Part 3 Scope of Work / Project Program

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1 PROJECT DESCRIPTION

A. GENERAL DESIGN INTENT

- 1. This project includes the renovation of a building wing known as the Lejeune room of Building 2615, Camp Lejeune Officer's Club.
 - a) Building 2615 is a one story 41,216 square foot building with a small tower room located at 1180 Seth Williams Blvd in the Paradise Point area of Camp Lejeune. The building is the Camp Lejeune Officer's Club building. The building was originally constructed in 1942. The Lejeune room is approximately 2,550 square feet central wing located at the rear of the building. This Design-Build will fully replace and expand the Lejeune room which has been significantly damaged by Hurricane Florence and subsequent storms. The project renovation will include approximately 3,000 SF of new construction and 2,500 SF of renovation of the Entry Lobby, Bar/Storage and Mechanical Room.
 - b) The Lejeune room is a single story, 2,550 square foot wing located at the rear of the Officer's Club (building 2615). The wing serves as a general meeting/event venue. This Design-Build building renovation effort will enlarge and fully replace (demolish then renovate) the current floor plan to upgrade and expand the space as a venue function.
 - c) Renovate the Lejeune room bar, located in the west anteroom off the Lejeune room lobby.
 - d) Demolish and replace existing brick patio area located to the west of the Lejeune room bar.
 - e) Create an outdoor covered eating space along the East and West sides of the Lejeune room.
 - f) Demolish and replace pool fence.
- A project planning diagram is included in Part 6 of this RFP as Attachment A1. This diagram divides the project into fifteen (15) separate zones called Scope of Work (SOW) zones or areas.
- 3. Floor plans for building 2615 are included in Part 6 of this RFP as Attachment A2. It is the intention of this RFP for the Designer of Record to introduce a design regarding each of the following key project aspects:
 - a) Room Configuration
 - b) Ceiling design
 - c) Bar layout and circulation
 - d) Trim and millwork
 - e) Interior and exterior Lighting
 - f) Fenestration
 - g) Flooring

The Design-Build Team shall meet with the tenants at the CDW to confirm the appropriateness of the plan, evaluate the necessity and propriety of the scope of work

indicated, and incorporate all revisions identified as a result of these meetings. Should the CDW result in an approach other than those offered in the proposal, the contractor shall submit an RFI identifying any areas requiring a change in price or schedule, and await direction from the Contracting Officer before proceeding. Full Design Packages are required for the areas included in this RFP.

- 4. Site improvements at Building 2615 include landscape improvements and sidewalk/patio replacements. Site Plans are included in Part 6 as part of Attachment A1.
- 5. General Statements for the renovation design:
 - a) New floor plans and site work must meet Accessibility requirements in UFC 1-200-01 to maximum extent without major changes to the existing structure. Reference ADA Checklist for Existing Buildings in Part 6 Attachment B.
 - b) Provide a fire alarm system with an addressable Fire Alarm/Mass Notification system with CO detection that ties in with new fire alarm system project (CL-032) for building 2615. Where applicable, demolish existing fire sprinkler systems to base of risers. Provide new wet pipe fire sprinkler systems in the Lejeune room. All work shall meet all requirements of UFC 1-200-01. See section 4, parts T and U for additional details.
 - c) Although a significant inspection by destruction of the interior was performed, properly abate and dispose of all lead and asbestos materials identified during the sampling performed and reported in the Asbestos Report of Building 2615, Part 6, Attachment C as well as materials identified in historical reports. Quantity of materials to be properly abated and disposed of is not limited to the quantities identified in the report. Instead ALL lead and asbestos materials of similar color, texture, age and size throughout the building's interior and exterior should be assumed to contain asbestos or lead. Asbestos containing materials (i.e. containing more than one percent) and Lead-Based Paint (i.e. detected at equal or greater than 0.5% lead concentration by weight) identified in the report and located in areas covered by this project must be abated.
 - d) Contractor shall treat all items listed below as if they contain asbestos/lead, and provide abatement and disposal. For items identified, Contractor must abate, regardless if after award the material is determined as non-hazardous.
 - 9" Black Floor Tile and Adhesive (Estimated Quantity: <1,300 SF)
 - Exterior Caulking, Windows and Doors (Estimated Quantity: <1,500 LF)
 - Residual Mastic where tile has been removed (Estimated Quantity: <100 SF)
 - Exterior Caulking, brick expansion joints where wings meet corridor/connectors (Estimated Quantity: <60 LF)
 - Miscellaneous Sealant (Estimated Quantity: 1 SF))
 - Miscellaneous Floor Coverings, Floor Underlayments; Exterior Wall Vapor Barriers; Attic Equipment Areas (Estimated Quantity: < 30 SF)

- Roofing Sealant, Silver (Estimated Quantity: < 20 SF)
- e) Refer to report in Appendix C for more information but note that the report covers the entire Building 2615.
- f) All under slab piping, sewer and water (if found), must be removed and replaced if required up to 5' from the building.
- g) For interior room signage requirements, reference MCBCL Sign Standards and Graphics in Part 6 Attachment E.
- h) Refer to General Notes in Part 6, Attachment A4.
- 6. As-built Drawing Package must be included in final submittal package to include AutoCAD files.
- 7. The roofs of the anterooms (SOW-3 and SOW-4) have known leaking issues. This RFP will require a roofing solution to resolve the flooding in these areas. The Government preference is to transform the existing flat roofs to pitch roof system. Provide roof layout options.
- 8. Comply with IBC chapter 33 on occupancy separation.
- 9. Relocation of aquatics temporary building in SOW-7 area will be required.
- 10. All aquatic fencing (SOW-10 & 11) will be demolished and replaced.
- 11. During construction and planning out laydown areas, the following stipulations should be met:
 - a) If construction is to occur during the pool season (generally from Memorial Day to Labor Day), the pool area (SOW-7) must remain accessible to tenants and guests. Provide construction fence in compliance with IBC chapter 33.
- 12. The design team may elect to prioritize design to focus on the design package and follow up with the balance of the construction document package in order to meet the design package deadline.

2 PROJECT OBJECTIVES

A. MISSION

The mission of this project is to maximize the space utilization for the functions of the buildings undergoing renovation as part of the RFP.

B. DESIGN RESPONSIBILITY

It shall be the priority for the Design-Build Team to acknowledge and exercise its duty to complete field investigations, validate Activity's needs and develop a definitive design to meet the needs of the Activity as well as fit within the project's site and criteria parameters. Attention is directed to Specifications section 01 31 19.05 20 in which the Design-Build Contractor is required to undertake a Concept Design Workshop, a client-interactive process by which the project's definitive concept design shall be established and agreed to by all parties. The Design-Build Contractor shall bring already developed options for each building to the CDW. The combined PAK and CDW meeting shall be undertaken in immediate proximity to Marine Corps Base Camp Lejeune; and the Design-Build Contractor shall bear all travel, lodging, subsistence and related costs of its personnel, associated A&E personnel, and any others that may require participation.

C. SUSTAINABLE DESIGN

Specific sustainability requirements are found in this document.

D. WORKFLOW PROCESS

- 1. Temporary aquatics structure (SOW-7) must be relocated and appropriate fencing removed.
- 2. Temporary wall must be built prior to demolition of existing Lejeune Room (SOW-1).
- 3. Upon completion of the project return site to its original condition, unless otherwise noted in this RFP, including but not limited to sidewalk repair or replacement, sod (centipede) and landscaping.
- 4. The design package for the sites, demolition, and renovations, shall be submitted in one design package for review and acceptance.

3 SITE ANALYSIS

A. EXISTING CONDITIONS

The buildings within the RFP are located within the Paradise Point area of Camp Lejeune. Existing utilities include water lines, sanitary sewer main, storm water, overhead electric and underground telephone.

B. SITE WORK

- 1. Landscape Requirements: All landscaping within 15 feet of original structure can be removed. Provide new landscape (to include plants, ground cover, edging, etc.) within 15 feet of the building exterior and to accommodate new configuration of mechanical equipment, basement improvements, etc. The DOR shall have a registered landscape architect involved in this process. Landscape features should be low maintenance. The MCBCL does not maintain landscape features other than lawn areas and bushes that do not require maintenance. Refer to ESR G2050 for more details.
- 2. Upgrade sidewalks to meet ADA requirements within the site boundary identified in Part 6 Attachment A1. Repair or replace existing sidewalks located within the site boundary. Assume all sidewalks located within 15 feet of original structure will require replacement. New sidewalks must match existing color and finish.

4 BUILDING REQUIREMENTS

A. SOW-1 (Lejeune Room):

- 1. Complete demolition of building wing (SOW-1), including but not limited to walls, roof, foundation, crawl space, sidewalks, patios, landscape, related plumbing, mechanical, electrical and fire suppression:
- 2. Provide new expanded room matching the existing width (Plan-West/East direction) by 70'-0" (Plan-North/South direction), symmetrically located at the Plan-North side of the existing Lejeune Room lobby (SOW-2).
- 3. Slab on grade:
 - a) Complete demolition of the items found in the crawl space
 - b) In fill existing crawl space
 - c) Gravel base with perforated pipe drainage system connected to existing underground storm sewer system.
 - d) Vapor barrier.
 - e) Structural slab and finish floor per ESR
 - f) Top of finish floor of new construction must match the height of the top of the finish floor in existing Lejeune Room lobby (SOW-2).
- 4. Exterior Walls:
 - a) Provide fenestration to approximately match existing conditions on Plan-West and East exterior facing walls. Fixed windows to match existing muntins configuration. Provide windows on Plan-North wall to maximize view to the river. Windows on Plan-North should extend entire width and should be floor to ceiling with minimal mullion and frame visible. Provide window blinds to allow the partial or total blockage of the Plan-North views. At issue is that Plan-NW views including the pool area, which may need to be obscured depending on activities occurring in the Lejeune room.
 - b) Brick veneer to match existing type, color and texture.
 - c) Vinyl wood trim to match existing profiles
 - d) Fiber cement siding on gable roof end(s) conditions to match existing configuration.
- 5. Finishes: See ESR
- 6. Other:
 - a) Ceiling height: must at least match existing conditions to allow the use of the flags for color guard.
 - b) Lighting: The nine (9) Chandeliers that were in the Lejeune room have been placed in storage (Section 6, Attachment D) and can possibly be reused. However, the DOR should create a lighting plan that uses a mix of lighting fixtures (sconces, recessed lighting, chandeliers, etc.) that both aesthetically match the design of the room and blends with the remainder of the building.

- c) Window Treatments: See Room requirements
- **B.** SOW-2 (Lejeune room lobby)
 - 1. Demolish existing single doors, retractable partition connecting Lejeune room to Lejeune room lobby, and any non-structural wall condition. The objective is to maximize the spatial integration of the new and renovated spaces.
 - 2. Demolish existing wall between SOW-2 (Lejeune room lobby) and SOW-4 (bar area). Provide structural support as necessary. The objective is to maximize the spatial integration of the adjacent spaces.
 - 3. Demolish carpet and associated thresholds. Match flooring with main Lejeune room (SOW-1)
 - 4. Demolish display case located at entrance leading from Officer's club lobby to Lejeune room lobby. At issue is to address life safety exiting requirements, separation of occupancies, and the blockage of views from the Main Entry Lobby.
 - 5. Provide secure and weatherproof temporary wall between existing building and new construction.
- C. SOW-3 (Sun Room area Plan West)
 - 1. Complete demolition of interior finishes, exterior wall and windows to accommodate new exit doors, and any other work necessary to allow for correct aesthetic transition with adjacent spaces.
 - 2. Double door emergency exit on Plan-North wall.
- **D.** SOW-4 (Bar area Plan East)
 - 1. Complete demolition of interior finishes, exterior wall and windows to accommodate new exit doors, and any other work necessary to allow for correct aesthetic transition with adjacent spaces.
 - 2. Double door emergency exit on Plan-North wall towards the renovated patio.
 - 4. Provide sufficient power connections for double door glass cooler (~8'x~4'), cash register, ice machine and keg cooler.
- **E.** SOW 2, 3, 4, 15 Common features:
 - 1. The design of all windows must provide an aesthetically and logical transition between the existing and new fenestration character
 - 2. Finishes: Fully integrated. See ESRs
 - 3. Crown molding: plaster and/or wood trim fully integrated throughout the new and renovated areas
 - 4. Bar casework:
 - a) AWI Premium grade cabinetry with transparent natural finish
 - b) Solid surface counter tops
 - c) Stainless Steel sink with gooseneck faucet and hot and cold connections.

