12	0.80	5	5+(No. of Outlets5)*5/7
13-33	0.60	10	10+(No. of Outlets 12)*10/21
34-80	0.50	20	20+(No. of Outlets 33)*20/47
81-150	0.40	40	40+(No. of Outlets8 0)*20/70
151-315	0.35	60	60+(No. of Outlets 150)*50/165

The compressor will be controlled by pressure switches in receiver set to operate between 100 and 114 psig. Each compressor will be sized for 50% of the maximum total demand. The compressors will be controlled on lead/lag/alternate basis.

Laboratory grade compressed air must be produced by oil-free scroll air compressors. Compressors will be base mounted. Air will be treated with coalescing filters, charcoal filters, and particulate filters and dried with heatless desiccant air dryers. Compressed air will be stored in an ASME rated vertical received with outlet pressure regulator.

Compressed air piping system will be ASTM B-280, oxygen clean capped piping with brazed joints.

Plumbing Equipment served by Emergency Power

The following plumbing equipment shall be on emergency power:
-Sump pumps if applicable
-RO water system
-Nitrogen gas generators
-Local hydrogen generators (if applicable)
-Lab compressed air systems.

c) Fire Suppression Systems

The design of the underground fire lines shall comply with NFPA 24. Current water supply flow test data will be obtained from the City Water Department to determine the capacity of the water mains. If required, provide fire pump in compliance with applicable codes and standards.

Sprinkler Systems:

The building will be protected throughout with hydraulically calculated sprinkler systems, which except for special protection needs, will be wet pipe systems. All areas of the building will be protected per the requirements of the NFPA 13 standard. Electrical rooms (i.e. switchgear rooms,

transformer rooms, generator rooms, electrical closets, and similar rooms) will be protected unless the requirements to omit sprinkler protection from these rooms within NFPA 13 are met. A pre-action sprinkler system will be installed to protect the laboratory areas, server room, evidence storage rooms, and case file storage room as identified in the tenant specifications in Appendix C. Pre-action sprinkler systems will be designed and installed in accordance with NFPA 13. The pre-action system will be single interlock system with the valve actuated by a signal from the fire alarm system. Provide air sampling type smoke detection (IE VESDA)

d) Electrical Systems

Electrical systems for the Wausau State Crime Laboratory include normal, UPS, emergency, and emergency standby power, building lighting, lightning protection system, and fire alarm system. RFP requirements, and design guidelines shall be followed to augment electrical system design.

Base Design Criteria – Design Voltages

Equipment Sizing Criteria – Branch Circuit Sizing Criteria

Type	Load
Lighting	Actual Installed VA
Receptacles	180 VA per outlet (duplex or single)
Multiple Outlet Assemblies	180 VA per 0.6 m(2')
Special Outlets	Actual Installed VA of Equipment Served
Motors	125% of Motor VA
Special Equipment	Actual Installed VA

Long Continuous Load/Demand Factors Criteria

Type	LCL Factor
Lighting (Continuous Loads)	125% of installed VA
General Receptacles	100% of first 10 kVA installed plus 50% of remainder
Motors	125% of VA of largest motor plus 100% of VA of all other motors
Fixed Equipment	100% of total installed VA
Type	LCL Factor

Electric Service

The facility shall be fed from a single feeder from the serving utility. Size the electrical service to accommodate the new facility plus 20% additional capacity for future equipment loads. The main switchboard shall also have breaker space for future distribution breakers. The utility shall provide a single 277/480V service and utility meter. The design shall distribute conduit and cable from the metering compartment to the main distribution switchboard located in the main electrical room.

Emergency/Standby Power System

Emergency power source for the facility will consist of an Emergency Power Supply (EPS) coupled to an Emergency Power Supply System (EPSS). The EPS shall include a single natural gas operated engine generator set. The emergency power system shall be a Level 1 system per NFPA 110. The 480Y/277V, Emergency/Standby generator shall be Natural Gas. The emergency/standby power shall be distributed to multiple automatic transfer switches segregated by system. Segregated systems are as described below.

System	Associated Loads
Emergency Systems NEC Article 700	Egress Lighting
	Exit Signs
	Fire Alarm Detection and Annunciation Systems
	Elevator Cab Lighting
	Fire Pump / Jockey Pump (if applicable)
	Generator Set Accessories Public Safety Communications System
Legally Required Standby Systems NEC Article 701	One Elevator per Elevator Bank if part of building path of egress
	HVAC systems required by code for life safety if applicable.
Optional Standby Systems NEC Article 702	Access Control System
	Telecommunication System
	Select mechanical equipment indicated in appendix B-Heating Ventilation & Air conditioning.
	Select plumbing equipment indicated in appendix B - Plumbing Systems
	Uninterruptable Power Systems
	Select laboratory and office equipment Reference

A central uninterruptable power supply (UPS) shall be provided for sensitive laboratory equipment and select laboratory receptacles. Anticipated laboratory equipment shall include GC mass spectrometers, Gas chromatographs, LC mass spectrometers, QTOFs and evidence storage refrigerators and freezers (see equipment list for additional information). A second central uninterruptable power supply (UPS) shall be provided for Telecommunications Equipment Rooms, Server Room, security system, and Building Automation System within the building and gate operator controller serving security gates outside the building.

The uninterruptable power shall be derived from a standalone UPS's which shall include 20% spare capacity for anticipated future loads. Ride through power shall include traditional valve regulated lead acid (VRLA) battery strings providing a minimum of 15 minutes of backup. The

UPS's shall be provided with 480V input power and output shall be determined based on loads served. The UPS's shall include a maintenance bypass switch.

The normal distribution system shall include all electrical service and distribution equipment from the serving utility service point to the branch circuit device. Each distribution panelboard shall be fed directly from the service entrance switchboard. The power feeders shall deliver power to 480V:208Y/120V step down transformers. Each 208Y/120V step down transformer shall deliver power to 120/208V branch panelboards located in dedicated electrical rooms. Branch panels shall be sized to include 10% spaces for future circuit breakers.

A complete low-impedance grounding electrode system shall be provided for this facility. The grounding electrode system shall include the main water service line, structural steel, Ufer ground, and ground ring around the perimeter of the building as required by State of Wisconsin Electrical Code SPS 316. The equipment grounding system shall extend from the building service entrance equipment to the branch circuit. Under no circumstances shall the raceway system be used as an equipment grounding conductor.

Provide ground bus bar adjacent to main building service equipment to terminate all ground conductors. In addition, provide a ground bus in each local electrical room.

A lightning protection system shall be provided to protect structure and associated appurtenances if recommended per NFPA 780, Lightning Risk Assessment, which shall consist of a system of conductance designed to safely divert the energy of a lightning strike to the earth while minimizing damage to the facility. Lightning protection system should also be incorporated for mobile firing range, if option 2 is selected.

A complete lighting system for all indoor and outdoor illumination shall be provided. The indoor and outdoor lighting system shall consist of energy-efficient LED lighting fixtures. All interior and exterior lighting controls shall meet the requirements of SPS 363. Emergency/night interior lighting shall be provided by unswitched branch circuits where applicable and with UL 924 automatic override devices where emergency lighting is desired to be switched along with the normal-power lighting. These emergency branch circuits shall be fed from an emergency lighting panel. Exit signs and emergency egress lighting shall be provided throughout the facility to illuminate egress corridors, stairwells, lobbies, etc. Exit and egress lighting circuits shall originate from emergency system branch panels.

Space	Average Maintained Foot-candles
Office	30
Laboratory, Support, Technical Area	50
Laboratory Bench and Tabletop	50-100
Conference	30
Corridor	5-15

Space	Average Maintained Foot-candles
Lobby	10-15
Toilets	5-15
Storage	10-15
Task	40
Open Parking	0.5
Covered Parking	1-2
Exterior Lighting	1-2

Cable Types		
Voltage Class	**Insulation**	**Notes**
600 V	THHN,THWN-2 or XHHW-2	Conductors shall be stranded copper. Aluminum #1/0 and larger may be used for phase and neutral conductors for transformer feeders, switchboard feeders, and panelboard feeders

All feeder conductors to be copper or aluminum for transformer feeders, switchboard and panelboard feeders only. All branch wiring conductors shall be copper. Minimum wire size #12 AWG, for all areas. Multi-wire branch circuits shall be provided with dedicated neutral conductors for each phase; common neutral circuits shall not be permitted. Feeder conductors shall be terminated using compression lugs. Mechanical lugs shall not be used for feeders. Branch circuit conductors shall per Listed termination method. Conductor insulation color code shall be as follows.

Conductor Color Code	
208Y/120V	**480Y/277V**
Phase A – Black	Phase A – Brown
Phase B – Red	Phase B – Orange
Phase C – Blue	Phase C – Yellow
Neutral – White	Neutral – Gray
Ground – Green	Ground – Green

Wiring devices shall be specification grade, complete with all accessories. Isolated ground receptacles shall be used only when necessary. If used, isolated grounds shall be in addition to equipment ground with isolated ground triangle imprint on face of device. Panelboard shall have an isolated ground bus that shall be connected back to applicable derived system or service.

Receptacle and Switch Color Code	
Normal Power	White per RFP

Receptacle and Switch Color Code	
Emergency Power	Red per RFP
UPS Power	Gray per RFP
Enclosed Office Computer Receptacle	White

Surge Protection

Surge Protective Devices (SPD) shall be used as design dictates. A single SPD device shall be installed on the load side of the main service disconnect, the generator switchboard and at the first distribution panel on the load side to each automatic transfer switch. Second-tier SPD devices at branch panelboards and other locations shall be incorporated as required but are not anticipated at this time.

Power Distribution

The electrical system shall be designed to handle loads based on 4 watts/ SF for equipment and 1.0 watts /SF for lighting.

From one to four workstations - 2 circuits (one for miscellaneous equipment [furniture circuit #1], one for computers [furniture circuit #2]).

From five to six workstations - 3 circuits (one for miscellaneous equipment [furniture circuit #1], two for computers [furniture circuit #2 & #3])

For systems furniture assemblies exceeding six workstations, two electrical connections are required since 4 or more circuits are required. In this case, the systems furniture assembly is fed from two locations and is then divided electrically into two smaller furniture assemblies. The quantity of circuits is then determined by the number of workstations on each section and follows the requirements stated above.

Distribution of power through systems furniture for the large office equipment (laser printers and copiers) shall be accomplished using the 4th circuit of the systems furniture wiring scheme with the dedicated neutral and ground conductors and orange colored devices. No more than two large pieces of office equipment shall be fed from one circuit. All systems furniture circuits using the 4th dedicated circuits shall also have the dedicated neutrals and grounds run back to the electrical distribution panel.

Conference and Training Room Power Requirements

If power and data are accessed through the floor, a flush-mount poke through is required in all conference rooms and training room. A stamped steel floor box (Square D or equal) can be used for power and cabling in the open workstation area for routing power and cabling to workstations that do not have access to columns or walls. The floor boxes need to be aesthetically pleasing and

able to handle the required capacity. All required connections and adaptations to be provided by Proposer.

e) Alarm Systems

The fire alarm system shall be a stand-alone, fully addressable system comprised of smoke detectors, heat detectors, duct detectors, manual pull stations, and audio/visual signaling devices with voice communication capabilities. The main fire alarm equipment shall be located near the main electrical room. An annunciator panel shall be provided at the main fire department entrance to the facility. The system shall be interlocked to the Capitol Police System and the Emergency Address System so that operators are aware of any fire conditions. Fire alarm VESDA systems: Provide VESDA (Very Early Smoke Detection Apparatus) systems in laboratory and evidence storage rooms as called for in the room data sheets/in the RFP space descriptions. The VESDA systems shall be monitored by the fire alarm system. Smoke detection by a VESDA system shall place the fire alarm system into alarm. The fire alarm system shall comply with requirements of NFPA 72 for a protected premise signaling system.

f) Communications

All Communications Equipment Rooms shall be dedicated to their purpose. The rooms will also house Electronic Security cabling and equipment. Each room will be provided with card access security control, dedicated power from the central building UPS system, and continuous HVAC cooling which is separate from the general building HVAC system. The UPS will be dedicated to Communications, Security and BAS functions as identified in Article ELECTRICAL SYSTEMS. Room location should be chosen to minimize the threat of damage by external sources which could impact communications and security functions. Room types include the following: Building Entrance Facility (BEF) - Incoming services will be brought into the facility at the BEF(s).

The building demarcation point(s) (DEMARC) will be located in these rooms. External service providers will bring services into the BEF(s) for connection to the building's cabling system and network equipment. Main Equipment Room (MER) – The MER(s) provides a protected environment for backbone cabling terminations and systems equipment and are the hub for all intra-building backbone cabling. Telecom Room (TR) –TRs provide a protected environment for Horizontal and backbone cabling terminations and systems equipment and serves a limited area of the building. The equipment rooms should be located centrally to the areas that they serve and have clear access to cable pathways coming in and out of the rooms. Pedestrian and equipment access should be through a door located off a building corridor and should not require access through any other locked room or program space. Door width will be at least three feet. Suspended ceilings should not typically be provided; however, some means of maintaining the environmental parameters of the rooms must be implemented. If a suspended ceiling is required to maintain environmental integrity, the ceiling should be installed high enough to allow all pathways and room services to come into the rooms below the ceiling. Floors, walls and ceilings

in the support rooms will be treated to minimize dust and the potential for static electricity. At least two walls will be covered with fire treated plywood (3/4-inch-thick, 8 feet high, A-C grade). No piping or ductwork will pass over or through any equipment room, unless they are used to provide services to the room itself. Piping and ductwork used to provide services to these rooms will be coordinated with the anticipated equipment layout within the rooms.

Incoming services will be brought into the facility at the BEF. The building demarcation point(s) (DEMARC) will be located in this room. External service providers will bring services into the BEF for connection to the building's cabling system and network equipment. Two such BEFs shall be established. Redundant incoming service has been requested, with two separate cable routes established from two separate service provider connection points into the two separate BEF spaces. Each BEF shall be separate from other equipment rooms (e.g. the Main Equipment Rooms (2) and Telecom Rooms) and be keyed separately from all other building doors. The rooms shall be fitted with an access control credential reader. Each BEF should be sized at a minimum of 100 square feet (10 feet by 10 feet) of space.

As with the BEFs, two redundant MERs have been requested. Each of the MERs will connect to both BEFs via diverse cabling routes, Each MER should be located in proximity to a separate BEF. The building MERs are the hub for all intra-building backbone cabling and will also support the horizontal cabling and related equipment for the areas around their locations in the building. Each MER should be sized at a minimum of 150 total square feet (10 feet by 15 feet) of space. One of the rooms will house voice backbone cable terminations. Both rooms will house data network equipment and data backbone cable terminations. Link each BEF to each of the building MERs with single mode and multimode fiber optic cabling. Link the MERs with 25-pair copper twisted-pair backbone cabling to facilitate analog phone connections expected to originate in (1) of the (2) building MERs.

The number of Telecom Rooms will depend on the building footprint and floor count. Maximum horizontal cable distance from the Equipment Outlet to the TR is 295 feet including required cable slack and accommodation for cable routing. TRs must be located to maintain cable distances below this maximum. Work areas shall be served by a TR on the same floor as the work area. Each TR shall be sized at a minimum of 120 square feet (10 feet by 12 feet) of space. Link each TR with each of the building MERs with single mode and multimode fiber optic cabling. Cables shall follow physically diverse routes. Link each TR to (1) MER with 25-pair copper backbone twisted-pair cabling.

The space programming identifies the need for a 200 square foot Server Room in the building. This room shall support a minimum of (5) free-standing equipment cabinets, which should be possible within the programmed 200-square-foot area. The initially installed equipment contained in this room upon initial building occupation is expected to require (2) equipment cabinets. The server room infrastructure requirements include UPS power, surge suppression,

VESDA smoke detection, pre-action sprinklers, access control and dedicated cooling. A clean agent fire suppression system is not required.

All copper and fiber optic patch panels shall be installed in 7-foot-high, standard TIA 19" equipment racks. Horizontal and vertical cable management will be provided in all equipment racks. Equipment racks and wall fields will be sized with a minimum of 50% spare capacity for cable additions. Provide cable runway around the perimeter of each BER, MER and TR room.

Backbone Cable Application	Cable Type	Cable Quantity	Redundancy
BEF(s) to MER(s)	Single-mode OS2 Multimode OM4 Copper Twisted pair (voice & other analog)	24 strands 24 strands 25-pair	Redundant cables; diverse routes None
MER(s) to TRs	Multimode OM4 Copper Twisted pair (voice & other analog)	24 strands 25-pair per TR	Cabling noted from each TR to both MERs; diverse routes None

The data system will use fiber optic cabling to distribute data service from BEFs to the MERs and from MERs to the TRs. Backbone cabling from each MER to each TR will be sized as indicated in the table above. All fiber strands will terminate in LC-type connectors and be secured in duplex LC-type adapters in rack mounted patch panels in the BEF(s), MER(s) and TRs. Adapter polarity shall follow TIA-568 guidelines. Cabling for voice and other legacy analog devices will use twisted-pair copper cabling to distribute legacy voice services from the MER to the TRs. The voice backbone will typically be sized at 25-pairs per TR. Copper twisted-pair cabling will terminate on rack-mounted 110-type blocks at the TRs and on wall-mounted 110-type blocks at each MER and BEF.

The Horizontal Cable System is based on the installation of 4-pair, copper twisted-pair cables from the Equipment Outlet (EO) in the work area to the Telecom Room (or MER) service the work area. The combined cable and termination hardware are referred to as the "Permanent Link". There shall be no distinction between Horizontal twisted-pair cables designated for "DATA" and "VOICE" (Telephone and/or other analog) applications. Horizontal cables shall each be terminated at their designated workstation location in a Modular Jacks (8-pin, 8-conductor). These connector assemblies shall snap into a mounting frame. The combined assembly is referred to as the Equipment Outlet (EO). At select display locations, the 4-pair cable will be supplemented with coaxial cable terminated in an F-type connector.

Horizontal Cable Application	Cable Type	Cable Type
Data (e.g. computer networks, VoIP)	Copper UTP	Category 6A
Wireless Data (Wi-Fi)	Copper UTP	Category 6A

Horizontal Cable Application	Cable Type	Cable Type
Analog voice	Copper UTP	Category 6A
Security (i.e. CCTV) Cameras	Copper UTP	Category 6A
Wall-mounted displays	Copper UTP; Coax	Category 6A; RG-6 Quad

Each Horizontal Cable connects to the nearest TR with a 4-pair UTP, Category 6A cable. All four pairs will terminate at the outlet and in the TR. Equipment Outlet configuration, especially connector count at each location shall be as detailed in the table below. Specific requirements to satisfy user needs will be implemented as space programming is completed. The table values show the number of Equipment Outlets in each room and the number of connectors (typically a modular jack) at each outlet. Equipment Outlet Configuration.

Room or Space Function	No. of EOs	Jacks per EO	CATV Connectors per EO
Typical Enclosed Office	2	2	1
Typical Open Office Cubicle	2	2	0
Shared Printer/Fax Area	3	2	0
Copy Room	2	2	0
Conference Room (<200 sf)	2	2	1
Conference Room (>200 sf)	3	4	1
Training Room (per seat)	1	1	0
Training Room (per podium)	1	3	0
Lab Support Rooms	As indicated by lab programming	2	0
Labs – Bench top	As indicated by lab programming	2	0
Wireless Access Point	1	2	0

Provide quantities and types listed in room data sheets. Where not identified in room data sheets provide quantities and types from table above.

g) Two Way Emergency Communications

Two-way Emergency Communication system will be provided at the landing serving each elevator or bank of elevators on each accessible floor that is one or more stories above or below the level of exit discharge. The system is not required at landings serving only service or freight elevators not designated as part of the accessible means of egress. System shall include full duplex voice capability to enhance communication during emergency situations. Alternatively, if areas of refuge are established within the building, the two-way communication system will be provided with the areas of refuge in lieu of at the elevator landings. Proposer shall coordinate locations of all devices and the required signage and communicate with the tenant and the local fire marshal to determine location of master control panel and primary and secondary answering point. Central equipment for this system will be located in the Communications Equipment Room(s).

Emergency Responder Radio Coverage System

Provide Emergency Responder Radio Coverage in accordance with The Wisconsin Building Code.

Distributed Antenna System (DAS) - Cellular Repeater

The cellular repeater system will boost wireless signals associated with cell phones within the building. The system will consist of some type of signal donor means (e.g. roof antenna or carrier fiber optic link), head-end signal processing equipment, coaxial or fiber cable for signal distribution within the building, and ceiling-mounted antennas within building spaces at locations dictated by signal coverage modeling software. Carriers will typically require a design review and sign-off before they allow these in-building systems to connect to their networks. This extensive carrier interaction typically results in the detailed system design being performed by the systems integrator, equipment installer / contractor or vendor who will also do the system installation. If possible, the passive distribution portion (coaxial cable, antennas) for this system should be combined with the emergency responder radio coverage system. The following list of design criteria should be used when engaging a design/installation systems integrator: System should interface with and boost signals from the tenant's (DOJ) preferred wireless vendor, Verizon Wireless. The tenant's (DOJ) selected wireless carrier will define the type of signal donor used (i.e. wired or wireless connection to wireless network). The system head-end equipment does not need to support multiple wireless carriers.

Audio-Visual

Provide pathways to accommodate agency-provided cabling and equipment.

Each conference room greater than 8 persons shall be configured to support the following:

Ceiling mounted projector and Recessed dropdown screen

or

Wall-mounted Display

Dedicated cabling from wall to projector to support Audio /Video equipment

For Large Conference and Training rooms greater than or equal to 40 people, additional audio/video conferencing capability is required. The design should provide include the ability to support:

- In-room cameras for video conferencing and training
- A lockable closet to house audio equipment
- Microphone outlets in the front of the room
- In-ceiling speakers to supplement audio.
- An assistive listening system.

Wireless Data (Wi-Fi)

Provide Structured Cabling to support Wireless Access Points (WAP; by Agency) throughout the facility. WAP outlet locations will be shown on the floor plans and will be laid out based on both building coverage and network capacity.

Locate WAP outlets to ensure that all areas of the building will be serviced by a WAP that traverses at most 2 interior partitions. For open areas, additional WAP locations may be included based on anticipated quantity of wireless devices.

In general, WAP locations will be spaced a maximum of 30 feet apart plus cabling dedicated to each large conference room.

Provide (2) Category 6A cables from each Equipment Outlet for WAP to the nearest TR.

If the Agency runs a wireless coverage simulation software based on the type of WAP equipment they will provide, the WAP outlets will be placed on the floor plans as directed by the results of that simulation.

Paging System

Provide a building-wide paging system consisting of ceiling-mounted speakers, rack-mounted amplifiers, an interface to the facility's phone system to initiate the paging and an interface to the building fire alarm system. System shall be equipped with an additional auxiliary input for external audio sources and automatic muting of background audio during pages. Program source input shall accommodate signals from radio, tape, CD, digital music sources, cable or digital audio messaging units etc. Per DOA request, the paging system shall be based on the Digital Acoustics IP7 IP-paging hardware and accompanying TalkMaster control software. Internal paging zones will be defined by the tenant. The audio output from the IP7 system will route to the fire alarm system and use a relay control signal to switch the fire alarm panel audio to its auxiliary input. All necessary input and output precedence control will be handled by the fire alarm panel. This configuration will allow the overhead paging system to use the fire alarm speakers in lieu of a dedicated set of paging speakers. Central equipment for this system will be located in the Communications Equipment Room(s).

h) Sound Masking System

The building is to include a sound masking system configured to reduce sound transmission and noise reduction coefficient. The intent of the system is to provide privacy for the staff working in the open office spaces and to cover the speech from one area affecting another. In order to achieve this, the Proposer shall properly design and specify a sound masking system for the office spaces of the building. The sound masking systems shall produce a digital broadband sound spectrum, complementary to the speech spectrum that effectively covers speech levels. The system shall be UL listed and meet the ASTM E-1130 standards for speech privacy and sound uniformity. The sound masking system shall be zoned and provide zoned control within the building via a software interface. Sound masking will not be required in building mechanical rooms, storage rooms, and any rooms with recording equipment. Central equipment for this system will be in the Communications Equipment Room(s).

i) Security CCTV/Security Access Control

Security Management Systems (SMS) shall be installed in accordance with best practices of the trade, and related standards/codes, such as ADA SIA, TIA/EIA, U.L., NFPA, NBFAA. It is the responsibility of the Contractor to include any and all items required for a complete/functional SMS, even if not identified in related narratives, etc.

Access Control

Provide and connect security peripherals to Access Control Panels (ACP)'s for connection to the Access Control and Alarm Monitoring System (ACMS). The Lessor shall provide the provision of all equipment, interfaces, cable and peripherals as well as direct/indirect labor or programming inclusive of database partitioning. The ACMS shall be installed at all exterior doors, and select interior doors, as identified by the tenant. ACMS shall be fully compatible with the existing card access system located in various State Office Buildings and will be controlled by the existing Owner's Capitol Police CCure 9000 system. The System shall include proximity card readers, controllers, wiring, and all other equipment necessary for the complete specified operation. Access cards shall be 35-bit proximity cards compatible with existing HID brand Corporate 1000 cards currently used by the Capitol Police; numbering shall be coordinated by the factory with the existing Capitol Police card database. Each reader shall be the model and size most appropriate for each individual door application. ACP and related periphery equipment (power supplies, cabinets) shall be equipped with tamper switches. Door Monitoring / position switches shall be provided where determined in the design, and shall indicate the position of the associated door, either open, closed, held or forced open. The contractor shall provide end-of-line supervision, cable and direct/indirect programming as required for this functionality. Door monitoring / position devices shall be GE 1078C series or approved equal.

Motion Detection

Supply motion detection within common areas as well as secure areas for the purposes of ascertaining an intrusion. Motion detection equipment shall be dual technology type, employing Passive Infra-Red (PIR) and microwave technology to minimize false alarms. The motion detection/glass break peripherals shall route back to Capitol Police via the ACMS/ACP. Provide this equipment in all areas identified by the tenant.

Request to Exit

Request to-exit devices shall be provided by the door hardware supplier and shall be integrated into the hardware via integral micro-switches. The design shall provide, cable and programming as required for functionality of the system (door contact shunt, electrified lock release). In some instances, the design may need to provide a request-to-exit motion device at specific doors, to signal the access control alarm panel which shall shunt the door position switches and energize or de-energize electrified hardware associated to the access controlled door. Request to exit motion detectors shall be manufactured by Bosch/Kantech.

Request to Exit Button

Local switch for locking/unlocking door(s) shall be a DPDT toggle switch with an indicator LED and shall shunt the associated door position switch; location to be coordinated with tenant (DOJ). Door release buttons shall be: Dortronics 5236 with optional DPDT toggle switch and optional LED or approved equal.

Duress Button(s)

Provide duress buttons as required by final design that report back to local PD for timely response, at areas that are identified in the design and high-risk areas. Local alarm devices shall serve as an audible deterrent to staff and visitors to discourage unauthorized use of an "Emergency Only" exit door and will be reset locally by a key switch mounted in close proximity to the door or on the unit itself that is easily reachable (ADA accessible). Alarms will be rated at 82 decibels (dB) from a distance of three (3) feet and will be signaled via the door position switch from the associated door. Provide a key for bypass/reset of all local alarms.

Power Supplies

Furnish individually fused power supplies for electrified hardware as required. The Contractor shall be responsible for the provision and connection of 24 VAC power supplies and associated 12 AWG circuitry/cabling as required for operation of electric locking devices, which shall be wall mounted, key lockable and equipped with a tamper switch. Power supplies shall provide 125% of the electrical current requirements and shall be sized with a (4) four-hour backup battery for continued electrified lockset operation after a power failure. Power supplies shall be equipped with an off-board relay or manufacturer specified module to indicate when main power has dropped and shall have an integral relay for fire alarm/SLC connection. Fire interfaces, as required, to de-energize locking hardware shall be provided by the Contractor in accordance with NFPA code. Power supplies shall be Altronix, AlarmSaf, SDC or Owner approved equivalent.

Interfaces (Fire Relay/Door Operator)

Lessor is responsible for providing interfaces to the following devices: Fire Alarm interfaces - door unlocking, door/vehicle gate operator activation (sliding), Integral Request-To-Exit Micro-Switches (within Door Hardware) and Integration with surveillance and access control systems.

Credentials

The Lessor shall provide Access control cards/fobs as needed– type to be coordinate with the tenant (DOJ). Credential(s) shall be multi-technology type, capable of function with proximity access credentialing types.

Access Control Readers

Access control readers shall be provided as determined in the design (extended range, proximity, and keypad) and shall be weatherized, where required. Mullion mounted readers shall not be allowed unless otherwise indicated. Access control readers shall be multi-technology type, capable of function with 125KHz proximity access credentials. Access control system shall secure

all interior doors to critical areas identified by the tenant (DOJ), including suite entrances and work areas, laboratory and storage areas, specialty rooms, and mechanical, electrical and telecom rooms. Each reader shall be the model and size most appropriate for each individual door application.

Access Control Panels

ACP locations shall be centrally located within MER/TR rooms. An 8'x4' wall space should be reserved for security equipment. The design shall provide for the exact number of ACP(s) required and allow for an additional 25% capacity for future peripheral connections. ACPs shall incorporate provisions for uninterrupted standby battery power. Power supplies used shall be designed to send a signal to the ACMS in the event of a power loss, low battery, or short and shall maintain power for not less than eight (8) hours. ACP shall buffer a minimum of 500 events at the panel when communications with the host/server is interrupted and shall support locally, a minimum of 200 card holders per ACP. Access control panels shall be of the same manufacturers as the security system.

