

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES	
			J	1	23
2. AMENDMENT/MODIFICATION NO. 0001	3. EFFECTIVE DATE 23-Jan-2012	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)	
6. ISSUED BY U. S. ARMY ENGINEER DISTRICT, LOUISVILLE 600 DR. MARTIN LUTHER KING, JR. PLACE ROOM 821 LOUISVILLE KY 40202-2239	CODE W912QR	7. ADMINISTERED BY (If other than item 6)		CODE	
		See Item 6			
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. W912QR-11-R-0051	
			X	9B. DATED (SEE ITEM 11) 05-Jan-2012	
				10A. MOD. OF CONTRACT/ORDER NO.	
				10B. DATED (SEE ITEM 13)	
CODE			FACILITY CODE		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>7</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) W912QR-11-R-0051, Design and Construction of an Army Reserve Center, Panama City, FL is hereby amended as follows: a. The proposal due date remains 8 February 2012, 12:00 pm, EST. b. This amendment must be acknowledged with submitted proposal.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			TEL: _____ EMAIL: _____		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)		23-Jan-2012	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION 00010 - SOLICITATION CONTRACT FORM

The Issued By organization has changed from

U. S. ARMY ENGINEER DISTRICT, LOUISVILLE
600 DR. MARTIN LUTHER KING, JR. PLACE
ROOM 821
LOUISVILLE KY 40202-2267

to

U. S. ARMY ENGINEER DISTRICT, LOUISVILLE
600 DR. MARTIN LUTHER KING, JR. PLACE
ROOM 821
LOUISVILLE KY 40202-2239

The number of offeror copies required has decreased by 2 from 7 to 5.

The following have been added by full text:

AMENDMENT 0001

**Panama City Army Reserve Center
Panama City, Florida
Solicitation W912QR-11-R-0051
Amendment #1**

23 January 12

Dwg	Action	Modification
CS100	Replace drawing	Changed geogrid fire access lane from 14' to 20'
CS101	Replace drawing	Changed geogrid fire access lane from 14' to 20'
CS102	Replace drawing	Changed geogrid fire access lane from 14' to 20'
CS103	Replace drawing	Changed geogrid fire access lane from 14' to 20'
Spec	Action	Modification
01 02 00.00 48 Part 7	Replace Part 7 in entirety	Modified paragraph 7.3.7 to remove requirement for tank
01 02 00.00 48 Part 13	Replace Part 13 in entirety	Modified paragraph 13.2.4 to remove requirement for water storage to meet domestic demand
01 03 00.00 48	Replace specification in entirety	Inserted paragraph 1.2.4 regarding requirements for RRC and roof design

c. PREPROPOSAL CONFERENCE SUMMARY**Panama City Army Reserve Center****Panama City, FL****12 January 2012**

Attendees: See attached list (Atch 1)
From: Ken Shelton, CH2M HILL Project Manager
Date: 12 January 2012

Welcome and Introductions – Joni Hibbard, USACE Project Manager

1. The meeting was held in an Army Reserve Center (ARC) in Panama City, FL.
2. Joni opened the meeting and welcomed the attendees. She described her role and the USACE Project Manager and her responsibilities to deliver a successful project for the Army Reserve Installation Management Directorate (ARIMD) customer.
3. Joni introduced the USACE Louisville team, the Tyndall AFB USACE Area Office staff that would oversee the construction and the representatives from CH2MHILL (RFP Preparer).
4. Joni also reviewed the agenda for the meeting.
5. A sign in roster (Atch 1) was passed around.