- d) Power and data outlet connections
- e) Bar must be designed and located in such a way to provide a visual clue of its functionality. This feature must be aesthetically integrated to the whole interior character of the bar/lobby areas.
- F. SOW-5 & 9 (Mechanical Room and Bar Storage)
 - 1. Complete demolition of walls, doors, ceilings, HVAC and electrical equipment and any other item to allow the new functions to operate properly (if necessary).
 - 2. Expand mechanical room towards bar storage area as necessary.
 - 3. Provide floor drain in Mechanical Room.
 - 4. Mechanical Room (SOW-5): Double door on Plan-East exterior wall
 - 5. Provide wall with an acoustical STC rating of 60
 - 6. Finishes: See ESR
- G. SOW-6 Plan-West outside
 - 1. Demolish existing patio and landscape items as necessary
 - 2. Provide new knockdown colored concrete patio with scored pattern, picket fence and personnel gate to access to Plan-West patio and sidewalk leading to the pool area (SOW-14).
 - 3. Sidewalks: see sidewalk item below
 - 4. Landscape: see landscape item below
 - 5. Railing: see railing item below
- H. SOW-7 Plan-North outside
 - 1. Demolish existing patio/walkway and landscape as necessary
 - 2. New patio and hardscape. Knockdown colored concrete patio. This patio does not need to be covered. Provide design where the patio is integrated to the "view to the river" theme.
 - 3. Sidewalks: see sidewalk item below
 - 4. Landscape: see landscape item below
 - 5. Railing: see railing item below
 - 6. Storm Water: eliminate water ponding between new addition (SOW-1) and pool area. Re-grade, slope to new catch basin connected to underground storm sewer system.
 - 7. Lighting: see lighting item below
- I. SOW-8 Plan-East outside
 - 1. Existing brick patio: demolish. Replace with knockdown colored concrete with an appropriate scored pattern.
 - 2. Infill as necessary to create one continuous patio terminating at the new addition.

- 3. Existing Planters and Trees: Replace with trees and/or plants recommended by arborist.
- 4. Sidewalks: see sidewalk item below
- J. SOW-12 and SOW-13
 - 1. Demolish existing patio/walkway and landscape as necessary.
 - 2. Provide a new patio and hardscape. Knockdown colored concrete patio.
 - 3. Create a covered eating area tied to the main Lejeune room.
 - 4. Provide overhead lighting and fans for the eating areas.
- K. Roofs (Over new and renovated spaces):
 - a) New standing seam metal roof system (SSMR), including:
 - Metal deck, insulation, vapor barrier, moisture resistant wood blocking, standing seam panels, caulking, attachments, etc.
 - Structural documents indicating decking type, fastening systems, upload calculations to meet code, etc.
 - Moisture resistant wood blocking as necessary to receive redesigned trim profile (PVC Molding, Fascia, and other related items). The new profile must match existing conditions of building 2615
 - Insulation compliant with ASHRAE guidelines over decking.
 - Factory finished aluminum drip edge
 - Self-adhering ice and water membrane over the entire roof surface as the underlayment for the standing seam metal roof.
 - Panel clips as per manufacture's recommendation for a 150 MPH wind in accordance with the Uniform Building Code for North Carolina coastal regions.
 - Pipe boots recommended by the standing seam metal roof manufacture on existing and new vent pipes.
 - Oversize 6" seamless gutters.
 - Rectangular downspouts 3" x 4" at maximum 24' OC. Downspout location must be per drainage requirement calculations as the minimum criteria. Add additional downspouts as necessary from an aesthetic point of view. Downspouts must be tied into existing storm water pipe system
 - Permanent fall protection.
 - Lightning protection.
 - Typical for all exterior colors: Submit actual samples for color approval by PWD/BEAP (Part 6, Attachment F).
 - b) Renovated areas: Demolish existing roof items to allow for the installation of a new standing seam metal roof system (SSMR)

- c) New areas: Provide new standing seam metal roof system (SSMR)
- L. Building Envelope:
 - 1. The DOR must design exterior building envelope to meet ASHRAE 90.1
 - 2. Provide drawings: Large scale section and details
 - 3. Provide data sheets for all products
- M. Sidewalks:
 - 1. Provide code ADA-compliant sidewalks to all new, or transitions between existing conditions and new.
 - 2. Sidewalk transitions to adjacent areas to match existing materials, finishes and dimensions.
 - 3. New sidewalks: as called for in landscape plan
 - 4. Special attention must be provided to warranty the continuity of the various building envelope components as they transition from new to renovated and from renovated to existing.
- N. Landscaping (special considerations)
 - 1. Plan-North will require landscaping feature that shields the view of the pool while allowing maximum view of the river.
 - 2. Plan-East: provide appropriate trees/plantings to maximize shade in patio area while minimizing the chance of root uplift of new concrete patio.
 - 3. Consult with landscape architect to develop landscape plan
- **O.** Railing:
 - 1. Hot deep galvanized ADA compliant. Paint
 - 2. Provide design consistent with the aesthetic qualities of the facility
- P. Fence
 - 1. Demolish existing chain link fence as necessary as shown in the site plan as SOW-11
 - 2. Replace with aluminum picket fence that serves as an appropriate barrier to the pool area as well as allows maximum visibility.
 - 3. Provide new entrance gates as necessary.
- **Q.** Pool Check-in booth/shed:
 - 1. Relocate to location determined by MCCS Aquatics as shown in site plan as SOW-10 and in Part 6, Attachment D. Provide concrete slab on which to place shed.
 - 2. Provide appropriate electrical power and data.
- **R.** Site Access and Staging:
 - 1. Provide repairs and new landscape items as necessary in all areas affected by this project.

- 2. Access via service road on Plan-East of building 2615.
- **S.** Gutters and downspouts:
 - 1. Aluminum, color to match existing conditions
 - 2. Capacity: Meet or exceed the required drainage capacity.
 - 3. Locations: Must be part of the elevation composition
- T. Plumbing:
 - 1. Hot and Cold water lines in SOW-4 (bar area).
 - 2. Outside freeze protected hose bibb on each exterior wall of SOW-1.
 - 3. Installation or repair of any piping, fittings, fixtures, solder or flux providing water for possible human consumption must be "lead-free" as defined by the Reduction of Lead in Drinking Water Act (RLDWA). The RLDWA revised the definition of lead free to a weighted average of 0.25% of the wetted surfaces of plumbing products. A methodology for calculating the weighted average of wetted surfaces can be found at www.epa.gov.

Contact info:

Water Quality Manager, 451-9518 Public Works Design Branch, 451-2212 Public Works Utilities Director, 451-5024

- U. HVAC:
 - 1. Demolish existing VAV air handler (AHU-4) serving the existing Lejeune Room area complete including all associated ductwork, VAV boxes, electrical, controls, heating hot water piping, runouts, and diffusers.
 - 2. Demolish existing makeup air unit (MAU-1) serving Bldg. 2615 complete including all associated ductwork, piping, electrical, and controls.
 - 3. Provide new 4-pipe VAV air handler complete to serve the new Lejeune Room space as described in Item A.
 - a) Locate the new AHU in the new mechanical room behind bar area on an 8" tall concrete housekeeping pad
 - b) Connect to existing chilled water and hot water systems currently serving Bldg 2615
 - c) Integrate AHU into existing building automation system (Alerton DDC Controls)
 - d) Provide new single duct VAV boxes (shut-off type) with hot water zone reheat to serve the new Lejeune Room
 - e) Air distribution shall be via linear slot diffusers, no 2x2 lay-in supply diffusers. Provide a continuous linear slot pattern around the entire perimeter soffit of the room utilizing active & inactive sections to create a seamless appearance with mitered corner sections. Designer shall size the width and number of slots to provide a sound criteria of NC < 20

- f) Return grilles shall be sidewall linear bar grilles with lined plenum box
- g) Provide new AHU electrical as required
- 4. Provide new 4-pipe dedicated outside air unit to serve Bldg. 2615 to provide dehumidified fresh air into the return ducts of AHU-3 & AHU-4
 - a) Locate the new DOAS in the attic where MAU-1 current reside
 - b) Connect to existing chilled water and hot water systems currently serving Bldg. 2615
 - c) Connect fresh air supply duct to new air handler serving Lejeune Room and to the return of existing AHU-3
 - d) Integrate DOAS into existing building automation system (Alerton DDC Controls)
 - e) Provide new DOAS electrical as required
- 5. Provide small dehumidifier for Mechanical Room space, do not provide ventilation. Mount dehumidifier to wall & route condensate to floor drain via hard piping.
- V. Electrical:
 - 1. Power and data outlets:
 - a) Minimum number and power requirements as specified in UFC 3-520-01 and NFPA 70.
 - b) Cover plates can be vinyl or metal and aesthetically match the trim work of the room.
 - 2. Ceiling mounted screen: Use existing automatic screen. Ensure inset in ceiling of SOW-1 is appropriately size and matches aesthetically with the room.
 - 3. Ceiling mounted projector:
 - a) Ceiling mounted projector will not be retractable
 - b) Provide aesthetically matching enclosure for the projector. Dimensions to be provided.
 - c) Provide appropriate electric/data connection in ceiling where projector will be located.
 - 4. Lighting must be dimmable in three separate zones going from Plan-North to Plan-South in SOW-1.
 - 5. LED lighting is required.
 - 6. Floor mounted outlets/data ports: In addition to the requirements in UFC 3-520-01 and NFPA 70, the floor mounted outlets closest to Plan-North wall of SOW-1 must have a data outlet.
 - 7. Exterior GFCI duplex receptacles every 20 feet on walls of SOW-1.
 - 8. Exterior lights over each exterior door.
 - 9. Adhere to all MCBCL electrical policies (Part 6, Attachment H)

W. Attic Space:

- 1. Insulated and non-vented.
- **X.** Fire Suppression:
 - 1. Provide new fire service to include new wet fire suppression system following NFPA 13 standards for new construction (Lejeune room (SOW-1) and attic above).
 - 2. Will require new fire riser.
 - 3. New water source for fire suppression system will be required. Any line used for fire protection requires a water extension permit from NCDEQ.
 - 4. Use concealed head sprinklers.
- U. Fire Alarm:
 - 1. As part of a separate contract (CL-032) there will have been a temporary backboard in the attic over the lobby to serve as a temporary home for 4 pull stations and ceiling mount speaker strobes for the new Lejeune room. As part of this project, extend conduit and wiring to the Lejeune room, provide backboxes, and relocate the devices. This will tie in with new Fire Alarm system being installed as part of project CL-032.

5 ROOM REQUIREMENTS

- 1. Provide complete building code analysis.
- 2. Occupant Load Factor per NFPA 101 Life Safety, Designer of Record to confirm type.
- 3. Provide lighting, switches and convenience & data outlets per code, regulation and requirements; coordinate with user.
- 4. Special requirements: Refer to Part 3 Chapter 4 for other items not listed in spaces below.
- 5. Provide finishes and wall types per Room Requirements tables.
- 6. Provide room signage. Reference MCBCL Sign Standards and Graphics in Part 6 Attachment E.

Space Name: DINING & VIP SPACES

Space Characteristics

Function/Adjacencies:	The space is a multipurpose venue used for large gatherings. SOW-1
Minimum Ceiling Height: Acoustics:	13'-3" minimum above finish floor Wall STC 45 / Door & Frame STC 42 (UON)
Access: Number of Occupants/Worl	Staff setations: A/R
Occupant Load Factor per 1	NFPA 101 Life Safety Code: Occupant Load per NFPA 101 Life Safety

 FF&E Info:
 N/A

 Audio/Visual System Info:
 Projector Mount, motorized Projector Screen. 2- 55" monitor wall mounts.

 Security System Info:
 N/A

 Other:
 N/A

Uniformat Section	Description	Qty	Size	Specific Requirements
B202001	Exterior Windows	A/R		Provide windows for natural light emission.
B202004	Exterior Glazing	A/R		Insulated – Low 'E' Glazing or Spectral glazing.
C102001	Interior/Exterior Doors	A/R		Interior: Provide wood or hollow metal frame and door (Style to match existing building character) with side lights of matching design (if applicable). Paint. Frosted glass (if applicable). Exterior: Provide Store Front aluminum insulated doors and Frames Doors and frames factory finished. Style to match existing building character.
C102007	Interior/Exterior Door Hardware	A/R	A/R Lever type handle for ADA compliance. Provide rain guards in all exterior doors	
C103004	Identifying Devices	A/R	A/R Provide signage - Coordinate room signage with the user.	
C3010	Wall Finish	SF GWB and Chair Rail, match existing height and profile. Pa		
C301001	Interior Painting	SF		Painted finishes to GWB, Base, and Chair Rail.
C301090 1.4	Wood Trim and Detailing Finishes	LF	LF Chair Rail: wood, size and finish to match design style of room Crown Molding: wood, size and finish to match design styl of room Window Trim: wood, size and finish to match design style room Door Trim: wood, size and finish to match design style of room	
C302010	Floor Finish	SY		Carpet or Carpet/Wood mixture
C3020	Wall Base Finish	LF		Wood Base. Paint
C3030	Ceiling Finish	SF	12"x12" Acoustical Ceiling Tiles and GWB bulkheads (Paint	
C303005	Suspension Systems		Suspended concealed grid compatible with ACT system.	
D3040	HVAC		Provide ducted supply and return. Grills must be linear slot diffusers	
D502001	Branch Wiring	A/R		Branch Circuits & Outlets per ESR

Minimum Ceiling

D50202	Lighting Equipment	A/R	Dimmable Lighting: Provide in compliance with UFC 3-530- 01. Provide in compliance with ASHRAE 90.1-2019.
D503001	Telecommunications	A/R	compliance with Specification 27 10 00
D503002	Public Address System	A/R	N/A
D503090	Other Alarms		Mass Notification
E201002	Window Treatment	A/R	Provide means to either have total blackout conditions or partial light transmission. Treatment style dependent on aesthetics of the room.