Access Control Workstation

Computer workstations, software and associated licenses/programming for the ACMS shall be provided as needed. Computer hardware shall be configured and specified by the manufacturer but shall require the following minimum requirements: 2.6 GHz multi core processor with 8GB of RAM. Operating System shall be Windows 11 based and have Four (4) USB 2.0 ports, 100MBPS Ethernet Network Interface Card, RAID Controller Single Channel to support Two (2) mirrored 500 GB Hard Drive(s), mouse, full function keyboard, audio sound cards and speakers, license agreement for all applicable software, Laser Report Text & Image Printer, Video Card with 4GB of memory and ability to support minimum of two (2) independent/simultaneous HDMI connections and one (1) 22" LCD monitor.

Intercom System

The Lessor shall provide an Intercom System. Intercoms shall communicate with a headend station and provide 2-way/duplex communication. In addition to voice communications, the system will be configured to allow for controlled doors and gate operators to be remotely locked or unlocked. Exterior hardware shall be supplied as a weatherized, vandal resistant system. The system shall be network-based, use TCP/IP protocol and be isolated from the tenant's (DOJ's) network.

Network Video Recorder (NVR)

The Lessor shall provide Network Video Recorder(s) (NVRS). NVR shall be capable of recording a minimum of fifteen (15) frames/Images per second at the maximum resolution specified. All NVR equipment shall be installed in a securable rack within an MER or TR. The storage unit shall be external to the processing unit and shall utilize SCSI or IDE hard drives in a RAID level 5/6 array. Storage capacity shall allow for retention of all video for a minimum of 30 days at the maximum

quality of each camera at 15 frames/second and also store all video for a minimum of 120 days at the maximum quality of each camera at 1 frame/second. Motion recording can be used for unique circumstances, normally all cameras will be recorded 24 hours/day in "Free Run/continuous" mode with an image refresh, which shall not be less than every second. The system shall base the recorded storage for all cameras at a resolution of 2.1 Megapixel/1080p (1280 x 720). Additionally, beyond base storage, the system shall allocate 25% additional storage for expansion beyond the initial camera quantity identified in the design. The system shall allow for immediate access to recorded video during this period and shall be First in, First Out (FIFO). The system shall base the recorded storage for all cameras at a resolution of 2.1 Megapixel/1080p (1280 x 720). Additionally, beyond base storage, the system shall allocate 25% additional storage for expansion beyond the initial camera quantity identified in the design. The storage unit shall be external to the processing unit and shall utilize SCSI or IDE hard drives in a RAID level 5/6 array. All NVR workstation/server licensing is to include but is not limited to operating system, NVR software and camera licensing; all NVR workstation/server licensing shall be provided to the tenant (DOJ). The surveillance system shall have the ability to be viewed remotely by Capitol Police. The completed system will be set up to allow remote management of the cameras and server utilizing Remote Desktop Connection over the Owner networks.

Monitoring Stations

Computer workstations and associated licenses for surveillance system shall be provided as needed. Computer workstations shall be configured and specified by the manufacturer but shall include the following minimum requirements: 3.6 GHz multi core processor with 8GB of RAM. Operating System shall be Windows 11 based and have Four (4) USB 2.0 ports, 100MBPS Ethernet Network Interface Card, RAID Controller Single Channel to support Two (2) mirrored 500 GB Hard Drive(s), mouse, full function keyboard, audio sound cards and speakers, license agreement for all applicable software, Laser Report Text & Image Printer, Video Card with 4GB of memory and ability to support minimum of two (2) independent HDMI connections and two (2) 22" LCD monitors and mounting hardware. The NVR shall be capable of routing video to additional monitors. Camera to mouse/keyboard call up from external systems, salvo/zoned switching for surrounding camera views during an alarm event, which is communicated by the ACMS. Tenant (DOJ) furnished / Lessor installed cameras will provide variable speed control for pan/tilt cameras, as well as, integral speed domes, individual camera dwell times before sequence, auto hold, salvo/zone selection, keyboard lock, and running separate alarm call up patterns and monitor configurations (spot, multi-pane/multiplexed).

Outdoor Camara Cable Isolation

The Lessor will provide single mode/multi-mode fiber optic cabling and associated fiber optic media converters for all exterior devices and shall be responsible for the connection to power being provided, as required, to support the video transceivers. Hybrid fiber/copper cabling is an acceptable method for this. Fiber optic media converters shall be mounted within a key lockable

enclosure within the building in an accessible location. Fiber optic media converters shall be IFS, Fiber Options, or equivalent.

Equipment Racks

All copper and fiber optic patch panels will be installed in 7-foot-high, standard TIA 19" equipment racks.

Appendix C Tenant Program Requirements

The following program requirements for each area are listed below to assist in the space design process.

Data Sheets, general and summarized room requirements as well as the technical specification section show additional details for specifics rooms/areas. The following lists provide by room specialized and/or unique features, fixtures or construction required and is not necessarily all-inclusive. All millwork, furniture (other than task chairs), lockers, exercise equipment and appliances are to be provided by the Lessor. NOTE: TVs, whiteboards, projection screens and electronic queuing system are to be provided by the Lessee and installed by Lessor. Refer to Appendix B, Technical Specifications and Design Guidelines for additional information on Electrical, HVAC, plumbing, fire protection, lighting, telephone, data, finishes, doors, and hardware requirements. Where temperature, humidity, air change rates and pressure relationships are not listed in data sheets, utilize the numbers in the HVAC Space Criteria table in appendix B.

1. Training and Public Areas

The training and public areas of the Crime Laboratory provide a secured entry and access point for visitors to the lab as well as meeting and break space for staff.

		Total	SF Each	SF Total	Adjacencies	Other Requirements	Security
Training and Public Areas							
101	Reception/Waiting area	1	320	320		Public entrance, vestibule and security/reception desk	Card access from exterior
102	Training room	1	1,000	1,000	101	Accessible to visitors and staff	
103	Training room storage	1	100	100	102		Keyed
104	Demonstration laboratory	1	150	150	101	Accessible to visitors, no lab gasses	
105	All gender restroom	2	75	150	102	Accessible to visitors and staff	
106	Breakroom/kitchenette	1	300	300	102	Accessible to visitors and staff, adjacent to training room	
	Total	7		**2,020**			

Appendix C – Training and Public Areas – Reception/Waiting -

ROOM NAME:		**RECEPTION/WAITING**				**FUNCTION:**		LOBBY			
AREA NUMBER:		**101**									
DEPARTMENT:		**TRAINING AND PUBLIC AREAS**				**ROOM TYPE:**		ADMINISTRATION			
UNIT:											
ADJACENCIES:											
Department											
Area Number		**102, 104, 105**									
UTILIZATION				**MECHANICAL**				**ELECTRICAL**			
	Schedule of Use	12 HOURS						Power (Volts)			120
	Staff Count	0						Lighting (FC)			30 AMB
								Special			TASK
ARCHITECTURAL								Lighting Motion Sensor			YES
Floor Material		TERR									
Base		TERR		**COMMUNICATIONS**				**LIGHTING**			
Partition Type		GWB		Voice (Telephone)		YES		Natural Light			YES
	STC	TBD		Data (Computer)		YES		Daylight Control			TBD
Ceiling Type		GWB		Video		YES					
	Height	TBD		Cable TV		YES		**FIRE PROTECTION**			
Door Type		DOUBLE		CCTV		YES		System Type			WET
	Vision Panel	FULL		Audio		N/A		Smoke or Heat Detectors			TBD
	Material	GLASS		Sound System		N/A					
	Hardware	TBD		Intercom System (PA) / Paging		YES		**MOVEABLE EQUIPMENT**			
Casework				Clock		YES		Type			NONE
	Material	NA		Other		N/A			Size		N/A
Bench top									Connections		N/A
	Material	NA		**Audio/Visual**				Type			NONE
				Screens		NONE			Size		N/A
ACOUSTICS				Video Projector		NONE			Connections		N/A
Description		TBD		Other		N/A		Type			NONE
NC Rating		TBD							Size		N/A
				SECURITY					Connections		N/A
PLUMBING				Door Access Control (Type)		CARD ACCESS					
Sink Type		NONE		Intrusion Detection		YES		**FURNITURE**			
	Size	N/A		Video Surveillance		YES			Size		TBD
	Material	N/A		KeyPD/Prox CD/Rex		YES			Material		WOOD
	Services	N/A		Integration Req'd		YES		Bench top			
Piped Services (Press/Qual/Vol)				Other		N/A			Material		STONE
	Gases/Other	NONE									

Appendix C - Training and Public Areas – Large Training Room -

One millwork display cabinet with locking glass fronts (4’ x 4’ x 6”) built-in should be in the hallway outside of the large training room or demonstration lab.

ROOM NAME:		**LARGE TRAINING ROOM**				**FUNCTION:**		TRAINING ROOM			
AREA NUMBER:		**102**									
DEPARTMENT:		**TRAINING AND PUBLIC AREAS**				**ROOM TYPE:**		ADMINISTRATION			
UNIT:											
ADJACENCIES:											
Department											
Area Number		**101, 104, 105, 106**									
UTILIZATION								**ELECTRICAL**			
	Schedule of Us	12 HOURS						Power (Volts)			120
	Staff Count	0						Lighting (FC)			30 AMB
								Special			TASK
ARCHITECTURAL								Lighting Motion Sensor			YES
Floor Material		SHEET									
Base		RWB		**COMMUNICATIONS**				**LIGHTING**			
Partition Type		GWB		Voice (Telephone)		YES		Natural Light			YES
	STC	SEMI-GLOSS		Data (Computer)		YES		Daylight Control			TBD
Ceiling Type		GWB		Video		YES					
	Height	TBD		Cable TV		YES		**FIRE PROTECTION**			
Door Type		DOUBLE		CCTV		YES		System Type			WET
	Vision Panel	YES		Audio		N/A		Smoke or Heat Detectors			TBD
	Material	TBD		Sound System		N/A					
	Hardware	TBD		Intercom System (PA) / Paging		YES		**MOVEABLE EQUIPMENT**			
Casework				Clock		YES		Type			NONE
	Material	NA		Other		N/A			Size		N/A
Bench top									Connections		N/A
	Material	NA		**Audio/Visual**				Type			NONE
				Screens		YES			Size		N/A
ACOUSTICS				Video Projector		YES			Connections		N/A
Description		TBD		Other		N/A		Type			NONE
NC Rating		TBD							Size		N/A
				SECURITY					Connections		N/A
PLUMBING				Door Access Control (Type)		CARD ACCESS					
Sink Type		HAND		Intrusion Detection		YES		**FURNITURE**			
	Size	16"x14"x10"		Video Surveillance		YES			Size		TBD
	Material	METAL		KeyPD/Prox CD/Rex		YES			Material		WOOD
	Services	HW,CW		Integration Req'd		YES		Bench top			
Piped Services (Press/Qual/Vol)				Other		N/A			Material		STONE
	Gases/Other	NONE									

Appendix C – Training and Public Areas – Training Room Storage

ROOM NAME:		**TRAINING STORAGE ROOM**				**FUNCTION:**		STORAGE			
AREA NUMBER:		**103**									
DEPARTMENT:		**TRAINING AND PUBLIC AREAS**				**ROOM TYPE:**		STORAGE ROOM			
UNIT:											
ADJACENCIES:		102									
Department											
Area Number		102									
UTILIZATION								**ELECTRICAL**			
	Schedule of Use	12 HOURS						Power (Volts)		120	
	Staff Count	0						Lighting (FC)		20	
								Special		NONE	
ARCHITECTURAL								Lighting Motion Sensor		YES	
Floor Material		SHEET									
Base		RWB		**COMMUNICATIONS**				**LIGHTING**			
Partition Type		GWB		Voice (Telephone)		NONE		Natural Light		NONE	
	STC	TBD		Data (Computer)		NONE		Daylight Control		N/A	
Ceiling Type		APC		Video		NONE					
	Height	9'-0"		Cable TV		NONE		**FIRE PROTECTION**			
Door Type		DOUBLE		CCTV		NONE		System Type		WET	
	Vision Panel	NONE		Audio		NONE		Smoke or Heat Detectors		TBD	
	Material	TBD		Sound System		NONE					
	Hardware	TBD		Intercom System (PA) / Paging		YES		**MOVEABLE EQUIPMENT**			
Casework				Clock		YES		Type		NONE	
	Material	NONE		Other		N/A			Size	N/A	
Bench top									Connections	N/A	
	Material	NONE		**Audio/Visual**				Type		NONE	
				Screens		NONE			Size	N/A	
ACOUSTICS				Video Projector		NONE			Connections	N/A	
Description		TBD		Other		N/A		Type		NONE	
NC Rating		TBD							Size	N/A	
				SECURITY					Connections	N/A	
PLUMBING				Door Access Control (Type)		CR					
Sink Type		NONE		Intrusion Detection		YES		**FURNITURE**			
	Size	N/A		Video Surveillance		YES			Size	N/A	
	Material	N/A		KeyPD/Prox CD/Rex		TBD			Material	N/A	
	Services	N/A		Integration Req'd		TBD		Bench top			
Piped Services (Press/Qual/Vol)				Other		N/A			Material	N/A	
	Gases/Other	NONE									

Appendix C – Training and Public Areas – Demonstration Lab -

ROOM NAME:		**DEMONSTRATION LAB**			**BSL:**	2		
AREA NUMBER:		**104**						
DEPARTMENT:								
UNIT:		**TRAINING AND PUBLIC AREA**			**ROOM TYPE:**	LAB		
ADJACENCIES:								
Department								
Area Number		**101, 102, 105**						
UTILIZATION			**MECHANICAL**			**HOODS**		
	Schedule of Use	12 HOURS	Occupied Temperature			Exhausted Hood (Type)		NONE
	Staff Count	0		Summer Min & Max			Quantity	N/A
ARCHITECTURAL				Winter Min & Max			Size	N/A
Floor Material		SHEET	Occupied Humidity				Sash height	N/A
Base		RWB		Summer Min & Max			Airflow	N/A
Partition Type		GWB		Winter Min & Max			Face Velocity	N/A
	Paint	SEMI-GLOSS	Un-Occupied Temperature				Static Pressure	N/A
Ceiling Type		APC		Summer Min & Max			Piped Services	N/A
	Height	10'0"		Winter Min & Max			Cup sink / Water	N/A
Door Type		LAB	Un-Occupied Humidity				Storage Below	N/A
	Vision Panel	YES		Summer Min & Max			Electrical	N/A
	Seals	N/A		Winter Min & Max		Recirculating Hood (Type)		YES
	Overhead Door	N/A	Light Power Density (watt/sf)		1.4		Quantity	1
	Cased Opening	N/A	Equip Power Density (watt/sf)		6		Size	4'
Casework			Pressure Control				Sash height	TBD
	Material	METAL		Directional	NEGATIVE		Airflow	TBD
	Fixed or Mobile	FIXED/MOBILE		Active	N/A		Face Velocity	TBD
Storage			Filtration MERV				Pressure Drop	TBD
	Base Cabinets	YES		Supply	14		Piped Services	NONE
	Wall Cabinets	YES		Exhaust	N/A		Electrical	YES
	Glass Fronts	NONE	Air Recurc or Exhaust		Exh	Point Exhaust		
	Swinging or Sliding	SWINGING	EHS Min Air Changes				Quantity	N/A
	Shelves Wall or Bench	WALL		Occupied	6 ACH		Size	N/A
	Glassware Storage	YES		Un-Occupied	3 ACH		Airflow	N/A
	Rack Shelving	NONE	EHS Required Min ACH				Pressure Drop	N/A
Bench top			Process Chilled Water				Snorkel	N/A
	Material	EPOXY		Flow	N/A	**ELECTRICAL**		
	Color	TBD		Pressure Rating	N/A	110V, 20A, 1 Phase		2 Per 2 LF Benc
	Thickness	1"		Pressure Drop	N/A	208V, 30A, 1 Phase		NONE
PLUMBING				Supply Temp	N/A	208V, 30A, 3 Phase		NONE
Sink Type		LAB		Delta T	N/A	480V, 100A, 3 Phase		NONE
	Size	18"x14"x12"	Heated Process Water			Special Outlet Config		NONE
	Material	EPOXY		Flow	N/A	Standby Pwr (Generator)		YES
	Services	HW,CW		Pressure Rating	N/A	Conditioned Power		NONE
Sink Type				Pressure Drop	N/A	UPS		YES
	Size	N/A		Supply Temp	N/A	Explosion Proof		NONE
	Material	N/A		Delta T	N/A	GFCI Outlets		YES
	Services	N/A	Process Steam Equipment			Clocks		YES
Safety				Flow	N/A	**LIGHTING**		
	Emergency Shower	NONE		Pressure	N/A		Type	LED
	Eyewash	YES		Condensate Return	N/A		Foot-candle	100(50+TASK)
	Floor Drain	YES		Max Backpressure	N/A		Dimming / Multi-Level	10%DIM
Pure Water Type		TYPE 2	**SECURITY**				Zoning Control	NONE
Local Polisher		YES	Door Access Control (Type)		CARD		Timer Control	NONE
Waste		ACID	Intrusion Detection		NONE		Occupancy Sensor	YES
Piped Services (Press/Qual/Vol)			Video Surveillance		NONE		Daylighting Sensor	NONE
	Air	NONE	Other		N/A		Task Lighting	YES
	Vacuum	NONE	**COMMUNICATIONS**			**FIRE PROTECTION**		
	Nitrogen	NONE	Audio/Video		NONE	System Type		WET
	Pure (Zero) Air	NONE	Data / Telephone		2 per 4 LF Bench	Smoke or Heat Detectors		HEAT
	Other	NONE	Wall Mounted Telephone		1	**MONITORING**		
			Intercom System (PA)		YES		Temperature/ Humidity	NONE
			Paging		YES		Equipment	YES

Appendix C – Training and Public Areas – Restrooms -

ROOM NAME:		**RESTROOMS**				**FUNCTION:**		TOILET			
AREA NUMBER:		105,303, 708, 606 (with shower)									
DEPARTMENT:		**SUPPORT**				**ROOM TYPE:**		BUILDING SUPPORT			
UNIT:		**N/A**									
ADJACENCIES:		see program requirements									
Department		**ALL**									
Area Number											
UTILIZATION								**ELECTRICAL**			
	Schedule of Use	12 HOURS						Power (Volts)		120	
	Staff Count	0						Lighting (FC)		30	
								Special		NONE	
ARCHITECTURAL								Lighting Motion Sensor		YES	
Floor Material		PORC									
Base		PORC		**COMMUNICATIONS**				**LIGHTING**			
Partition Type		PORC		Voice (Telephone)		NONE		Natural Light		NONE	
	STC	TBD		Data (Computer)		NONE		Daylight Control		NONE	
Ceiling Type		GYP		Video		NONE					
	Height	9'-0"		Cable TV		NONE		**FIRE PROTECTION**			
Door Type		SINGLE		CCTV		NONE		System Type		WET	
	Vision Panel	NO		Audio		NONE		Smoke or Heat Detectors		TBD	
	Material	WOOD		Sound System		NONE					
	Hardware	PUSH		Intercom System (PA) / Paging		YES		**MOVEABLE EQUIPMENT**			
Casework				Clock		YES		Type		N/A	
	Material	NA		Other		N/A			Size	N/A	
Bench top									Connections	N/A	
	Material	NA		**Audio/Visual**				Type		N/A	
				Screens		NONE			Size	N/A	
ACOUSTICS				Video Projector		NONE			Connections	N/A	
Description		TBD		Other		N/A		Type		N/A	
NC Rating		TBD							Size	N/A	
				SECURITY					Connections	N/A	
PLUMBING				Door Access Control (Type)		Thumb turn on single					
Sink Type		TOILET ROOM		Intrusion Detection		NONE		**FURNITURE**			
	Size	18" x 12" x 6"		Video Surveillance		NONE			Size	NONE	
	Material	SOLID SURF		KeyPD/Prox CD/Rex		NONE			Material	NONE	
	Services	HCW		Integration Req'd		NONE		Bench top			
Piped Services (Press/Qual/Vol)				Other		N/A			Material	N/A	
	Gases/Other	NONE									

Appendix C – Training and Public Areas – Break Room / Kitchenette -

ROOM NAME:		**BREAKROOM/KITCHENETTE**				**FUNCTION:**		CONFERENCE			
AREA NUMBER:		**106**									
DEPARTMENT:		**BUILDING AMENITIES AND INFRASTRUCTURE**				**ROOM TYPE:**		CONFERENCE ROOM			
UNIT:		**N/A**									
ADJACENCIES:											
Department		**STAFF, VISITORS AND TRAINING**									
Area Number		**102, 104, 105**									
UTILIZATION				**MECHANICAL**				**ELECTRICAL**			
	Schedule of Use	12 HOURS						Power (Volts)		120	
	Staff Count	32						Lighting (FC)		30	
								Special		NONE	
ARCHITECTURAL								Lighting Motion Sensor		YES	
Floor Material		LVT									
Base		RWB		**COMMUNICATIONS**				**LIGHTING**			
Partition Type		GWB		Voice (Telephone)		YES		Natural Light		YES	
	STC	TBD		Data (Computer)		NONE		Daylight Control		YES	
Ceiling Type		APC		Video		NONE					
	Height	9'-0"		Cable TV		YES		**FIRE PROTECTION**			
Door Type		SINGLE		CCTV		NONE		System Type		WET	
	Vision Panel	YES		Audio		NONE		Smoke or Heat Detectors		TBD	
	Material	WOOD		Sound System		NONE					
	Hardware	TBD		Intercom System (PA) / Paging		YES		**MOVEABLE EQUIPMENT**			
Casework				Clock		YES		Type		REF	
	Material	PL LAM		Other		N/A			Size	N/A	
Bench top									Connections	WATER	
	Material	NONE		**Audio/Visual**				Type		MICROWAVE	
				Screens		NONE			Size	N/A	
ACOUSTICS				Video Projector		NONE			Connections	ELECT	
Description		TBD		Other		N/A		Type		NONE	
NC Rating		TBD							Size	N/A	
				SECURITY					Connections	N/A	
PLUMBING				Door Access Control (Type)		TBD					
Sink Type		DOUBLE		Intrusion Detection		NONE		**FURNITURE**			
	Size	N/A		Video Surveillance		NONE			Size	N/A	
	Material	SS		KeyPD/Prox CD/Rex		TBD			Material	N/A	
	Services	HW, CW		Integration Req'd		TBD		Bench top			
Piped Services (Press/Qual/Vol)				Other		N/A			Material	PL LAM	
	Gases/Other	NONE									

2. Administration

The Administration area of the Crime Laboratory encompasses the offices and conference space to support the management team's staff.

		Total	SF Each	SF Total	Adjacencies	Other Requirements	Security
Administration							
201	Bureau/Lab Director private office	1	144	144			Keyed
202	Administrator private office	1	192	192			Keyed
203	Deputy Administrator office	1	160	160			Keyed
204	Conference room	1	150	150			Keyed
205	General Office Supervisor	2	120	240			Keyed
	Total	6		**886**			

(intentionally left blank)

Appendix C – Administration – Private Offices -

ROOM NAME:		**TYPICAL PRIVATE OFFICE**				**FUNCTION:**		OFFICE			
AREA NUMBER:		201, 202, 203, 205									
DEPARTMENT:		**ADMINISTRATIVE**				**ROOM TYPE:**		PRIVATE OFFICE			
UNIT:		N/A									
ADJACENCIES:		204									
Department											
Area Number											
UTILIZATION								**ELECTRICAL**			
	Schedule of Use	12 HOURS						Power (Volts)		120	
	Staff Count	1 PER						Lighting (FC)		30 AMB	
								Special		TASK	
ARCHITECTURAL								Lighting Motion Sensor		YES	
Floor Material		CARPET									
Base		RWB		**COMMUNICATIONS**				**LIGHTING**			
Partition Type		GWB		Voice (Telephone)		YES		Natural Light		YES	
	STC	TBD		Data (Computer)		YES		Daylight Control		TBD	
Ceiling Type		APC		Video		NONE					
	Height	9'-0"		Cable TV		NONE		**FIRE PROTECTION**			
Door Type		SINGLE		CCTV		NONE		System Type		WET	
	Vision Panel	FULL		Audio		NONE		Smoke or Heat Detectors		TBD	
	Material	WOOD		Sound System		NONE					
	Hardware	TBD		Intercom System (PA) / Paging		YES		**MOVEABLE EQUIPMENT**			
Casework				Clock		YES		Type		NONE	
	Material	WOOD		Other		N/A			Size	N/A	
Bench top									Connections	N/A	
	Material	WOOD		**Audio/Visual**				Type		NONE	
				Screens		NONE			Size	N/A	
ACOUSTICS				Video Projector		NONE			Connections	N/A	
Description		TBD		Other		N/A		Type		NONE	
NC Rating		TBD							Size	N/A	
				SECURITY					Connections	N/A	
PLUMBING				Door Access Control (Type)		KEYED					
Sink Type		NONE		Intrusion Detection		NONE		**FURNITURE**			
	Size	N/A		Video Surveillance		NONE			Size	TBD	
	Material	N/A		KeyPD/Prox CD/Rex		TBD			Material	WOOD	
	Services	N/A		Integration Req'd		TBD		Bench top			
Piped Services (Press/Qual/Vol)				Other		N/A			Material	WOOD	
	Gases/Other	NONE									

Appendix C – Administration – Conference Rooms -

ROOM NAME:		**TYPICAL CONFERENCE ROOM**				**FUNCTION:**		CONFERENCE/LIBRARY			
AREA NUMBER:		**702, 204**									
DEPARTMENT:						**ROOM TYPE:**		CONFERENCE ROOM			
UNIT:											
ADJACENCIES:											
Department											
Area Number											
UTILIZATION				**MECHANICAL**				**ELECTRICAL**			
	Schedule of Use	12 HOURS						Power (Volts)			120
	Staff Count	12						Lighting (FC)			30
								Special			10% DIM
ARCHITECTURAL								Lighting Motion Sensor			YES
Floor Material		CPT									
Base		RWB		**COMMUNICATIONS**				**LIGHTING**			
Partition Type		GWB		Voice (Telephone)		YES		Natural Light			YES
	STC	TBD		Data (Computer)		YES		Daylight Control			YES
Ceiling Type		APC		Video		TBD					
	Height	9'-0"		Cable TV		NONE		**FIRE PROTECTION**			
Door Type		SINGLE		CCTV		NONE		System Type			WET
	Vision Panel	YES		Audio		TBD		Smoke or Heat Detectors			TBD
	Material	WOOD		Sound System		TBD					
	Hardware	TBD		Intercom System (PA) / Paging		YES		**MOVEABLE EQUIPMENT**			
Casework				Clock		YES		Type			NONE
	Material	NONE		Other		N/A			Size		N/A
Bench top									Connections		N/A
	Material	NONE		**Audio/Visual**				Type			NONE
				Screens		YES			Size		N/A
ACOUSTICS				Video Projector		YES			Connections		N/A
Description		TBD		Other		N/A		Type			NONE
NC Rating		TBD							Size		N/A
				SECURITY					Connections		N/A
PLUMBING				Door Access Control (Type)		NONE					
Sink Type		NONE		Intrusion Detection		NONE		**FURNITURE**			
	Size	N/A		Video Surveillance		NONE			Size		TABLE
	Material	N/A		KeyPD/Prox CD/Rex		TBD			Material		WOOD
	Services	N/A		Integration Req'd		TBD		Bench top			
Piped Services (Press/Qual/Vol)				Other		N/A			Material		WOOD
	Gases/Other	NONE									

3. Evidence Receiving and Processing

The Evidence Receiving and Processing area provides direct support to the technical forensic operations of the lab for functions related to receiving, handling, storage and distribution of crime evidence.

		Total	SF Ea	SF Total	Adjacencies	Other Requirements	Security
Evidence receiving and processing							
301	Evidence entry vestibule/lobby	1	100	100	302	Pass-through evidence lockers, see spec, refrigerated, combo sizes	Card Access
302	Evidence Reception/Waiting Area	1	100	100	301, 303	Visitor access, intercom, access from parking	
303	Unisex single restroom	1	75	75	301	Visitor access	
304	Evidence receiving counter	1	50	50		Fixed counter	
305	Evidence Receiving Work area	1	500	500	302, 304, 306, 307	mobile tables, fume hood (ductless), separate from counter	Card Access
306	Work/copy/mailing area	1	150	150	305, 307, 310	Adjacent to evidence counter and office areas, postage meter	
307	Evidence Retrievals & Return Area	1	100	100	305, 308, 309	counter, need packing materials, lockers for analysts adjacent to this area, common (space) area	
308	Centralized Evidence Storage	1	600	600	307, 309	Primarily Controlled Substance Storage, card readers, high density shelves	Card Access
309	Evidence Freezer and Refrigerator Storage	1	100	100	307, 308	Separated from main evidence room	Card Access
310	Evidence Staff Office	6	64	384	302, 304, 305	Adjacent to drop off, visual access to parking and evidence entrance	
	Total	15		2,159			

Appendix C – Evidence Entry Vestibule/Lobby

Vestibule with pass through evidence lockers for submitters. Locker configuration must have various room temperature and refrigerated inserts with key drop doors.

48” door entries to allow for movement of bulk evidence items into centralized evidence storage and laboratory spaces.