Contracting – Jennifer Anderson, USACE Contracts Specialist

6. Jennifer is responsible for the administration of the Source Selection Board process.
7. This is an 8A Competitive Best Value procurement. Section 00114 contains the proposal submission requirements and evaluation criteria. Proposals that include a teaming agreement will not be accepted. Small business must have a formal Joint Venture agreement with their partner to be eligible.
8. The Construction Cost Limit for this project is \$5,552,000.
9. The Government may not award to the lowest price. The technical information (experience, past performance, safety, technical proposal and management plan), when combined, are equal in importance to price.
10. Contractors should not assume that they will have an opportunity to revise their proposals after submittal. If there is a technically qualified contractor at an awardable price, there will be no reason to open discussions and ask for a revised proposal. Initial proposal should be the best effort.
11. The proposal includes a base and 9 options. Evaluation of price will be made on the total of the base and options combined.
12. The contract period of performance is 490 days (includes design and construction).

13. The selection will be based on Best Value (BV) criteria, not Low Price Technically Acceptable (LPTA).
14. Proposals must include past performance of five (5) projects completed/substantially completed within the past five (5). Example projects must meet minimum criteria for square footage and cost as specified in Section 00114. An amendment will be issued to specify that example projects to demonstrate past performance must be new construction projects.
15. Source Selection Board will consider ACASS/CCASS ratings, awards, letters of commendation, etc.
16. Proposals must be valid for 120-days after submittal.
17. A bid bond is not required.
18. Proposals are due NLT 8 Feb 12 at 1:00 pm ET.
19. Currently the estimated award date is 1 Mar 12.
20. The original and 7 copies of Volume I of the proposal are required. Volume II, Price and Pro Forma Information, only requires the original in a separate envelope.
21. A completed Section 00600, Representations and Certifications, is part of the Pro Forma requirement. If Contractors have Reps & Certs in the ORCA system, so state in the proposal and don't just omit Section 00600 from proposal.
22. SF 1442 must be signed and amendments must be acknowledged. If this is not done, the proposal will be considered non-responsive.
23. All betterments, priced or unpriced, must be identified. Betterments must be identified on drawings and in the narrative. Betterments and/or deviations must be presented in Volume I of the proposal. Volume II will include the price for the betterments.
24. All technical questions relating to the solicitation must be submitted via Bidder Inquiry in ProjNet. ProjNet will be closed 5-days before bids due.
25. Contractors are to plan that all design review meetings will be held in Panama City, FL.

Design Process – Ram Vuddagiri, USACE Project Engineer

26. USACE Louisville District is the Center of Standardization for the Military Construction Army Reserve (MCAR) program and centrally manage MCAR projects across the country.
27. The project synopsis was originally announced in FedBizOps in Jun 11. The synopsis was re-issued in Nov 11 and the solicitation was released on 5 Jan 12.
28. Minutes of meeting, including attendees, will be posted on FebBizOps as an amendment. Questions during the meeting should be submitted on an index card so that answers can be provided. These answers will also be posted to FedBizOps with the amendment.
29. This is a FY 10 MCAR project that includes a combination of MCAR and Operations and Maintenance Army Reserve (OMAR) funds. Generally, the MCAR funds are used for the “brick and mortar” while the OMAR funds are used for minor equipments items (e.g. special equipment, lockers, caging, etc). The requirements for these different funding sources must be bid separately. The Price Breakout Schedule is structured to capture the prices for these different funding categories.