Space Name: TYPICAL MECHANICAL SPACES

Space Characteristics

Function/Adjacencies: Primary use for mechanical requirements (SOW-9). **Special Dimensions:** Minimum size as required to accommodate and allow for servicing equipment.

Height: DOR determine.

Acoustics: Provide sound and vibration isolation from all occupied spaces.

Access: Access from storage room or exterior of building

Occupant Load Factor per NFPA 101 Life Safety Code: Occupant Load per NFPA 101 Life Safety

FF&E Info: N/A Audio/Visual System Info: N/A Security System Info: Refer to ESRs

Uniformat Section	Description	Qty	Size	Specific Requirements
B202001	Exterior Windows			None. Should not have exterior windows.
B2030	Mechanical Exterior Doors	1	A/R	Hollow metal insulated galvanized steel doors and steel frames. Doors and frames shall be factory primed and field painted. Provide fully weather stripped, thermally insulated doors as required. Provide Rainguard.
C101001	Fixed Partitions	SF		Impact Resistant GWB
C102007	Door Hardware	A/R		
C103004	Identifying Devices	A/R		Provide signage- Coordinate room signage with the user.
C3010	Wall Finish			Paint
C3010	Other wall Finishes	SF		Not required.
C3020	Floor Finish	SF		Exposed wood subfloor
C3030	Ceiling Finish			Exposed, painted structure
D202003	Backflow Preventer	A/R		
D202003	Recirculation Pump	A/R		
D203003	Floor Drains	1 min		Mechanical Room- provide as required for equipment. Slope to drain.
D303002	HVAC			Provide small dehumidifier for space, do not provide ventilation. Mount dehumidifier to wall & route condensate to floor drain via hard piping.
D502001	Branch Wiring	A/R		Branch Circuits & Outlets per ESR

D50202	Lighting Equipment	A/R	General Lighting: Provide in compliance with UFC 3-530-01. Provide in compliance with ASHRAE 90.1-2019. Suspended Fixtures
D503090	Other Alarms	A/R	Mass Notification
D509002	Emergency Lighting and Power		Provide means of egress lighting.

Space Name: TYPICAL STORAGE ROOM

Space Characteristics

Function/Adjacencies: The space is to provide storage of miscellaneous items (SOW-5).

Acoustics: Wall STC 45 / Door & Frame STC 42 Access: Accessed from Lejeune room lobby (SOW-2)

Number of Occupants/Workstations: None.

Occupant Load Factor per NFPA 101 Life Safety Code: Occupant Load per NFPA 101 Life Safety

FF&E Info: N/A

Audio/Visual System Info: N/A Security System Info: N/A

Uniformat Section	Description	Qty	Size	Specific Requirements
C101001	Fixed Partitions	SF		Impact Resistant GWB
C102001	Interior Doors	A/R		Hollow Metal frame and wood door to match design of SOW-2
C102007	Interior Door Hardware	A/R		Lever type handle for ADA compliance
C103004	Identifying Devices	A/R		Provide signage- Coordinate room signage with the user.
C3010	Wall Finish	SF		Paint
C3020	Floor Finish	SF		LVT
C302007	Wall Base Finish	LF		Resilient Base.
C3030	Ceiling Finish	SF	24"X24"	Suspended Acoustical Ceiling Tiles
C3030	Suspension Systems	SF		Suspended exposed grid compatible with ACT system
D3040	HVAC			Provide ducted supply and return.
D502001	Branch Wiring	A/R		Branch Circuits & Outlets per ESR
D50202	Lighting Equipment	A/R		General Lighting: Provide in compliance with UFC 3-530-01. Provide in compliance with ASHRAE 90.1-2019.
D503090	Other Alarms	A/R		Mass Notification

Space Name: ENTRY CORRIDOR/LOBBY SPACE

Space Characteristics

Function/Adjacencies:Lobby space, dining area, service throughway. SOW-2 and SOW-3Minimum Ceiling Height:10' minimum above finish floorAcoustics:Wall STC 45 / Door & Frame STC 42Access:StaffNumber of Occupants/Workstations:A/R

Occupant Load Factor per NFPA 101 Life Safety Code: Occupant Load per NFPA 101 Life Safety

FF&E Info:N/AAudio/Visual System Info:2- 55" monitor wall mountsSecurity System Info:N/A

Uniformat Section	Description	Qty	Size	Specific Requirements
C102001	Interior/exterior Doors	A/R		Interior: Provide wood frame and door (Style to match existing building character) with side lights of matching design (if applicable). Paint. Frosted glass (if applicable). Exterior: Provide Store Front aluminum insulated doors and Frames Doors and frames factory finished. Style to match existing building character.
C102007	Interior/exterior Door Hardware	A/R		Lever type handle for ADA compliance. Provide rain guards in all exterior doors
C103004	Identifying Devices	A/R		Provide signage - Coordinate room signage with the user.
C301001	Interior Painting	SF		Painted finishes to GWB
C301003	Wall Finish	A/R		GWB
C3020	Floor Finish	SF		Carpet or Carpet/Wood mixture
C3020	Wall Base Finish	LF		Wainscot match existing height and profile. Paint
C3030	Ceiling Finish	SF	24"X24"	Suspended Acoustical Ceiling Tiles and GWB bulkheads (Paint)
C303005	Suspension Systems			Suspended concealed grid compatible with ACT system.
D502001	Branch Wiring	A/R		Branch Circuits & Outlets per ESR
D50202	Lighting Equipment	A/R		General Lighting: Provide in compliance with UFC 3-530-01. Provide in compliance with ASHRAE 90.1-2019. See PART 3 ESR D50.
D503001	Telecommunications	A/R		compliance with Specification 27 10 00
D503090	Other Alarms			Mass Notification
D509002	Emergency Lighting and Power	A/R		Provide means of egress emergency lighting
E201002	Window Treatment	A/R		TBD

Space Name: BAR ROOM

Space Characteristics								
Function/Adj Minimum Cei Acoustics: Access: Number of O(Occupant Lo;	Function/Adjacencies:This space is used as bar room for building 2615 in SOW-4.Vinimum Ceiling Height:9'-6" minimum above finish floorAcoustics:Wall STC 45 / Door & Frame STC 42 (UON)Access:StaffNumber of Occupants/Workstations:A/ROccupant Load Factor per NFPA 101 Life Safety Code:Occupant Load per NFPA 101 Life Safety							
FF&E Info: Audio/Visual Security Syste	three (3) compa System Info: N/A em Info: N/A	artment sink	, keg cooler, glass	s door cooler, glass storage system				
Uniformat Section	Description	Qty	Size	Specific Requirements				
B202001	Exterior Windows			Provide windows for natural light emission.				
B202004	Exterior Glazing			Insulated – Low 'E' Glazing or Spectral glazing.				
C102001	Interior/Exterior Doors	A/R		Exterior: Provide Store Front aluminum insulated doors and Frames Doors and frames factory finished.				
C102007	Interior/Exterior Door Hardware	A/R		Lever type handle for ADA compliance. Provide rain guards in all exterior doors				
C103004	Identifying Devices	A/R		Provide signage - Coordinate room signage with the user.				
C103008	Counters			Solid Surfaces				
C3010	Wall Finish	SF		Impact Resistant GWB and Chair Rail, match existing height and profile. Paint				
C301001	Interior Painting	SF		Painted finishes to GWB wall surfaces.				
C302010	Floor Finish	SF		Carpet or Carpet/Wood mixture				
C3020	Wall Base Finish	LF	6"	Wood Base. Paint				
C3030	Ceiling Finish	SF	24"X24"	Suspended Acoustical Ceiling Tiles and GWB bulkheads (Paint)				
C303005	Suspension Systems			Suspended concealed grid compatible with ACT system.				
D3040	HVAC			Provide ducted supply and return.				
D502001	Branch Wiring	A/R		Branch Circuits & Outlets per ESR				
D50202	Lighting Equipment	A/R		Dimmable Lighting: Provide in compliance with UFC 3-530- 01. Provide in compliance with ASHRAE 90.1-2019.				
D503001	Telecommunications	A/R		compliance with Specification 27 10 00				
D503090	Other Alarms			Mass Notification				
D509002	Emergency Lighting and Power	A/R		Provide means of egress emergency lighting				

E201002 Window Treatment A/R TBD

6 ENGINEERING SYSTEM REQUIREMENTS (ESR)

- B10 Superstructure
- B20 Exterior Enclosure
- B30 Roofing
- C10 Interior Construction
- C20 Stairs
- C30 Interior Finishes
- D20 Plumbing
- D30 HVAC
- D40 Fire Protection Systems
- D50 Electrical Power and Lighting
- E10 Equipment
- E20 Furnishings
- G10 Site Preparation
- G20 Site Improvements
- G30 Site Civil/Mechanical Utilities
- G40 Site Electric Utilities

B10 SUPERSTRUCTURE

SYSTEM DESCRIPTION

Provide the building framing system in accordance with UFC 3-301-01, *Structural Engineering* subject to the following limitation:

Design the structural in accordance with the following loading criteria:

Occupancy Category or Use: Use Occupancy Category II.

Wind Exposure: Wind design shall be based on Exposure C

Anti-Terrorism Force Protection (ATFP): Building is within controlled perimeter.

B1020 ROOF CONSTRUCTION

Refer to Chapter 3.

B20 EXTERIOR ENCLOSURE

Building envelope: Includes repair of brick veneer, weep holes, back up wall reinforcement, internally installed brick anchors, flashing, insulation and vapor barrier. Refer to B2010 Exterior Walls. Finishes: Comply with the Base Exterior Architecture Plan, BEAP

B2010 EXTERIOR WALLS

Provide written and graphic descriptions of exterior enclosure barrier materials and location within the wall as a part of the Contractor provided design analysis.

B201003 INSULATION & VAPOR RETARDER

Provide continuous insulation, vapor retarder, water-resistive barrier, and air barrier to meet or exceed requirements of project's energy savings requirements as indicated by applicable American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) 90.1-2019 calculations called for in Unified Facilities Criteria (UFC) 1-200-02, *High Performance and Sustainable Building Requirements*, and meeting minimum building envelope insulation requirements of UFC 3-101-01, *Architecture*.

Provide a continuous air barrier to control air leakage into, and out of conditioned spaces. The air barrier must encompass all elements of the facility that are exposed to the outside environment or outside environmental conditions such as roof, walls, floors, and compartmentalized unconditioned portions of the facility such as garages, and negatively pressurized spaces. Permanently seal penetrations through the air barrier, joints in the air barrier, adjoining construction, and transitions to different air barrier materials.

Confirm air barrier compliance with Air Barrier Performance Test in RFP Part 4 B20, Exterior Enclosure.

Include written and graphic descriptions of exterior enclosure barrier materials and location within the wall as a part of the Contractor provided design analysis. Identify in the analysis the continuous boundary limits of the air barrier and of the zone or zones to be field tested for building air tightness.

Provide contract drawings that indicate each exterior enclosure barrier location and the materials that make up the barriers. Detail the following barrier conditions;

- 1. Typical conditions at wall sections.
- 2. Barrier treatment at wall openings.
- 3. Intersections with other exterior enclosure assemblies and materials. Include intersections at roof and floors.
- 4. Intersections with counter flashing.
- 5. Inside and outside corners.
- 6. Preservation of air and water tightness at anchors for materials that cover the barrier.
- 7. Treatment to seal barrier penetrations such as conduits, pipes, electric boxes, and fixtures.
- 8. Indicate air barrier perimeter, if facility is segmented into areas that are not within the air barrier envelope.
- 9. Vapor Barrier in crawl spaces, as applicable.
- 10. Internal brick ties type and anchoring methods

B201005 EXTERIOR LOUVERS & SCREENS

Provide exterior louvers and screens, where required, that match the finish of the existing windows and detailed to integrate with the architecture of the building, as appropriate to the design of the building.