Area 301 – Evidence Entry

ROOM NAME:		**EVIDENCE ENTRY VESTIBULE WITH LOCKERS**				**BSL:**		2		
AREA NUMBER:		**301**								
DEPARTMENT:		**EVIDENCE**								
UNIT:		**EVIDENCE**				**ROOM TYPE:**		LAB		
ADJACENCIES:										
Department		**EVIDENCE**								
Area Number		**302, 305**								
UTILIZATION				**MECHANICAL**				**HOODS**		
	Schedule of Use	12		Occupied Temperature				Exhausted Hood (Type)		NONE
	Staff Count	0			Summer Min & Max				Quantity	N/A
ARCHITECTURAL					Winter Min & Max				Size	N/A
Floor Material		SHEET		Occupied Humidity					Sash height	N/A
Base		RWB			Summer Min & Max				Airflow	N/A
Partition Type		GWB			Winter Min & Max				Face Velocity	N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Drop	N/A
Ceiling Type		APC			Summer Min & Max				Piped Services	N/A
	Height	10'0"			Winter Min & Max				Cup sink / Water	N/A
Door Type		LAB		Un-Occupied Humidity					Storage Below	N/A
	Vision Panel	YES			Summer Min & Max				Electrical	N/A
	Seals	NONE			Winter Min & Max			Recirculating Hood (Type)		NONE
	Overhead Door	YES		Light Power Density (watt/sf)		1.4			Quantity	N/A
	Cased Opening	YES		Equip Power Density (watt/sf)		6			Size	N/A
Casework				Pressure Control					Sash height	N/A
	Material	NONE			Directional	NEGATIVE			Airflow	N/A
	Fixed or Mobile	N/A			Active	N/A			Face Velocity	N/A
Storage				Filtration MERV					Pressure Drop	N/A
	Base Cabinets	NONE			Supply	14			Piped Services	N/A
	Wall Cabinets	NONE			Exhaust	N/A			Electrical	N/A
	Glass Fronts	N/A		Air Recurc or Exhaust		Exh		Point Exhaust		NONE
	Swinging or Sliding	N/A		EHS Min Air Changes					Quantity	N/A
	Shelves Wall or Ben	NONE			Occupied	6 ACH			Size	N/A
	Glassware Storage	NONE			Un-Occupied	3 ACH			Airflow	N/A
	Rack Shelving	NONE		EHS Required Min ACH					Pressure Drop	N/A
Bench top				Process Chilled Water		N/A			Snorkel	N/A
	Material	N/A			Flow	N/A		**ELECTRICAL**		
	Color	N/A			Pressure Rating	N/A		110V, 20A, 1 Phase		1 PER LF BENC
	Thickness	N/A			Pressure Drop	N/A		208V, 30A, 1 Phase		NONE

Area 301 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		HAND			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	16"x14"x10"		Heated Process Water				Special Outlet Config		NONE
	Material	METAL			Flow	N/A		Standby Pwr (Generator)		Yes
	Services	HW,CW			Pressure Rating	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Drop	N/A		UPS		YES
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		NONE
	Services	N/A		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate Return	N/A			Foot-candle	30
	Floor Drain	NONE			Max Backpressure	N/A			Dimming / Multi-Level	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Control	NONE
Local Polisher		NONE		Door Access Control (Type)		CARD			Timer Control	NONE
Waste		NONE		Intrusion Detection		YES			Occupancy Sensor	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		YES			Daylighting Sensor	NONE
	Air	NONE		Other		N/A			Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	NONE		Data / Telephone		2		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		Yes		**MONITORING**		
				Intercom System (PA)		NONE			Temperature/ Humidity	NONE
				Paging		NONE			Equipment	NONE

Area 302 Evidence Reception

ROOM NAME:		**EVIDENCE RECEPTION WAITING AREA**				**BSL:**		2			
AREA NUMBER:		**302**									
DEPARTMENT:		**EVIDENCE**									
UNIT:		**EVIDENCE**				**ROOM TYPE:**		LAB SUPPORT SPACE			
ADJACENCIES:											
Department		**EVIDENCE**									
Area Number		**301, 303, 310**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of Us	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE
	Staff Count	8			Summer Min & M	68-72			Quantity		0
ARCHITECTURAL					Winter Min & Ma	68-72			Size		N/A
Floor Material		SHEET		Occupied Humidity					Sash height		N/A
Base		RWB			Summer Min & M	30-50%			Airflow		N/A
Partition Type		GWB			Winter Min & Ma	30-50%			Face Velocity		N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Static Pressu		N/A
Ceiling Type		APC			Summer Min & M	65-72			Piped Service		N/A
	Height	10'0"			Winter Min & Ma	65-72			Cup sink / W		N/A
Door Type		LAB		Un-Occupied Humidity					Storage Belo		N/A
	Vision Panel	YES			Summer Min & M	30-50%			Electrical		N/A
	Seals	YES			Winter Min & Ma	30-50%		Recirculating Hood (Type)			NONE
	Overhead Door	NONE		Light Power Density (watt/sf)		1.4			Quantity		0
	Cased Opening	NONE		Equip Power Density (watt/sf)		6			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	N/A			Directional	NEGATIVE			Airflow		N/A
	Fixed or Mobile	N/A			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Pressure Dro		N/A
	Base Cabinets	NONE			Supply	14			Piped Service		N/A
	Wall Cabinets	NONE			Exhaust	N/A			Electrical		N/A
	Glass Fronts	N/A		Air Recurc or Exhaust		Exh		Point Exhaust			
	Swinging or Slid	N/A		EHS Min Air Changes					Quantity		N/A
	Shelves Wall or	NONE			Occupied	6 ACH			Size		N/A
	Glassware Stor	NONE			Un-Occupied	3 ACH			Airflow		N/A
	Rack Shelving	NONE		EHS Required Min ACH					Pressure Dro		N/A

Area 302 Continued -

Bench top				Process Chilled Water					Snorkel	N/A
	Material	N/A			Flow	N/A		**ELECTRICAL**		
	Color	N/A			Pressure Rating	N/A		110V, 20A, 1 Phase		1 per 2 LF BENCH
	Thickness	N/A			Pressure Drop	N/A		208V, 30A, 1 Phase		NONE
PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type					Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	NONE		Heated Process Water				Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	N/A			Pressure Rating	N/A		Conditioned Power		NONE
Sink Type					Pressure Drop	N/A		UPS		NONE
	Size	NONE			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		YES
	Services	N/A		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Sho	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate Retu	N/A			Foot-candle	50
	Floor Drain	NONE			Max Backpressu	N/A			Dimming / Mu	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type)		CARD			Timer Control	NONE
Waste		NONE		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		Yes			Daylighting S	NONE
	Air	NONE		Other					Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	NONE		Data / Telephone		1		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	NONE

Appendix C – Evidence Receiving Work Area

ROOM NAME:		**EVIDENCE RECEIVING WORK AREA**				**BSL:**		2			
AREA NUMBER:		**305**									
DEPARTMENT:		**EVIDENCE**									
UNIT:		**EVIDENCE**				**ROOM TYPE:**		LAB SUPPORT SPACE			
ADJACENCIES:											
Department		**EVIDENCE**									
Area Number		**302, 304, 306, 307**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)		NONE	
	Staff Count	6			Summer Min	68-74			Quantity	N/A	
ARCHITECTURAL					Winter Min &	68-74			Size	N/A	
Floor Material		SHEET		Occupied Humidity					Sash height	N/A	
Base		RWB			Summer Min	30-50%			Airflow	N/A	
Partition Type		GWB			Winter Min &	30-50%			Face Velocity	N/A	
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Dro	N/A	
Ceiling Type					Summer Min	65-76			Piped Service	N/A	
	Height	10'0"			Winter Min &	65-76			Cup sink / W	N/A	
Door Type		LAB		Un-Occupied Humidity					Storage Belo	N/A	
	Vision Panel	YES			Summer Min	30-50%			Electrical	N/A	
	Seals	N/A			Winter Min &	30-50%		Recirculating Hood (Type)		YES	
	Overhead Door	YES		Light Power Density (watt/s		1.4			Quantity	1	
	Cased Opening	YES		Equip Power Density (watt/		6			Size	4'	
Casework				Pressure Control					Sash height	TBD	
	Material	METAL			Directional	Negative			Airflow	TBD	
	Fixed or Mobile	FIXED/MOBILE			Active	N/A			Face Velocity	TBD	
Storage				Filtration MERV					Pressure Dro	TBD	
	Base Cabinets	YES			Supply	14			Piped Service	NONE	
	Wall Cabinets	NONE			Exhaust	N/A			Electrical	YES	
	Glass Fronts	NONE		Air Recurc or Exhaust		Exh		Point Exhaust			
	Swinging or Sliding	N/A		EHS Min Air Changes					Quantity	N/A	
	Shelves Wall or Bench	N/A			Occupied	6 ACH			Size	N/A	
	Glassware Storage	NONE			Un-Occupied	3 ACH			Airflow	N/A	
	Rack Shelving	YES		EHS Required Min ACH					Pressure Dro	N/A	
Bench top				Process Chilled Water					Snorkel	N/A	
	Material	EPOXY			Flow	N/A		**ELECTRICAL**			
	Color	TBD			Pressure Rat	N/A		110V, 20A, 1 Phase		1 per 2 LF BENC	
	Thickness	1"			Pressure Dro	N/A		208V, 30A, 1 Phase		N/A	

Area 305 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		N/A
Sink Type		HAND			Delta T	N/A		480V, 100A, 3 Phase		N/A
	Size	16"x14"x10"		Heated Process Water				Special Outlet Config		N/A
	Material	METAL			Flow	N/A		Standby Pwr (Generator)		N/A
	Services	HW,CW			Pressure Rat	N/A		Conditioned Power		N/A
Sink Type		NONE			Pressure Dro	N/A		UPS		N/A
	Size	N/A			Supply Temp	N/A		Explosion Proof		N/A
	Material	N/A			Delta T	N/A		GFCI Outlets		YES
	Services	N/A		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	NONE			Pressure	N/A			Type	LED
	Eyewash	YES			Condensate F	N/A			Foot-candle	50
	Floor Drain	NONE			Max Backpre	N/A			Dimming / Mu	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type		CARD			Timer Control	NONE
Waste				Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		YES			Daylighting S	NONE
	Air	NONE		Other		N/A			Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		YES		System Type		PREACTION
	Pure (Zero) Air	NONE		Data / Telephone		12		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		NONE		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	NONE

Appendix C – Work/Copy/Mail Area - Large

Space and electrical for copier and postage meter.

Plastic laminate lower cabinets with shelving above on wall.

Vinyl flooring.

Open area with adjacency to the Evidence Staff office space and evidence receiving.

ROOM NAME:		**WORK/COPY/MAIL AREA**				**BSL:**		2			
AREA NUMBER:		**306**									
DEPARTMENT:		**EVIDENCE**									
UNIT:		**EVIDENCE**				**ROOM TYPE**		OFFICE AREA (OPEN)			
ADJACENCIES:											
Department		**EVIDENCE**									
Area Number		**305, 307, 310**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE
	Staff Count	6			Summer Min & Max				Quantity		N/A
ARCHITECTURAL					Winter Min & Max				Size		N/A
Floor Material		SHEET		Occupied Humidity					Sash height		N/A
Base		RWB			Summer Min & Max				Airflow		N/A
Partition Type		GWB			Winter Min & Max				Face Velocity		N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Drop		N/A
Ceiling Type		APC			Summer Min & Max				Piped Services		N/A
	Height	10'0"			Winter Min & Max				Cup sink / Water		N/A
Door Type		NONE		Un-Occupied Humidity					Storage Below		N/A
	Vision Panel	N/A			Summer Min & Max				Electrical		N/A
	Seals	N/A			Winter Min & Max			Recirculating Hood (Type)			NONE
	Overhead Door	N/A		Light Power Density (watt/sf)		1.4			Quantity		N/A
	Cased Opening	N/A		Equip Power Density (watt/sf)		6			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	METAL			Directional	NEGATIVE			Airflow		N/A
	Fixed or Mobile	IXED/MOBILE			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Pressure Drop		N/A
	Base Cabinets	YES			Supply	14			Piped Services		N/A
	Wall Cabinets	YES			Exhaust	N/A			Electrical		N/A
	Glass Fronts	NONE		Air Recurc or Exhaust		Exh		Point Exhaust			NONE
	Swinging or Sliding	SWINGING		EHS Min Air Changes					Quantity		N/A
	Shelves Wall or Be	NONE			Occupied	6 ACH			Size		N/A
	Glassware Storage	NONE			Un-Occupied	3 ACH			Airflow		N/A
	Rack Shelving	YES		EHS Required Min ACH					Pressure Drop		N/A
Bench top				Process Chilled Water		N/A			Snorkel		N/A
	Material	LAMINANT			Flow	N/A		**ELECTRICAL**			
	Color	TBD			Pressure Rating	N/A		110V, 20A, 1 Phase			1 Per 2 LF BENCH
	Thickness	1"			Pressure Drop	N/A		208V, 30A, 1 Phase			NONE

Area 306 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		NONE			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	N/A		Heated Process Water				Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	N/A			Pressure Rating	N/A		Conditioned Power		NONE
Sink Type		N/A			Pressure Drop	N/A		UPS		NONE
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		YES
	Services	N/A		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Showe	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate Return	N/A			Foot-candle	30
	Floor Drain	NONE			Max Backpressure	N/A			Dimming / Multi-Level	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Control	NONE
Local Polisher		NONE		Door Access Control (Type)		NONE			Timer Control	NONE
Waste		SANITARY		Intrusion Detection		NONE			Occupancy Sensor	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting Sensor	NONE
	Air	NONE		Other		N/A			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	NONE		Data / Telephone		6		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/ Humidity	YES
				Paging		YES			Equipment	NONE

Appendix C – Evidence Receiving and Processing – Evidence Retrieval and Return Area
Intrusion detection and video surveillance.

Pass through evidence lockers for transferring evidence to analysts. Locker configuration must have various room temperature and refrigerated inserts.

ROOM NAME:		**EVIDENCE RETRIEVAL and RETURN AREA**				**BSL:**		2			
AREA NUMBER:		**307**									
DEPARTMENT:		**EVIDENCE**									
UNIT:		**EVIDENCE**				**ROOM TYPE:**		LAB SUPPORT AREA (OPEN)			
ADJACENCIES:											
Department		**EVIDENCE**									
Area Number		**305, 308 & 309**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of U	12 HOURS		Occupied Temperature				Exhausted Hood (Type)		NONE	
	Staff Count	8			Summer Min	68-74			Quantity	0	
ARCHITECTURAL					Winter Min &	68-74			Size	N/A	
Floor Material		SHEET		Occupied Humidity					Sash height	N/A	
Base		RWB			Summer Min	30-50%			Airflow	N/A	
Partition Type		GWB			Winter Min &	30-50%			Face Velocity	N/A	
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Static Pressu	N/A	
Ceiling Type		APC			Summer Min	65-76			Piped Service	N/A	
	Height	10'0"			Winter Min &	65-76			Cup sink / W	N/A	
Door Type		NONE		Un-Occupied Humidity					Storage Belo	N/A	
	Vision Panel	N/A			Summer Min	30-50%			Electrical	N/A	
	Seals	N/A			Winter Min &	30-50%		Recirculating Hood (Type)		NONE	
	Overhead Doo	N/A		Light Power Density (watt/s		1.4			Quantity	0	
	Cased Openi	N/A		Equip Power Density (watt/		6			Size	N/A	
Casework				Pressure Control					Sash height	N/A	
	Material	N/A			Directional	NEGATIVE			Airflow	N/A	
	Fixed or Mob	N/A			Active	N/A			Face Velocity	N/A	
Storage				Filtration MERV					Pressure Dro	N/A	
	Base Cabinet	NONE			Supply	14			Piped Service	N/A	
	Wall Cabinets	NONE			Exhaust	N/A			Electrical	N/A	
	Glass Fronts	N/A		Air Recurc or Exhaust		Exh		Point Exhaust			
	Swinging or S	N/A		EHS Min Air Changes					Quantity	N/A	
	Shelves Wall	NONE			Occupied	6 ACH			Size	N/A	
	Glassware St	NONE			Un-Occupied	3 ACH			Airflow	N/A	
	Rack Shelving	NONE		EHS Required Min ACH					Pressure Dro	N/A	
Bench top				Process Chilled Water					Snorkel	N/A	
	Material	EPOXY			Flow	N/A		**ELECTRICAL**			
	Color	TBD			Pressure Rat	N/A		110V, 20A, 1 Phase		1 per 2 LF BENC	
	Thickness	1"			Pressure Dro	N/A		208V, 30A, 1 Phase		NONE	

Area 307 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type					Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	NONE		Heated Process Water				Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	N/A			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type					Pressure Dro	N/A		UPS		NONE
	Size	NONE			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		YES
	Services	N/A		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency S	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate F	N/A			Foot-candle	50
	Floor Drain	NONE			Max Backpre	N/A			Dimming / Mu	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type		NONE			Timer Control	NONE
Waste		NONE		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	NONE		Other		YES			Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) A	NONE		Data / Telephone		2		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	NONE

Appendix C – Evidence Receiving and Processing – Centralized Evidence Storage
Area 308

Fortified walls and ceiling: concrete block or fortified (reinforced fiber or mesh) walls and fortified ceiling.

High density storage shelves with manual turn handle capable of storing bins 21”x14”x13” (LxWxH)

Intrusion detection and video surveillance.

No plumbing or wet piping should above this room.

Room along one wall for storage of bulk items and cabinets for flammable items and weapons.

48” door access from evidence receiving to centralized storage for movement of bulk evidence items.

ROOM NAME:		**CENTRALIZED EVIDENCE STORAGE**				**BSL:**		2				
AREA NUMBER:		**308**										
DEPARTMENT:		**EVIDENCE**										
UNIT:		**EVIDENCE**				**ROOM TYPE:**		EVIDENCE STORAGE				
ADJACENCIES:												
Department		**EVIDENCE**										
Area Number		**307, 309**										
UTILIZATION				**MECHANICAL**				**HOODS**				
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE	
	Staff Count	6			Summer Min	68-68			Quantity		N/A	
ARCHITECTURAL					Winter Min &	68-68			Size		N/A	
Floor Material		SHEET		Occupied Humidity					Sash height		N/A	
Base		RWB			Summer Min	30-40%			Airflow		N/A	
Partition Type		GWB			Winter Min &	30-40%			Face Velocity		N/A	
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Dro		N/A	
Ceiling Type					Summer Min	68			Piped Service		N/A	
	Height	10'0"			Winter Min &	68			Cup sink / W		N/A	
Door Type		LAB		Un-Occupied Humidity					Storage Belo		N/A	
	Vision Panel	NONE			Summer Min	30-40%			Electrical		N/A	
	Seals	YES			Winter Min &	30-40%		Recirculating Hood (Type)			NONE	
	Overhead Door	YES		Light Power Density (watt/s		1.4			Quantity		N/A	
	Cased Opening	YES		Equip Power Density (watt/		2			Size		N/A	
Casework				Pressure Control					Sash height		N/A	
	Material	METAL			Directional	NEGATIVE			Airflow		N/A	
	Fixed or Mobile	FIXED/MOBILE			Active	N/A			Face Velocity		N/A	
Storage				Filtration MERV					Pressure Dro		N/A	
	Base Cabinets	NONE			Supply	14			Piped Service		N/A	
	Wall Cabinets	NONE			Exhaust	N/A			Electrical		N/A	
	Glass Fronts	NONE		Air Recurc or Exhaust		Exh		Point Exhaust			NONE	
	Swinging or Sliding	N/A		EHS Min Air Changes		8 ACH			Quantity		N/A	
	Shelves Wall or Ben	N/A			Occupied	8 ACH			Size		N/A	
	Glassware Storage	NONE			Un-Occupied	N/A			Airflow		N/A	
	Rack Shelving	YES		EHS Required Min ACH					Pressure Dro		N/A	
	High Density Storag	YES							Snorkel		N/A	

Area 308 Continued

Bench top				Process Chilled Water		N/A				
	Material	EPOXY			Flow	N/A		**ELECTRICAL**		
	Color	TBD			Pressure Rat	N/A		110V, 20A, 1 Phase		2 per LF BENC
	Thickness	1"			Pressure Dro	N/A		208V, 30A, 1 Phase		2
PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		NONE			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	N/A		Heated Process Water		N/A		Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		YES
	Services	N/A			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		N/A			Pressure Dro	N/A		UPS		YES
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		YES
	Services	N/A		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate F	N/A			Foot-candle	50
	Floor Drain	NONE			Max Backpre	N/A			Dimming / Mu	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type		CARD			Timer Control	NONE
Waste				Intrusion Detection		Yes			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		Yes			Daylighting S	NONE
	Air	NONE		Other		N/A			Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		N/A		System Type		PREACTION
	Pure (Zero) Air	NONE		Data / Telephone		3		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	YES

Appendix C – Evidence Receiving and Processing – Freezer and Refrigerator Storage

Intrusion detection and video surveillance

48” Entrance door

ROOM NAME:		**EVIDENCE FREEZER AND REFRIGERATOR STORAGI**				**BSL:**		2				
AREA NUMBER:		**309**										
DEPARTMENT:		**EVIDENCE**										
UNIT:		**EVIDENCE**				**ROOM TYPE:**		EVIDENCE STORAGE				
ADJACENCIES:												
Department		**EVIDENCE**										
Area Number		**307, 308**										
UTILIZATION				**MECHANICAL**				**HOODS**				
	Schedule of U	12 HOURS		Occupied Temperature				Exhausted Hood (Type)		NONE		
	Staff Count	6			Summer Min & Max	68			Quantity	N/A		
ARCHITECTURAL					Winter Min & Max	68			Size	N/A		
Floor Material		SHEET		Occupied Humidity					Sash height	N/A		
Base		RWB			Summer Min & Max				Airflow	N/A		
Partition Type		GWB			Winter Min & Max				Face Velocity	N/A		
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Dro	N/A		
Ceiling Type					Summer Min & Max	68			Piped Service	N/A		
	Height	10'0"			Winter Min & Max	68			Cup sink / W	N/A		
Door Type		LAB		Un-Occupied Humidity					Storage Belo	N/A		
	Vision Panel	NONE			Summer Min & Max				Electrical	N/A		
	Seals	YES			Winter Min & Max			Recirculating Hood (Type)		NONE		
	Overhead Doo	YES		Light Power Density (watt/sf)		1.4			Quantity	N/A		
	Cased Openi	YES		Equip Power Density (watt/sf)		2			Size	N/A		
Casework				Pressure Control					Sash height	N/A		
	Material	METAL			Directional	NEGATIVE			Airflow	N/A		
	Fixed or Mob	IXED/MOBILE			Active	N/A			Face Velocity	N/A		
Storage				Filtration MERV					Pressure Dro	N/A		
	Base Cabinet	NONE			Supply	14			Piped Service	N/A		
	Wall Cabinets	NONE			Exhaust	N/A			Electrical	N/A		
	Glass Fronts	NONE		Air Recurc or Exhaust		Exh		Point Exhaust		NONE		
	Swinging or S	N/A		EHS Min Air Changes					Quantity	N/A		
	Shelves Wall	N/A			Occupied				Size	N/A		
	Glassware St	NONE			Un-Occupied	N/A			Airflow	N/A		
	Rack Shelvin	YES		EHS Required Min ACH					Pressure Dro	N/A		
Bench top				Process Chilled Water		N/A			Snorkel	N/A		
	Material	EPOXY			Flow	N/A		**ELECTRICAL**				
	Color	TBD			Pressure Rating	N/A		110V, 20A, 1 Phase		2 per LF BENC		
	Thickness	1"			Pressure Drop	N/A		208V, 30A, 1 Phase		2		

Area 309 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		NONE			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	N/A		Heated Process Water		N/A		Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		YES
	Services	N/A			Pressure Rating	N/A		Conditioned Power		NONE
Sink Type		N/A			Pressure Drop	N/A		UPS		YES
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		YES
	Services	N/A		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency S	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate Return	N/A			Foot-candle	50
	Floor Drain	NONE			Max Backpressure	N/A			Dimming / Mu	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type)		CARD			Timer Control	NONE
Waste				Intrusion Detection		Yes			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		Yes			Daylighting S	NONE
	Air	NONE		Other		N/A			Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		N/A		System Type		PREACTION
	Pure (Zero) A	NONE		Data / Telephone		3		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	YES

Appendix C – Evidence Receiving and Processing – Evidence Staff Workstations

Plastic laminate cabinets along one wall for storage and printer

Evidence Staff Office – Room 310

General Office space with six 7x7 cubicles

ROOM NAME:	**TYPICAL OPEN OFFICE**			**FUNCTION:**		OFFICE		
AREA NUMBER:	**310, 407,513, AND 608**							
DEPARTMENT:				**ROOM TYPE:**		OPEN OFFICE		
UNIT:								
ADJACENCIES:	Adjacent to their specific unit work areas							
Department								
Area Number								
UTILIZATION			**MECHANICAL**			**ELECTRICAL**		
Schedule of Use	12 HOURS		Heating			Power (Volts)		120
Staff Count	VARIES		Cooling			Lighting (FC)		30
			Ventilation			Special		TASK
ARCHITECTURAL			Other			Lighting Motion Sensor		YES
Floor Material	CARPET							
Base	RWB		**COMMUNICATIONS**			**LIGHTING**		
Partition Type	GWB		Voice (Telephone)	YES		Natural Light		YES
STC	TBD		Data (Computer)	YES		Daylight Control		TBD
Ceiling Type	APC		Video	NONE				
Height	9'-0"		Cable TV	NONE		**FIRE PROTECTION**		
Door Type	SINGLE		CCTV	NONE		System Type		WET
Vision Panel	FULL		Audio	NONE		Smoke or Heat Detectors		TBD
Material	WOOD		Sound System	NONE				
Hardware	TBD		Intercom System (PA) / Paging	YES		**MOVEABLE EQUIPMENT**		
Casework			Clock	YES		Type		NONE
Material	PLAM		Other	N/A			Size	N/A
Bench top							Connections	N/A
Material	PLAM		**Audio/Visual**			Type		NONE
			Screens	NONE			Size	N/A
ACOUSTICS			Video Projector	NONE			Connections	N/A
Description	TBD		Other	N/A		Type		NONE
NC Rating	TBD						Size	N/A
			SECURITY				Connections	N/A
PLUMBING			Door Access Control (Type)	CR				
Sink Type	NONE		Intrusion Detection	NONE		**FURNITURE**		
Size	N/A		Video Surveillance	NONE			Size	VARIES
Material	N/A		KeyPD/Prox CD/Rex	TBD			Material	PLAM
Services	N/A		Integration Req'd	TBD		Bench top		
Piped Services (Press/Qual/Vol)			Other	N/A			Material	PLAM
Gases/Other	NONE							

4. Chemistry

The Chemistry Section is comprised of the Controlled Substances Unit and Toxicology Unit, which utilize analytical instruments for the examination of evidence.

Controlled Substances Unit (CSU)

The Controlled Substances Unit analyses evidence submitted by law enforcement agencies to determine if there are any controlled substances present. The primary instruments used are the gas chromatograph with flame ionization detector (GC), the gas chromatograph with mass spectrometry detector (GCMS), and the Fourier Transform Infrared Spectrometer (FTIR). The Controlled Substances Unit may transition to Liquid Chromatography with dual Mass Spectrometry (LCMSMS) detectors.

Toxicology Unit (TXU)

The Toxicology Unit primarily analyzes biological samples for the presence of drugs. The Toxicology Unit primarily uses the GC, GCMS, LCMSMS and QTOF's for the analyses they perform.

Many of the instruments mentioned above need access to reagent grade compressed gases to work properly. These gases include nitrogen, hydrogen, helium, argon, and highly pure air (aka Zero Air). Not all the instruments use reagent gases; those that do use reagent gases do not necessarily need all five gases. These gases can be taken from compressed gas cylinders or they can be produced on site using centralized gas generators plumbed from the instrumentation rooms. Because the Units use similar instruments and require the same types of gases, it is more efficient to have the instrumentation rooms adjacent to the gas control center (Room 711), which can produce and/or distribute the gases to the instrumentation via plumbing.

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		Total	SF	SF Total	Adjacencies	Other	Security
Chemistry							
401	Controlled Substance Sample Prep	1	1800	1800	402, 403		Card Access
402	Controlled Substance Reagent Prep/Glass Washing Lab	1	120	120	401, 403		Card Access
403	Controlled Substance Instrument Room	1	900	900	401, 402, 404, 407	Plumbed Gasses from Room 711	Card Access
404	Toxicology Instrument Room	1	900	900	403, 405, 406, 407	Plumbed Gasses from Room 711	Card Access
405	Toxicology Reagent Prep/Glass Washing Lab	1	230	230	406		Card Access
406	Toxicology Extraction Lab	1	1000	1000	404, 405		Card Access
407	Chemistry Staff Work Stations	11	64	704			Keyed
		Total		5,654			

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Appendix C – Chemistry – CSU Sample Preparation Lab

Each work bench (7) space should be equipped with a fume hood and locker for evidence storage.

Mobile workbench for bulk cases.