30. The target funding ceiling for the MCAR portion of this project is \$5.6M. OMAR does not have a target ceiling.
31. This is a Design – Build (DB) RFP. Concept site/floor plans are included in the RFP demonstrating functional relationships. Most MCAR DB RFPs are more prescriptive than typical private sector DB RFPs.
32. Offerors are encouraged to use some creativity to advance the concept site/floor plans to achieve award winning, impressive projects while maintaining function and staying within the target budget ceiling.
33. The project includes ARC training building, Organizational Maintenance Shop, and Unheated Storage. The project also includes adequate parking for military equipment and privately owned vehicles. The primary mission of the ARC complex is to train soldiers.
34. Safety is a critical component to the offerors' plans– use EM 385-1-1, which may be more stringent than OSHA requirements.
35. The DB RFP includes a base proposal and 9 options; selection based on total bid (base + options).
36. The design process and submittal requirements are described in the Design Process and Submittal Requirements Manual (DPSRM) – Part C, which is available on the Louisville District Army Reserve Customer Webpage. Generally, the Charrette is the first step and will establish the site and floor plans. The Charrette will be followed by the Interim Design, Final Design, Corrected Final Design, and Certified Final Design phases. The DPSRM defines what is required for each discipline for each design phase.
37. The solicitation allows for “fast tracking”. This allows the Contractor to submit, for example, a final civil/structural package with the interim design submittal. It is the Contractor's option to determine if “fast tracking” is used, and what portions will be “fast tracked”.
38. Once a Certified Final package is accepted, a Release for Construction will be provided. The Contractor may proceed with only those portions of the design included in the Certified Final Design.
39. A compliance review will be conducted on each design submittal by the USACE Louisville District, USACE Geographic Construction District, CH2MHILL (RFP Preparer), and multiple Government communications agencies.
40. The on-line system within ProjNet called DrChecks, will be used to track all design review comments.
41. The RFP does require registration of the designers. A couple of requirements are of note including, but not limited to,
 - a. Registered Communications Distribution Designer (RCDD),
 - b. Registered Fire Protection Engineer,
 - c. National Council for Interior Design Qualification (NCIDQ) certified Interior Designer
42. A Comprehensive Interior Design (CID) including a Structural Interior Design (SID) and Furniture, Fixtures, and Equipment (FF&E) is required.
43. USACE Louisville District procures and installs the furniture. The Contractor is responsible for the design and layout of the furniture. The furniture provider for this project will be UNICOR.

44. The furniture and IT installation occurs within the contract period of performance. The facilities must be ready for furniture and IT installation 42-days before the contract completion date. This includes all painting, flooring, lighting, HVAC, doors, cleaning, and operational/certified elevator (if required). Upon completion of the furniture installation, the Contractor is responsible for the final power and data connections to all modular systems furniture.
45. The contract duration includes all time for the design, permitting, construction, and furniture and IT installation.
46. The Contractor is required to submit his project schedule after contract award. The intent of the sample schedule in the specifications is to illustrate the required design activities and milestones and to indicate typical design durations. The durations indicated for the Government review periods cannot be shortened.
47. The Tyndall AFB Resident USACE Office will oversee the construction of this project.
48. Ensure that all required permits are in-place before construction.

RFP Summary – Ken Shelton, CH2MHILL Project Manager

49. Ken presented a PowerPoint slide summary of the RFP, focusing on the Statement of Work (spec section 01 02 00.00 48).
50. He identified some of the key reference documents including the website for the USACE Louisville Design Guide.
51. He provided a description of the project site and some of its characteristics, including environmental, ATRP, and access to utilities.
52. Emphasized that the contractor is responsible for all coordination with local utilities, permitting agencies, permit applications, and all fees (mitigation, impact, and permitting).
53. He provided a brief description of the buildings and emphasized that the concept floor plans had been approved by the government, but minor changes could be anticipated to account for detailed design and structural elements. Spatial and functional agencies are to be maintained.
54. He reiterated that the facility gross square footage upper limit was not to be exceeded.

Construction Process – Dan Messer, USACE Construction Resident Engineer Office

55. Safety is paramount. “There is no such thing as an accident.”
56. The Resident Office will have limited involvement during design; primary involvement will be during construction phase.

Questions and Answers

57. Contractors were offered opportunity to present any questions on index cards. The responses to these questions will be addressed in an amendment.

Site Visit

58. A site visit was conducted to allow the contractors to view the site.

d. Responses to contractor’s questions:

Panama City Army Reserve Center

Preproposal Meeting – 12 January 2012

Proposed Responses to Contractors' Questions

The following questions were provided to the USACE Contracting Specialist on index cards during the Preproposal Meeting on 12 January 2012. Below proposed responses are provided for approval before posting with the Amendment 1 documents. With the exception of Question 1, all other questions/answers were addressed in ProjNet.