Provide as specified in MCBCL Standard spec section 08 91 00 WALL LOUVERS in Part 5.

B201006 HANDRAILS

All existing handrails and guardrails to remain must be finished to withstand extreme wear condition

All new handrails and guardrails must hot-deep galvanized steel and finished to withstand extreme wear condition

B201007 EXTERIOR FASCIA, SOFFIT, TRIM, CEILING AND MOLDING

All existing painted items must be painted to withstand extreme wear condition

All new items must be made of plastic wood like materials

Provide exterior soffit system to match existing conditions as required in other documents.

B201009 EXTERIOR PAINTING AND COATING

Provide field applied exterior coatings for all items that are not prefinished, and to prefinished items when required to provide a color other than a standard prefinished color. Refer to other documents for extent of work.

B201010 EXTERIOR SEALANTS

Provide exterior application of joint sealants to seal joints and prepare for finish material installation.

B201012 SCREEN WALL

Provide screen walls where required to screen trash and recyclable receptacles, and mechanical equipment. Screen walls shall be compatible with the building architecture and shall be of masonry construction only, no chain link will be accepted. Screen wall design must meet the BEAP guidelines. See Part 6, Attachment F Section 3.4.10 for section of wall.

B2020 EXTERIOR WINDOWS

Provide windows in each existing window condition. Exterior windows must be prefinished aluminum. Windows must meet UFC requirements for ATFP.

B202001 WINDOWS

Exterior windows must be prefinished aluminum, thermally-broken, and with specified glazing. Windows and glazing must comply with UFC 04-010-01 DoD Antiterrorism Standards for Buildings and shall be designed to resist impact/breakage by hurricane windborne debris in accordance with the International Building Code, 2006 Edition.

B202002 STOREFRONTS

Exterior storefronts must be prefinished aluminum, thermally-broken, and with specific glazing. Storefronts must comply must comply with UFC 04-010-01 DoD Antiterrorism Standards for Buildings.

B202004 EXTERIOR GLAZING

Provide glazing with a color matching existing adjacent buildings refer to BEAP.

Provide insulating glass units type glazing.

Provide as indicated in other documents: clear glass, or heat absorbing glass, or wireglass, or insulating glass units, or laminated glass, or tempered glass, or spandrel glass, type glazing.

B2030 EXTERIOR DOORS

Provide solid door assemblies other than at the main entrance. Exterior doors and frames shall be non-corroding hot-deep galvanized steel. Provide doors meeting thermal performance required by RFP Part 4.

Provide Extra Heavy Duty Doors -- American National Standards Institute/Steel Door Institute (ANSI/SDI) A250.8, Level 4, physical performance Level A, Model 2 (Seamless). Roll up doors shall meet SPEC section 08 23 33. Door hardware finish shall be stainless steel.

Provide door glazing that matches the window glazing.

Must comply with UFC 04-010-01 DoD Antiterrorism Standards for Buildings.

B203001 SOLID DOORS

Provide solid steel door assemblies other than at main storefront/curtainwall entrances including painted, prefinished, galvanized, heavy-duty, non-corroding, insulated doors with frames and hardware.

Provide louvers and accessories and wall opening elements such as lintels sills and flashings.

B203002 GLAZED DOORS

Glazed Doors - Provide Exterior Glazed Doors and Entrances System. Including factory-finish painted steel framed door assemblies with insulated, glazing, frames, and hardware compatible with other buildings on the base and wall opening elements such as lintels, sills, through-wall flashings, and joint sealers.

B203008 EXTERIOR DOOR HARDWARE

Provide the services of a certified door hardware consultant to prepare the door hardware schedule.

Provide hardware keying compatible with the existing base-wide keying system. Provide replacement interchangeable cores compatible with the Best Lock system.

Provide the services of a certified door hardware consultant to prepare the door hardware schedule.

Provide door hardware finish of chrome-plated brass or bronze, stainless steel, brass or bronze.

B30 ROOFING

B30 GENERAL SYSTEM DESCRIPTION

Provide watertight roof systems compatible with the facility function, construction, and service conditions. Provide complete roof system design and construction services for the entire new facility roof system, including all ancillary and incidental work necessary for a complete, new, watertight roof system installation.

Submittal Requirements: Components of a minimum roof submittal include the roof plan, method of drainage, standard details and details unique to the project, wind load calculations and requirements.

Provide a Pre-Design Roofing Conference and Pre-Roofing Conference to assure roof design and construction is properly coordinated before construction begins.

Built-in gutter systems where drainage passes through an interior space or is concealed in the exterior cavity wall is prohibited.

Refer to Unified Facilities Criteria (UFC) 3-110-03, *Roofing*, UFC 3-101-01, *Architecture*, and UFC 1-200-02, *High Performance Sustainable Building Requirements* for additional roofing requirements.

B3010 ROOF COVERINGS

B301001 STEEP SLOPE ROOFING SYSTEMS

Provide a roofing system that resists wind uplift pressures calculated in accordance with American Society of Civil Engineers (ASCE) 7. Uplift resistance must be validated by applicable Factory Mutual (FM), Underwriters Laboratories (UL) or American Society for Testing and Materials (ASTM) uplift resistance test procedures.

B301003 ROOF INSULATION

Provide roof insulation values no less than in accordance with UFC 1-200-02, *High Performance and Sustainable Building Requirements* and UFC 3-110-03, *Roofing*.

B301004 FLASHINGS AND TRIM

Flashing and sheet metal work includes scuppers, splash pans, and sheet metal roofing. Flashings must be Aluminum Alloy Sheet and Plate - ASTM B 209 Pre-Finished Aluminum. Finish must be baked-on factory applied color coating of polyvinylidene fluoride (PVF2) or other equivalent fluorocarbon coating with a minimum thickness of 0.8 to 1.3 mils.

B301005 GUTTERS AND DOWNSPOUTS

Provide gutters and downspouts compatible with roofing material and finish. Concealed (interior) gutters and downspouts are prohibited. Provide concrete splash blocks at all downspouts.

B301006 ROOF OPENINGS AND SUPPORTS

Provide insulated roof hatch and rails or guards.

B301090 OTHER ROOFING

Provide lightning protection, without penetrating the roof membrane or flashing components.

Provide new roof drains and accessories.

Provide roof fall protection per Part 5 spec section 11 24 24 ROOF FALL PROTECTION

C10 INTERIOR CONSTRUCTION

SYSTEM DESCRIPTION

Interior construction includes interior partitions, interior doors, and fittings. Provide durable construction appropriate for the building function. Acoustic properties of materials, as well as durability, must be considered during material selection.

GENERAL SYSTEM REQUIREMENTS

Areas of the Project subject to abuse require that "impact resistant" systems be provided. See "Room Requirements" for specific requirements on "Partitions", "Interior Doors", and "Fittings".

C1010 PARTITIONS

Refer to Part 3 Chapter 5.0, Room Requirements, for partition requirements for individual rooms. Where rooms with different partition requirements adjoin one another, provide a combined wall type that meets the security and durability as well as finish requirements of both spaces.

When required in other documents, concrete mixture must provide an average compressive strength of 3000 PSI (20,680 kPa) and meet or exceed American Concrete Institute (ACI) 301/301M.

C101001 FIXED PARTITIONS

Provide fixed interior partitions that extend from finish floor to underside of structure above. Sound-rated partition assemblies shall have a minimum Sound Transmission Coefficient (STC) of 42 in accordance with ASTM E 90 or ASTM E 413 for frequency data.

For rated partitions provide UL Design Assemblies and fire stopping.

C101003 RETRACTABLE PARTITIONS

Provide retractable partitions to include operable panel partitions and/or accordion folding partitions as indicated in other documents. Sound-rated partition assemblies must have a minimum Sound Transmission Coefficient (STC) of 42 in accordance with ASTM E 90 or ASTM E 413 for frequency data. Coordinate finishes with Section C30 Interior Finishes.

C101004 INTERIOR GUARDRAILS AND SCREENS

Provide balustrades where required by code.

C101005 INTERIOR WINDOWS

Provide interior windows of hollow metal, fixed or operable. Provide each window as a complete factory-assembled unit with glass factory or field installed.

Fire rated windows must meet UL Classification for the rating specified.

C101006 GLAZED STOREFRONTS

Provide glazed storefront system.

C101007 INTERIOR GLAZING

Interior glazing shall be clear glass tempered glass. Provide wire glass for fire rated partitions.

C1020 INTERIOR DOORS

C102001 STANDARD INTERIOR DOORS

Refer to Part 3 Section 5.0, Room Requirements for door requirements for individual rooms. Where rooms with different door requirements are connected by a door, provide a door type that meets the security and durability as well as finish requirements of both spaces.

All interior doors must be flush stile.

All interior doors must be hollow metal doors. All interior door frames must be hollow metal.

Flush wood doors must be WDMA I.S.1A-04, custom grade, extra heavy duty. Flush wood doors must be WDMA I.S.-97 SCLC-5 5-ply structural composite lumber core.

Doors must have Factory Finish of AWI Quality Standards Section 1500, specification for Conversion varnish alkyd urea or catalyzed polyurethane.

Provide STC sound rated door assemblies that matches or exceeds the STC for the doors leading into room(s) listed in Part 3, Chapter 5 Room Requirements.

Provide doors leading into classified/secured/vaults areas to comply with Marine Corps Order MCO 5530.14A.

Provide a factory tested, insulated, engineered, metal door assembly including door frame, hardware, and seals necessary to achieve the required rating. Install in accordance with manufacturer's instructions.

C102002 GLAZED INTERIOR DOORS

Provide vision glazing in doors where it is required by the "Room Requirements" portion of this RFP.

C102003 FIRE DOORS

Provide interior fire doors.

C102007 INTERIOR DOOR HARDWARE

Provide special door hardware, such as combination locks, CDX-10, etc. as indicated in Part 3, Chapter 5, Room Requirements.

Provide the services of a Certified Door Hardware Consultant to prepare the door hardware schedule.

Provide hardware keying, lock cores, compatible with the existing base-wide keying system, BEST. Lock cores must be BEST A4 system with the 7-pin option.

Provide stainless steel door hardware finish.

C1030 SPECIALTIES

C103001 COMPARTMENTS, CUBICLES, & TOILET PARTITIONS

Provide solid toilet partitions in all toilet rooms with more than one water closet or urinal. Provide toilet accessories as indicated in Part 3, Chapter 5, Room Requirements portion of this RFP.

Toilet partitions and screens shall be high density polyethylene/solid plastic.

C103002 TOILET AND BATH ACCESSORIES

Provide stainless steel toilet and bath accessories.

C103004 IDENTIFYING DEVICES

Provide interior room identification signs on each entrance to each interior room. Provide signage to identify each space by room number and name. Signage for general office areas must have changeable room name sections to accommodate personnel and functional changes.

Incorporate all necessary interior signage as part of the architectural drawings. Interior signage is not collateral equipment. Interior signage must demonstrate complete coordination with the facility design, Structural Interior Design (SID) and FF&E submittals. Provide interior directional signage as required for facility wayfinding. Provide an identifying device at each interior door. Signs must meet Architectural Barriers Act (ABA) Standards requirements.

Refer to Unified Facilities (UFC) 3-120-01, Design: Sign Standards, for more information. Refer to Part 5 MCBCL Standard 10 14 00.20 Interior Signage and Part 6 Attachment E, MCBCL SIGNS STANDARDS - GRAPHICS.

C103005 LOCKERS

Not required for this project.

C103006 SHELVING

Not required for this project.

C103007 FIRE EXTINGUISHER CABINETS

Provide Fire Extinguishers conforming to NFPA 10. Provide quantity and placement in compliance with the applicable sections of NFPA 101. Provide multipurpose dry chemical type fire extinguishers compliant with UL 299. Submit Manufacturer's Data for each type of Fire Extinguisher required, detailing all related Cabinet, Wall Mounting and Accessories information, complete with Manufacturer's Warranty with Inspection Tag. Provide fire extinguisher cabinets. Cabinet must be semi-recessed in new construction and surface-mounted in new mechanical/electrical spaces and existing wall construction. Coordinate cabinets with interior finishes.

C103008 COUNTERS

Provide solid acrylic, or plastic laminate, or stainless steel counter tops and back splashes.

C103009 CABINETS

Provide cabinetry and millwork items with associated accessories and hardware. Cabinetry shall be Architectural Woodwork Institute, AWI, custom grade and have concealed hinges with adjustable standards for shelves. All exposed surfaces must be covered with high pressure plastic laminate clad. Provide plastic laminate covered tops and splashes. Pre-formed splashes are not acceptable.

C103012 FIRESTOPPING PENETRATIONS

Provide all penetrations through rated walls and floors with rated material for fire stopping penetrations.