ROOM NAME:		**CSU SAMPLE PREPARATION LAB**					**BSL:**	2					
AREA NUMBER:		**401**											
DEPARTMENT:		**CHEMISTRY**											
UNIT:		**CONTROLLED SUBSTANCES**					**ROOM TYPE:**	LAB					
ADJACENCIES:													
Department		**CHEMISTRY**											
Area Number		**402, 403**											
UTILIZATION				**MECHANICAL**					**HOODS**				
	Schedule of Use	12 HOURS		Occupied Temperature					Exhausted Hood (Type)			VAV	
	Staff Count	7			Summer Min & Max					Quantity		7	
ARCHITECTURAL					Winter Min & Max					Size		6'-0"	
Floor Material		EPOXY		Occupied Humidity						Sash height		18	
Base		INTEGRAL			Summer Min & Max					Airflow		100 FPM	
Partition Type		GWB			Winter Min & Max					Face Velocity		80-120 FPM	
	Paint	SEMI-GLOSS		Un-Occupied Temperature						Static Pressu		<0.1	
Ceiling Type		APC			Summer Min & Max					Piped Service		AIR	
	Height	10'-0"			Winter Min & Max					Cup sink / W		YES/CW (2)	
Door Type		LAB		Un-Occupied Humidity						Storage Belo		ACID/FLAM	
	Vision Panel	YES			Summer Min & Max					Electrical		YES	
	Seals	N/A			Winter Min & Max				Recirculating Hood (Type)			NONE	
	Overhead Door	N/A		Light Power Density (watt/s			1.4			Quantity		N/A	
	Cased Opening	N/A		Equip Power Density (watt/			6			Size		N/A	
Casework				Pressure Control						Sash height		N/A	
	Material	METAL			Directional		NEGATIVE			Airflow		N/A	
	Fixed or Mobile	FIXED/MOBILE			Active		N/A			Face Velocity		N/A	
Storage				Filtration MERV						Pressure Dro		N/A	
	Base Cabinets	YES			Supply		14			Piped Service		N/A	
	Wall Cabinets	YES			Exhaust		N/A			Electrical		N/A	
	Glass Fronts	Yes		Air Recurc or Exhaust			Exh		Point Exhaust				
	Swinging or Sliding	SLIDING		EHS Min Air Changes						Quantity		1	
	Shelves Wall or Bench	WALL			Occupied					Size		10"	
	Glassware Storage	YES			Un-Occupied					Airflow		TBD	
	Rack Shelving	NONE		EHS Required Min ACH						Pressure Dro		TBD	
Bench top				Process Chilled Water						Snorkel		YES	
	Material	EPOXY			Flow		N/A		**ELECTRICAL**				
	Color	TBD			Pressure Rat		N/A		110V, 20A, 1 Phase			1 per 2 LF BEN(	
	Thickness	1"			Pressure Dro		N/A		208V, 30A, 1 Phase			NONE	

Area 401 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		LAB			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	18"x14"x12"		Heated Process Water				Special Outlet Config		NONE
	Material	EPOXY			Flow	N/A		Standby Pwr (Generator)		YES
	Services	CW,HW, TYPE2			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		HAND			Pressure Dro	N/A		UPS		YES
	Size	16"x4"x10"			Supply Temp	N/A		Explosion Proof		NONE
	Material	EPOXY			Delta T	N/A		GFCI Outlets		YES
	Services	CW/HW		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	YES			Pressure	N/A			Type	LED
	Eyewash	YES			Condensate F	N/A			Foot-candle	00 (50+TASK
	Floor Drain	YES			Max Backpre	N/A			Dimming / Mu	10% DIM
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type		CARD			Timer Control	NONE
Waste		ACID		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	YES		Other		NONE			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	YES		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	N/A		Data / Telephone		30		Smoke or Heat Detectors		VESDA
	Other	N/A		Wall Mounted Telephone		NONE		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	YES

Appendix C – Chemistry – CS Reagent Preparation & Glassware Washing

ROOM NAME:		**CS REAGENT PREPARATION & GLASSWARE W/**				**BSL:**		2			
AREA NUMBER:		**402**									
DEPARTMENT:		**CHEMISTRY**									
UNIT:		**CONTROLLED SUBSTANCES**				**ROOM TYPE:**		LAB			
ADJACENCIES:											
Department		**CHEMISTRY**									
Area Number		**401, 403**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			VAV
	Staff Count	1			Summer Min & Max				Quantity		1
ARCHITECTURAL					Winter Min & Max				Size		16'-0"
Floor Material		EPOXY		Occupied Humidity					Sash height		18"
Base		INTEGRAL			Summer Min & Max				Airflow		100 FPM
Partition Type		GWB			Winter Min & Max				Face Velocity		80-120 FPM
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Static Pressure		<0.1
Ceiling Type		APC			Summer Min & Max				Piped Services		NONE
	Height	10'-0"			Winter Min & Max				Cup sink / Water		YES/CW
Door Type		LAB		Un-Occupied Humidity					Storage Below		ACID/FLAM
	Vision Panel	YES			Summer Min & Max				Electrical		YES
	Seals	N/A			Winter Min & Max			Recirculating Hood (Type)			NONE
	Overhead Door	N/A		Light Power Density (watt/sf)		1.4			Quantity		N/A
	Cased Opening	N/A		Equip Power Density (watt/sf)		12			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	METAL			Directional	NEGATIVE			Airflow		N/A
	Fixed or Mobile	FIXED			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Pressure Drop		N/A
	Base Cabinets	YES			Supply	14			Piped Services		N/A
	Wall Cabinets	YES			Exhaust	N/A			Electrical		N/A
	Glass Fronts	YES		Air Recurc or Exhaust		EXH		Point Exhaust			
	Swinging or Sliding	SLIDING		EHS Min Air Changes					Quantity		N/A
	Shelves Wall or Bench	WALL			Occupied	8 ACH			Size		N/A
	Glassware Storage	YES			Un-Occupied	3 ACH			Airflow		N/A
	Rack Shelving	NONE		EHS Required Min ACH					Pressure Drop		N/A
Bench top				Process Chilled Water		N/A			Snorkel		N/A
	Material	EPOXY			Flow	N/A		**ELECTRICAL**			
	Color	TBD			Pressure Rating	N/A		110V, 20A, 1 Phase			1 per 2 LF BENC
	Thickness	1"			Pressure Drop	N/A		208V, 30A, 1 Phase			NONE

Area 402 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		LAB			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	18"x14"x12"		Heated Process Water				Special Outlet Config		NONE
	Material	EPOXY			Flow	N/A		Standby Pwr (Generator)		YES
	Services	W,HW, TYPE2			Pressure Rating	N/A		Conditioned Power		NONE
Sink Type		SCULLERY			Pressure Drop	N/A		UPS		YES
	Size	TBD			Supply Temp	N/A		Explosion Proof		NONE
	Material	SS			Delta T	N/A		GFCI Outlets		YES
	Services	W/CW/TYPE2		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	YES			Pressure	N/A			Type	LED
	Eyewash	YES			Condensate Return	N/A			Foot-candle	00 (50+ TASK
	Floor Drain	YES			Max Backpressure	N/A			Dimming / Multi-Level	10% DIM
Pure Water Type		TYPE 2		**SECURITY**					Zoning Control	NONE
Local Polisher		NONE		Door Access Control (Type)		CARD			Timer Control	NONE
Waste		ACID		Intrusion Detection		NONE			Occupancy Sensor	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting Sensor	NONE
	Air	YES		Other		NONE			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	YES		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	NONE		Data / Telephone		2		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/ Humidity	YES
				Paging		YES			Equipment	YES

Appendix C – Chemistry – Instrument Room Controlled Substances

Controlled Substances Unit and Toxicology Unit Instrumentation rooms may be adjacent to accommodate plumbing for gases. The rooms must be divided to prevent contamination between workspaces.

Snorkel hoods above instrument vents.

ROOM NAME:		**INSTRUMENT ROOM-CONTROLLED SUB**				**BSL:**	2			
AREA NUMBER:		**403**								
DEPARTMENT:		**CHEMISTRY**								
UNIT:		**Controlled Substances**				**ROOM TYPE:**	LAB			
ADJACENCIES:										
DEPARTMENT:		**CS**								
AREA NUMBER:		**401, 402, 404, 407**								
UTILIZATION				**MECHANICAL**				**HOODS**		
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)		NONE
	Staff Count	11			Summer Min & Max				Quantity	N/A
ARCHITECTURAL					Winter Min & Max				Size	N/A
Floor Material		EPOXY		Occupied Humidity					Sash height	N/A
Base		INTEGRAL			Summer Min & Max				Airflow	N/A
Partition Type		GWB			Winter Min & Max				Face Velocity	N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Dro	N/A
Ceiling Type		APC			Summer Min & Max				Piped Service	N/A
	Height	10'-0"			Winter Min & Max				Cup sink / W	N/A
Door Type		LAB		Un-Occupied Humidity					Storage Belo	N/A
	Vision Panel	YES			Summer Min & Max				Electrical	N/A
	Seals	N/A			Winter Min & Max			Recirculating Hood (Type)		NONE
	Overhead Door	N/A		Light Power Density (watt/sf)		1.4			Quantity	N/A
	Cased Opening	N/A		Equip Power Density (watt/sf)		10			Size	N/A
Casework				Pressure Control					Sash height	N/A
	Material	METAL			Directional	NEGATIVE			Airflow	N/A
	Fixed or Mobile	MOBILE/FIXED			Active	N/A			Face Velocity	N/A
Storage				Filtration MERV					Pressure Dro	N/A
	Base Cabinets	YES			Supply	14			Piped Service	N/A
	Wall Cabinets	YES			Exhaust	N/A			Electrical	N/A
	Glass Fronts	NONE		Air Recurc or Exhaust		Exh		Point Exhaust for Instruments:		
	Swinging or Sliding	SWINGING		EHS Min Air Changes					Quantity	15
	Shelves Wall or Ben	WALL			Occupied	6 ACH			Size	10"
	Glassware Storage	NONE			Un-Occupied	3 ACH			Airflow	TBD
	Rack Shelving	NONE		EHS Required Min ACH					Pressure Dro	TBD
Bench top				Process Chilled Water		N/A			Snorkel	15
	Material	EPOXY			Flow	N/A		**ELECTRICAL**		
	Color	TBD			Pressure Rating	N/A		110V, 20A, 1 Phase		4 PER 2 LF BEN
	Thickness	1"			Pressure Drop	N/A		208V, 30A, 1 Phase		8

Area 403 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		NONE			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size			Heated Process Water				Special Outlet Config		YES
	Material				Flow	N/A		Standby Pwr (Generator)		YES
	Services				Pressure Rating	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Drop	N/A		UPS		YES
	Size				Supply Temp	N/A		Explosion Proof		NONE
	Material				Delta T	N/A		GFCI Outlets		YES
	Services			Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate Return	N/A			Foot-candle	00 (50+TASK
	Floor Drain	NONE			Max Backpressure	N/A			Dimming / Mu	10% DIM
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type)		CARD			Timer Control	NONE
Waste		SANITARY		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	Yes		Other		NONE			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	YES		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	Yes		Data / Telephone		90		Smoke or Heat Detectors		VESDA
	Other	HE,H		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	YES

Appendix C – Chemistry –Instrument Room - Toxicology

Controlled Substances Unit and Toxicology Unit Instrumentation rooms may be adjacent to accommodate plumbing for gases. The rooms must be divided to prevent contamination between workspaces.

Snorkel hoods above instrument vents.

ROOM NAME:		**INSTRUMENT ROOM-TOXICOLOGY**				**BSL:**		2		
AREA NUMBER:		**404**								
DEPARTMENT:		**CHEMISTRY**								
UNIT:		**TOXICOLOGY**				**ROOM TYPE:**		LAB		
ADJACENCIES:										
DEPARTMENT:		**TX**								
AREA NUMBER:		**403, 405, 406, 407**								
UTILIZATION				**MECHANICAL**				**HOODS**		
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)		NONE
	Staff Count	11			Summer Min & Max				Quantity	N/A
ARCHITECTURAL					Winter Min & Max				Size	N/A
Floor Material		EPOXY		Occupied Humidity					Sash height	N/A
Base		INTEGRAL			Summer Min & Max				Airflow	N/A
Partition Type		GWB			Winter Min & Max				Face Velocity	N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Dro	N/A
Ceiling Type		APC			Summer Min & Max				Piped Service	N/A
	Height	10'-0"			Winter Min & Max				Cup sink / W	N/A
Door Type		LAB		Un-Occupied Humidity					Storage Belo	N/A
	Vision Panel	YES			Summer Min & Max				Electrical	N/A
	Seals	N/A			Winter Min & Max			Recirculating Hood (Type)		NONE
	Overhead Door	N/A		Light Power Density (watt/sf)		1.4			Quantity	N/A
	Cased Opening	N/A		Equip Power Density (watt/sf)		10			Size	N/A
Casework				Pressure Control					Sash height	N/A
	Material	METAL			Directional	NEGATIVE			Airflow	N/A
	Fixed or Mobile	MOBILE/FIXED			Active	N/A			Face Velocity	N/A
Storage				Filtration MERV					Pressure Dro	N/A
	Base Cabinets	YES			Supply	14			Piped Service	N/A
	Wall Cabinets	YES			Exhaust	N/A			Electrical	N/A
	Glass Fronts	NONE		Air Recurc or Exhaust		Exh		Point Exhaust for Instruments:		
	Swinging or Sliding	SWINGING		EHS Min Air Changes					Quantity	4
	Shelves Wall or Ben	WALL			Occupied	6 ACH			Size	10"
	Glassware Storage	NONE			Un-Occupied	3 ACH			Airflow	TBD
	Rack Shelving	NONE		EHS Required Min ACH					Pressure Dro	TBD
Bench top				Process Chilled Water		N/A			Snorkel	8
	Material	EPOXY			Flow	N/A		**ELECTRICAL**		
	Color	TBD			Pressure Rating	N/A		110V, 20A, 1 Phase		4 PER 2 LF BEN
	Thickness	1"			Pressure Drop	N/A		208V, 30A, 1 Phase		8

Area 404 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		NONE			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size			Heated Process Water				Special Outlet Config		YES
	Material				Flow	N/A		Standby Pwr (Generator)		YES
	Services				Pressure Rating	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Drop	N/A		UPS		YES
	Size				Supply Temp	N/A		Explosion Proof		NONE
	Material				Delta T	N/A		GFCI Outlets		YES
	Services			Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate Return	N/A			Foot-candle	00 (50+TASK
	Floor Drain	NONE			Max Backpressure	N/A			Dimming / Mu	10% DIM
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type)		CARD			Timer Control	NONE
Waste		SANITARY		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	Yes		Other		NONE			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	YES		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	Yes		Data / Telephone		90		Smoke or Heat Detectors		VESDA
	Other	HE,H		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	YES

Appendix C – Chemistry – TX Reagent Preparation & Glassware Washing

ROOM NAME:		**TX REAGENT PREPARATION & GLASSWARE V**				**BSL:**		2			
AREA NUMBER:		**405**									
DEPARTMENT:		**CHEMISTRY**									
UNIT:		**TOXICOLOGY**				**ROOM TYPE**		LAB			
ADJACENCIES:											
Department		**CHEMISTRY**									
Area Number		**406**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of U	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			VAV
	Staff Count	1			Summer Min & Max				Quantity		1
ARCHITECTURAL					Winter Min & Max				Size		6'-0"
Floor Material		EPOXY		Occupied Humidity					Sash height		18"
Base		INTEGRAL			Summer Min & Max				Airflow		100 FPM
Partition Type		GWB			Winter Min & Max				Face Velocity		80-120 FPM
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Static Pressu		<0.1
Ceiling Type		APC			Summer Min & Max				Piped Service		NONE
	Height	10'-0"			Winter Min & Max				Cup sink / W		YES/CW
Door Type		LAB		Un-Occupied Humidity					Storage Belo		ACID/FLAM
	Vision Panel	YES			Summer Min & Max				Electrical		YES
	Seals	N/A			Winter Min & Max			Recirculating Hood (Type)			NONE
	Overhead Doo	N/A		Light Power Density (watt/sf)		1.4			Quantity		N/A
	Cased Openi	N/A		Equip Power Density (watt/sf)		12			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	METAL			Directional	NEGATIVE			Airflow		N/A
	Fixed or Mob	FIXED			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Pressure Dro		N/A
	Base Cabinet	YES			Supply	14			Piped Service		N/A
	Wall Cabinets	YES			Exhaust	N/A			Electrical		N/A
	Glass Fronts	YES		Air Recurc or Exhaust		EXH		Point Exhaust			
	Swinging or S	SLIDING		EHS Min Air Changes					Quantity		N/A
	Shelves Wall	WALL			Occupied	8 ACH			Size		N/A
	Glassware St	YES			Un-Occupied	3 ACH			Airflow		N/A
	Rack Shelvin	NONE		EHS Required Min ACH					Pressure Dro		N/A
Bench top				Process Chilled Water		N/A			Snorkel		N/A
	Material	EPOXY			Flow	N/A		**ELECTRICAL**			
	Color	TBD			Pressure Rating	N/A		110V, 20A, 1 Phase			1 per 2 LF BENC
	Thickness	1"			Pressure Drop	N/A		208V, 30A, 1 Phase			NONE

Area 405 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		LAB			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	18"x14"x12"		Heated Process Water				Special Outlet Config		NONE
	Material	EPOXY			Flow	N/A		Standby Pwr (Generator)		YES
	Services	W,HW, TYPE2			Pressure Rating	N/A		Conditioned Power		NONE
Sink Type		SCULLERY			Pressure Drop	N/A		UPS		YES
	Size	TBD			Supply Temp	N/A		Explosion Proof		NONE
	Material	SS			Delta T	N/A		GFCI Outlets		YES
	Services	W/CW/TYPE2		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency S	YES			Pressure	N/A			Type	LED
	Eyewash	YES			Condensate Retur	N/A			Foot-candle	00 (50+ TASK
	Floor Drain	YES			Max Backpressure	N/A			Dimming / Mu	10% DIM
Pure Water Type		TYPE 2		**SECURITY**					Zoning Contro	NONE
Local Polisher		YES		Door Access Control (Type)		CARD			Timer Control	NONE
Waste		ACID		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	NONE		Other		NONE			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) A	NONE		Data / Telephone		2		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	YES

Appendix C – Chemistry – TXU Extraction Lab

ROOM NAME:		**TXU EXTRACTION LAB**				**BSL:**	2				
AREA NUMBER:		**406**									
DEPARTMENT:		**CHEMISTRY**									
UNIT:		**TOXICOLOGY**				**ROOM TYPE**	LAB				
ADJACENCIES:											
Department		**CHEMISTRY**									
Area Number		**404, 405**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			VAV
	Staff Count	4			Summer Min & Max				Quantity		4
ARCHITECTURAL					Winter Min & Max				Size		5'
Floor Material		EPOXY		Occupied Humidity					Sash height		18"
Base		INTEGRAL			Summer Min & Max				Airflow		100 FPM
Partition Type		GWB			Winter Min & Max				Face Velocity		80-120 FPM
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Static Pressure		<0.1
Ceiling Type		APC			Summer Min & Max				Piped Services		N2/AIR
	Height	10'-0"			Winter Min & Max				Cup sink / Water		YES/CW
Door Type		LAB		Un-Occupied Humidity					Storage Below		CID/BASE/FLA
	Vision Panel	YES			Summer Min & Max				Electrical		YES
	Seals	N/A			Winter Min & Max			Recirculating Hood (Type)			BSC
	Overhead Door	N/A		Light Power Density (watt/s		1.4			Quantity		4
	Cased Opening	N/A		Equip Power Density (watt/		6			Size		4' (2)/6' (2)
Casework				Pressure Control					Sash height		TBD
	Material	METAL			Directional	Negative			Airflow		TBD
	Fixed or Mobile	FIXED			Active	N/A			Face Velocity		TBD
Storage				Filtration MERV					Pressure Drop		TBD
	Base Cabinets	YES			Supply	14			Piped Services		NONE
	Wall Cabinets	YES			Exhaust	N/A			Electrical		YES
	Glass Fronts	YES		Air Recurc or Exhaust		Exh		Point Exhaust			
	Swinging or Sliding	SLIDING		EHS Min Air Changes					Quantity		N/A
	Shelves Wall or Bench	WALL			Occupied	6 ACH			Size		N/A
	Glassware Storage	YES			Un-Occupied	3 ACH			Airflow		N/A
	Rack Shelving	NONE		EHS Required Min ACH					Pressure Drop		N/A
Bench top				Process Chilled Water					Snorkel		N/A
	Material	EPOXY			Flow	N/A		**ELECTRICAL**			
	Color	TBD			Pressure Rat	N/A		110V, 20A, 1 Phase			1 PER 2 LF BEN
	Thickness	1"			Pressure Dro	N/A		208V, 30A, 1 Phase			NONE

Area 406 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		LAB(X)			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	18"x14"x12"		Heated Process Water				Special Outlet Config		NONE
	Material	EPOXY			Flow	N/A		Standby Pwr (Generator)		YES
	Services	W,HW, TYPE2			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		HAND(X)			Pressure Dro	N/A		UPS		YES
	Size	16"x4"x10"			Supply Temp	N/A		Explosion Proof		NONE
	Material	EPOXY			Delta T	N/A		GFCI Outlets		YES
	Services	CW/HW		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	YES			Pressure	N/A			Type	LED
	Eyewash	YES			Condensate F	N/A			Foot-candle	00 (50+ TASK
	Floor Drain	YES			Max Backpre	N/A			Dimming / Multi-Leve	10% DIM
Pure Water Type		TYPE1		**SECURITY**					Zoning Control	NONE
Local Polisher		YES		Door Access Control (Type		CARD			Timer Control	NONE
Waste		ACID		Intrusion Detection		NONE			Occupancy Sensor	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting Sensor	NONE
	Air	NONE		Other		NONE			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	N2		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	NONE		Data / Telephone		12		Smoke or Heat Detectors		VESDA
	Other	N/A		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/ Humidi	YES
				Paging		YES			Equipment	YES

Room 407: Chemistry Staff Workstations – No Data Sheet Intentional

Chemistry Office to accommodate 11 staff members.
Plastic laminate cabinets along one wall for storage and printer.

5. Criminalistics

The Criminalistics Section is comprised of 1) Firearms and Toolmark; 2) Latent Print and Footwear and 3) Imaging Units

Firearms and Toolmark Unit

The Firearms and Toolmark Unit conducts examinations of firearms and firearms-related evidence such as fired cartridge cases and bullets submitted to the Crime Lab for analysis. In addition, firearms are inspected for functionality and are test fired within the secure firearms range. Examiners also perform serial number restorations, toolmark examinations and distance determinations. The Firearms and Toolmark Unit is also tasked with receiving, processing and mechanical destruction of firearms for the State of Wisconsin.

Latent Print and Footwear

The Latent Print and Footwear Unit Analyzes evidence submitted by law enforcement agencies. The unit uses various physical and chemical processes to develop the friction ridge detail. The developed friction ridge detail is documented using photography, oftentimes with help from the Imaging Unit. The friction ridge detail that is developed or submitted, in the form of lifts, is analyzed and compared to known standards. Automated databases such as MBIS are also utilized to find known standards for comparisons. In addition, the unit analyzes footwear impressions submitted by law enforcement and compares these to impressions to known footwear standards.

Imaging Unit

The Imaging Unit provides Photographic and Video Imaging services to law enforcement agencies and other officials involved in the criminal justice system. Items of physical evidence can be digitally recorded, thus maintaining a true and accurate record. The unit utilizes specialized lighting techniques, high-resolution imaging equipment, and computer applications to record and recover information that is often not visible to the human eye. The unit will examine and enhance images and videos, recovering details from a variety of submission types. In addition, the unit analyzes, duplicates, produces and enhances images from various forms of media, VHS tapes, film, DVD recordings and many other image capturing devices. Specialized equipment is used for Ultraviolet and Infrared Photography. The Imaging Unit provides support for all disciplines in the Crime Laboratory.

		Total	SF Ea	SF Total	Adjacencies	Other Requirements	Security
Criminalistics							
501	Latent print/footwear processing lab	1	1,000	1,000	502, 503, 504, 513		Card Access
502	Laser rooms	2	170	340	501		Card Access
503	Criminalistics evidence holding	1	160	160	501, 504		Card Access
504	Imaging studio	1	700	700	503, 505, 513	Increased ceiling height of 14'	Card Access
505	Imaging storage	1	100	100	505	Increased ceiling height	
506	Firearms lab	1	550	550	507, 508, 509, 510, 511, 512, 513		Card Access
507	Firearms evidence holding	1	100	100	506		Card Access
508	Firearms vault	1	300	300	506	Reference units, high density shelving	Card Access
509	Ammunition storage	1	82	82	511		Card Access
510	SNR determination room	1	250	250	506		Card Access
511	Firing range	1	425	425	506, 509	DOJ external freestanding unit or constructed within the facility	Card Access
512	Firearms vestibule	1	70	70	506	Bio/lab entry	Card Access
513	Criminalistics Staff Workstations	8	64	512	501, 504, 506		
	Total:			**4,589**			

Appendix C – Criminalistics – Latent Prints and Footwear (LP/FW) Lab

ROOM NAME:	**LP/FW LAB**	**BSL:**	2
AREA NUMBER:	**501**		
DEPARTMENT:	**Criminalistics**		
UNIT:	**LP/FW**	**ROOM TYPE:**	LAB
ADJACENCIES:			
Department	**LP/FW & IMAGING**		
Area Number	**502, 503, 504, 513**		

UTILIZATION			**MECHANICAL**			**HOODS**		
	Schedule of Use	12 HOURS	Occupied Temperature			Exhausted Hood (Type)		VAV
	Staff Count	4		Summer Min & Max			Quantity	4
ARCHITECTURAL				Winter Min & Max			Size	6'
Floor Material		EPOXY	Occupied Humidity				Sash height	18"
Base		INTEGRAL		Summer Min & Max			Airflow	100 FPM
Partition Type		GWB		Winter Min & Max			Face Velocit	80-120 FPM
	Paint	SEMI-GLOSS	Un-Occupied Temperature				Static Pressu	<0.1
Ceiling Type		APC		Summer Min & Max			Piped Servic	CA
	Height	10'-0"		Winter Min & Max			Cup sink / W	YES/CW
Door Type		LAB	Un-Occupied Humidity				Storage Belo	TBD
	Vision Panel	YES		Summer Min & Max			Electrical	YES
	Seals	N/A		Winter Min & Max		Recirculating Hood (Type)		YES
	Overhead Door	N/A	Light Pow er Density (w att		1.4		Quantity	1
	Cased Opening	YES	Equip Pow er Density (w at		6		Size	6'
Casew ork			Pressure Control				Sash height	TBD
	Material	METAL		Directional	NEGATIVE		Airflow	TBD
	Fixed or Mobile	FIXED		Active	N/A		Face Velocit	TBD
Storage			Filtration MERV				Static Pressu	TBD
	Base Cabinets	YES		Supply	14		Piped Servic	N/A
	Wall Cabinets	YES		Exhaust	N/A		Electrical	YES
	Glass Fronts	YES	Air Recurc or Exhaust		Exh	Point Exhaust		NONE
	Sw inging or Sliding	SWINGING	EHS Min Air Changes				Quantity	N/A
	Shelves Wall or Bench	NONE		Occupied	6 ACH		Size	N/A
	Glassw are Storage	YES		Un-Occupied	3 ACH		Airflow	N/A
	Rack Shelving	NONE	EHS Required Min ACH		N/A		Pressure Dro	N/A
Bench top			Process Chilled Water				Snorkel	N/A
	Material	EPOXY		Flow	N/A	**ELECTRICAL**		
	Color	TBD		Pressure Ra	N/A	110V, 20A, 1 Phase		1 PER 2 LF BEN
	Thickness	1"		Pressure Dro	N/A	208V, 30A, 1 Phase		4

Area 501 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		LAB			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	18"x14"x12"		Heated Process Water				Special Outlet Config		YES
	Material	EPOXY			Flow	N/A		Standby Pwr (Generator)		YES
	Services	CW,HW,TYPE2			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		HAND			Pressure Dro	N/A		UPS		YES
	Size	16"x14"x10"			Supply Temp	N/A		Explosion Proof		NONE
	Material	EPOXY			Delta T	N/A		GFCI Outlets		YES
	Services	CW/HW		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	YES			Pressure	N/A			Type	LED
	Eyewash	YES			Condensate F	N/A			Foot-candle	00 (50+TASK
	Floor Drain	YES			Max Backpre	N/A			Dimming / Mu	10% DIM
Pure Water Type		TYPE 1		**SECURITY**					Zoning Contro	NONE
Local Polisher		YES		Door Access Control (Type		CARD			Timer Control	NONE
Waste		ACID		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	YES		Other		NONE			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	NONE		Data / Telephone		8		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		NONE		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	NONE

Appendix C – Criminalistics: Laser Room 1 and 2, Room 502

5’ section of countertop to be height adjustable for camera station
Lower cabinets (29”D x 36” H) to be dark chemical resistant stone and combination of drawers and pull out shelves.
One entire wall of black rubber self-healing tack board
Additional cooling for room
Room “In Use” light to be mounted outside of room

ROOM NAME:		**LASER ROOMS 1 AND 2**				**BSL:**		2			
AREA NUMBER:		**502**									
DEPARTMENT:		**Criminalistics**									
UNIT:		**LP/FW**				**ROOM TYPE:**		LAB			
ADJACENCIES:											
Department		**LP/FW**									
Area Number		**501**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE
	Staff Count	1			Summer Min & Max				Quantity		N/A
ARCHITECTURAL					Winter Min & Max				Size		N/A
Floor Material		EPOXY		Occupied Humidity					Sash height		N/A
Base		INTEGRAL			Summer Min & Max				Airflow		N/A
Partition Type		GWB			Winter Min & Max				Face Velocity		N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Dro		N/A
Ceiling Type		APC			Summer Min & Max				Piped Service		N/A
	Height	10'-0"			Winter Min & Max				Cup sink / W		N/A
Door Type		LAB		Un-Occupied Humidity					Storage Belo		N/A
	Vision Panel	NONE			Summer Min & Max				Electrical		N/A
	Seals	YES			Winter Min & Max			Recirculating Hood (Type)			NONE
	Overhead Door	N/A		Light Power Density (watt/s		1.4			Quantity		N/A
	Cased Opening	N/A		Equip Power Density (watt/		10			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	METAL			Directional	NEGATIVE			Airflow		N/A
	Fixed or Mobile	FIXED/MOBILE			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Pressure Dro		N/A
	Base Cabinets	YES			Supply	14			Piped Service		N/A
	Wall Cabinets	NONE			Exhaust	N/A			Electrical		N/A
	Glass Fronts	NONE		Air Recurc or Exhaust		Exh		Point Exhaust			NONE
	Swinging or Sliding	NONE		EHS Min Air Changes					Quantity		N/A
	Shelves Wall or Be	NONE			Occupied	6 ACH			Size		N/A
	Glassware Storage	NONE			Un-Occupied	3 ACH			Airflow		N/A
	Rack Shelving	NONE		EHS Required Min ACH		N/A			Pressure Dro		N/A
Bench top				Process Chilled Water		N/A			Snorkel		N/A
	Material	EPOXY			Flow	N/A		**ELECTRICAL**			
	Color	TBD			Pressure Rat	N/A		110V, 20A, 1 Phase			10
	Thickness	1"			Pressure Dro	N/A		208V, 30A, 1 Phase			NONE

Area 502 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type					Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	NONE		Heated Process Water		N/A		Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	N/A			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Dro	N/A		UPS		NONE
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		NONE
	Services	N/A		Process Steam Equipment		N/A		Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Showe	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate F	N/A			Foot-candle	50
	Floor Drain	NONE			Max Backpre	N/A			Dimming / Mu	SPECIALTY
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type		CARD			Timer Control	NONE
Waste		NONE		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	NONE		Other		NONE			Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	NONE		Data / Telephone		3		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	NONE

Appendix C – Criminalistics - Evidence Holding

Room 503

Fortified walls and ceiling: concrete block or fortified (reinforced fiber or mesh) walls and fortified ceiling.