1. **Question:** Why doesn't the design for the data, voice and video requirements comply with the US Army Installation Information Modernization Program (I3MP) for Gigabit Passive Optical Networking (GPON) requirements?

Proposed Response: The requirements in the ARMY Directive for I3MP were incorporated into the latest version of the US Army IT Manual (Chg 3, dated 17 Oct 11). The RFP states that the criteria will be used from the most current references. Therefore, suggest the following response be provided to the Contractor, "Spec section 01 02 00 .00 48, Part 2, Para 2.1 states that criteria shall be taken from the most current references as the date of the issue of the RFP, unless otherwise noted. The most current version of the US Army IT Manual is Change 3, dated 17 Oct 11. Refer to paragraph 3.2.7. for Gigabit Passive Optical Networking (GPON) requirements."

2. **Question:** Are you requiring 3'-0" overhang on UHS Building?

ProjNet Response: No. Paragraph 6.2.1.2.1 is in reference to the Training Building and OMS only and identifies a preference, not a requirement.

3. **Question:** Can the project be produced in REVIT BIM I lieu of Bentley BIM?

ProjNet Response: Per specification 01 03 00.00 48, drawings shall be prepared using Microstation BIM.

4. **Question:** Do the doors have to match the STC rating of walls?

ProjNet Response: Refer to UFC 4-171-05, Chapter 4 Individual Space Criteria, Space Design Information which sets requirements for each type of space without differentiating specific components that define that space. The designer is responsible for achieving the STC rating called out for the space.

5. **Question:** Elaborate on the requirements for ventilated space between the metal roof and insulation.

ProjNet Response: Standard roof attachment clips result in an air space between the SSMR and the insulation, which serves through convection to reduce heat transfer through the system. Design/Build contractor is responsible for proper detailing and construction of the roof system and all parts of the building envelope.

6. **Question:** Are metal wall panels allowed on the training building for accents? (would tie into UHS Bldg)

ProjNet Response: UFC 4-171-05 Article 3-5.1.2 and RFP Section 6.2 identify preferred wall systems. Designer of record is responsible for wall system designs that comply with all design guide requirements. Designs which incorporate alternate materials and systems must be submitted to and approved by the Project Officer. Design is to accomplish a facility that will "enhance a sense of

identity and pride of ownership”(UFC 4-171-05 Article 2-7.1.1.4) while meeting construction budget requirements. Properly used and installed metal wall panels may be seen as economical accent features in limited applications.

7. **Question:** Can we submit experience of the designer as well as a design subcontractor? We have specific experience with our Civil and Structural and would like to use that experience.

Yes. See Section 00114 – Section 1 Experience 5.1.1 B – Design Team Experience

8. **Question:** Regarding references, can we submit past performance forms that have been completed by our clients?

Yes.

9. **Question:** Are we to include betterment pricing in our base bid? Are we supposed to also submit a separate breakout of prices in Volume II?

See Section 00114 - Submit pricing of betterments in Volume II. This will be addressed by amendment.

10. **Question:** Tab E – Pre-Award Information – This Tab should be D, not E. This will be addressed by amendment.

- e. Section 00114 is replaced in its entirety.
- f. The Price Breakout Sheet is replaced in its entirety.
- h. The following drawings and specifications are changed by this amendment (See attachment 0002)

CS100, CS101 CS102 CS103
01 02 00.00 48 Part 7, 01 02 00.00 48 Part 13, 01 03 00.00 48

- g. All other terms and conditions remain unchanged.