Provide fire stopping materials, supplied from a single domestic manufacturer, consisting of commercially manufactured, asbestos-free, nontoxic, water-based, noncombustible products FM APP GUIDE approved, or UL listed, for use with applicable construction and penetrating items. Provide all sleeves, caulking, and flashing for fire stopping penetrations.

C103013 SPRAYED FIRE-RESISTIVE MATERIALS

Provide sprayed fire-resistive materials to the building's structural framing components as required by Building Code to prevent structural failure.

C103014 ENTRANCE FLOOR GRILLES AND MATS

Provide recessed floor mats at main building entrances. Provide recessed floor mats at other building entrances shown in plans.

Provide entrance mats with rubber, or vinyl, or recycled tire surface treads.

C103090 OTHER INTERIOR SPECIALTIES

Provide wall or ceiling mounted projection screens in new Lejeune room.

In Lejeune room, provide fixed ceiling mount for computer projector. Coordinate location in the room at CDW.

C20 STAIRS

SYSTEM DESCRIPTION

Refurbish existing stairs, including stair construction and stair finishes as required by the building code to provide egress from the building from above or below grade level floors. Stairs must be in accordance with Unified Facility Criteria (UFC) 1-200-01, DoD Building Code (General Building Requirements).

C2010 STAIR CONSTRUCTION

C201001 INTERIOR AND EXTERIOR STAIRS

Provide new railing as necessary to comply with current codes requirements.

C201002 FIRE ESCAPE STAIRS

Not required for this project.

C201090 HANDRAILS, GUARDRAILS, AND ACCESSORIES

Provide painted galvanized steel handrails and guardrails. Handrails and guardrails must present a smooth, unbroken surface throughout the length of the stair. Handrails and guardrails must be finished to withstand extreme wear conditions.

C30 INTERIOR FINISHES

SYSTEM DESCRIPTION

Interior finishes include wall finishes, floor finishes, wall base finishes, and ceiling finishes. Provide aesthetically pleasing, functional, durable finishes appropriate to the buildings function. Consider acoustic properties of materials, as well as durability and ease of maintenance during material selection. Maximize the use of sustainable materials.

Color selections require the use of wall and floor finish material accents to enhance the color and appearance of the interior design. Provide a wall and floor color design that includes a minimum of two different accents colors throughout the facility. Submit pattern drawings of the accents design with the interior design submittal.

GENERAL SYSTEMS REQUIREMENTS

See Part 3 Chapter 5 Room Requirements.

C30 SOCIETY FOR PROTECTIVE COATINGS (SSPC) QP 1 CERTIFICATION

All Contractors and subcontractors that perform surface preparation or coating application must be certified by the Society for Protective Coatings (formerly Steel Structures Painting Council - SSPC) to the requirements of SSPC QP 1 prior to contract award, and must remain certified while accomplishing any surface preparation or coating application.

ALL WALLS: All interior wall finish materials must be high Impact gypsum board.

WALLS IN RESTROOMS/SHOWERS/JANITORS: All interior wall finish materials must be moisture resistant gypsum board.

Solid surfacing or ceramic wall finishes must extend from top of shower pan to ceiling and must surround the shower enclosure. Porcelain Tile: Furnish an unglazed porcelain tile and trim with the color extending uniformly through the body of the tile. Provide a nominal size of 8 by 8 by 5/16 inch thick. Criteria for tile to meet or exceed is as follows: Abrasive wear in accordance with ASTM C 501 and bonding strength in accordance with ASTM C 482. Comply with 36 CFR 1191 for coefficient of friction for interior tiled floors.

COMMUNICATION ROOMS:

Provide void-free, interior grade plywood 19 mm (3/4 inch) thick as indicated. Backboards shall be fire rated, with the fire stamp visible. Boards should be installed 4'Width x 8'Height and cover at least an 8' x 8' area on the long wall farthest from the door in the telecomm room. Additional boards may be needed anywhere electronic equipment is to be mounted.

CORNER GUARDS:

Corner guard units must be surface mounted type, industry standard radius formed. Corner guards must extend from 1" top of base to 7'-0" feet above finish floor. Mounting hardware, cushions, and base plates must be furnished. Assembly must consist of a snap-on corner guard formed from high impact resistant resilient material, mounted on a continuous aluminum retainer. Extruded aluminum retainer must conform to ASTM B221, alloy 6063, and temper T5 or T6. Factory fabricated end closure caps must be furnished for top and bottom of surface mounted corner guards.

All interior wall finishes are indicated in the "Room Requirements" portion of this RFP

C3020 FLOOR FINISHES

Provide floor finish materials to meet the following requirements;

a. Carpet Requirements	
CARPET CHARACTERISTIC	MINIMUM CARPET REQUIREMENTS
Surface Color	Multi-colored and Patterned
Surface Texture	Textured Loop
Yarn Weight	24 oz. minimum for Type 6 Nylon; 18 oz. minimum for Type 6.6 Nylon
Density	7000 oz./cubic yard minimum for Type 6 Nylon; 6000 oz./cubic yard minimum for Type 6.6 Nylon
Dye Method	Yarn Dyed
Backing	Provide primary backing materials of synthetic material. Provide secondary backing to suit project requirements of those customarily used and accepted by the trade for each type of carpet, except when a special unitary back designed for gluedown is needed.
Fiber	Commercial 100 percent branded (federally registered trademark) nylon continuous filament.
Thickness	Minimum 0.165 inch in accordance with ASTM D 6859.

b. Resilient Floor Finishes

Provide resilient floor finishes as identified in the Project Program, Room Requirements or as directed below. Include manufacturer's full line of color, texture and pattern selections, including multi-colored materials.

1. Resilient Tile Flooring:

a. Provide Luxury Vinyl Tile (LVT) to conform to ASTM F1700 Class III printed film with a minimum wear layer thickness 0.030 inch (30 mil) and minimum overall thickness 0.197 inch with non-slip/skid backing, Type A (smooth. Provide 24inch square tile. Provide tile with a factory protective finish that enhances clean ability and durability. Resilient tile product must not require the application of wearing coat(s) on site. Resilient Products must not require wax maintenance.

2. Tile Floor Finishes

Provide epoxy grout for all tile finishes. Furnish ceramic mosaic tile and trim must be unglazed natural clay with cushion edges.

3. Wall Base

Wall base must be cove rubber, ceramic tile or vinyl throughout as indicated in Part 3, Chapter 5 Room Requirements.

All interior wall finishes are indicated in the "Room Requirements" portion of this RFP.

C3030 CEILING FINISHES

Select finished surface of ceiling tiles to address acoustical, maintenance, moisture or impact resistance requirements of the room.

Primary ceiling finish must be 24 inch by 24 inch by 5/8 inch minimum thickness suspended acoustical panel ceiling system, except provide a suspended gypsum board ceiling in restrooms and showers. Provide acoustical panels with a tegular edge. Provide fine fissured panel surface.

Ceiling material in restrooms, showers, and janitors must be moisture resistant gypsum board.

Paint exposed structural systems in accordance with Part 4 PTS Section C3040 INTERIOR COATINGS AND SPECIAL FINISHES. Provide ceiling finishes as indicated in Part 3 Chapter 5 "Room Requirements" and Finish Schedule in Part 6.

C3040 INTERIOR COATINGS AND SPECIAL FINISHES

Paint all interior exposed surfaces except factory finished items that are not intended for field coating including but not limited to finished metals (copper, stainless steel, aluminum, brass and lead) door hardware, interior grilles, registers, diffusers, access panels, and panel boxes.

Provide special epoxy paint in all restrooms, showers and janitors.

All finish coatings must be as indicated in Part 3 Chapter 5 "Room Requirements" and Finish Schedule in Part 6.

D20 PLUMBING

Refer to Part 4 Section D20, PART 5 specifications and PART 6 documents for performance requirements of the building elements included in the plumbing system. Previous design documents attached in PART 6 have been included for reference only.

Remove and dispose of plumbing system within the project boundaries and to piping connections in crawl space unless noted otherwise.

SYSTEM DESCRIPTION

The plumbing system consists of all fixtures, potable cold and hot water piping (to main connection in crawl space), equipment,

piping insulation, sanitary waste (to main connection in crawl space), vent piping systems, and other specialty piping and equipment within project boundaries.

GENERAL SYSTEM REQUIREMENTS

Provide working space around all equipment. Provide all required fittings, connections and accessories required for a complete and usable system. Install all equipment in accordance with the criteria of PART 5 specifications and the manufacturer's recommendations. Design and install in accordance with International Plumbing Code (IPC) and UFC 3-420-01, *Plumbing Systems*. Where the word "should" is used in the manufacturer's recommendations, substitute the word "must".

Design must comply with UFC 4-010-01, DoD Minimum Antiterrorism Standards for Building (Rev 12 December 2018).

D2010 PLUMBING FIXTURES

Provide quantity and type of plumbing fixtures required for the occupancy, use, and functions described for this facility. Provide handicapped fixtures in accordance with the referenced criteria.

D201004 SINKS

Provide sinks in wet bar spaces.

D2020 DOMESTIC WATER DISTRIBUTION

Perform a flow test to determine system requirements.

D202001 PIPES AND FITTINGS

Provide copper tubing and fittings for above ground and buried piping as required.

D202002 VALVES & HYDRANTS

Provide isolation valves at potable cold and hot water piping connection to mains in the crawl space. Provide hose bibbs in mechanical rooms. Provide wall hydrants along each wall of the addition such that all points along the perimeter can be reached with a 100-foot-long hose.

D202004 INSULATION & IDENTIFICATION

Provide mineral fiber insulation with vapor barrier on domestic hot water supply and recirculation piping. Provide polyisocyanurate insulation with vapor barrier on domestic cold-water supply piping. Provide identification for piping and equipment.

D202090 OTHER DOMESTIC WATER SUPPLY

Provide piping supports in accordance with the IPC. Provide inspections, disinfection, and testing in accordance with the IPC.

D2030 SANITARY WASTE

D203001 WASTE PIPE & FITTINGS

Provide plastic PVC piping, fittings, and solvent cement for above and below ground installation.

D203002 VENT PIPE & FITTINGS

Provide plastic PVC piping, fittings, and solvent cement.

D203003 FLOOR DRAINS

Provide floor drains in mechanical rooms, for cleaning purposes in wet bar areas and other locations identified in this RFP. Provide floor sinks as required in wet bar areas.

D204004 INSULATION & IDENTIFICATION

Provide identification for piping and equipment.

D30 HVAC

Refer to Part 5 Specifications and Part 6 Drawings/Sketches for additional information and requirements of the building elements included in the HVAC system.

Renovations must comply with UFC 4-010-01, *DoD Minimum Antiterrorism Standards for Building* (Rev 12 December 2018). Previous design documents for these buildings have been included for reference only.

Remove and dispose of entire mechanical system serving the project area unless noted otherwise. Provide new mechanical systems as described below.

SYSTEM DESCRIPTION

Provide heating, ventilating and air conditioning (HVAC) systems that attain the following objectives: Occupant comfort, Indoor air quality, Acceptable noise levels, Energy efficiency, Reliable operation, and ease of maintenance. Design and install in accordance with the International Mechanical Code (IMC), including the IMC supplemental requirements within UFC 3-410-01, and UFC 3-401-01, *Mechanical Engineering*.

Consider each HVAC system component relative to its contribution to whole building energy performance and energy costs.

Economizer cycles are not allowed.

Provide four-pipe VAV air handling system(s), single duct boxes with hot water reheat. Utilize chilled water via the existing air-cooled chiller plant. Utilize heating hot water via existing natural gas-fired boiler plant.

GENERAL SYSTEM REQUIREMENTS

Provide working space around all equipment. Provide all required fittings, connections and accessories required for a complete and usable system. Install all equipment in accordance with the criteria in PART 5 specifications and the manufacturer's recommendations. Where the word "should" is used in manufacturer's instructions, substitute the word "must".

Provide air conditioning and heating for spaces as indicated and for the following Design conditions:

Outside Conditions: 91/77F 1%DB/MCWB and 140 grains/lb with an 84F MCDB cooling/dehumidifying conditions. 22F 99.6% heating conditions. Equipment selection must meet all conditions.

Inside Conditions for Fully Conditioned Spaces:

Summer	73	Degrees bulb	F dry	Winter	73	Degrees
	55	Percent	RH			

Configure the HVAC system to provide each zone with the choice of heating or cooling year round. Provide common heating-cooling global set point that is reset based on ambient conditions. Allow occupants to adjust the zone set point +/- 3F from the global set point. Global set point must be 70F at less than 50F ambient; and 76F at greater than 80F ambient. Between 50F and 80F, the global set point must reset linearly or in no fewer than 3 steps.

For unoccupied mode, provide the following night setback temperatures:

Winter, 10 degrees F lower than indoor heating design conditions, but no lower than 60 degrees F.