Floor to ceiling shelving provided by lessor.

Space for carts and/or large evidence storage

Adjacency to Latent Print/Footwear Unit and Forensic Imaging Unit with access doors from each side.

ROOM NAME:		**CRIMINALISTICS EVIDENCE HOLDING**				**BSL:**		2				
AREA NUMBER:		**503**										
DEPARTMENT:		**CRIMINALISTICS**										
UNIT:		**LP/FW, FI**				**ROOM TYPE:**		EVIDENCE STORAGE				
ADJACENCIES:												
Department		**LP/FW, FI**										
Area Number		**501, 504**										
UTILIZATION				**MECHANICAL**				**HOODS**				
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE	
	Staff Count	1			Summer Min	68-68			Quantity		N/A	
ARCHITECTURAL					Winter Min &	68-68			Size		N/A	
Floor Material		SHEET		Occupied Humidity					Sash height		N/A	
Base		RWB			Summer Min	30-40%			Airflow		N/A	
Partition Type		GWB			Winter Min &	30-40%			Face Velocity		N/A	
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Drop		N/A	
Ceiling Type		APC			Summer Min	68			Piped Services		N/A	
	Height	10-'0"			Winter Min &	68			Cup sink / Water		N/A	
Door Type		LAB		Un-Occupied Humidity					Storage Below		N/A	
	Vision Panel	NONE			Summer Min	30-40%			Electrical		N/A	
	Seals	YES			Winter Min &	30-40%		Recirculating Hood (Type)			NONE	
	Overhead Door	N/A		Light Power Density (watt/s		1.4			Quantity		N/A	
	Cased Opening	N/A		Equip Power Density (watt/		6			Size		N/A	
Casework				Pressure Control					Sash height		N/A	
	Material	METAL			Directional	NEGATIVE			Airflow		N/A	
	Fixed or Mobile	MOBILE			Active	N/A			Face Velocity		N/A	
Storage				Filtration MERV					Pressure Drop		N/A	
	Base Cabinets	NONE			Supply	14			Piped Services		N/A	
	Wall Cabinets	NONE			Exhaust	N/A			Electrical		N/A	
	Glass Fronts	N/A		Air Recurc or Exhaust		Exh		Point Exhaust			NONE	
	Swinging or Sliding	N/A		EHS Min Air Changes					Quantity		N/A	
	Shelves Wall or Ben	NONE			Occupied	6 ACH			Size		N/A	
	Glassware Storage	NONE			Un-Occupied	3 ACH			Airflow		N/A	
	Rack Shelving	YES		EHS Required Min ACH		N/A			Pressure Drop		N/A	
Bench top				Process Chilled Water		N/A			Snorkel		N/A	
	Material	None			Flow	N/A		**ELECTRICAL**				
	Color	N/A			Pressure Rat	N/A		110V, 20A, 1 Phase			1 Per 4 LF BEN(	
	Thickness	N/A			Pressure Dro	N/A		208V, 30A, 1 Phase			NONE	

Area 503 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type					Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	NONE		Heated Process Water		N/A		Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	N/A			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Dro	N/A		UPS		NONE
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		NONE
	Services	N/A		Process Steam Equipment		N/A		Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate F	N/A			Foot-candle	30
	Floor Drain	NONE			Max Backpre	N/A			Dimming / Multi-Le	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Control	NONE
Local Polisher		NONE		Door Access Control (Type		CARD			Timer Control	NONE
Waste		NONE		Intrusion Detection		YES			Occupancy Sensor	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		YES			Daylighting Sensor	NONE
	Air	NONE		Other		NONE			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	NONE		Data / Telephone		1		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/ Humi	YES
				Paging		YES			Equipment	NONE

Appendix C – Criminalistics – Imaging Studio

Room 504

Ceiling height 14’
Infinity sweep in one corner, with storage loft above
Ability to hang a pipe grid sky track
Dark grey or black walls, matte
Avoid placing near pumps and compressors to minimize vibrations within the unit.

ROOM NAME:		**IMAGING STUDIO**				**BSL:**		2			
AREA NUMBER:		**504**									
DEPARTMENT:		**CRIMINALISTICS**									
UNIT:		**IMAGING**				**ROOM TYPE:**		LAB			
ADJACENCIES:											
Department		**LP/FW**									
Area Number		**503, 505, 513**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE
	Staff Count	2			Summer Min & Max				Quantity		N/A
ARCHITECTURAL					Winter Min & Max				Size		N/A
Floor Material		SHEET/Nom-Glossy		Occupied Humidity					Sash height		N/A
Base		RWB			Summer Min & Max				Airflow		N/A
Partition Type		GWB			Winter Min & Max				Face Velocity		N/A
	Paint	Matte - Grey		Un-Occupied Temperature					Pressure Drop		N/A
Ceiling Type		APC			Summer Min & Max				Piped Services		N/A
	Height	14'			Winter Min & Max				Cup sink / Water		N/A
Door Type		LAB		Un-Occupied Humidity					Storage Below		N/A
	Vision Panel	None			Summer Min & Max				Electrical		N/A
	Seals	Yes			Winter Min & Max			Recirculating Hood (Type)			NONE
	Overhead Door	Yes		Light Power Density (watt/s		1.4			Quantity		N/A
	Cased Opening	Yes		Equip Power Density (watt/		6			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	Metal			Directional	NEGATIVE			Airflow		N/A
	Fixed or Mobile	Mobile			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Pressure Drop		N/A
	Base Cabinets	None			Supply	14			Piped Services		N/A
	Wall Cabinets	None			Exhaust	N/A			Electrical		N/A
	Glass Fronts	None		Air Recurc or Exhaust		Exh		Point Exhaust			NONE
	Swinging or Slidir	None		EHS Min Air Changes					Quantity		N/A
	Shelves Wall or B	None			Occupied	6 ACH			Size		N/A
	Glassware Storag	None			Un-Occupied	3 ACH			Airflow		N/A
	Rack Shelving	None		EHS Required Min ACH		N/A			Pressure Drop		N/A
Bench top				Process Chilled Water					Snorkel		N/A
	Material	None			Flow	N/A		**ELECTRICAL**			
	Color	N/A			Pressure Rat	N/A		110V, 20A, 1 Phase			4 PER 2 LF BENCH + 4 CORD REELS
	Thickness	N/A			Pressure Dro	N/A		208V, 30A, 1 Phase			1

Area 504 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		Hand			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	16"x14"x10"		Heated Process Water				Special Outlet Config		YES
	Material	EPOXY			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	CW, HW			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Dro	N/A		UPS		NONE
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		NONE
	Services	N/A		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Show	None			Pressure	N/A			Type	LED
	Eyewash	None			Condensate F	N/A			Foot-candle	30
	Floor Drain	None			Max Backpre	N/A			Dimming / Multi-Level	1% DIM
Pure Water Type		NONE		**SECURITY**					Zoning Control	SPECIALTY
Local Polisher		NONE		Door Access Control (Type		CARD			Timer Control	NONE
Waste		NONE		Intrusion Detection		NONE			Occupancy Sensor	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting Sensor	NONE
	Air	NONE		Other		NONE			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	NONE		Data / Telephone		1 PER 4 LF BENCH		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/ Humidity	YES
				Paging		YES			Equipment	NONE

Appendix C – Criminalistics – Imaging Storage Room

ROOM NAME:		**IMAGING STORAGE AREA**				**BSL:**	2				
AREA NUMBER:		**505**									
DEPARTMENT:		**CRIMINALISTICS**									
UNIT:		**IMAGING**				**ROOM TYPE:**	LAB				
ADJACENCIES:											
Department		**FI**									
Area Number		**504**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE
	Staff Count	2			Summer Min & Max				Quantity		N/A
ARCHITECTURAL					Winter Min & Max				Size		N/A
Floor Material		SHEET		Occupied Humidity					Sash height		N/A
Base		RWB			Summer Min & Max				Airflow		N/A
Partition Type		GWB			Winter Min & Max				Face Velocity		N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Dro		N/A
Ceiling Type					Summer Min & Max				Piped Service		N/A
	Height	12'-0"			Winter Min & Max				Cup sink / W		N/A
Door Type		LAB		Un-Occupied Humidity					Storage Belo		N/A
	Vision Panel	None			Summer Min & Max				Electrical		N/A
	Seals	Yes			Winter Min & Max			Recirculating Hood (Type)			NONE
	Overhead Door	Yes		Light Power Density (watt/s		1.4			Quantity		N/A
	Cased Opening	Yes		Equip Power Density (watt/		6			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	Metal			Directional	NEGATIVE			Airflow		N/A
	Fixed or Mobile	Fixed/Mobile			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Pressure Dro		N/A
	Base Cabinets	Yes			Supply	14			Piped Service		N/A
	Wall Cabinets	Yes			Exhaust	N/A			Electrical		N/A
	Glass Fronts	None		Air Recurc or Exhaust		Exh		Point Exhaust			NONE
	Swinging or Sliding	Swinging		EHS Min Air Changes					Quantity		N/A
	Shelves Wall or Bench	Wall			Occupied				Size		N/A
	Glassware Storage	None			Un-Occupied				Airflow		N/A
	Rack Shelving	Yes		EHS Required Min ACH		N/A			Pressure Dro		N/A
Bench top		NONE		Process Chilled Water					Snorkel		N/A
	Material	N/A			Flow	N/A		**ELECTRICAL**			
	Color	N/A			Pressure Rat	N/A		110V, 20A, 1 Phase			1 PER 4 LF BEN
	Thickness	N/A			Pressure Dro	N/A		208V, 30A, 1 Phase			NONE

Area 505 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		None			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	N/A		Heated Process Water				Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	N/A			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Dro	N/A		UPS		NONE
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		NONE
	Services	N/A		Process Steam Equipment		N/A		Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	None			Pressure	N/A			Type	LED
	Eyewash	None			Condensate F	N/A			Foot-candle	30
	Floor Drain	None			Max Backpre	N/A			Dimming / Mu	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type		KEY			Timer Control	NONE
Waste		NONE		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	NONE		Other		NONE			Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		WET
	Pure (Zero) Air	NONE		Data / Telephone		1		Smoke or Heat Detectors		TBD
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	NONE

Appendix C – Criminalistics – Firearms Lab

ROOM NAME:		**FIREARMS LAB**				**BSL:**		2			
RFP NUMBER:		**506**									
DEPARTMENT:		**CRIMINALISTICS**									
UNIT:		**FIREARMS**				**ROOM TYPE:**		LAB			
ADJACENCIES:											
Department											
Area Number		**507, 508, 509, 510, 511,512, 513**									
UTILIZATION				**MECHANICAL**		See Bldg. Sys. Criteria		**HOODS**			
	Schedule of U	12 HOURS		Occupied Temperature				Exhausted Hood (Type)		NONE	
	Staff Count	8			Summer Min & Max				Quantity	N/A	
ARCHITECTURAL					Winter Min & Max				Size	N/A	
Floor Material		SHEET		Occupied Humidity					Sash height	N/A	
Base		RWB			Summer Min & Max				Airflow	N/A	
Partition Type		GWB			Winter Min & Max				Face Velocity	N/A	
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Static Pressu	N/A	
Ceiling Type		APC			Summer Min & Max				Piped Service	N/A	
	Height	10'-0"			Winter Min & Max				Cup sink / W	N/A	
Door Type		LAB		Un-Occupied Humidity					Storage Belo	N/A	
	Vision Panel	YES			Summer Min & Max				Electrical	N/A	
	Seals	N/A			Winter Min & Max			Recirculating Hood (Type)		NONE	
	Overhead Doo	N/A		Light Power Density (watt/s		1.4			Quantity	N/A	
	Cased Openi	N/A		Equip Power Density (watt/		6			Size	N/A	
Casework				Pressure Control					Sash height	N/A	
	Material	METAL			Directional	Negative			Airflow	N/A	
	Fixed or Mob	FIXED			Active	N/A			Face Velocity	N/A	
Storage				Filtration MERV					Static Pressu	N/A	
	Base Cabinet	YES			Supply	14			Piped Service	N/A	
	Wall Cabinets	NONE			Exhaust	N/A			Electrical	N/A	
	Glass Fronts	NONE		Air Recurc or Exhaust		Exh		Point Exhaust			
	Swinging or S	N/A		EHS Min Air Changes					Quantity	N/A	
	Shelves Wall	BENCH			Occupied	6 ACH			Size	N/A	
	Glassware St	NONE			Un-Occupied	3 ACH			Airflow	N/A	
	Rack Shelvin	YES		Vibration Sensitivity		N/A			Static Pressu	N/A	
Bench top				Room Noise Level		N/A			Snorkel	N/A	
	Material	EPOXY		Process Chilled Water				**ELECTRICAL**			
	Color	TBD			Flow	N/A		110V, 20A, 1 Phase		1 PER 2 LF BEN	
	Thickness	1"			Pressure Rat	N/A		208V, 30A, 1 Phase		NONE	

Area 506 Continued

PLUMBING					Static Pressu	N/A		208V, 30A, 3 Phase		NONE
Sink Type		HAND			Supply Temp	N/A		480V, 100A, 3 Phase		NONE
	Size	6" x 14" x 10"			Delta T	N/A		Special Outlet Config		NONE
	Material	EPOXY		Heated Process Water				Standby Pwr (Generator)		NONE
	Services	CW, HW			Flow	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Rat	N/A		UPS		NONE
	Size	N/A			Static Pressu	N/A		Explosion Proof		NONE
	Material	N/A			Supply Temp	N/A		GFCI Outlets		YES
	Services	N/A			Delta T	N/A		Clocks		YES
Safety				Process Steam Equipment				**LIGHTING**		
	Emergency S	NONE			Flow	N/A			Type	LED
	Eyewash	NONE			Pressure	N/A			Foot-candle	00 (50+TASK
	Floor Drain	NONE			Condensate F	N/A			Dimming / Mu	10% DIM
Pure Water Type		NONE			Max Backpre	N/A			Zoning Contro	NONE
Local Polisher		NONE		**SECURITY**					Timer Control	NONE
Waste		SANITARY		Door Access Control (Type		CR			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Intrusion Detection		NONE			Daylighting S	NONE
	Air	NONE		Video Surveillance		NONE			Task Lighting	YES
	Vacuum	NONE		Other		N/A		**FIRE PROTECTION**		
	Nitrogen	NONE		**COMMUNICATIONS**				System Type		PREACTION
	Pure (Zero) A	NONE		Audio/Video		NONE		Smoke or Heat Detectors		VESDA
	Other	NONE		Data / Telephone		2 PER 4 LF BENCH		**MONITORING**		
				Wall Mounted Telephone		1			Temperature/	NONE
				Intercom System (PA) / Pa		YES			Equipment	NONE

Appendix C – Criminalistics – Firearms Evidence Holding

Floor to ceiling shelving provided by lessor.

ROOM NAME:		**FIREARMS EVIDENCE HOLDING**				**BSL:**		2			
RFP NUMBER:		**507**									
DEPARTMENT:		**CRIMINALISTICS**									
UNIT:		**FIREARMS**				**LAB TYPE:**		EVIDENCE STORAGE			
ADJACENCIES:											
Department											
Area Number		506									
UTILIZATION				**MECHANICAL**		See Bldg. Sys Criteria		**HOODS**			
	Schedule of U	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE
	Staff Count	1			Summer Min	68-68			Quantity		N/A
ARCHITECTURAL					Winter Min &	68-68			Size		N/A
Floor Material		SHEET		Occupied Humidity					Sash height		N/A
Base		RWB			Summer Min	30-40%			Airflow		N/A
Partition Type		GWB			Winter Min &	30-40%			Face Velocity		N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Dro		N/A
Ceiling Type		APC			Summer Min	68			Piped Service		N/A
	Height	10'-0"			Winter Min &	68			Cup sink / W		N/A
Door Type		3' STEEL		Un-Occupied Humidity					Storage Belo		N/A
	Vision Panel	N/A			Summer Min	30-40%			Electrical		N/A
	Seals	N/A			Winter Min &	30-40%		Recirculating Hood (Type)			NONE
	Overhead Doo	N/A		Light Power Density (watt/s		1.4			Quantity		N/A
	Cased Openi	N/A		Equip Power Density (watt/		6			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	METAL			Directional	Negative			Airflow		N/A
	Fixed or Mob	MOBILE			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Pressure Dro		N/A
	Base Cabinet	NONE			Supply	14			Piped Service		N/A
	Wall Cabinets	NONE			Exhaust	N/A			Electrical		N/A
	Glass Fronts	N/A		Air Recurc or Exhaust		Exh		Point Exhaust			
	Swinging or S	N/A		EHS Min Air Changes					Quantity		N/A
	Shelves Wall	NONE			Occupied	6 ACH			Size		N/A
	Glassware St	NONE			Un-Occupied	3 ACH			Airflow		N/A
	Rack Shelvin	YES		EHS Required Min ACH		N/A			Pressure Dro		N/A
Bench top				Process Chilled Water					Snorkel		N/A
	Material	EPOXY			Flow	N/A		**ELECTRICAL**			
	Color	TBD			Pressure Rat	N/A		110V, 20A, 1 Phase			YES
	Thickness	1"			Pressure Dro	N/A		208V, 30A, 1 Phase			NONE

507 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		NONE			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	N/A		Heated Process Water				Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	N/A			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Dro	N/A		UPS		NONE
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		NONE
	Services	N/A		Process Steam Equipment				Clocks		NONE
Safety					Flow	N/A		**LIGHTING**		
	Emergency S	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate F	N/A			Foot-candle	30
	Floor Drain	NONE			Max Backpre	N/A			Dimming / Mu	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type		CR			Timer Control	NONE
Waste		NONE		Intrusion Detection		YES			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		YES			Daylighting S	NONE
	Air	NONE		Other		N/A			Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) A	NONE		Data / Telephone		2		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		NONE		**MONITORING**		
				Intercom System (PA)		Yes			Temperature/	NONE
				Paging		Yes			Equipment	NONE

Appendix C – Criminalistics – Firearms Vault

Room 508

Lessor provided floor-to-ceiling, high-density moveable gun storage (to store 5,000 firearms). Load capacity considerations must be accounted for.

One cubicle worksurface 9’-0” long

Vault Door to be 4’ wide, fire-rated to a minimum of 2 hours, with card reader access on door, interior camera and motion detection

Construct to ASTM standards. Fortified walls and ceiling: concrete block or fortified (reinforced fiber or mesh) walls and fortified ceiling.

HVAC must be independently controlled for temperature and humidity

No plumbing or wet piping should run over this room

Area 508 Continued

ROOM NAME:		**FIREARMS VAULT**				**BSL:**	2				
RFP NUMBER:		**508**									
DEPARTMENT:		**CRIMINALISTICS**									
UNIT:		**FIREARMS**				**LAB TYPE:**	LAB SUPPORT SPACE				
ADJACENCIES:											
Department											
Area Number		506									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of U	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE
	Staff Count	1			Summer Min & Max				Quantity		N/A
ARCHITECTURAL					Winter Min & Max				Size		N/A
Floor Material		SHEET		Occupied Humidity					Sash height		N/A
Base		RWB			Summer Min & Max				Airflow		N/A
Partition Type		GWB			Winter Min & Max				Face Velocity		N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Static Pressu		N/A
Ceiling Type		APC			Summer Min & Max				Piped Service		N/A
	Height	10'-0"			Winter Min & Max				Cup sink / W		N/A
Door Type		4' SINGLE STEEL		Un-Occupied Humidity					Storage Belo		N/A
	Vision Panel	NONE			Summer Min & Max				Electrical		N/A
	Seals	N/A			Winter Min & Max			Recirculating Hood (Type)			NONE
	Overhead Doo	N/A		Light Power Density (watt/s		1.4			Quantity		N/A
	Cased Openi	N/A		Equip Power Density (watt/		6			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	METAL			Directional	Negative			Airflow		N/A
	Fixed or Mob	MOBILE			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Static Pressu		N/A
	Base Cabinet	NONE			Supply	14			Piped Service		N/A
	Wall Cabinets	NONE			Exhaust	N/A			Electrical		N/A
	Glass Fronts	NONE		Air Recurc or Exhaust		Exh		Point Exhaust			
	Swinging or S	N/A		EHS Min Air Changes					Quantity		N/A

Area 508 Continued

	Shelves Wall	NONE			Occupied	6 ACH			Size	N/A
	Glassware St	NONE			Un-Occupied	3 ACH			Airflow	N/A
	Rack Shelving	NONE		Vibration Sensitivity		N/A			Static Pressu	N/A
	High Density	YES		Room Noise Level		N/A			Snorkel	N/A
Bench top										
	Material	WOOD		Process Chilled Water				**ELECTRICAL**		
	Color	MAPLE			Flow	N/A		110V, 20A, 1 Phase		YES
	Thickness	2"			Pressure Rat	N/A		208V, 30A, 1 Phase		NONE
PLUMBING					Static Pressu	N/A		208V, 30A, 3 Phase		NONE
Sink Type		NONE			Supply Temp	N/A		480V, 100A, 3 Phase		NONE
	Size	N/A			Delta T	N/A		Special Outlet Config		NONE
	Material	N/A		Heated Process Water				Standby Pwr (Generator)		NONE
	Services	N/A			Flow	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Rat	N/A		UPS		NONE
	Size	N/A			Static Pressu	N/A		Explosion Proof		NONE
	Material	N/A			Supply Temp	N/A		GFCI Outlets		NONE
	Services	N/A			Delta T	N/A		Clocks		YES
Safety				Process Steam Equipment				**LIGHTING**		
	Emergency S	NONE			Flow	N/A			Type	LED
	Eyewash	NONE			Pressure	N/A			Foot-candle	30
	Floor Drain	NONE			Condensate F	N/A			Dimming / Mu	NONE
Pure Water Type		NONE			Max Backpre	N/A			Zoning Contro	NONE
Local Polisher		NONE		**SECURITY**					Timer Control	NONE
Waste		NONE		Door Access Control (Type		CR			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Intrusion Detection		YES			Daylighting S	NONE
	Air	NONE		Video Surveillance		YES			Task Lighting	YES
	Vacuum	NONE		Other		N/A		**FIRE PROTECTION**		
	Nitrogen	NONE		**COMMUNICATIONS**				System Type		PREACTION
	Pure (Zero) A	NONE		Audio/Video		NONE		Smoke or Heat Detectors		VESDA
	Other	NONE		Data / Telephone		4		**MONITORING**		
				Wall Mounted Telephone		1			Temperature/	NONE
				Intercom System (PA) / Pa		YES			Equipment	NONE

Appendix C – Criminalistics – Ammunitions Storage

ROOM NAME:		**AMMUNITION STORAGE**				**BSL:**		2		
RFP NUMBER:		**509**								
DEPARTMENT:		**CRIMINALISTICS**								
UNIT:		**FIREARMS**				**LAB TYPE:**		LAB		
ADJACENCIES:										
Department										
Area Number		511								
UTILIZATION				**MECHANICAL**		See Bldg. Sys Criteria		**HOODS**		
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)		NONE
	Staff Count	0			Summer Min & Max	68-72			Quantity	N/A
ARCHITECTURAL					Winter Min & Max	68-72			Size	N/A
Floor Material		SHEET		Occupied Humidity					Sash height	N/A
Base		RWB			Summer Min & Max	45-60%			Airflow	N/A
Partition Type		GWB			Winter Min & Max	45-60%			Face Velocity	N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Dro	N/A
Ceiling Type		APC			Summer Min & Max	68-72			Piped Service	N/A
	Height	10'-0"			Winter Min & Max	68-72			Cup sink / W	N/A
Door Type		3' STEEL		Un-Occupied Humidity					Storage Belo	N/A
	Vision Panel	N/A			Summer Min & Max	45-60%			Electrical	N/A
	Seals	N/A			Winter Min & Max	45-60%		Recirculating Hood (Type)		NONE
	Overhead Door	N/A		Light Power Density (watt/sf)		1.4			Quantity	N/A
	Cased Opening	N/A		Equip Power Density (watt/sf)		2			Size	N/A
Casework				Pressure Control					Sash height	N/A
	Material	NONE			Directional	Negative			Airflow	N/A
	Fixed or Mobile	N/A			Active	N/A			Face Velocity	N/A
Storage				Filtration MERV					Pressure Dro	N/A
	Base Cabinets	MTL AMMO			Supply	14			Piped Service	N/A
	Wall Cabinets	NONE			Exhaust	N/A			Electrical	N/A
	Glass Fronts	N/A		Air Recurc or Exhaust		Exh		Point Exhaust		
	Swinging or Sliding	N/A		EHS Min Air Changes					Quantity	N/A
	Shelves Wall or Be	NONE			Occupied				Size	N/A
	Glassware Storage	NONE			Un-Occupied				Airflow	N/A
	Rack Shelving	NONE		EHS Required Min ACH		N/A			Pressure Dro	N/A
Bench top				Process Chilled Water					Snorkel	N/A
	Material	N/A			Flow	N/A		**ELECTRICAL**		
	Color	N/A			Pressure Rating	N/A		110V, 20A, 1 Phase		YES
	Thickness	N/A			Pressure Drop	N/A		208V, 30A, 1 Phase		NONE

Area 509 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		NONE			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	N/A		Heated Process Water				Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	N/A			Pressure Rating	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Drop	N/A		UPS		NONE
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		NONE
	Services	N/A		Process Steam Equipment				Clocks		NONE
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate Return	N/A			Foot-candle	30
	Floor Drain	NONE			Max Backpressure	N/A			Dimming / Mu	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type)		CR			Timer Control	NONE
Waste		NONE		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	NONE		Other		N/A			Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	NONE		Data / Telephone		1		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		NONE		**MONITORING**		
				Intercom System (PA)		Yes			Temperature/	NONE
				Paging		Yes			Equipment	NONE

Room 510: Serial Number Restoration Room

Moveable table in center of room with snorkel vent above to accommodate distance determination casework.

ROOM NAME:		**SNR DETERMINATION ROOM**				**BSL:**		2			
AREA NUMBER:		**510**									
DEPARTMENT:		**CRIMINALISTICS**									
UNIT:		**FIREARMS**				**ROOM TYPE**		LAB			
ADJACENCIES:											
Department											
Area Number		506									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of U	12 hours		Occupied Temperature				Exhausted Hood (Type)			VAV
	Staff Count	2			Summer Min	68-72			Quantity		1
ARCHITECTURAL					Winter Min &	68-72			Size		6'
Floor Material		epoxy		Occupied Humidity					Sash height		18"
Base		integral			Summer Min	30-50%			Airflow		100 FPM
Partition Type		GWB			Winter Min &	30-50%			Face Velocity		80-120 FPM
	Paint	Semi-gloss		Un-Occupied Temperature					Pressure Dro		<0.1
Ceiling Type		APC			Summer Min	65-72			Piped Service		CA
	Height	10'0"			Winter Min &	65-72			Cup sink / W		YES/CW
Door Type		Lab		Un-Occupied Humidity					Storage Belo		TBD
	Vision Panel	Yes			Summer Min	30-50%			Electrical		YES
	Seals	NA			Winter Min &	30-50%		Recirculating Hood (Type)			NONE
	Overhead Doo	NA		Light Power Density (watt/s		1.4			Quantity		NA
	Cased Openi	Yes		Equip Power Density (watt/		6			Size		NA
Casework				Pressure Control					Sash height		NA
	Material	Metal			Directional	NEGATIVE			Airflow		NA
	Fixed or Mob	Mobile			Active	N/A			Face Velocity		NA
Storage				Filtration MERV					Pressure Dro		NA
	Base Cabinet	Yes			Supply	14			Piped Service		NA
	Wall Cabinets	Yes			Exhaust	N/A			Electrical		NA
	Glass Fronts	Yes		Air Recurc or Exhaust		Exh		Point Exhaust			YES
	Swinging or S	Swinging		EHS Min Air Changes					Quantity		1
	Shelves Wall	None			Occupied	6ACH			Size		N/A
	Glassware St	Yes			Un-Occupied	3 ACH			Airflow		N/A
	Rack Shelvin	None		EHS Required Min ACH		N/A			Pressure Dro		N/A
Bench top				Process Chilled Water					Snorkel		YES
	Material	Epoxy			Flow	N/A		**ELECTRICAL**			
	Color	TBD			Pressure Rat	N/A		110V, 20A, 1 Phase			1 PER 2 LF BEN
	Thickness	1"			Pressure Dro	N/A		208V, 30A, 1 Phase			1

Area 510 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		LAB			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	18"x14"x12"		Heated Process Water				Special Outlet Config		YES
	Material	EPOXY			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	CW,HW,TYPE2			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		HAND			Pressure Dro	N/A		UPS		NONE
	Size	16"x14"x10"			Supply Temp	N/A		Explosion Proof		NONE
	Material	EPOXY			Delta T	N/A		GFCI Outlets		YES
	Services	CW/HW		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency S	YES			Pressure	N/A			Type	LED
	Eyewash	YES			Condensate F	N/A			Foot-candle	00 (50+TASK
	Floor Drain	YES			Max Backpre	N/A			Dimming / Mu	10% DIM
Pure Water Type		TYPE 2		**SECURITY**					Zoning Contro	NONE
Local Polisher		NA		Door Access Control (Type		CARD			Timer Control	NONE
Waste		ACID		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	Yes		Other		NONE			Task Lighting	YES
	Vacuum	Yes		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NA		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) A	NA		Data / Telephone		8		Smoke or Heat Detectors		VESDA
	Other	NA		Wall Mounted Telephone		NONE		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	NONE

Appendix C – Criminalistics – Firing Range

Room 511: Firing Range (For Option 1: Integrated Indoor Firing Range)

HVAC: Air scrubber, lead filters exhausted to exterior
Granulated rubber berm backstop
Sound suppression in walls, floor, and ceiling. Investigate structural separation for noise.
All walls, floor, and ceiling must be able to contain fired high caliber rifle bullets.