Summer, 5 degrees F higher than indoor cooling design conditions, but no higher than 80 degrees F.

Provide Ventilation rates and systems in accordance with ASHRAE Standard 62.1-2019, Ventilation for Acceptable Indoor Air Quality.

Provide continuous ventilation during building occupancy.

New HVAC units shall be designed with a capacity 25% greater than the calculated loads to provide quicker recovery and increased resiliency. The additional capability shall be reflected in the sizing of such items as the air handling fans, cooling coils, etc.

D3020 HEAT GENERATING SYSTEMS

Utilize heating hot water via existing natural gas-fired boiler plant.

D3030 COOLING GENERATING SYSTEMS

Utilize chilled water via the existing air-cooled chiller plant.

D3040 DISTRIBUTION SYSTEMS

D304001 AIR DISTRIBUTION, HEATING & COOLING

Where concealed, provide insulated, galvanized steel ductwork constructed, braced, reinforced, installed, supported, and sealed in accordance with the IMC and Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) standards. Where exposed, provide double wall, preinsulated ductwork. All ductwork must be constructed, braced, reinforced, installed, supported, and sealed in accordance with the IMC and Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) standards.

Provide grilles, registers, and diffusers.

Ductwork must comply with UFGS 23 73 33 HEATING, VENTILATING, AND COOLING SYSTEM.

Provide a Variable Air Volume (VAV) system using ducted returns. Locate VAV units above ceilings in doorways or corridors allowing for maintenance and removal of units through lay-in ceilings or lockable access panels.

D304003 HOT WATER DISTRIBUTION SYSTEMS

Provide insulated steel and copper hot water supply and return piping to serve the HVAC equipment included in this RFP. Insulate piping with mineral fiber insulation. Provide system flushing for the new hot water piping system.

D304006 CHILLED WATER DISTRIBUTION SYSTEMS

Provide steel or copper chilled water supply and return piping to serve the HVAC equipment included in this RFP. Insulate piping with polyisocyanurate insulation. Provide system flushing for the new chilled water piping system.

D304007 EXHAUST SYSTEMS

Provide ductwork constructed, braced, reinforced, installed, supported, and sealed in accordance with the IMC and SMACNA standards.

Provide ducted exhaust ventilation systems and exhaust fans to serve all ventilated zones of each facility. Provide in-line, rooftop, ceiling or wall mount centrifugal exhaust fans as needed. Provide conditioned make-up air through the HVAC system.

D304008 AIR HANDLING UNITS

Provide central station variable volume air handler(s). Provide with Minimum Efficiency Reporting Value (MERV) 8 filters.

D3060 CONTROLS AND INSTRUMENTATION

D306001 HVAC CONTROLS

D306001 1.1 DIRECT DIGITAL CONTROLS (DDC)

Provide a complete Direct Digital Control (DDC) system to comply with UFGS 23 09 23.13 *BACnet DIRECT DIGITAL CONTROL SYSTEMS FOR HVAC* and BACnet communication protocol to comply with Energy Management & Control System (EMCS) at Camp Lejeune requirements.

Provide a networked DDC system for stand-alone control in compliance with the latest revision of the ASHRAE 135 BACnet standard. Include all programming, objects, and services required to meet the sequence of control. Provide BACnet MS/TP communications between the DDC system and native BACnet devices furnished with HVAC equipment and plant equipment. Devices provided must be certified in the BACnet Testing Laboratories (BTL) Product Listing and in accordance with ASHRAE 135.1 Method of Test for Conformance to BACnet. Controls provided integral to equipment must be part of the DDC system and must fully comply with this specification. Coordinate integration of integral controls into the system as a whole. BACnet over IP is not permitted within the DDC system.

Provide notebook computer and complete application software with all licenses.

Provide ASHRAE Standard 135 building controller as the main interface for the building control system.

Provide the ASHRAE's control system with at least the minimum points as indicated in UFC 3-410-01 Appendix D.

D3070 SYSTEMS TESTING AND BALANCING

Provide complete Testing and Balancing (TAB) of all air and water distribution systems and HVAC equipment.

D307003 HVAC COMMISSIONING

Refer to RFP Part 2 for Building Commissioning requirements. Mechanical systems to be commissioned, if provided, include Heating, Ventilating, Air Conditioning, and Refrigeration Systems (HVAC) and Building Automation System.

D3090 OTHER HVAC SYSTEMS AND EQUIPMENT

D309001 GENERAL CONSTRUCTION ITEMS

Comply with the Force Protection Criteria.

D40 FIRE PROTECTION SYSTEMS

D4010 FIRE ALARM AND DETECTION SYSTEMS

Provide a combined mass notification/fire alarm and detection system in accordance with UFC 3-600-01, UFC 4-021-01, and NFPA 72.

Provide Knox Box at the front entrance closest to the fire alarm control panel.

A smoke detector is required in each sleeping room per UFC 3-600-01 4-34.3.2.

D4020 FIRE SPRINKLER SYSTEMS

Provide complete coverage of building with fire sprinkler systems in accordance with UFC 3-600-01 and NFPA 13.

Provide a 30 degree Storz elbow with cap on the fire department connection for improved water flow in the event of a fire on the buildings' fire suppression system.

D4090 OTHER FIRE PROTECTION SYSTEMS

Provide portable fire extinguishers and cabinets as required.

D50 ELECTRICAL

SYSTEM DESCRIPTION

This project includes the repair by replacement of the Lejeune Room of building 2615.

All electrical and communications devices, raceway, raceway fittings and conductors in and feeding the existing Lejeune Room must be removed in their entirety.

Provide an interior electrical system consisting of Wiring and Equipment, Distribution and Lighting Panelboards, Conduits, Feeder and Branch Circuits, Lighting and Branch Wiring, Communications, Emergency Lighting and Grounding, including accessories and devices as necessary and required for a complete and usable system. This section covers installations out to the building 5 foot (1.5 meter) line.

Select electrical characteristics of the power system to provide a safe, efficient and economical distribution of power based upon the size and types of electrical loads to be served. Use distribution and utilization voltages of the highest level that is practical for the load to be served.

Provide a minimum of 20 percent spare circuit and load capacity at all levels of the power distribution system including any stand-by power systems.

Provide an interior distribution system consisting of insulated conductors in conduit.

GENERAL SYSTEM REQUIREMENTS

Provide an Electrical System complete in place, tested and approved, as specified throughout this RFP, as needed for a complete, usable and proper installation. Install all equipment in accordance with the criteria of PTS Section D50 and the manufacturer's recommendations. Where the word "should" is used in the manufacturer's recommendations, substitute the word "must".

This section of the RFP includes all electrical work on or within the building out to the five (5) foot line.

SUSTAINABILITY

Provide electrical systems and components that support project sustainability and energy goals.

ANTITERRORISM

Provide bracing of electrical equipment which is suspended and weighs more than 31 pounds.

SEISMIC BRACING

Bracing of electrical equipment to resist seismic events is required based on site seismic design criteria and building importance factor.

ELECTRICAL TESTING

Test new electrical equipment in accordance with NETA acceptance testing specifications. Test existing electrical equipment remaining in service in accordance with NETA maintenance testing specifications.

COMMISSIONING

Commission all systems in accordance with RFP Part 3 Chapter 2, Section 01 33 29.05 20 Sustainability Reporting for Design Build and UFC 1-200-02 High Performance and Sustainable Building Requirements.

D5010 ELECTRICAL SERVICE AND DISTRIBUTION

D501001 MAIN TRANSFORMERS

Existing main transformer will remain.

D501002 SERVICE ENTRANCE EQUIPMENT

Existing Service Entrance feeders and equipment will remain and be modified to feed new panelboard(s) for the Lejeune room.

D501003 INTERIOR DISTRIBUTION TRANSFORMERS

Provide dry type transformers to step down secondary voltages for general purpose outlets and other low voltage equipment if required.

D501004 PANELBOARDS

Provide distribution and branch circuit panel boards with door-in-door type construction and bolt-on type circuit breakers to serve loads as required. Panelboards must be located near the Lejeune room to reduce voltage drop on branch circuit loads, efficiently serve equipment and provide system flexibility. Panel boards must be located on the same floor as the loads they serve. Panelboards must be hinged and lockable.

D501005 ENCLOSED CIRCUIT BREAKERS

Provide enclosed circuit breakers as required.

D501006 MOTOR CONTROL CENTERS

We do not anticipate Motor control centers for these buildings.

D501090 OTHER SERVICE AND DISTRIBUTION

Provide transient voltage surge protective devices (SPD's) at all panelboards supplying sensitive electronic equipment.

D5020 LIGHTING AND BRANCH WIRING

Provide electrical connections for all systems requiring electrical service.

Provide lighting and general purpose receptacles throughout all spaces as required.

Provide lighting and general purpose receptacles throughout all spaces as required per relevant UFCs, NFPA 70, and the proposed equipment and furniture layouts. Refer to Chapter 5, "Room Requirements", and UFC 3-520-01 for minimum receptacle locations. See UFC 3-530-01 for lighting design guidance. Additionally, provide:

- A 20 amp duplex receptacle for each Monitor
- A 20 amp duplex receptacle for each projector and/ or each television
- A 20 amp duplex receptacle for each printer
- A 20-amp duplex receptacle no closer than six (6) inches and no farther than 72" of each voice/data outlet (located in the floor or wall)
- 20-amp duplex convenience receptacles in all corridors

Provide dedicated circuits and connections for the following special outlets:

- One 20 amp circuit for each office.
- One 20 amp duplex for each copier, plotter and shredder
- One circuit sized per equipment to each piece of breakroom equipment e.g. coffee maker, microwave, refrigerator etc.
- The placement of receptacle outlets in the floor and/or the wall must be coordinated with the final furniture plan and the Contracting Officer before installation.

D502001 BRANCH WIRING

Provide insulated conductors in conduit branch wiring. Conduit must be concealed where possible and must be utilized for surface mounting where required.

D502002 LIGHTING EQUIPMENT

Provide a complete lighting system consisting of exit and emergency lighting and area lighting consisting of LED lighting including switches and automatic controls including occupancy sensors, vacancy sensors, automatic lighting shutoff systems and dimming systems. Occupancy sensors are not required in mechanical, electrical and telecom rooms. Provide dimming systems in all rooms that have AV equipment. Provide lighting similar in style to reference drawings but with up to date LED technology.

Illumination Levels:

Lighting intensity/design must be in accordance with IES Lighting Handbook, MIL-HDBK-1190, DOD construction Criteria Manual 4270.1M, NAVAIR 51-50AAA-2 and UFC 3-520-01.

Interior Lighting:

Lighting and lighting controls must comply with the recommendations of the Illumination Engineering Society of North America (IESNA) and the requirements of ASH RAE 90.1.

Use specification section UFGS 26 51 00.00 22 INTERIOR LIGHTING located in PART 5 ATTACHMENTS of this RFP when developing prescriptive specifications during the design phase of this project.

Provide building mounted exterior lighting to match existing and provide emergency lighting at exits.

D5030 COMMUNICATIONS AND SECURITY

The Room Requirements Section identifies locations for communications and audio-visual systems and equipment, unless noted otherwise in the following sub-elements.

D503001 TELECOMMUNICATIONS SYSTEMS

Provide horizontal distribution system including, but not necessarily limited to, all wiring, pathway systems, grounding, backboards, connector blocks, protectors for all copper service entrance pairs, patch panels, fiber optic distribution panels, terminators for all fiber optic cables, outlet boxes, telephone jacks, data jacks cover plates and Emergency battery power (UPS minimum 15 minutes back-up).

Provide Category 6 Unshielded Twisted Pair (UTP) copper cable for horizontal voice and data cables.

Telecommunications systems must be designed and provided in accordance with United Facilities Criteria (UFC) and MCB Camp Lejeune, Telecommunications Standards, included under Part 5 Prescriptive Technical Specification Section 27 10 00, BUILDING TELECOMMUNICATIONS CABLING SYSTEM. All communications systems must be installed in conduits or on cable trays.

Bond conduit to cable tray in corridors for all data/telephone drops.

Wireless Infrastructure:

Wireless Infrastructure cabling must be provided including cabling and terminations for complete coverage of wireless access points for the Lejeune Room. The wireless infrastructure cabling must be run to the communications rack or cabinet servicing the building and labeled WAPxx . The placement of these wireless access points, cabling, and terminations must be coordinated with the building layout, Base Telephone, and the Contracting Officer before installation.

Open ladder rack must be used within communications room to manage the patch cords between the cabinets and racks, and to manage the horizontal cables from the cable trays into the racks.

Bond conduit to cable tray in corridors for all data/telephone drops.

Designer of Record must coordinate installation and termination of all interior telecommunications systems with MCB Camp Lejeune Base Telephone Point of contact is Jeffrey D. Henry @ (910) 450-7693.