ROOM NAME:		**FIRING RANGE**					**BSL:**	2			
RFP NUMBER:		**511**									
DEPARTMENT:		**CRIMINALISTICS**									
UNIT:		**FIREARMS**					**LAB TYPE:**	LAB			
ADJACENCIES:											
Department											
Area Number		506, 509									
UTILIZATION				**MECHANICAL**		See Bldg. Sys. Criteria		**HOODS**			
	Schedule of U	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE
	Staff Count	1			Summer Min & Max				Quantity		N/A
ARCHITECTURAL					Winter Min & Max				Size		N/A
Floor Material		CONCRETE		Occupied Humidity					Sash height		N/A
Base		NONE			Summer Min & Max				Airflow		N/A
Partition Type		CONCRETE			Winter Min & Max				Face Velocity		N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Static Pressu		N/A
Ceiling Type		BAFFLES			Summer Min & Max				Piped Service		N/A
	Height	TBD			Winter Min & Max				Cup sink / W		N/A
Door Type		4' SINGLE STEEL		Un-Occupied Humidity					Storage Belo		N/A
	Vision Panel	NONE			Summer Min & Max				Electrical		N/A
	Seals	N/A			Winter Min & Max			Recirculating Hood (Type)			NONE
	Overhead Doo	N/A		Light Power Density (watt/s			1.4		Quantity		N/A
	Cased Openi	N/A		Equip Power Density (watt/			2		Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	METAL			Directional		Negative		Airflow		N/A
	Fixed or Mob	FIXED			Active		N/A		Face Velocity		N/A
Storage				Filtration MERV					Static Pressu		N/A
	Base Cabinet	YES			Supply		14		Piped Service		N/A
	Wall Cabinets	YES			Exhaust		HEPA		Electrical		N/A
	Glass Fronts	N/A		Air Recurc or Exhaust			Exh	Point Exhaust			
	Swinging or S	SWINGING		EHS Min Air Changes					Quantity		N/A
	Shelves Wall	NONE			Occupied		75 fpm velocity away from shooter at firing line		Size		N/A
	Glassware St	NONE			Un-Occupied		2		Airflow		N/A
	Rack Shelvin	NONE		Vibration Sensitivity			N/A		Static Pressu		N/A
Bench top				Room Noise Level			N/A		Snorkel		N/A
	Material	WOOD		Process Chilled Water				**ELECTRICAL**			
	Color	Epoxy			Flow		N/A	110V, 20A, 1 Phase			6
	Thickness	1"			Pressure Rat		N/A	208V, 30A, 1 Phase			NONE

Area 511 Continued

PLUMBING					Static Pressu	N/A		208V, 30A, 3 Phase		NONE
Sink Type		NONE			Supply Temp	N/A		480V, 100A, 3 Phase		NONE
	Size	N/A			Delta T	N/A		Special Outlet Config		NONE
	Material	N/A		Heated Process Water				Standby Pwr (Generator)		NONE
	Services	N/A			Flow	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Rat	N/A		UPS		NONE
	Size	N/A			Static Pressu	N/A		Explosion Proof		NONE
	Material	N/A			Supply Temp	N/A		GFCI Outlets		YES
	Services	N/A			Delta T	N/A		Clocks		YES
Safety				Process Steam Equipment				**LIGHTING**		
	Emergency S	NONE			Flow	N/A			Type	LED
	Eyewash	NONE			Pressure	N/A			Foot-candle	30
	Floor Drain	YES			Condensate F	N/A			Dimming / Mu	N USE" LIGH
Water Type	CIRCULATION				Max Backpre	N/A			Zoning Contro	NONE
Local Polisher		NONE		**SECURITY**					Timer Control	NONE
Waste		NONE		Door Access Control (Type		CR			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Intrusion Detection		NONE			Daylighting S	NONE
	Air	NONE		Video Surveillance		NONE			Task Lighting	YES
	Vacuum	NONE		Other		NONE		**FIRE PROTECTION**		
	Nitrogen	NONE		**COMMUNICATIONS**				System Type		WET
	Pure (Zero) A	NONE		Audio/Video		NONE		Smoke or Heat Detectors		HEAT
	Other	NONE		Data / Telephone		1		**MONITORING**		
				Wall Mounted Telephone		1			Temperature/	NONE
				Intercom System (PA) / Pa		YES			Equipment	NONE

Room 511: Firing Range (For Option 2: Integration of Existing Mobile Shipping Container Range)

Relocate, place, and integrate an existing 8’ x 50’ standalone shipping container firing range, currently located at 7100 Stewart Avenue, Wausau, WI.

Site preparation and infrastructure connections should include:

- 3 reinforced concrete footings 2 ft wide x 10 ft long x 4 ft deep with appropriate load capacity
- Power to an existing 208/120 - 3 phase 150 amp electrical disconnect on the outside of the mobile range
- Two 1 inch conduits for low voltage wiring from the main building to the exterior range
- 200mbh natural gas connection
- Connection to the main buildings security system to include fire monitoring, fire alarms (strobe lights) and emergency button.

Integration with the overall facility layout and adjacency to the Firearms Unit, which would include an enclosed walkway access to the exterior firing range offering protection from environmental conditions and to maintain building security.

If option 2 is selected, proprietary range drawings can be provided by the firing range vendor once a non-disclosure agreement is signed.

Room 513: Criminalistics Staff Workstations

Criminalistics Office to accommodate 8 staff members with 8x8 cubicles.

6. Crime Scene Response

The Crime Scene Response Team (CSRT) provides technical assistance in crime scene investigations to law enforcement agencies throughout the State of Wisconsin on a 24-hour basis, every day of the year. The CSRT provides on-scene processing and documentation of crime scenes, recognizes, collects, and preserves physical evidence that will yield reliable information to aid in the investigation. The CSRT provides courtroom testimony at criminal proceedings because of any technical assistance involving crime scene investigation, scene documentation, evidence collection, and specialized activities performed.

The CSRT may perform the following tasks within the vehicle processing garage:

- Evidence documentation using photography and/or video.
- Evidence documentation using laboratory notes and/or diagrams.
- Evidence collection and preservation by processing a vehicle for latent prints, footwear, and tire track evidence.
- Specialized evidence collection and packaging, e.g., biological fluids, hair, fibers, footwear impressions, tire impressions, tool marks, and other materials/substances of evidentiary value.
- Bullet path trajectory examination.

		Total	SF Ea	SF Total	Adjacencies	Other Requirements	Security
Crime Scene Response							
601	Vehicle processing garage	1	1,200	1,200	602, 603, 604	Increased ceiling height of 18', mobile vehicle lift.	Card Access
602	Screening Room	1	300	300	601, 603, 604		
603	Vehicle Processing Room	1	300	300	601, 602, 604		
604	Crime scene response vehicle garage	1	600	600	601, 603	one vehicle (rig/ambulance type) parking, garage doors 12' minimum width, remote openers	Card Access
605	Wash-up area in CSR garage	1	120	120		Janitor sink and two utility sinks	
606	Laundry area	1	50	50		Accessible to loading dock for pick-up/drop-off	
607	Mudroom	1	70	70	604		
608	Unisex single restroom with shower	2	75	150	609		
609	Shared locker area	1	200	200	604, 706	half/full, mixed size, shared for all staff, adjacent to fitness room	Card Access
610	Crime Scene Response Staff Workstations	2	64	128	601, 604	Adjacent to Vehicle Processing garage space	
	Total:			3,118			

Appendix C – Crime Scene Response – Vehicle Processing Garage

All counters will be chemical resistant

1 data and 1 phone line per bay

Compressed air available to every bay with retractable air hoses, hose bib and catch

110V duplex outlets around perimeter

Two (2) pull down retractable work lights per bay

Four (4) pull down retractable outlets per bay

18-foot, insulated garage doors with remote openers and card reader access

Must be climate controlled

Laboratory equivalent lighting

Floor: chemical-resistant Epoxy covered concrete floors

Mezzanine level located over parking stall with metal stairs with enclosed risers. Enclosed metal railing running the length of the mezzanine.

ROOM NAME:		**VEHICLE PROCESSING GARAGE**				**BSL:**		2		
AREA NUMBER:		**601**								
DEPARTMENT:		**CRIME SCENE RESPONSE**								
UNIT:		**CRIME SCENE RESPONSE**				**ROOM TYPE**		LAB		
ADJACENCIES:										
Department		**CRIME SCENE RESPONSE**								
Area Number		**602, 603, 604**								
UTILIZATION				**MECHANICAL**				**HOODS**		
	Schedule of U	12 HOURS		Occupied Temperature				Exhausted Hood (Type)		NONE
	Staff Count	2			Summer Min	65-78			Quantity	N/A
ARCHITECTURAL					Winter Min &	65-78			Size	N/A
Floor Material		EPOXY		Occupied Humidity					Sash height	N/A
Base		INTEGRAL			Summer Min	20-50%			Airflow	N/A
Partition Type		CMU			Winter Min &	20-50%			Face Velocity	N/A
	Paint	EPOXY		Un-Occupied Temperature					Pressure Dro	N/A
Ceiling Type		NONE			Summer Min	62-80			Piped Service	N/A
	Height	N/A			Winter Min &	62-80			Cup sink / W	N/A
Door Type				Un-Occupied Humidity					Storage Belo	N/A
	Vision Panel	No			Summer Min	20-50%			Electrical	N/A
	Seals	Yes			Winter Min &	20-50%		Recirculating Hood (Type)		NONE
	Overhead Doo	Yes		Light Power Density (watt/s		1.4			Quantity	N/A
	Cased Openi	Yes		Equip Power Density (watt/		6			Size	N/A
Casework				Pressure Control					Sash height	N/A
	Material	S.S.			Directional	NEGATIVE			Airflow	N/A
	Fixed or Mob	MOBILE			Active	N/A			Face Velocity	N/A

Area 601 Continued

Storage				Filtration MERV					Pressure Dro	N/A
	Base Cabinet	Yes			Supply	14			Piped Service	N/A
	Wall Cabinets	None			Exhaust	N/A			Electrical	N/A
	Glass Fronts	None		Air Recurc or Exhaust		Exh		Point Exhaust		NONE
	Swinging or S	None		EHS Min Air Changes					Quantity	N/A
	Shelves Wall	None			Occupied	6 ACH			Size	N/A
	Glassware St	None			Un-Occupied	3 ACH			Airflow	N/A
	Rack Shelvin	YES		EHS Required Min ACH		N/A			Pressure Dro	N/A
Bench top				Process Chilled Water		N/A			Snorkel	N/A
	Material	S.S.			Flow	N/A		**ELECTRICAL**		
	Color	N/A			Pressure Rat	N/A		110V, 20A, 1 Phase	per 4 LF BENCH/COR	
	Thickness	18 GAUGE			Pressure Dro	N/A		208V, 30A, 1 Phase		NONE
PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		UTILITY			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	30"x30"		Heated Process Water		N/A		Special Outlet Config		NONE
	Material	S.S.			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	CW,HW			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Dro	N/A		UPS		NONE
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		NONE
	Services	N/A		Process Steam Equipment		N/A		Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency S	YES			Pressure	N/A			Type	LED
	Eyewash	YES			Condensate F	N/A			Foot-candle	100
	Floor Drain	Trench			Max Backpre	N/A			Dimming / Mu	1% DIM
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type		CARD			Timer Control	NONE
Waste		Oil/grease		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	REELS		Other		NONE			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) A	NONE		Data / Telephone		4		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	NONE

Room 604: Crime Scene Response Vehicle Garage – No Data Sheet Intentional

Room 610: Crime Scene Response Staff Workstations - No Data Sheet Intentional

7. Support

The Support areas of the crime laboratory supply direct support to the management team and technical forensic operations of the lab (IT, storage, wellness, gases, cleaning, waste, etc.) as well as functions related to receiving, and distribution to meet the business needs.

		Total	SF Ea	SF Total	Adjacencies	Other Requirements	Security
Evidence receiving and processing							
701	Testimony/Phone room	2	100	200			
702	Conference room/library	1	300	300			
703	Office file and supply storage	1	288	288	201	Near evidence or administration, high density storage	Card Access
704	Lactation room	1	175	175		One room with two curtained cubicles, counter, sink, ref	Card Access
705	Decompression room	1	120	120		In-use indicator	Card Access
706	Wellness/Fitness room	1	240	240	606, 607	Rubberized or vinyl floor	Card Access
707	IT/telecom room	1	250	250		Non static flooring	Card Access
708	Unisex single restrooms	4	75	300			
709	Ground-level delivery garage/fleet parking	1	500	500	710	Exterior overhang for fleet vehicle parking, 1 fleet possible 2	Card Access with camera and intercom
710	Loading dock	1	300	300	711		Card Access
711	Compressed Gas Control Center	1	250	250	401, 403, 404, 711	Gas Cylinder Racks	Card Access
712	Flammable Storage Room	1	100	100	710		Card Access
713	Bulk Storage	1	100	100	710		Card Access
714	Hazardous Waste Storage	1	100	100	710		Card Access
715	Weapons storage and clearing	1	200	200	710	For destruction (includes ammunition storage)	Card Access
716	Janitor closet	1	70	70		Mop Sink	Keyed
717	Janitor storage	1	150	150			Keyed
	Total:			**3,643**			

Office File and Supply Storage - Room 703:

Side tab high density storage system provided by Lessor in card access reader secured room.

Appendix C – Lactation Room

ROOM NAME:		**LACTATION ROOM**				**FUNCTION:**		WELLNESS			
AREA NUMBER:		**704**									
DEPARTMENT:		**SUPPORT**				**ROOM TYPE:**		LACTATION ROOM			
UNIT:		**N/A**									
ADJACENCIES:											
Department											
Area Number											
UTILIZATION								**ELECTRICAL**			
	Schedule of Use	12 HOURS						Power (Volts)		120	
	Staff Count	1						Lighting (FC)		30	
								Special		DIMMABLE	
ARCHITECTURAL								Lighting Motion Sensor		TBD	
Floor Material		SHEET									
Base		RWB		**COMMUNICATIONS**				**LIGHTING**			
Partition Type		GWB		Voice (Telephone)		NONE		Natural Light		NONE	
	STC	TBD		Data (Computer)		NONE		Daylight Control		NONE	
Ceiling Type		APC		Video		NONE					
	Height	9'-0"		Cable TV		NONE		**FIRE PROTECTION**			
Door Type		CURTAIN		CCTV		NONE		System Type		TBD	
	Vision Panel	NONE		Audio		NONE		Smoke or Heat Detectors		NONE	
	Material	WOOD		Sound System		NONE					
	Hardware	TBD		Intercom System (PA) / Paging		YES		**FIRE PROTECTION**			
Casework				Clock		YES		System Type		WET	
	Material	NONE		Other		N/A		Smoke or Heat Detectors		TBD	
Bench top											
	Material	NONE		**Audio/Visual**							
				Screens		NONE		**MOVEABLE EQUIPMENT**			
ACOUSTICS				Video Projector		NONE		Type		REF	
Description		TBD		Other		N/A			Size	UNDERCOUNTER	
NC Rating		TBD							Connections	PWR	
				SECURITY				Type		PUMP	
PLUMBING				Door Access Control (Type)		NONE			Size	BENCHTOP	
Sink Type		HAND		Intrusion Detection		NONE			Connections	PWR	
	Size	12" x 12" x 6"		Video Surveillance		NONE		Type		NONE	
	Material	PORCELAIN		KeyPD/Prox CD/Rex		NONE			Size	N/A	
	Services	HW, CW		Integration Req'd		NONE			Connections	N/A	
Piped Services (Press/Qual/Vol)				Other		N/A					
	Gases/Other	NONE						**FURNITURE**			
									Size	N/A	
									Material	N/A	
								Bench top			
									Material	N/A	

Appendix C – Fitness and Wellness Room

ROOM NAME:		**FITNESS/WELLNESS ROOM**				**FUNCTION:**		WELLNESS			
AREA NUMBER:		**706**									
DEPARTMENT:		**SUPPORT**				**ROOM TYPE:**		FITNESS			
UNIT:		**N/A**									
ADJACENCIES:											
Department		**ALL**									
Area Number		606, 607									
UTILIZATION								**ELECTRICAL**			
	Schedule of Use	12 HOURS						Power (Volts)		120, 208	
	Staff Count	5						Lighting (FC)		30-50	
								Special		NONE	
ARCHITECTURAL								Lighting Motion Sensor		YES	
Floor Material		FITNESS									
Base		RWB		**COMMUNICATIONS**				**LIGHTING**			
Partition Type		GWB		Voice (Telephone)		YES		Natural Light		YES	
	STC	TBD		Data (Computer)		NONE		Daylight Control		YES	
Ceiling Type		APC		Video		NONE					
	Height	9'-0"		Cable TV		YES		**FIRE PROTECTION**			
Door Type		SINGLE		CCTV		NONE		System Type		WET	
	Vision Panel	YES		Audio		NONE		Smoke or Heat Detectors		NONE	
	Material	WOOD		Sound System		YES					
	Hardware	TBD		Intercom System (PA) / Paging		YES		**FIRE PROTECTION**			
Casework				Clock		YES		System Type		WET	
	Material	NONE		Other		N/A		Smoke or Heat Detectors		TBD	
Bench top											
	Material	NONE		**Audio/Visual**							
				Screens		NONE		**MOVEABLE EQUIPMENT**			
ACOUSTICS				Video Projector		NONE		Type		FITNESS	
Description		TBD		Other		N/A			Size	5 TOTAL	
NC Rating		TBD							Connections	PWR	
				SECURITY				Type		NONE	
PLUMBING				Door Access Control (Type)		CR			Size	N/A	
Sink Type		NONE		Intrusion Detection		NONE			Connections	N/A	
	Size	N/A		Video Surveillance		NONE		Type		NONE	
	Material	N/A		KeyPD/Prox CD/Rex		TBD			Size	N/A	
	Services	N/A		Integration Req'd		TBD			Connections	N/A	
Piped Services (Press/Qual/Vol)				Other		N/A					
	Gases/Other	NONE						**FURNITURE**			
									Size	N/A	
									Material	N/A	
								Bench top			
									Material	N/A	

Appendix C – IT Server and Telecom Room

ROOM NAME:		**IT SERVER ROOM**				**BSL:**		N/A		
AREA NUMBER:		**707**								
DEPARTMENT:		**INFORMATION TECHNOLOGY**								
UNIT:		**INFORMATION TECHNOLOGY**				**ROOM TYPE:**		SERVER ROOM		
ADJACENCIES:										
Department										
Area Number										
UTILIZATION				**MECHANICAL**				**HOODS**		
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)		NONE
	Staff Count	6			Summer Min	68-72			Quantity	N/A
ARCHITECTURAL					Winter Min &	68-72			Size	N/A
Floor Material		SHEET-non static		Occupied Humidity					Sash height	N/A
Base		RWB			Summer Min	30-50%			Airflow	N/A
Partition Type		GWB			Winter Min &	30-50%			Face Velocity	N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Dro	N/A
Ceiling Type					Summer Min	72			Piped Service	N/A
	Height	10'0"			Winter Min &	72			Cup sink / W	N/A
Door Type		LAB		Un-Occupied Humidity					Storage Belo	N/A
	Vision Panel	Yes			Summer Min	30-50%			Electrical	N/A
	Seals	N/A			Winter Min &	30-50%		Recirculating Hood (Type)		NONE
	Overhead Door	N/A		Light Power Density (watt/s		1.4			Quantity	N/A
	Cased Opening	N/A		Equip Power Density (watt/sf)					Size	N/A
Casework				Pressure Control					Sash height	N/A
	Material	METAL			Directional	NEGATIVE			Airflow	N/A
	Fixed or Mobile	FIXED			Active	N/A			Face Velocity	N/A
Storage				Filtration MERV					Pressure Dro	N/A
	Base Cabinets	YES			Supply	14			Piped Service	N/A
	Wall Cabinets	NONE			Exhaust	N/A			Electrical	N/A
	Glass Fronts	NONE		Air Recurc or Exhaust		recirc		Point Exhaust		NONE
	Swinging or Sliding	N/A		EHS Min Air Changes					Quantity	N/A
	Shelves Wall or Benc	N/A			Occupied				Size	N/A
	Glassware Storage	NONE			Un-Occupied				Airflow	N/A
	Rack Shelving	YES		EHS Required Min ACH					Pressure Dro	N/A
Bench top				Process Chilled Water		N/A			Snorkel	N/A
	Material	LAMINANT			Flow	N/A		**ELECTRICAL**		
	Color	TBD			Pressure Rat	N/A		110V, 20A, 1 Phase		
	Thickness	1"			Pressure Dro	N/A		208V, 30A, 1 Phase		

Area 707 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		NONE			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	N/A		Heated Process Water				Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		YES
	Services	N/A			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		N/A			Pressure Dro	N/A		UPS		YES
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		YES
	Services	N/A		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate F	N/A			Foot-candle	50
	Floor Drain	NONE			Max Backpre	N/A			Dimming / Mu	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type		CARD			Timer Control	NONE
Waste				Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	NONE		Other		NONE			Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		PREACTION
	Pure (Zero) Air	NONE		Data / Telephone		1		Smoke or Heat Detectors		VESDA
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	YES

Appendix C – Delivery and Loading Dock

ROOM NAME:		**Ground Level Delivery & Loading Dock**				**BSL:**					
AREA NUMBER:		**709, 710**									
DEPARTMENT:		**Support Areas**									
UNIT:						**ROOM TYPE**	SUPPORT				
ADJACENCIES:											
Department		**Crime Scene Response**									
Area Number		**711, 712, 713, 714**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of U	12 HOURS		Occupied Temperature				Exhausted Hood (Type)		NONE	
	Staff Count				Summer Min & Max	65-78			Quantity	N/A	
ARCHITECTURAL					Winter Min & Max	65-78			Size	N/A	
Floor Material		CONCRETE		Occupied Humidity					Sash height	N/A	
Base					Summer Min & Max	NR			Airflow	N/A	
Partition Type					Winter Min & Max	NR			Face Velocity	N/A	
	Paint			Un-Occupied Temperature					Pressure Dro	N/A	
Ceiling Type		NONE			Summer Min & Max	60-85			Piped Service	N/A	
	Height	N/A			Winter Min & Max	60-85			Cup sink / W	N/A	
Door Type		LAB		Un-Occupied Humidity					Storage Belo	N/A	
	Vision Panel	YES			Summer Min & Max	NR			Electrical	N/A	
	Seals	NONE			Winter Min & Max	NR		Recirculating Hood (Type)		NONE	
	Overhead Doo	YES		Light Power Density (watt/sf)		1.4			Quantity	N/A	
	Cased Openi	YES		Equip Power Density (watt/sf)		6			Size	N/A	
Casework				Pressure Control					Sash height	N/A	
	Material	METAL			Directional	NEGATIVE			Airflow	N/A	
	Fixed or Mob	MOBILE			Active	N/A			Face Velocity	N/A	
Storage				Filtration MERV					Pressure Dro	N/A	
	Base Cabinet	NONE			Supply	14			Piped Service	N/A	
	Wall Cabinets	NONE			Exhaust	N/A			Electrical	N/A	
	Glass Fronts	NONE		Air Recurc or Exhaust		recirc		Point Exhaust		NONE	
	Swinging or S	NONE		EHS Min Air Changes					Quantity	N/A	
	Shelves Wall	NONE			Occupied				Size	N/A	
	Glassware St	NONE			Un-Occupied				Airflow	N/A	
	Rack Shelvin	YES		EHS Required Min ACH		N/A			Pressure Dro	N/A	
Bench top		NONE		Process Chilled Water		N/A			Snorkel	N/A	
	Material	N/A			Flow	N/A		**ELECTRICAL**			
	Color	N/A			Pressure Rating	N/A		110V, 20A, 1 Phase		1 per 4 LF BENC	
	Thickness	N/A			Pressure Drop	N/A		208V, 30A, 1 Phase		NONE	

Area 709 & 710 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		UTILITY			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	30"x30"		Heated Process Water		N/A		Special Outlet Config		NONE
	Material	S.S.			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	CW,HW			Pressure Rating	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Drop	N/A		UPS		NONE
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		NONE
	Services	N/A		Process Steam Equipment		N/A		Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency S	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate Return	N/A			Foot-candle	50
	Floor Drain	NONE			Max Backpressure	N/A			Dimming / Mu	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type)		CARD			Timer Control	NONE
Waste		NONE		Intrusion Detection		YES			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		YES			Daylighting S	NONE
	Air	YES		Other		NONE			Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		WET
	Pure (Zero) A	NONE		Data / Telephone		2		Smoke or Heat Detectors		HEAT
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	NONE

Appendix C – Compressed Gas Control Center

Gas cylinder racks with safety chains needed for storage.

ROOM NAME:		**COMPRESSED GAS CONTROL CENTER**				**BSL:**		2			
AREA NUMBER:		**711**									
DEPARTMENT:		**CHEMISTRY**									
UNIT:		**CS/TX**				**ROOM TYPE:**		LAB			
ADJACENCIES:											
Department		**CHEMISTRY**									
Area Number		**401, 403, 404, 709, 710**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE
	Staff Count	1			Summer Min	65-72			Quantity		N/A
ARCHITECTURAL					Winter Min &	65-72			Size		N/A
Floor Material		CONCRETE		Occupied Humidity					Sash height		N/A
Base		NONE			Summer Min	30-50%			Airflow		N/A
Partition Type		CMU			Winter Min &	30-50%			Face Velocity		N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Drop		N/A
Ceiling Type		APC			Summer Min	65-72			Piped Services		N/A
	Height	12'-0"			Winter Min &	65-72			Cup sink / Water		N/A
Door Type		LAB		Un-Occupied Humidity					Storage Below		N/A
	Vision Panel	NONE			Summer Min	30-50%			Electrical		N/A
	Seals	YES			Winter Min &	30-50%		Recirculating Hood (Type)			NONE
	Overhead Door	YES		Light Power Density (watt/s		1.4			Quantity		N/A
	Cased Opening	YES		Equip Power Density (watt/		6			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	N/A			Directional	NEGATIVE			Airflow		N/A
	Fixed or Mobile	N/A			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Pressure Drop		N/A
	Base Cabinets	NONE			Supply	14			Piped Services		N/A
	Wall Cabinets	NONE			Exhaust	N/A			Electrical		N/A
	Glass Fronts	NONE		Air Recurc or Exhaust		Exh		Point Exhaust			N/A
	Swinging or Sliding	N/A		EHS Min Air Changes					Quantity		N/A
	Shelves Wall or Ber	NONE			Occupied	code			Size		N/A
	Glassware Storage	NONE			Un-Occupied	code			Airflow		N/A
	Rack Shelving	NONE		EHS Required Min ACH					Pressure Drop		N/A
Bench top				Process Chilled Water		N/A			Snorkel		N/A
	Material	NONE			Flow	N/A		**ELECTRICAL**			
	Color	N/A			Pressure Rat	N/A		110V, 20A, 1 Phase			6
	Thickness	N/A			Pressure Dro	N/A		208V, 30A, 1 Phase			NONE

Area 711 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type					Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	NONE		Heated Process Water				Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	N/A			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Dro	N/A		UPS		NONE
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		NONE
	Services	N/A		Process Steam Equipment				Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	NONE			Pressure	N/A			Type	LED
	Eyewash	N/A			Condensate F	N/A			Foot-candle	30
	Floor Drain	NONE			Max Backpre	N/A			Dimming / Multi-Level	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Control	NONE
Local Polisher		NONE		Door Access Control (Type		CARD			Timer Control	NONE
Waste		NONE		Intrusion Detection		NONE			Occupancy Sensor	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting Sensor	NONE
	Air	NONE		Other		NONE			Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		WET
	Pure (Zero) Air	NONE		Data / Telephone		2		Smoke or Heat Detectors		HEAT
	Other	NONE		Wall Mounted Telephone		1		**MONITORING**		
				Intercom System (PA)		YES			Temperature/ Humidity	NONE
				Paging		YES			Equipment	NONE

Appendix C – Flammable Storage

ROOM NAME:		**Flammable Storage**				**BSL:**		2			
AREA NUMBER:		**712**									
DEPARTMENT:		**CHEMISTRY**									
UNIT:		**CS/TX**				**ROOM TYPE:**		LAB			
ADJACENCIES:											
Department		**Support Areas**									
Area Number		**710**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of Use	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE
	Staff Count	1			Summer Min	65-72			Quantity		N/A
ARCHITECTURAL					Winter Min &	65-72			Size		N/A
Floor Material		CONCRETE		Occupied Humidity					Sash height		N/A
Base		NONE			Summer Min	45-60%			Airflow		N/A
Partition Type		CMU			Winter Min &	45-60%			Face Velocity		N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Drop		N/A
Ceiling Type		APC			Summer Min	65-72			Piped Services		N/A
	Height	12'0"			Winter Min &	65-72			Cup sink / Water		N/A
Door Type		LAB		Un-Occupied Humidity					Storage Below		N/A
	Vision Panel	NONE			Summer Min	45-60%			Electrical		N/A
	Seals	YES			Winter Min &	45-60%		Recirculating Hood (Type)			NONE
	Overhead Door	Yes		Light Power Density (watt/s		1.4			Quantity		N/A
	Cased Opening	N/A		Equip Power Density (watt/		6			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	METAL			Directional	NEGATIVE			Airflow		N/A
	Fixed or Mobile	Fixed			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Pressure Drop		N/A
	Base Cabinets	YES			Supply	14			Piped Services		N/A
	Wall Cabinets	NONE			Exhaust	N/A			Electrical		N/A
	Glass Fronts	NONE		Air Recurc or Exhaust		Exh		Point Exhaust			
	Swinging or Sliding	NONE		EHS Min Air Changes					Quantity		N/A
	Shelves Wall or Bench	NONE			Occupied	code			Size		N/A
	Glassware Storage	NONE			Un-Occupied	code			Airflow		N/A
	Rack Shelving	NONE		EHS Required Min ACH					Pressure Drop		N/A
Bench top				Process Chilled Water		N/A			Snorkel		N/A
	Material	EPOXY			Flow	N/A		**ELECTRICAL**			
	Color	TBD			Pressure Rat	N/A		110V, 20A, 1 Phase			4
	Thickness	1"			Pressure Dro	N/A		208V, 30A, 1 Phase			NONE

Area 712 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		NONE			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	N/A		Heated Process Water		N/A		Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	N/A			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type					Pressure Dro	N/A		UPS		NONE
	Size	NONE			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		YES
	Services	N/A		Process Steam Equipment		N/A		Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency Shower	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate F	N/A			Foot-candle	30
	Floor Drain	NONE			Max Backpre	N/A			Dimming / Multi-Le	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Control	NONE
Local Polisher		NONE		Door Access Control (Type		CARD			Timer Control	NONE
Waste		NONE		Intrusion Detection		NONE			Occupancy Senso	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting Sensor	NONE
	Air	NONE		Other		NONE			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		WET
	Pure (Zero) Air	NONE		Data / Telephone		2		Smoke or Heat Detectors		HEAT
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/ Hum	NONE
				Paging		YES			Equipment	NONE

Appendix C – Bulk Chemical Storage

ROOM NAME:		**BULK CHEMICAL STORAGE**				**BSL:**		2			
AREA NUMBER:		**713**									
DEPARTMENT:		**CHEMISTRY**									
UNIT:		**CS/TX**				**LAB TYPE:**		LAB			
ADJACENCIES:											
Department		**Support Area**									
Area Number		**710**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of U	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE
	Staff Count	1			Summer Min	65-72			Quantity		N/A
ARCHITECTURAL					Winter Min &	65-72			Size		N/A
Floor Material		CONCRETE		Occupied Humidity					Sash height		N/A
Base		NONE			Summer Min	30-50%			Airflow		N/A
Partition Type		CMU			Winter Min &	30-50%			Face Velocity		N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Dro		N/A
Ceiling Type		APC			Summer Min	65-72			Piped Service		N/A
	Height	12'0"			Winter Min &	65-72			Cup sink / W		N/A
Door Type		LAB		Un-Occupied Humidity					Storage Belo		N/A
	Vision Panel	NONE			Summer Min	30-50%			Electrical		N/A
	Seals	YES			Winter Min &	30-50%		Recirculating Hood (Type)			N/A
	Overhead Doo	Yes		Light Power Density (watt/s		1.4			Quantity		N/A
	Cased Openi	N/A		Equip Power Density (watt/		6			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	METAL			Directional	NEGATIVE			Airflow		N/A
	Fixed or Mob	Fixed			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Pressure Dro		N/A
	Base Cabinet	YES			Supply	14			Piped Service		N/A
	Wall Cabinets	NONE			Exhaust	N/A			Electrical		N/A
	Glass Fronts	NONE		Air Recurc or Exhaust		Exh		Point Exhaust			N/A
	Swinging or S	NONE		EHS Min Air Changes					Quantity		N/A
	Shelves Wall	NONE			Occupied	code			Size		N/A
	Glassware St	NONE			Un-Occupied	code			Airflow		N/A
	Rack Shelvin	NONE		EHS Required Min ACH					Pressure Dro		N/A
Bench top				Process Chilled Water		N/A			Snorkel		N/A
	Material	EPOXY			Flow	N/A		**ELECTRICAL**			
	Color	TBD			Pressure Rat	N/A		110V, 20A, 1 Phase			4
	Thickness	1"			Pressure Dro	N/A		208V, 30A, 1 Phase			NONE

Area 713 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		NONE			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	N/A		Heated Process Water		N/A		Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	N/A			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type					Pressure Dro	N/A		UPS		NONE
	Size	NONE			Supply Temp	N/A		Explosion Proof		N/A
	Material	N/A			Delta T	N/A		GFCI Outlets		YES
	Services	N/A		Process Steam Equipment		N/A		Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency S	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate F	N/A			Foot-candle	30
	Floor Drain	NONE			Max Backpre	N/A			Dimming / Mu	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type		CARD			Timer Control	NONE
Waste		NONE		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	NONE		Other		NONE			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		WET
	Pure (Zero) A	NONE		Data / Telephone		2		Smoke or Heat Detectors		HEAT
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	NONE
				Paging		YES			Equipment	NONE

Appendix C – Hazardous Waste Storage

ROOM NAME:		**HAZARDOUS WASTE STORAGE**				**BSL:**		2			
AREA NUMBER:		**714**									
DEPARTMENT:		**CHEMISTRY**									
UNIT:		**CS/TX**				**LAB TYPE:**		LAB			
ADJACENCIES:											
Department		**Support Area**									
Area Number		**710**									
UTILIZATION				**MECHANICAL**				**HOODS**			
	Schedule of U	1		Occupied Temperature				Exhausted Hood (Type)			N/A
	Staff Count	12			Summer Min	65-72			Quantity		N/A
ARCHITECTURAL					Winter Min &	65-72			Size		N/A
Floor Material		CONCRETE		Occupied Humidity					Sash height		N/A
Base		NONE			Summer Min	30-50%			Airflow		N/A
Partition Type		CMU			Winter Min &	30-50%			Face Velocity		N/A
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Dro		N/A
Ceiling Type		APC			Summer Min	65-72			Piped Service		N/A
	Height	12'0"			Winter Min &	65-72			Cup sink / W		N/A
Door Type		LAB		Un-Occupied Humidity					Storage Belo		N/A
	Vision Panel	NONE			Summer Min	30-50%			Electrical		N/A
	Seals	YES			Winter Min &	30-50%		Recirculating Hood (Type)			N/A
	Overhead Doo	Yes		Light Power Density (watt/s		1.4			Quantity		N/A
	Cased Openi	N/A		Equip Power Density (watt/		6			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	METAL			Directional	NEGATIVE			Airflow		N/A
	Fixed or Mob	Fixed			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Pressure Dro		N/A
	Base Cabinet	YES			Supply	14			Piped Service		N/A
	Wall Cabinets	NONE			Exhaust	N/A			Electrical		N/A
	Glass Fronts	NONE		Air Recurc or Exhaust		Exh		Point Exhaust			
	Swinging or S	NONE		EHS Min Air Changes					Quantity		N/A
	Shelves Wall	NONE			Occupied	code			Size		N/A
	Glassware St	NONE			Un-Occupied	code			Airflow		N/A
	Rack Shelvin	NONE		EHS Required Min ACH					Pressure Dro		N/A
Bench top				Process Chilled Water		N/A			Snorkel		N/A
	Material	EPOXY			Flow	N/A		**ELECTRICAL**			
	Color	TBD			Pressure Rat	N/A		110V, 20A, 1 Phase			4
	Thickness	1"			Pressure Dro	N/A		208V, 30A, 1 Phase			NONE

714 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		NONE			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	N/A		Heated Process Water		N/A		Special Outlet Config		NONE
	Material	N/A			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	N/A			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type					Pressure Dro	N/A		UPS		NONE
	Size	NONE			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		YES
	Services	N/A		Process Steam Equipment		N/A		Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency S	NONE			Pressure	N/A			Type	LED
	Eyewash	NONE			Condensate R	N/A			Foot-candle	30
	Floor Drain	NONE			Max Backpre	N/A			Dimming / Mu	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type		CARD			Timer Control	NONE
Waste		NONE		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	NONE		Other		NONE			Task Lighting	YES
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		WET
	Pure (Zero) A	NONE		Data / Telephone		2		Smoke or Heat Detectors		HEAT
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	NONE
				Paging		YES			Equipment	NONE

Appendix C – Weapons Clearing and Storage

Shelving for weapon storage provided by Lessor.

ROOM NAME:		**Weapons Clearing & Storage**				**BSL:**		2				
AREA NUMBER:		**715**										
DEPARTMENT:		**Support Areas**										
UNIT:						**LAB TYPE:**		LAB				
ADJACENCIES:												
Department		**CSR**										
Area Number		**710**										
UTILIZATION				**MECHANICAL**				**HOODS**				
	Schedule of U	12 HOURS		Occupied Temperature				Exhausted Hood (Type)			NONE	
	Staff Count	1			Summer Min	65-72			Quantity		N/A	
ARCHITECTURAL					Winter Min &	65-72			Size		N/A	
Floor Material		EPOXY		Occupied Humidity					Sash height		N/A	
Base		RWB			Summer Min	30-50%			Airflow		N/A	
Partition Type		GWB			Winter Min &	30-50%			Face Velocity		N/A	
	Paint	SEMI-GLOSS		Un-Occupied Temperature					Pressure Dro		N/A	
Ceiling Type		APC			Summer Min	65-72			Piped Service		N/A	
	Height	10'-0"			Winter Min &	65-72			Cup sink / W		N/A	
Door Type				Un-Occupied Humidity					Storage Belo		N/A	
	Vision Panel	LAB			Summer Min	30-50%			Electrical		N/A	
	Seals	NONE			Winter Min &	30-50%		Recirculating Hood (Type)			NONE	
	Overhead Doo	NONE		Light Power Density (watt/s		1.4			Quantity		N/A	
	Cased Openi	NONE		Equip Power Density (watt/		6			Size		N/A	
Casework				Pressure Control					Sash height		N/A	
	Material	METAL			Directional	NEGATIVE			Airflow		N/A	
	Fixed or Mob	MOBILE			Active	N/A			Face Velocity		N/A	
Storage				Filtration MERV					Pressure Dro		N/A	
	Base Cabinet	NONE			Supply	14			Piped Service		N/A	
	Wall Cabinets	NONE			Exhaust	N/A			Electrical		N/A	
	Glass Fronts	NONE		Air Recurc or Exhaust		EXH		Point Exhaust			NONE	
	Swinging or S	NONE		EHS Min Air Changes					Quantity		N/A	
	Shelves Wall	NONE			Occupied	6 ACH			Size		N/A	
	Glassware St	NONE			Un-Occupied	3 ACH			Airflow		N/A	
	Rack Shelvin	SPECIALTY		EHS Required Min ACH		ACH			Pressure Dro		N/A	
Bench top				Process Chilled Water					Snorkel		N/A	
	Material	NONE			Flow	N/A		**ELECTRICAL**				
	Color	N/A			Pressure Rat	N/A		110V, 20A, 1 Phase			1 PER 4 LF BEN	
	Thickness	N/A			Pressure Dro	N/A		208V, 30A, 1 Phase			NONE	

Area 715 Continued

PLUMBING					Supply Temp	N/A		208V, 30A, 3 Phase		NONE
Sink Type		Hand			Delta T	N/A		480V, 100A, 3 Phase		NONE
	Size	16"x14"x10"		Heated Process Water		N/A		Special Outlet Config		NONE
	Material	EPOXY			Flow	N/A		Standby Pwr (Generator)		NONE
	Services	CW, HW			Pressure Rat	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Dro	N/A		UPS		NONE
	Size	N/A			Supply Temp	N/A		Explosion Proof		NONE
	Material	N/A			Delta T	N/A		GFCI Outlets		NONE
	Services	N/A		Process Steam Equipment		N/A		Clocks		YES
Safety					Flow	N/A		**LIGHTING**		
	Emergency S	None			Pressure	N/A			Type	LED
	Eyewash	None			Condensate F	N/A			Foot-candle	30
	Floor Drain	None			Max Backpre	N/A			Dimming / Mu	NONE
Pure Water Type		NONE		**SECURITY**					Zoning Contro	NONE
Local Polisher		NONE		Door Access Control (Type		CARD			Timer Control	NONE
Waste		SANITARY		Intrusion Detection		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Video Surveillance		NONE			Daylighting S	NONE
	Air	NONE		Other		NONE			Task Lighting	NONE
	Vacuum	NONE		**COMMUNICATIONS**				**FIRE PROTECTION**		
	Nitrogen	NONE		Audio/Video		NONE		System Type		WET
	Pure (Zero) A	NONE		Data / Telephone		2		Smoke or Heat Detectors		HEAT
	Other	NONE		Wall Mounted Telephone		YES		**MONITORING**		
				Intercom System (PA)		YES			Temperature/	YES
				Paging		YES			Equipment	NONE

Appendix C – Janitor Supply Closet and Storage

ROOM NAME:		**JANITOR/SUPPLY CLOSET**				**BSL:**		N/A			
AREA NUMBER:		**716 AND 717**				**ISO CLASS:**		NONE			
DEPARTMENT:		**SUPPORT**									
UNIT:						**LAB TYPE:**		JANITOR CLOSET			
ADJACENCIES:											
Department											
Area Number											
UTILIZATION								**HOODS**			
	Schedule of U	12 HOURS						Exhausted Hood (Type)			NONE
	Staff Count	0							Quantity		N/A
ARCHITECTURAL									Size		N/A
Floor Material		SHEET							Sash height		N/A
Base		RWB							Airflow		N/A
Partition Type		GWB							Face Velocity		N/A
	Paint	EPOXY							Static Pressu		N/A
Ceiling Type		APC							Piped Service		N/A
	Height	10'-0"							Cup sink / W		N/A
Door Type		3' SINGLE							Storage Belo		N/A
	Vision Panel	NONE							Electrical		N/A
	Seals	N/A						Recirculating Hood (Type)			NONE
	Overhead Doo	N/A		Light Power Density (watt/s		1			Quantity		N/A
	Cased Openi	N/A		Equip Power Density (watt/		N/A			Size		N/A
Casework				Pressure Control					Sash height		N/A
	Material	NONE			Directional	Negative			Airflow		N/A
	Fixed or Mob	N/A			Active	N/A			Face Velocity		N/A
Storage				Filtration MERV					Static Pressu		N/A
	Base Cabinet	NONE			Supply	N/A			Piped Service		N/A
	Wall Cabinets	NONE			Exhaust	N/A			Electrical		N/A
	Glass Fronts	N/A		Air Recurc or Exhaust		Exh		Point Exhaust			
	Swinging or S	N/A		EHS Min Air Changes					Quantity		N/A
	Shelves Wall	NONE			Occupied	N/A			Size		N/A
	Glassware St	NONE			Un-Occupied	N/A			Airflow		N/A
	Rack Shelvin	NONE		Vibration Sensitivity		N/A			Static Pressu		N/A
Bench top				Room Noise Level		N/A			Snorkel		N/A
	Material	N/A		Process Chilled Water				**ELECTRICAL**			
	Color	N/A			Flow	N/A		110V, 20A, 1 Phase			1
	Thickness	N/A			Pressure Rat	N/A		208V, 30A, 1 Phase			NONE

Area 716 & 717 Continued

PLUMBING					Static Pressu	N/A		208V, 30A, 3 Phase		NONE
Sink Type		MOP BASIN			Supply Temp	N/A		480V, 100A, 3 Phase		NONE
	Size	NEOANGLE			Delta T	N/A		Special Outlet Config		NONE
	Material	TERAZZO		Heated Process Water				Standby Pwr (Generator)		NONE
	Services	CW, HW			Flow	N/A		Conditioned Power		NONE
Sink Type		NONE			Pressure Rat	N/A		UPS		NONE
	Size	N/A			Static Pressu	N/A		Explosion Proof		NONE
	Material	N/A			Supply Temp	N/A		GFCI Outlets		YES
	Services	N/A			Delta T	N/A		Clocks		NONE
Safety				Process Steam Equipment				**LIGHTING**		
	Emergency S	NONE			Flow	N/A			Type	LED
	Eyewash	NONE			Pressure	N/A			Foot-candle	10
	Floor Drain	NONE			Condensate F	N/A			Dimming / Mu	NONE
Pure Water Type		NONE			Max Backpre	N/A			Zoning Contro	NONE
Local Polisher		NONE		**SECURITY**					Timer Control	NONE
Waste		SANITARY		Door Access Control (Type		NONE			Occupancy S	YES
Piped Services (Press/Qual/Vol)				Intrusion Detection		NONE			Daylighting S	NONE
	Air			Video Surveillance		NONE			Task Lighting	NONE
	Vacuum	NONE		Other		N/A		**FIRE PROTECTION**		
	Nitrogen	NONE		**COMMUNICATIONS**				System Type		WET
	Pure (Zero) A	NONE		Audio/Video		NONE		Smoke or Heat Detectors		TBD
	Other	NONE		Data / Telephone		NONE		**MONITORING**		
		NONE		Wall Mounted Telephone		NONE			Temperature/	NONE
				Intercom System (PA) / Pa		NONE			Equipment	NONE

APPENDIX D – Additional Information

1. Vibration Criteria

The building needs to be designed to meet vibration criteria for two conditions, foot-fall vibrations and vibrations caused by any passing traffic or modes of transportation near the property.

General office areas will be designed to not exceed 16000 micro inches per second (mips). Spans, load and deflection criteria may control, leading to significantly lower than 16000 mips performance in office areas.

Laboratory spaces will be designed and constructed to minimize building-induced and environmental vibrations in accordance with recognized vibration criteria. Structural and MEP systems must support equipment functionality and ensure compliance with applicable vibration limits for analytical instrumentation and equipment. Laboratory spaces, at a minimum, shall have a vibration Class A environment (2000 micro-in/s RMS vibration velocity). Refer to Appendix E for the equipment with known vibration considerations within laboratory spaces.

The structural design and a final vibration report shall be part of the construction documents phase of the project.

2. Laboratory Equipment

i. Laboratory Fume Hoods

a) Fume hoods must comply with DFDM master specifications and maintenance contracts established with the DOJ.
b) Size: Multiple sizes as noted.
c) Base Cabinets: Metal Flammable Storage, Vented Acid waste storage or as noted on Room Data Sheets.
d) Sash: Counter weighted vertical rising sash.
e) Sash Glazing: Tempered ¼" safety glass.
f) Liner: Modified epoxy resin liner, adjustable baffle.
g) Worktop: Cast epoxy resin worktop.
h) Cupsink: As noted
i) Interior light: LED.
j) Electrical: Two 120v receptacles.
k) Specialized gases: See appendix E

ii. Bio-Safety Cabinets

a. BSL-2 areas: Class II/Type A1, 4' and 6' Cabinet as noted.

b. All cabinets will be by Baker, Labconco, Nuaire or equal as described in CDC/NIH Primary Containment for Biohazards. HEPA-filtered exhaust air from a Class II/A1 & A2 biological safety cabinet will be fully or partially recirculated into the room. The face velocity into the bio-safety cabinets and laboratory fume hoods will be designed in

accordance with NSF 49 and ASHRAE 110 (typically controlled for 100 feet per minute velocity through the sash opening when it is in the normal operating position).

iii. Fume Extractors (commonly referred to as snorkels)

a. Snorkels shall be ceiling mountable extraction arm type equal to Movex MET 2000-75.

3. Other Laboratory Equipment

All laboratory equipment indicated on the Appendix E – Laboratory Equipment per Room shall be incorporated in the design. Appendix E also indicates equipment that should be provided and/or installed by Lessor.

4. Laboratory Furnishings

a) Adjustable metal laboratory casework systems by Kewaunee Scientific, Mott or equal as approved by the Lessee
b) The Casework system will include spline and overhead ceiling panel systems for lab gasses and power.
c) Material: Powder coated metal in colors as selected by Architect
d) Fixed Mounting: Demountable, C-Frame, height adjustable casework. Fixed countertops are to be wall mounted. All rolling casework or cabinets to be mounted on heavy duty wheels with removable top-drawer section. In BSL2 laboratories, the top-drawer sections to be stackable to form additional rolling casework units.
e) Hinges: Five knuckle stainless steel
f) Slides: Manufacturers standard telescoping slides, 100 lb. minimum
g) Latches: Friction, magnetic, or self-closing type
h) Locks manufacturers standard, US 26 finish
i) Floor levelers: Fixed casework, screw type, fully adjustable
j) Adjustable tables: Telescoping painted metal square tube steel adjustable in 1" increments.
k) Shelves: Steel, adjustable steel standards
l) Shelf Supports: Metal, manufacturers standard for wall and bench supports. Provide floor-mounted self-supporting shelf systems for all reagent racks and island bench cabinets for all suspended casework.
m) Reagent Racks: Stainless Steel
n) Worktops Cast epoxy resin (white or gray) or stainless steel
o) Gas Cylinder Racks: Subject to compliance with requirements, Safe-T-Rack Systems, Inc. Provide comparable products.
p) Rack Fabrication: 2 by 2 inch by 1/8-inch-thick steel tubing with welded joints and exterior grade baked on powder-coat finish, dual safety chains at each cylinder bay, and pre-drilled mounting holes for anchoring racks to floor and adjoining wall construction.

q) Safety chains: Manufacturer's standard chain and quick release fitting- two chains per cylinder.
r) Sinks: Cast epoxy resin, stainless steel, or solid surfacing, integral with tops
s) Eyewash + Hose: Deck mounted, single action, chrome finish with 8ft. Reinforced PVC hose with squeeze lever—operated valve, spray type outlet head.
t) Emergency shower: Fully accessible, barrier free recessed model by Broen, Guardian, Hawes, or approved equal. Emergency showers must have an associated drain on the floor.
u) Pegboards: Cast epoxy resin with white polypropylene pegs, mechanically fitted and friction mounted, removable. Stainless steel drain tray with clear polypropylene drain hose.
v) Balance Tables: 3" cast epoxy table equal to Kewaunee model K7-6590-00, if requested in design phase.
w) Service Fittings: Epoxy coated cast bronze by Chicago or Water Saver. Specific to lab gas requirements (ball valve, needle point valve, quick connect, handle type, pressure regulator, etc.)
x) Faucets: As noted above, with vacuum breakers or aspirator as noted.
y) Electrical Fittings: Manufacturers standard stainless-steel enclosures and faceplates. All electrical services fittings to be wall mounted at C-Frame metal casework.
z) Movable tables: Demountable, C-Frame, height adjustable casework. All rolling casework or cabinets to be mounted on casters with lockable wheels and with removable top-drawer section. The top-drawer sections to be stackable to form additional rolling casework units. Overhead cabinets/shelving, undermount cabinets & drawers, electrical/gas connections adaptable for quick connect to building systems.

Appendix E – Equipment Inventory Per Room (See pages 143-146)

Apendix E - Equipment Inventory Per Room

Ref No.	Room Description	Name	QTY	Dimensions (LxWxH) Inches	Voltage	# of Outlets	Back-up Power		Gasses? Y/N	# of Data Jacks	Mounting Location	DOJ Provided DOJ Installed	DOJ Provided Lessor Installed	Lessor provided Lessor Installed	Lessor Provided DOJ Installed	Additional Comments
							UPS	Generator	Type							
	Training															
102	Training Rm	AV display, control panel, camera, etc.	1 system	TBD	110	5	N	N	N	3	NA		X			
104	Demo Lab	Computer/Monitor (1)	1	25"x21"	110	2	N	N	N	2	BENCH	X				
104	Demo Lab	Ductless Fume Hood	1	48" x40"	220	1	N	N	N	0	BENCH	X				
104	Demo Lab	Instrument Connectivity	1	N/A	220/110	4	Y	N	Y	3	BENCH	X				
	Administration															
201	Office	Computer/Monitor (2)	1	45"x21"x21"	110	3	N	N	N	2	NA	X				
202	Office	Computer/Monitor (2)	1	45"x21"x21"	110	3	N	N	N	2	NA	X				
203	Office	Computer/Monitor (2)	1	45"x21"x21"	110	3	N	N	N	2	NA	X				
204	Conference Room	AV display, control panel, camera, etc.	1 system	TBD	110	5	N	N	N	3	NA		X			
205	Office	Computer/Monitor (2)	1	45"x21"x21"	110	3	N	N	N	2	NA	X				
	Evidence Receiving and Processing															
301	Evidence Entry Vestibule/Lobby	Pass thru Evidence Locker System with Refrigeration	1	48 x24 x 82"	115	2	Y	Y	N	0	FLOOR		X			
301	Evidence Entry Vestibule/Lobby	Computer/Touchscreen Monitor (1) (Future)	1	25"x21"x21"	110	2	N	N	N	1	BENCH	X				
304	Evidence Receiving Counter	Computers/Monitor (2)	1	45"x21"x21"	110	3	N	N	N	2	BENCH	X				
304	Evidence Receiving Counter	Barcode Printer	1	8"x11"x9"	110	1	N	N	N	1	BENCH	X				
305	Evidence Receiving Work Area	Computer/Monitor (2)	3	45"x21"x21"	110	9	N	N	N	6	BENCH	X				
305	Evidence Receiving Work Area	Barcode Printer	3	8"x11"x9"	110	1	N	N	N	3	BENCH	X				
305	Evidence Receiving Work Area	Ductless Fume Hood	1	48"X40"	220	1	N	N	N	0	BENCH	X				
305	Evidence Receiving Work Area	Heat sealers	2	33"x22"x43"	110	2	N	N	N	0	BENCH/FLOOR	X				
306	Work/Copy/mailing area - Large	Postage Meter	1	18"x15"x12"	110	1	N	N	N	1	BENCH	X				
306	Work/Copy/mailing area - Large	Large Printer/Copy/Fax machine	1	58"x28"x61"	110	1	N	N	N	1	FLOOR	X				
307	Evidence Retrievals and Return Area	Computers/Monitor (1)	1	25"x21"x21"	110	2	N	N	N	2	BENCH	X				
307	Evidence Retrievals and Return Area	Printer	1	16"x17"x16"	110	1	N	N	N	1	BENCH	X				
307	Evidence Retrievals and Return Area	Pass thru Evidence Locker System with Refrigeration	1	84"x24"x 82"	115	2	Y	Y	N	0	FLOOR		X			
309	Evidence Freezer and Refrigerator Storage	Refrigerator (dual)	2	49 cu ft, 56"x36"x79"	115	4	Y	Y	N	0	FLOOR	X				
309	Evidence Freezer and Refrigerator Storage	Freezer	1	20 cu ft, 20"x36"x81"	115	2	Y	Y	N	0	FLOOR	X				
310	Evidence Staff open office	Computers/Monitor (2)	6	42"x24"x20"	110	18	Y	N	N	12	NA	X				
310	Evidence Staff open office	Document Scanner	6	12"x10"x10"	110	6	N	N	N	6	NA	X				
310	Evidence Staff open office	Barcode Printer	6	8"x11"x9"	110	6	N	N	N	6	NA	X				
	Chemistry															
	Controlled Substances (CSU)															
401	Controlled Substances Sample Prep	Computers/Monitor (2)	7	42"x24"x20"	110	21	N	N	N	7	BENCH	X				
401	Controlled Substances Sample Prep	Balances	15	16"x8"x5"	110	15	N	N	N	15	BENCH	X				Class A Vibration Criteria
401	Controlled Substances Sample Prep	Centrifuge	7	12"x12"x12"	110	7	N	N	N	0	BENCH	X				
401	Controlled Substances Sample Prep	Stereoscopes	7	16"x12"x 22"	110	7	N	N	N	0	BENCH	X				Class A Vibration Criteria
401	Controlled Substances Sample Prep	Vortex	7	8"x8"x8"	110	7	N	N	N	0	HOOD	X				
401	Controlled Substances Sample Prep	Hot Plate	7	12"x8"x6"	110	7	N	N	N	0	HOOD	X				
401	Controlled Substances Sample Prep	UV Box	1	14"x11"x10"	110	1	N	N	N	0	BENCH	X				
401	Controlled Substances Sample Prep	Heat Sealer	7	17"x4", 3"3x22"	110	4	N	N	N	0	BENCH	X				
401	Controlled Substances Sample Prep	Under Cabinet Lights	14		110	14	N	N	N	0	NA			X		
401	Controlled Substances Sample Prep	Fume Hood	7	72"x32"	110	Hardwire	N	N	Y (Nitrogen & Air)	0	FLOOR			X		
401	Controlled Substances Sample Prep	Dessicator	1	16"x12"x14"	110	1	N	N	N	0	BENCH	X				
401	Controlled Substances (CSU) Sample Prep	Barcode Printer	2	16"x12"x7"	110	2	N	N	N	2	BENCH	X				
401	Controlled Substances Sample Prep	Temperature Monitoring Gateway	1	TBD	110	1	Y	Y	N	1	WALL	X				
402	CSU Reagent Prep and Glass Washing	Refrigerator	1	34"x40"79"	110	1	Y	Y	N	0	FLOOR	X				
402	CSU Reagent Prep and Glass Washing	Freezer	1	34"x40"79"	110	1	Y	Y	N	0	FLOOR	X				
402	CSU Reagent Prep and Glass Washing	Lab Glassware washer Type II Water	1	23.6" X 23.6" X 36"	208	1	N	N	N	0	FLOOR		X			
402	CSU Reagent Prep and Glass Washing	Balance	1	16"x 9"x5"	110	1	N	N	N	1	BENCH	X				Class A Vibration Criteria