Reference UFC 3-580-01 "Telecommunications Building Cabling Systems Planning & Design", Specification Section 27 10 00, BUILDING TELECOMMUNICATIONS CABLING SYSTEM and Section 33 82 00, TELECOMMUNICATIONS OUTSIDE PLANT (OSP).

D503002 PUBLIC ADDRESS SYSTEMS

The contractor must provide the following to support the installation of a Mass Notification System:

- 1" rigid conduit and UL listed weatherhead per (NIWC) Atlantic (requirements) from the location of the TRX-401 transceiver (provided and installed by (NIWC) Atlantic to the location of the external roof mounted antenna.
- Two (2) 3/4" EMT conduits containing 18 AWG shielded audio wire from the TRX-401 transceiver to locations indicated on the design documents.
- A 120V power source via 20A fused disconnect and SPD to the TRX-401 transceiver.
- An input to and output from FACP.

D503003 INTERCOMMUNICATIONS SYSTEMS

Not Required

D503004 TELEVISION SYSTEMS

- Provide a complete CATV system to be owned and maintained by the Government including all interior equipment required to provide high quality TV signals to all outlets with a return path for interactive television and cable modem access. System must include, but is not necessarily limited to, headend amplifier, amplifiers, splitters, combiners, line taps, cables, outlets, tilt compensators and all other parts, components, and equipment necessary to provide a complete and usable system. Coordinate locations with EOC.
- Provide CATV outlets throughout the EOC as required by the contracting officer and tenant.

Conduct CATV testing at each of the following points in the system:

- Furthest outlet from each communications closet.
- At each outlet.
- Head end and Distribution amplifier inputs and outputs.

D503005 SECURITY SYSTEMS

Provide the ESS for this project in accordance with the requirements of UFC 4-021-02, *Electronic Security Systems* and consist of an ACS and a CCTV system.

Access Control System (ACS) – Confirm locations and requirements at CDW.

Provide an ACS utilizing credential devices to monitor and control personnel movement into the facility. The ACS must log and archive all transactions and alert authorities of unauthorized entry attempts. ACS must be interfaced with the CCTV system to archive unauthorized entry attempts to assist security personnel in the assessment of unauthorized entry attempts.

Intrusion Detection System (IDS) – Not Required.

Closed circuit television (CCTV) - Required both Buildings. Provide a closed-circuit television (CCTV) system including, but not necessarily limited to, cable supporting structures, CAT 6 cable, including equipment racks, empty conduits with pull strings, junction boxes, outlet boxes, outlet connectors, and cover plates. Provide cameras in center pointing down each wing on both levels, at each entrance and at multiple locations on building exterior to provide complete coverage of parking areas. Features must include digital video archiving based on alarm event triggers. Video archiving capacity must be a minimum of 30 days.

Confirm camera locations, monitor locations and requirements at CDW.

D503006 INDUSTRIAL CONTROL SYSTEMS (ICS)

Not Required.

D503090 OTHER COMMUNICATIONS AND ALARM SYSTEMS

Not Required.

D5090 OTHER ELECTRICAL SERVICES

D509001 GENERAL CONSTRUCTION ITEMS (ELECTRICAL)

Provide General Construction Items (Electrical) including, but not necessarily limited to, all connections, fittings, boxes and associated equipment needed by this and other sections of this RFP as required for a complete and usable system.

Provide firestopping for conduits, cable trays and busways that penetrate fire-rated walls, fire-rated partitions, or fire-rated floors in accordance with Section C10, Interior Construction.

D509002 EMERGENCY LIGHTING AND POWER

Provide power and wiring for emergency lights and exit lights throughout the areas covered in this project. Emergency egress and exit lighting must be provided throughout the facility in accordance with NFPA 101 and relevant UFCs. Emergency egress lighting must be wall mounted "wall-pack" style fixtures. Integral battery packs to recessed ceiling general lighting fixtures are not permitted.

Provide emergency lighting units with self-testing and diagnostic control features.

D509003 GROUNDING SYSTEMS

Connect to the grounding system for the facility electrical and telecommunications systems.

D509004 LIGHTNING PROTECTION

Required.

D509005 ELECTRIC HEATING

Not Required.

D509006 ENERGY MANAGEMENT CONTROL SYSTEM

Supervisory Building Controllers (SBC) must be powered from a dedicated transformer for the SBC only. Each control cabinet must have a dedicated 24 volt transformer. The 120 VAC power branch circuit must be dedicated to the DDC control system. Factory provided transformers in equipment must be used as a source of power only for the control devices intended by the equipment manufacturer.

For controller power, provide new 120 VAC circuits, with ground if not defined on the electrical drawings. Provide each circuit with a dedicated breaker, and run wiring in its own conduit, separate from any control wiring. Connect the controller's ground wire to the electrical panel ground; conduit grounds are not acceptable.

D509007 PHOTOVOLTAIC ENERGY SYSTEM

Not Required

D509090 OTHER SPECIAL SYSTEMS AND DEVICES

Not Required

E10 EQUIPMENT

E1040 GOVERNMENT FURNISHED EQUIPMENT

Rough-in and provide connections for Government-furnished equipment such that equipment will operate as intended, including providing miscellaneous items such as plugs, receptacles, wire, cable, conduit, flexible conduit and outlet boxes or fittings.

E20 FURNISHINGS

SYSTEM DESCRIPTION

Fixed furnishings are part of the Structural Interior Design (SID).

Fixed furnishings (items that are fixed to the structure), such as specialty equipment, drying cages, weapon racks, lockers, motorized projection screens, blinds/shades are part of the construction contract.

GENERAL SYSTEM REQUIREMENTS

Design and provide fixed furnishings furnishing selections with Parts 3 and 4 Sections C10, Interior Construction, and C30 of this RFP.

E2010 FIXED FURNISHINGS (SID)

Fixed furnishings (SID) are funded as part of the construction project. Each submittal must demonstrate complete coordination with the facility design.

Develop design as described herein and provide storage shelving, equipment racks, lockers, and window treatments. Cross reference C10 Interior Construction, and C30 Interior Finishes, for performance requirements.

All necessary interior signage shall be incorporated as part of the architectural drawings. Interior signage is not collateral equipment. Interior signage shall demonstrate complete coordination with the facility design. Coordinate with Section C1030.

E201002 WINDOW TREATMENTS

Provide all windows and other glazed openings to the exterior of the building with horizontal blinds or manually operated double-roller room darkening shades, where applicable, and are considered SID and are funded as part of the construction project.

G10 SITE PREPARATION

SYSTEM DESCRIPTION

The site preparation activities consist of site clearing, demolition, salvage, relocation, earthwork, and hazardous waste remediation to ready the site for other work associated with the project.

GENERAL SYSTEM REQUIREMENTS

Develop the project site and perform off-site work necessary to meet the requirements of the project, antiterrorism criteria, local codes, reference standards, technical specifications and performance criteria.

Perform a topographic survey of the project area that will be impacted by the work in accordance with FC 1-300-09N, *Navy and Marine Corps Design Procedures*. Include the topographic survey in all design submittals. The existence, size, and location of the utilities are not guaranteed by the provided site plans.

Verify the location of all utilities prior to construction.

Unless otherwise noted, provide new structure at the location indicated on the drawings in Part 6. Minimize the impact of construction activity on operations and neighboring facilities.

Identify and obtain permits to comply with federal, state, and local regulatory requirements associated with the work. Submit a complete Permits Record of Decision (PROD) form with the first design submittal package. Determine

correct permit fees and pay said fees. Forward copies of permits, permit applications, and the completed PROD form to the Government's Civil Reviewer and Environmental Reviewer. Perform work in accordance with the obtained permits.

Jurisdictional tidal and non-tidal wetlands have not been identified on the project site. Coordinate and obtain the Contracting Officer's approval for proposed haul route(s), work site access point(s), employee parking location(s) and material laydown and storage area(s).

Refer to Site Analysis and Building Requirements Sections for additional site preparation functional program information.

GOVERNMENT DID NOT PROVIDE GEOTECHNICAL INFORMATION

Subsurface soil information is not included in Part 6.

Perform the soils investigation at the site for use in the design and construction of the new facility. Perform, at Contractor's expense, subsurface exploration, investigation, testing, and analysis for the design and construction of features such as the building foundation, pavement section(s), stormwater management facility(ies), and utility structure foundations. Prepare a report including laboratory analysis of samples and recommendations for foundation and pavement design by a Professional Engineer as specified and in accordance with UFC 3-201-01, *Civil Engineering*.

As a minimum, the successful bidder's Geotechnical Engineer must perform subsurface exploration and supplementary laboratory testing as necessary to support the design concept.

Observed site conditions which may present a challenge during design/construction include - The soils that will be exposed after completion of stripping will be soft and at or near the groundwater elevation. Anticipate these marginal subgrade support conditions and incorporate measures into the design and construction procedures to obtain required soil support while maintaining progress for completion on schedule.

Provide personnel under the supervision of a registered Professional Engineer to inspect excavations and soil/groundwater conditions throughout construction. The Engineer is required to perform pre-construction and periodic site visits throughout construction to assess site conditions. The Engineer, with the concurrence of the Contractor and the Contracting Officer, is required to update the excavation, sheeting, shoring and dewatering plans as construction progresses to reflect actual site conditions and is required to submit the updated plan and a written report (with professional stamp) at least monthly informing the Contractor and Contracting Officer of the status of the plan and an accounting of Contractor adherence to the plan; specifically addressing any present or potential problems. The Engineer must be available to meet with the Contracting Officer at any time throughout the Contract duration. Provide the services of the Engineer at no additional cost to the Government. It is important to note that the presence of loose or compressible soils may result in excessive settlement that could impact the performance of surface bearing structures and supporting facilities such as foundations, slabs, pavements, sidewalks, and utilities. The magnitude and duration of consolidation settlement will be dependent on the composition, depth, and thickness of the compressible soils as well as the successful bidder's design concept. The Contractor's Geotechnical Engineer is responsible for evaluating potential global settlement due to designed grade increases and final structural loads. The Contractor's Geotechnical Engineer must develop any settlement mitigation procedures (such as preloading, surcharging, fill monitoring programs, and ground improvement systems) needed to maintain global settlements within tolerable limits. Surcharge material, if required, must remain in place for a minimum of 90 days.

G1010 SITE CLEARING

Install erosion and sediment control devices prior to beginning clearing or grubbing operations.

If approved by the Government clearing and grubbing may be allowed to accommodate construction equipment within the designated construction laydown area.

G101001 CLEARING

The project site does not have saleable timber.

Timber on the project site noted for clearing and grubbing will become the property of the Contractor. Remove timber from the project site and dispose of it off installation.

Burning will not be permitted.

G101002 TREE REMOVAL

Preserve trees within the site.

Remove trees designated by permit or waiver from MCB Camp Lejeune as required for project construction.

G101003 STUMP REMOVAL

Remove all stumps under building foundations, roads, parking areas, hard stands, sidewalks and storage areas as required for project construction to a depth of 5 feet below the finished grade.

G101006 DEBRIS DISPOSAL

Waste materials will become the property of the Contractor; transport, dispose of or recycle waste materials in accordance with Part 2 Section 01 57 19, *Temporary Environmental Controls*.

G102002 ABOVEGROUND SITE DEMOLITION

Preserve the following aboveground site elements unless it is conflict with design or does not meet ADA requirements and therefore must replace: sidewalks, exterior stairs, railings, curb and gutter, ramps, landings, etc.

G102002 1.1 ABOVEGROUND STORAGE TANKS

The project site does not require above ground storage tank, i.e. belly tank of generator; including the removal and replacement of the generator.

G102003 UNDERGROUND SITE DEMOLITION

Preserve the following underground site elements: existing utilities required for proposed project.

Remove and replace existing utilities within 5 feet of the building entrance.

Existing utilities include but are not limited to piping, structures and conduits. Remove all appurtenances associated with the utility to be removed so there is no presence of the utility at ground surface.

A utility that cannot be removed due to a major conflict, then the abandoned utility systems must be abandoned in a manner that conforms to applicable codes and regulations. When piping is abandoned in place, provide a minimum 24 inch (600 mm) plug length and fill abandoned piping with flowable fill. Remove existing utility structures to 3 feet (900 mm) below existing or new adjacent grade, whichever is greater. Break up bases to permit drainage. Fill with clean sand.

All conduits to be abandoned must remove the wiring in place.

G102003 1.1 UNDERGROUND STORAGE TANKS

The project site does not require underground storage tank removal.

G102005 UTILITY RELOCATION

Relocate utilities as required when in conflict with any structure or utility in the new design.

G102007 SITE CLEANUP

Waste materials will become the property of the Contractor; transport, dispose of or recycle waste materials in accordance with Part 2 Section 01 57 19, *Temporary Environmental Controls*.

G1030 SITE EARTHWORK

G103003 ROCK EXCAVATION

Hard materials and rock will not be encountered.

Blasting will not be permitted.

G103004 FILL & BORROW

Common fill in the quantities required is not available on Government property.

Backfill and fill material in the quantities required is not available on Government property.

Select fill in the quantities required is not available on Government property.

Top soil in the quantities required is not available on Government property.

G103004 1.1 REQUIREMENTS FOR OFF SITE SOIL

For each borrow site, provide borrow site testing for hazardous materials characteristics from a composite sample of material, collected in accordance with standard soil sampling techniques. Do not bring material onsite until tests results have been received and approved by the Contracting Officer.

G103006 SOIL STABILIZATION

The following methods of soil stabilization will not be allowed: asphalt.

G103007 SLOPE STABILIZATION

Provide slope stabilization through appropriate grading and site design for a minimum slope that does not exceed the maximum slope per local code requirements [3:1].

G103008 SOIL TREATMENT

Chemically treat the entire foundation of each building for termites.

G103011 TEMPORARY EROSION & SEDIMENT CONTROL

Obtain Erosion and Sediment Control permit required for the proposed work from the State- NC DEQ, any single site disturbance > 1 acre. Submit permit application to the Contracting Officer for approval prior to submitting to the State.

G1040 HAZARDOUS WASTE REMEDIATION

The project site does not require hazardous waste remediation.

G1040 1.1 CONTAMINATED SOIL AND GROUNDWATER

The project site does not require contaminated soil or groundwater work.

G20 SITE IMPROVEMENTS

SYSTEM DESCRIPTION

The site improvements consist of pavements and pavement related features, landscaping and other exterior site development work related to this project. Provide a pavement design by a licensed Professional Engineer familiar with conditions local to the project site. Site design, including but not limited to design of parking and pedestrian circulation, will include coordination with the Civil Engineer and the Landscape Architect.

GENERAL SYSTEMS REQUIREMENTS

Provide site improvements as required to make a useable facility that meets functional and operational requirements, incorporates all applicable anti-terrorism, force protection and physical security requirements and blends into the existing environment.

Provide accessibility in conformance with requirements of <u>UFC 1-200-01</u>, *DoD Building Code (General Building Requirements)*.

Identify and obtain permits to comply with federal, state, and local regulatory requirements associated with this work. Complete the Permits Record of Decision (PROD) form with the first design submittal package. Determine correct permit fees and pay said fees. Forward copies of permits, permit applications, and the completed PROD form to the Government's Civil Reviewer. Perform work in accordance with the obtained permits.

Minimize the impact of construction activity on operations and neighboring facilities.

Locate new site improvements at locations indicated on the drawings in another part of this RFP. If specific locations are not provided, site the improvements to develop appropriate and positive relationships with other facilities and to conform to existing development patterns.

Refer to Site Analysis and Building Requirements Sections for additional site improvement functional program information.

G201001 BASES & SUBBASES

The following materials will not be allowed for base or subbase courses: bituminous concrete, lean concrete, cement stabilized, clay, lime rock, shell, crushed concrete.

G201002 CURBS & GUTTERS

Provide curb and gutter to tie into adjacent facilities.

G201003 PAVED SURFACES

Provide Portland cement concrete with a minimum design flexural strength of 650 psi (4.48 MPa) in not more than 28 days on vehicular roadways. 4,000 psi concrete is acceptable for all other site concrete work.

Recycled asphalt pavement material may be used for bituminous pavement as permitted by the SHS.

G201004 MARKING & SIGNAGE

Provide pavement markings including crosswalks.

Provide signage to all codes.

Provide temporary pavement markings and signage throughout construction to meet phasing requirements indicated in the project program. Provide temporary signage in accordance with the Manual on Uniform Traffic Control Devices (MUTCD).

G201005 GUARDRAILS & BARRIERS

Provide wheelstops and bollards in accordance with UFC 3-201-01, Civil Engineering.

G201006 RESURFACING

Provide resurfacing of existing pavement by bituminous overlay.

G201090 OTHER ROADWAYS

G202001 BASES & SUBBASES

Crushed concrete meeting specified gradation for aggregate base or subbase courses may not be used.

G202002 CURBS & GUTTERS

Provide curb and gutter to tie into adjacent facilities.

G202003 PAVED SURFACES

Provide Portland cement concrete with a minimum design flexural strength of 650 psi (4.48 MPa) in not more than 28 days. 4,000 psi concrete is acceptable for all other site concrete work.

Recycled asphalt pavement material may be used for bituminous pavement as permitted by the SHS.

G202004 MARKING & SIGNAGE

Provide permanent and temporary markings (pavement, curb and object), signage (regulatory, warning and guidance) and other traffic control devices as required to facilitate proper utilization of the parking areas.

Provide pavement markings including crosswalks.

Provide signage.

Provide temporary pavement markings and signage to meet phasing requirements indicated in the Project Program. Provide temporary signage in accordance with the MUTCD.

G202005 GUARDRAILS & BARRIERS

Provide wheel stops and bollards in accordance with UFC 3-201-01, Civil Engineering.

Provide bollards around mechanical equipment

Comply with the Activity's BEAP.

G202006 RESURFACING

Provide resurfacing of existing pavement by bituminous overlay.

G2030 PEDESTRIAN PAVING

Provide a network of Portland cement concrete (PCC) sidewalks, separated from, but connected to vehicular circulation systems, to allow for pedestrian circulation between various new and existing elements of the project. Interface new pedestrian circulation systems with existing pedestrian circulation systems and include input from the Civil Engineer, Architect, and Landscape Architect.

G2040 SITE DEVELOPMENT

G204001 FENCING & GATES

Provide zinc-coated steel fencing components in accordance with FS RR-F-191/1, Type 1] [polyvinyl chloride (PVC) coated over zinc-coated steel fencing components in accordance with FS RR-F-191/1, Type IV for the fencing system. Provide a PVC coating with color and a minimum thickness of 0.10 inch (2 mm). Provide top and bottom tension wires and top and bottom rails; where tying into an existing fence, match fencing system.

For the security fence, provide one single line fence surrounding the restricted area. Provide security clear zones as required. Ensure that the fabric height is at least 7 feet (2.1 m). Provide outriggers and required strands of barbed wire. Design security fencing in accordance with UFC 4-022-03, *Security Fences and Gates*.

G204003 EXTERIOR FURNISHINGS

Site furnishings are required to conform to the Base Exterior Architectural Plan (BEAP). At a minimum, provide a trash and ash receptacle at the designated smoking area.

G204004 SECURITY STRUCTURES

Not required for this project.

G204005 SIGNAGE

Provide signage in accordance with the Activity's BEAP and the Installation Appearance Plan.

G204090 OTHER SITE IMPROVEMENTS

Provide dumpster pad and brick dumpster enclosure. Provide enclosure conforming with the Activity's BEAP.

G2050 LANDSCAPING

Provide complete landscaping consisting of centipede sod to provide a quality, cost-effective, functional and visually appealing landscape program that will enhance the development, while complying with anti-terrorism, force protection and physical security requirements. Design the landscape to reinforce the facility entry and complement existing landscapes in the vicinity.

Guarantee landscaping for a period of one year.

Provide complete landscaping maintenance, including but not limited to, routine lawn mowing, edging, pruning, pest inspection/treatment, re-mulching of mulch products, watering, weeding, fertilizing, and re-staking, throughout the guarantee period.

Comply with the Activity's BEAP.

G205001 FINE GRADING AND SOIL PREPARATION

Provide 4" of topsoil for lawn areas and fine grade.

G205002 EROSION CONTROL MEASURES

Prevent erosion from occurring by providing erosion control measures as required by city, state and federal requirements.

G205003 TOPSOIL AND PLANTING BEDS

Provide a planting soil mixture composed of 50 percent native soil blended with 50 percent topsoil around root balls of shrubs, trees, groundcovers, perennials, and ornamental grasses that is at a minimum, twice as wide and equally as deep as the plant's root balls. Set tops of plant root balls 2 inches (51 mm) above adjacent grades.

G205004 SEEDING SPRIGGING AND SODDING

Sod areas indicated and disturbed by the project. Restore existing turf areas disturbed by Contractor operations that are to remain as turf areas. Sod must be established before BOD. Restore by means of sodding and provide same guarantee and maintenance as for new landscape areas. Turfgrass species must be centipede.

G205005 PLANTINGS

Preserve existing trees and mature, healthy shrubs to the greatest extent possible. Select plant material from Master Plant Lists found within the Installation Appearance Plan (IAP) within the BEAP. Other plants not found on these lists may be used if approved by the reviewing Government Landscape Architect. Final approval of new plant materials rests with the reviewing Government Landscape Architect.

Provide a minimum of 40 shrubs for this project.

Provide small trees, shrubs, and ground cover plantings at building entrances to accentuate the entrances.

Provide tree plantings throughout the site to frame the building.

G205001 FINE GRADING AND SOIL PREPARATION

Provide 4" of topsoil for lawn areas and fine grade.

G30 SITE CIVIL/MECHANICAL UTILITIES

SYSTEM DESCRIPTION

The site civil/mechanical utility systems include water supply systems, sanitary sewer systems, storm drainage systems, heating distribution systems, cooling distribution systems and associated appurtenances which are more than 5 feet (1.5 meters) outside the building.

G3010 WATER SUPPLY

The new water system is an extension of the existing water system. The existing water system serving the project site is owned by the Federal Government and operated and maintained by Marine Corps Base Camp Lejeune. Provide the new water system and connections to the existing water system in accordance with state sewerage regulations and UFC 3-230-01 *Water Storage, Distribution, and Transmission*; whichever is more stringent.

Notify the utility provider of the additional demand generated by the proposed facility. Provide a copy of all correspondence with the utility provider to the Government's Civil/Mechanical Reviewer.

Provide connection to the existing water distribution system at the point indicated on the drawings in Part 6.

G3020 SANITARY SEWER

The new sanitary sewer system is an extension of the existing sanitary sewer collection system. The existing sanitary sewer collection system serving the project site is owned by the Federal Government and operated and maintained by Marine Corps Base Camp Lejeune. Provide the new sanitary sewer system and connections to the existing sanitary sewer collection system in accordance with state sewerage regulations, and UFC 3-240-01 *Wastewater Collection*; whichever is more stringent.

Notify the utility provider of the additional wastewater flow generated by the proposed facility. Provide a copy of all correspondence with the utility provider to the Government Civil Reviewer.

Provide connection to the existing sanitary sewer collection system at the point indicated in another part of this RFP. In identifying a suitable point of connection, evaluate the capacity of the existing collection system.

Provide a post installation TV inspection of sanitary sewer.

Provide cleanouts at each bend, and every 75 feet on straight runs.

G3030 STORM SEWER

The new storm sewer system is an extension of the existing storm sewer system. The existing storm sewer system serving the project site is owned by the Federal Government and operated and maintained by Marine Corps base Camp Lejeune. Provide the new storm sewer system and connections to the existing storm sewer system in accordance with UFC 3-201-01 *Civil Engineering*; UFC 3-210-10 *Low Impact Development* and *FC 1-300-09N Navy and Marine Corps Design Procedures*, state stormwater management laws and regulations, local stormwater management laws and regulations and project sustainability goals; whichever is more stringent.

Provide connection to the existing storm sewer collection system. Confirm that the existing outfall has adequate capacity to receive the additional stormwater flow generated by the project.

An oil/water separator will not be required.

Existing storm waste diagram provided in Part 6, Attachment A4.

G303001 STORM SEWER PIPING

Storm sewer piping materials are required to be polyvinyl chloride (PVC), reinforced concrete, polyethylene (PE) or polypropylene (PP).

G303007 STORM WATER MANAGEMENT

Low Impact Development (LID) features in accordance with UFC 3-210-10 *Low Impact Development*. The following LID features may be used: bioretention, grassed swales, bioretention swales, infiltration trenches, permeable pavement or pavers, and tree box filters. The use of dry wells, filter/buffer strips, wet swales, rain barrels, cisterns and rain gardens, are not allowed for this project.

G3040 HEATING DISTRIBUTION

Not required for this project.

G304003 UNDERGROUND HOT WATER SYSTEMS

Not required for this project.

G305002 UNDERGROUND COOLING SYSTEMS

Not required for this project.

G306006 GAS DISTRIBUTION PIPING - NATURAL GAS

Not required for this project.

G3090 OTHER SITE MECHANICAL UTILITIES

Not required for this project.

G40 SITE ELECTRICAL UTILITIES

SYSTEM DESCRIPTION

This project includes the renovations and repairs to building 2615. Refer to site plans for building location. Site electrical utilities will not be required for this project.