402	CSU Reagent Prep and Glass Washing	Fume Hood	1	72"x32"	TBD	Hardwire	N	N	Y (Nitrogen & Air)		FLOOR			X		
402	CSU Reagent Prep and Glass Washing	Vortex	1	8"x8"x8"	110	1	N	N	N	0	HOOD	X				
402	CSU Reagent Prep and Glass Washing	Hot Plate	1	12"x8"x5"	110	1	N	N	N	0	HOOD	X				
402	CSU Reagent Prep and Glass Washing	Sonnicator	1	12"x8"x10"	110	1	N	N	N	0	HOOD	X				
402	CSU Reagent Prep and Glass Washing	Computer/Monitor (1)	1	25"x24x20"	110	2	N	N	N	2	BENCH	X				
403	CSU Instrument room	Gas Chromatograph (GC)	7	41"x28"x37"	110	7	Y	Y	Y (Nitrogen, Helium, Hydrogen, Air	7	BENCH	X				Class A Vibration Criteria
403	CSU Instrument room	Gas Chromatograph/Mass Spectrometer (GC/MS)	7	41"x28"x37"	110	21	Y	Y	Y (Nitrogen, Helium, Air)	14	BENCH	X				Class A Vibration Criteria
403	CSU Instrument room	Fourier Transform Infrared Spectrometer (FTIR)	2	21"x28"x14"	110	2	Y	N	N	2	BENCH	X				Class A Vibration Criteria
401	CSU Instrument room	Refrigerator/Freezer	1	25"x24"x33"	110	1	Y	Y	N	0	Floor	X				
403	CSU Instrument room	Computers/Monitor (2)	10	42"x24"x20"	110	27	Y	Y	N	9	BENCH	X				
403	CSU Instrument room	Printer	2	18"x18"x14"	110	2	N	N	N	2	BENCH	X				
403	CSU Instrument room	Flatbed scanner	1	12"x21"x9"	110	1	N	N	N	0	BENCH	X				
403	CSU Instrument room	Snorkels (above instrument vents)	15	TBD	TBD	TBD	N	N	N	0	CEILING			X		
	Toxicology															
404	TX Instrument room	Gas Chromatograph/Headspace	2	49"x30"x32"	110	4	Y	Y	Y (Nitrogen, Helium, Hydrogen, Air)	4	BENCH	X				
404	TX Instrument room	QToF	2	57'x48"x60"	220/110	16	Y	Y	Y (Argon, Nitrogen, Hydrogen)	4	TABLE	X				
404	TX Instrument room	Liquid Chromatograph/Mass spectrometer/Mass Spectromet LCMSMS (future Technology)	2	30"x30"x40"	220/110	8	Y	Y	Y	4	BENCH	X				
404	TX Instrument room	GCMS	2	41"x28"x37"	110	9	Y	Y	Y (nitrogen, helium, hydrogen, air)	6	BENCH	X				
404	TX Instrument room	EP Motion	2	28"x28"x33"	110	2	Y	N	N	2	BENCH	X				
404	TX Instrument room	Centrifuge	1	14"x2"6"	110	2	N	N	N	2	BENCH	X				
404	TX Instrument room	Computers/Monitor (2)	6 system	42"x24"x20"	110	2	Y	Y	N	14	BENCH	X				
404	TX Instrument room	Local Nitrogen Generator	1	23"x28"x26"	220	2	Y	Y	N	0	FLOOR		X			
404	TX Instrument room	Local Hydrogen Generator	2	TBD	220	2	Y	Y	N	0	FLOOR		X			
404	TX Instrument room	Snorkels (above instrument vents)	8	TBD	TBD	TBD	N	N	N	0	CEILING			X		
405	TX Reagent Prep and Glass Washing	Water Polisher Type 1	1	12"x15"x24"	110	2	N	N	N	0	BENCH	X				
405	TX Reagent Prep and Glass Washing	Lab Glassware washer Type II Water	1	24"x24"x36"	208	1	N	N	N	0	FLOOR		X			
405	TX Reagent Prep and Glass Washing	Freezer	1	25"x27"x37"	110	1	Y	Y	N	0	FLOOR	X				
405	TX Reagent Prep and Glass Washing	Refrigerator	1	25"x27"x37"	110	1	Y	Y	N	0	FLOOR	X				
405	TX Reagent Prep and Glass Washing	Balance	1	16"x8"x5"	110	1	N	N	N	1	BENCH	X				Class A Vibration Criteria
405	TX Reagent Prep and Glass Washing	Fume Hood	1	65"x33"	TBD	Hardwire	N	N	Y (Nitrogen)	0	FLOOR			X		
405	TX Reagent Prep and Glass Washing	Computer/Monitor (1)	1	25"x24x20"	110	2	N	N	N	2	BENCH	X				
405	TX Reagent Prep and Glass Washing	Barcode Printer	1	16"x12"x7"	110	1	N	N	N	1	BENCH	X				
406	TX Extraction Lab	Turbo Vap	2	15"x14"x20"	110	1	N	N	Y (Nitrogen)	0	HOOD	X				
406	TX Extraction Lab	Positive Pressure Manifold	3	11"x12"x18"	110	2	N	N	N	0	HOOD	X				
406	TX Extraction Lab	Diluter Dispenser	1	10"x8"x25"	110	1	N	N	N	0	HOOD	X				
406	TX Extraction Lab	Thermomixer	2	9"x13"x8"	110	1	N	N	N	0	HOOD	X				
406	TX Extraction Lab	Tube Rocker	1	14"x5"x5"	110	1	N	N	N	0	HOOD	X				
406	TX Extraction Lab	Tube Rotator	1	16"x12"x23"	110	1	N	N	N	0	HOOD	X				
406	TX Extraction Lab	Fume Hood	4	65"x33"	110	1	N	N	Y	0	FLOOR			X		
406	TX Extraction Lab	Heat Sealer	1	18"x4"x9"	110	1	N	N	N	0	BENCH	X				
406	TX Extraction Lab	Refrigerator	2	34"x40"79"	110	2	Y	Y	N	0	FLOOR	X				
406	TX Extraction Lab	Computers/Monitor (2)	2	42"x24"x20"	110	2	N	N	N	2	BENCH	X				

406	TX Extraction Lab	Printer	1	18"x18"x12"	110	1	N	N	N	1	BENCH	X					
406	TX Extraction Lab	Scanner	1	13"x20"x10"	110	1	N	N	N	1	BENCH	X					
406	TX Extraction Lab	Bio Safety Cabinet	3	66"x36"	110	2	N	N	N	0	FLOOR			X			
407	Chemistry Staff open office	Barcode Printer	2	8"x11"x9"	100	2	N	N	N	2	NA	X					
407	Chemistry Staff open office	Printer	1	18"x18"x12"	110	1	N	N	N	1	NA	X					
407	Chemistry Staff open office	Computers/Monitor (2)	11	42"x24"x20"	110	33	Y	N	N	11	NA	X					
	Criminalistics																
	Latent Prints/Footwear Unit																
501	LP/FW Processing Lab	Vacuum Metal Deposition Chamber VMD	1	56"x84"x78"	208	2	N	N	N	2	FLOOR	X				*Load Capacity Conisderations, 1,650 lbs	
501	LP/FW Processing Lab	VMD Water Chiller	1	39"x15"x24"	208	1	N	N	N	0	FLOOR	x					
501	LP/FW Processing Lab	Water Polisher Type 1	1	12"x12"x15"	110	1	N	N	N	0	BENCH	X					
501	LP/FW Processing Lab	Lab Glassware washer Type II Water	1	25"x29"36"	208	1	N	N	N	0	FLOOR	X					
501	LP/FW Processing Lab	Balance	1	8"x13"x4"	110	1	N	N	N	0	BENCH	X					Class A Vibration Criteria
501	LP/FW Processing Lab	Heat Sealer	1	18"x4"x11"	110	2	N	N	N	0	BENCH	X					
501	LP/FW Processing Lab	Heat Sealer	1	33"x22"x43"	110	2	N	N	N	0	FLOOR	X					
501	LP/FW Processing Lab	Fume Hood	4	72"x36"x107"	110	Hardwire	N	N	N	0	FLOOR			X			
501	LP/FW Processing Lab	Chargers	8	NA	110	8	N	N	N	0	BENCH	X					
501	LP/FW Processing Lab	irons	2	5"x7"x12"	110	2	N	N	N	0	BENCH	X					
501	LP/FW Processing Lab	Heat Plate	6	8"x9"x5"	110	6	N	N	N	0	BENCH	X					
501	LP/FW Processing Lab	Magnifying light	4	10"x10"x24"	110	4	N	N	N	0	BENCH	X					
501	LP/FW Processing Lab	Shaker	1	25"x27"x7"	110	1	N	N	N	0	BENCH	X					
501	LP/FW Processing Lab	Power Heat Press	1	17"x25"x28"	110	1	N	N	N	0	BENCH	X					
501	LP/FW Processing Lab	Large Super Glue Chamber	1	84"x54"x94"	110	6	N	N	N	0	FLOOR	X					
501	LP/FW Processing Lab	Hamilton Chamber	1	43"x22"x84"	110	4	N	N	N	0	FLOOR	X					
501	LP/FW Processing Lab	Laptops	4	15"x10"x12"	110	4	N	N	N	4	BENCH	X					
501	LP/FW Processing Lab	mini fridge	1	24"x24"x34"	110	1	Y	Y	N	0	BENCH	X					
501	LP/FW Processing Lab	Humidity Chamber	1	44"x27"x44"	110	3	N	N	N	0	FLOOR	X					
501	LP/FW Processing Lab	Ductless Downflow Workstation	1	48"x22.75"	120	2	N	N	N	0	BENCH	X					
502	Laser Room	FSIS	1	51"x31"x36"	110	5	N	N	N	2	BENCH	X					
502	Laser Room	Black Tack Board	2	TBD	0	0	N	N	N	0	WALL		X				
502	Laser Room	Crime Scope ALS	2	90"x9"x14"	110	1	N	N	N	0	BENCH	X					
502	Laser Room	Tracer Laser	2	90"x15"x12"	110	1	N	N	N	0	BENCH	X					
502	Laser Room	Lights	4	NA	110	4	N	N	N	0	BENCH	X					
502	Laser Room	Chargers	4	NA	110	4	N	N	N	0	BENCH	X					
502	Laser Room	Camera	1	44"x30"x60"	110	1	N	N	N	0	BENCH	X					
502	Laser Room	Vacuum Pump	1	44"x22"x20"	110	1	N	N	N	0	BENCH	X					
502	Laser Room	Scanner	1	12"x21"x7"	110	1	N	N	N	1	BENCH	X					
502	Laser Room	Computer/Monitor (2)	3	45"x21"x21"	110	9	N	N	N	3	BENCH	X					
514	Criminalistics Staff open office	Computer/Monitor (2)	4	68"x27"x27"	110	12	Y	N	N	4	NA	X					
514	Criminalistics Staff open office	Light	4	NA	110	4	N	N	N	0	NA	X					
514	Criminalistics Staff open office	Scanner	4	12"x21"x7"	110	4	N	N	N	1	NA	X					
215	Criminalistics Staff open office	Barcode Printer	4	8"x11"x9"	110	4	N	N	N	0	NA	X					
513	Criminalistics Staff open office	Printer	1	21"x21"x27"	110	4	N	N	N	1	NA	X					
	Imaging																
504	Imaging Studio	Mounted Extension Cords	8	NA	110	8	N	N	N	0	WALL	X					
504	Imaging Studio	Cameras	6	NA	110	12	N	N	N	0	BENCH	X					
504	Imaging Studio	Lap top	2	16"x10"x12"	110	2	N	N	N	2	BENCH	X					
504	Imaging Studio	Lights	15	NA	110	15	N	N	N	0	FLOOR	X					
504	Imaging Studio	Alternate light sources	3	90"x15"x14"	110	3	N	N	N	0	BENCH	X					
504	Imaging Studio	Copy Stand with 2 Lights	2	70"x40"x90"	110	10	N	N	N	0	FLOOR	X					
504	Imaging Studio	Chargers	10	NA	110	10	N	N	N	0	BENCH	X					
504	Imaging Studio	Backlights	2	25"x18"x72"	110	2	N	N	N	0	FLOOR	X					
504	Imaging Studio	Backdrop Screen	1	120"x44"x200"	0	0	N	N	N	0	WALL	X					
504	Imaging Studio	Slat Wall	1	120"x44"x120"	0	0	N	N	N	0	WALL		X				
504	Imaging Studio	Metal Wall	1	91"x1"x100"	0	0	N	N	N	0	WALL		X				
504	Imaging Studio	Studio Stand	1	51"x40"x144"	0	0	N	N	N	1	FLOOR	X					
504	Imaging Studio	Grid Lighting	1	216"X24"x216"	110	4	N	N	N	2	CEILING	X					
513	Imaging Staff open office	Computer/Monitor (2)	2	73"x21"x21"	110	10	N	N	N	2	NA	X					

513	Imaging Staff open office	Printer	3	25"x18"x18"	110	1	N	N	N	1	NA	X				
513	Imaging Staff open office	Barcode Printer	1	8"x11"x9"	110	1	N	N	N	1	NA	X				
513	Imaging Staff open office	Analog converters	6	4"X4"x4"	110	6	N	N	N	0	NA	X				
513	Imaging Staff open office	Shredder	1	12"x18"x26"	110	1	N	N	N	0	FLOOR	X				
513	Imaging Staff open office	Scanner	1	26"x19"x9"	110	1	N	N	N	1	NA	X				
	Firearms and Toolmark Unit															
506	Firearms Lab	Comparison Microscope	2	36"x25"x60"	110	6	N	N	N	2	TABLE	X				Class A Vibration Criteria
506	Firearms Lab	Stereoscope	2	27"x12"x25"	110	2	N	N	N	0	BENCH	X				Class A Vibration Criteria
506	Firearms Lab	Heat Sealer	1	18"x4"x11"	110	1	N	N	N	0	FLOOR	X				
506	Firearms Lab	Balances	2	5"x7"x3"	110	1	N	N	N	0	BENCH	X				
506	Firearms Lab	CADRE 3D imaging system	1	60"x14"x24"	110	4	N	N	N	1	BENCH	X				
506	Firearms Lab	Computer/Monitor (2)	1	16"x10"x12"	110	3	N	N	N	1	BENCH	X				
510	Serial Number Restoration Room	Fume Hood*	1	72"x36"x107"	110	Hardwire	N	N	Y (Air)	0	FLOOR			X		
510	Serial Number Restoration Room	Snorkel (above moveable table)	1	TBD	TBD	TBD	N	N	N	0	CEILING			X		
513	Firearms Staff open office	Barcode Printer	2	8"x11"x9"	110	2	N	N	N	2	NA	X				
513	Firearms Staff open office	Printer	1	16"x17"x16"	110	3	N	N	N	3	NA	X				
513	Firearms Staff open office	Computer/Monitor (2)	2	45"x21"x21"	110	6	Y	N	N	2	NA	X				
600	Crime Scene Response Team (CSR)															
601	CSR Vehicle Processing Garage	Charging Stations	10	48"x30"x4"	110	10	N	N	N	0	BENCH	X				
601	CSR Vehicle Processing Garage	Computer/Monitors (2)	1	45"x21"x21"	110	3	N	N	N	1	BENCH	X				
601	CSR Vehicle Processing Garage	Barcode Printer	1	8"x11"x9"	110	1	N	N	N	1	BENCH	X				
601	CSR Vehicle Processing Garage	Mini Fridge	1	24"x24"x34"	110	1	N	N	N	0	FLOOR	X				
601	CSR Vehicle Processing Garage	Drying cabinet	1	60"x30"x74"	110	2	N	N	N	0	FLOOR	X				
601	CSR Vehicle Processing Garage	Mounted Extension Cords	10	TBD	110	10	N	N	N	0	WALL/CEILING	X				
601	CSR Vehicle Processing Garage	Superglue chamber (Future)	1	84"x54"x94"	110	6	N	N	N	0	FLOOR	X				
601	CSR Vehicle Processing Garage	Mobile Vehicle Lift	4	72"x72"	110	4	N	N	N	0	FLOOR	X				
601	CSR Vehicle Processing Garage	Ceiling Rail/LED Light/Compressed Gas/Cord Reel	1	256"x256"	110	8	N	N	N	0	CEILING		X			
602	CSR Screening Room	Fume Hood*	1	72"x36"x107"	110	Hardwire	N	N	N	0	FLOOR			X		
608	CSR Staff open office	Computer/Monitor (2)	2	42"x21"x21"	110	6	N	Y	N	4	NA	X				
608	CSR Staff open office	Barcode Printer	1	8"x11"x9"	110	1	N	N	N	1	NA	X				
700	Support Areas															
701	Testimony Phone Room	Computer/Monitors & Camera Setup	2	45"x21"x21"	110	12	N	N	N	6	NA	X				
702	Conference Room/Library	AV display, control panel, camera, etc	1 System	TBD	110	5	N	N	N	3	NA		X			
703	Office File and Supply Storage	Computers/Monitors	1	25"x21"x21"	110	2	N	N	N	1	NA	X				
704	Lactation Room	Mini Refrigerator	1	24"x24"x28"	110	1	N	N	N	0	NA	X				
711	Compressed Gas Control Center	Centralized Nitrogen Generator	1	TBD					Y		FLOOR					

Appendix F – Form to Submit Proposers Questions

STATE OF WISCONSIN, DEPARTMENT OF ADMINISTRATION
REQUEST FOR PROPOSAL No. 455-016

Instructions: On or before 2:00 CT, June 11, 2026 Proposers may submit written requests for clarification of this RFP and/or questions to the DOA by utilizing this form. Please submit the completed form via email to doarealestateinfo@wisconsin.gov. Written responses to properly submitted relevant requests for clarification and/or questions from Proposers will be posted by the DOA by June 18, 2026 on the following website:

https://doa.wi.gov/Pages/DoingBusiness/Current-Real-Estate-RFPs-and-RFIs.aspx

Solicitation of information regarding this RFP from State of Wisconsin, DOA, or DOJ personnel other than through this form and process is prohibited and may result in disqualification of the Proposer.

Contact Information: All fields must be completed by the Proposer submitting the form.

Name (Please Print):

_____

Proposer Team:

_____

Company/Affiliation:

_____

Email Address:

_____

Telephone Number:

_____

RFP Section	Page No.	Request for Clarification and/or Question

Appendix G – Proposer's Response Sheet and Estimated Project Cost- Ten Year Initial Lease Term

Proposed Building Address_____Proposal Date_____

RENTAL RATE PROPOSAL:

I. SQUARE FOOTAGE: As defined Section III C. 1, Quality and Flexibility of Buildings Design of the RFP

A) Total useable square feet (does not include common area) _____
B) Load Factor (if applicable) _____
C) Total rentable square feet (includes common areas) _____

II. GROSS RENTAL RATE CALCULATION: All amounts must be listed as annual rent per rentable sq. ft.

a) Net Building Rate $_____/sq. ft.

b) Operating Expenses (sum of 1-7 below) $_____/sq. ft.

1) Real Estate Taxes $_____/sq. ft.
2) Insurance $_____/sq. ft.
3) In-Suite Janitorial $_____/sq. ft.
4) Common Area Maintenance (CAM) $_____/sq. ft.
5) Premises' Natural Gas $_____/sq. ft.
6) Premises' Electricity $_____/sq. ft.
7) All Other Operating Expenses (e.g., repairs & maintenance, etc.). Provide separate detailed breakout of components as exhibit) $_____/sq. ft.

c) Total Tenant Improvements (sum of 1-3 below) $_____/sq. ft.

Provide total costs and annual cost per sq. ft.

1) Estimated Tenant Improvement Costs $_____ $_____/sq. ft.
2) Estimated Furniture & Installation Costs $_____ $_____/sq. ft.
3) Estimated Cabling Costs $_____ $_____/sq. ft.

d) Lessor Incentives Offered (sum of 1-3 below) Enter total allowance & reduction/RSF $(_____)/sq. ft.

1) Tenant Improvement Allowance $_(_____)_ $(_____)/sq. ft.
2) Furniture & Installation Allowance $_(_____)_ $(_____)/sq. ft.
3) Cabling Costs Allowance $_(_____)_ $(_____)/sq. ft.

Gross Rental Rate (sum of (a), (b), (c), & (d) above $_____/sq. ft.

Notes: 1) The State requires a gross lease with any and all operating expenses included in the Gross Rental Rate.
2) Tenant Improvements above include Premises Build out costs, furniture & installation and cabling costs. Provide total costs for each expense type and provide the applicable rent per square foot included in the annual Gross Rental Rate.
3) All lines above must be completed. Place "N/A" for any terms that are not applicable.

III. TERMS AND CONDITIONS:

A)	Length of Lease (Initial Lease Term)	Ten (10) years
B)	Annual Escalator, if any (shall not apply to Net Tenant Improvements)	_____%
C)	Renewal Options	Four 5-yr. options
D)	Renewal Gross Rental Rate – (do not include Tenant Improvement Amortization – costs fully amortized over Initial Lease Term)	$_____/ sq. ft.
E)	Tenant Access Date (one month prior to Lease Commencement Date)	_____ __, 202X
F)	Lease Commencement Date	_____ __, 202X
G)	# Of Free Months of Rent Offered, if any	_____

[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK,
RESPONSE SHEET CONTINUED ON NEXT PAGE]

Lease Year **Initial Lease Year**	**Base Rent**	**Estimated Operating Expense**	**Estimated Amortization**	**Estimated Annual Rent**
Year 1				
Year 2				
Year 3				
Year 4				
Year 5				
Year 6				
Year 7				
Year 8				
Year 9				
Year 10				
1st Renewal Term				
Year 11				
Year 12				
Year 13				

Year 14							
Year 15							
2nd Renewal Term							
Year 16							
Year 17							
Year 18							
Year 19							
Year 20							
3rd Renewal term							
Year 21							
Year 22							
Year 23							
Year 24							
Year 25							
4th Renewal Term							
Year 26							
Year 27							
Year 28							
Year 29							
Year 30							

SUBMITTED BY:

Proposer's Contact Information	**Proposer's Agent Contact Information (if different)**
Company Name	Agent/Firm Name
Full Address (street and city)	Full Address (street and city)
Telephone Number (Office/Mobile)	Telephone Number (Office/Mobile)
Email Address	Email Address
Contact Name	Contact Name
Signature Date _____	Signature Date _____

Appendix G – Proposer's Response Sheet and Estimated Project Cost- Twenty Year Initial Lease Term

Proposed Building Address_____Proposal Date_____

RENTAL RATE PROPOSAL:

I. SQUARE FOOTAGE: As defined Section III C. 1, Quality and Flexibility of Buildings Design of the RFP

D) Total useable square feet (does not include common area) _____
E) Load Factor (if applicable) _____
F) Total rentable square feet (includes common areas) _____

II. GROSS RENTAL RATE CALCULATION: All amounts must be listed as annual rent per rentable sq. ft.

a) Net Building Rate $_____/sq. ft.

c) Operating Expenses (sum of 1-7 below) $_____/sq. ft.

8) Real Estate Taxes $_____/sq. ft.
9) Insurance $_____/sq. ft.
10) In-Suite Janitorial $_____/sq. ft.
11) Common Area Maintenance (CAM) $_____/sq. ft.
12) Premises' Natural Gas $_____/sq. ft.
13) Premises' Electricity $_____/sq. ft.
14) All Other Operating Expenses (e.g., repairs & maintenance, etc.). Provide separate detailed breakout of components as exhibit) $_____/sq. ft.

c) Total Tenant Improvements (sum of 1-3 below) $_____/sq. ft.

Provide total costs and annual cost per sq. ft.

4) Estimated Tenant Improvement Costs $_____ $_____/sq. ft.
5) Estimated Furniture & Installation Costs $_____ $_____/sq. ft.
6) Estimated Cabling Costs $_____ $_____/sq. ft.

d) Lessor Incentives Offered (sum of 1-3 below) Enter total allowance & reduction/RSF $(_____)/sq. ft.

4) Tenant Improvement Allowance $_(_____)_ $(_____)/sq. ft.
5) Furniture & Installation Allowance $_(_____)_ $(_____)/sq. ft.
6) Cabling Costs Allowance $_(_____)_ $(_____)/sq. ft.

Gross Rental Rate (sum of (a), (b), (c), & (d) above $_____/sq. ft.

Notes: 1) The State requires a gross lease with any and all operating expenses included in the Gross Rental Rate.
2) Tenant Improvements above include Premises Build out costs, furniture & installation and cabling costs. Provide total costs for each expense type and provide the applicable rent per square foot included in the annual Gross Rental Rate.
3) All lines above must be completed. Place "N/A" for any terms that are not applicable.

III. TERMS AND CONDITIONS:

A)	Length of Lease (Initial Lease Term)	Twenty (20) years
B)	Annual Escalator, if any (shall not apply to Net Tenant Improvements)	_____%
C)	Renewal Options	Four 5-yr. options
D)	Renewal Gross Rental Rate – (do not include Tenant Improvement Amortization – costs fully amortized over Initial Lease Term)	$_____/ sq. ft.
E)	Tenant Access Date (one month prior to Lease Commencement Date)	_____ __, 202X
F)	Lease Commencement Date	_____ __, 202X
G)	# Of Free Months of Rent Offered, if any	_____

Lease Year **Initial Lease Year**	**Base Rent**	**Estimated Operating Expense**	**Estimated Amortization**	**Estimated Annual Rent**
Year 1				
Year 2				
Year 3				
Year 4				
Year 5				
Year 6				
Year 7				
Year 8				
Year 9				
Year 10				
Year 11				
Year 12				
Year 13				
Year 14				
Year 15				
Year 16				
Year 17				
Year 18				
Year 19				

Year 20							
1st Renewal Term							
Year 21							
Year 22							
Year 23							
Year 24							
Year 25							
2nd Renewal Term							
Year 26							
Year 27							
Year 28							
Year 29							
Year 30							
3rd Renewal term							
Year 31							
Year 32							
Year 33							
Year 34							
Year 35							
4th Renewal Term							
Year 36							
Year 37							
Year 38							
Year 39							
Year 40							

SUBMITTED BY:

Proposer's Contact Information	**Proposer's Agent Contact Information (if different)**
Company Name	Agent/Firm Name
Full Address (street and city)	Full Address (street and city)
Telephone Number (Office/Mobile)	Telephone Number (Office/Mobile)
Email Address	Email Address
Contact Name	Contact Name
Signature Date _____	Signature Date _____

Appendix H- Link to State of Wisconsin Sample Lease and Schedules I and II

Sample Lease link: https://doa.wi.gov/DFTS/GrossLeaseTemplate.pdf

NOTE: The State's Gross Lease template is currently under review, with changes anticipated. All Proposers must review the State's Gross Lease template prior to submission of their proposals. It is assumed that all lease provisions contained the current Gross Lease Template are acceptable to the Proposer, unless otherwise noted in the Proposer's proposal.

Sample Schedule I link: Schedule-I_Template_linked_on_Fac_Mgmt_Internet_Webpage.pdf

Sample Schedule II link: Schedule-II_Template_linked_on_Fac_Mgmt_Internet_Webpage.pdf

Note: If there is a conflict between the specifications in this RFP and Schedule I or Schedule II, the specifications will supersede the language in Schedule I and Schedule II.

Appendix I – Designation of Confidential and Proprietary Info Form

STATE OF WISCONSIN, DEPARTMENT OF ADMINISTRATION

REQUEST FOR PROPOSALS No. 455-016

Wausau Crime Laboratory

The attached material submitted in response to RFP No. 455-016 includes proprietary and confidential information which qualifies as a trade secret, as provided in §19.36(5), Wis. Stats., or is otherwise material that can be kept confidential under the Wisconsin Open Records Law. As such, we ask that certain pages, as indicated below, of this proposal response be treated as confidential material and not be released without our written approval.
Exception: Prices within proposals are always open record 'after' the lease agreement is awarded and fully executed.

Other information cannot be kept confidential unless it is a trade secret. Trade secret is defined in §134.90(1)(c), Wis. Stats. as follows: "Trade secret" means information, including a formula, pattern, compilation, program, device, method, technique, or process to which all of the following apply:

1. The information derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by, other persons who can obtain economic value from its disclosure or use.
2. The information is the subject of efforts to maintain its secrecy that are reasonable under the circumstances.

We request that the following pages not be released:

Item	Page(s)	Section	Topic
1			
2			
3			
4			
5			

6			

IN THE EVENT THE DESIGNATION OF CONFIDENTIALITY OF THIS INFORMATION IS CHALLENGED, THE UNDERSIGNED HEREBY AGREES TO PROVIDE LEGAL COUNSEL OR OTHER NECESSARY ASSISTANCE TO DEFEND THE DESIGNATION OF CONFIDENTIALITY.

Failure to include this form in the proposal response may mean that all information provided as part of the proposal response will be open to examination and copying. The state considers other markings of confidential in the proposal document to be insufficient. The undersigned agrees to hold the state harmless for any damages arising out of the release of any materials unless they are specifically identified above.

Company Name	
Authorized Representative (Signature)	
Authorized Representative (Type or Print Name)	
Date	