The following have been modified:

PRICE BREAKOUT SCHEDULE

PRICE BREAKOUT SCHEDULE AMENDMENT 0001

23 January 2012

PROPOSAL SCHEDULE

PROJECT: Design and Construction of the Panama City Army Reserve Center

LOCATION: Panama City, FL

PROPOSER'S NAME: _____

BASE PROPOSAL

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>AMOUNT</u>
0001	Training Building	lump sum	\$_____
0002	Organizational Maintenance Shop	lump sum	\$_____
0003	Unheated Storage	lump sum	\$_____
0004	Site Work	lump sum	\$_____
0005	Project Design Fee	lump sum	\$_____
TOTAL BASE PROPOSAL			\$_____

OPTIONS

0006	Option A - Asphalt pavement in lieu of gravel	lump sum	\$_____
0007	Option B - OMS Crane	lump sum	\$_____
0008	Option C - Wash Platform	lump sum	\$_____
0009	Option D - Loading Ramp	lump sum	\$_____
0010	Option E - Photovoltaic Panel System to provide for 50 KW of Renewable Energy	lump sum	\$_____
0011	Option F - Photovoltaic Panel System to provide for 100 KW of Renewable Energy	lump sum	\$_____
0012	Option G - Photovoltaic Panel System to provide for 150 KW of Renewable Energy	lump sum	\$_____

0013 Option H - CFCI OMAR Funded Items lump sum \$_____

0014 Option I - CFCI "Bona Fide Need" OMAR
Funded Items lump sum \$_____

TOTAL OPTIONS \$_____

TOTAL BASE PROPOSAL + OPTIONS \$_____

Description of Base Proposal Items

- (a) Item No. 0001 "Training Building" includes all construction work required within a line five feet outside of the Training Building.
- (b) Item No. 0002 "Organizational Maintenance Shop" includes all construction work required within a line five feet outside of the Organizational Maintenance Shop.
- (c) Item No. 0003 "Unheated Storage" includes all construction work required within a line five feet outside of the Unheated Storage.
- (d) Item No. 0004 "Site Work" includes all demolition, excavation, fill, and construction work required beyond a line five feet outside the buildings and work that is required for paved areas except that covered by Items No. 0001, 0002, and 0003. In addition, this item includes all concrete pads, utility lines, coordination with utilities and Department of Transportation, and all connection fees, impact fees, permits, and other fees.
- (e) Item No. 0005 "Project Design Fee" includes the fees from the Offeror's design professional to complete the Base proposal design and construction documents for the project to include but not limited to all applicable permitting, surveying, and geotechnical work.
- (f) Item No. 0006 "Option A - Asphalt Pavement MEP in lieu of gravel" includes all design and construction work required to provide. Asphalt pavement for the MEP in lieu of the base bid of gravel. Award of option to occur 120 days after Award of the Contract.
- (g) Item No. 0007 "Option B - OMS Crane" includes all design and construction work required to provide a 10-ton crane in the OMS including all required modifications to the OMS Building. Award of option to occur 120 days after Award of the Contract.
- (h) Item No. 0008 "Option C - Wash Platform" includes all design and construction work required to provide a wash platform including associated utilities and paving and OMS gate to create the loop access to MEP. Award of option to occur 120 days after Award of the Contract.
- (i) Item No. 0009 "Option D - Loading Ramp" includes all design and construction work required to provide a loading ramp. Award of option to occur 120 days after Award of the Contract.
- (j) Item No. 0010 "Option E - Photovoltaic Panel System" to provide for 50 KW of Renewable Energy includes all design and construction work and utility connection fees required to provide a grid tied photovoltaic panel system to provide for 50 KW of Renewable Energy. Award of option to occur 120 days after Award of the Contract. If Option E is exercised, Options F and G will not be exercised.
- (k) Item No. 0011 "Option F - Photovoltaic Panel System" to provide for 100 KW of Renewable Energy includes all design and construction work and utility connection fees required to provide a grid tied photovoltaic panel system to provide for 100 KW of Renewable Energy. Award of option to occur 120 days after Award of the Contract. If Option F is exercised, Options E and G will not be exercised.
- (l) Item No. 0012 "Option G - Photovoltaic Panel System" to provide for 150 KW of Renewable Energy includes all design and construction work and utility connection fees required to provide a grid tied

photovoltaic panel system to provide for 150 KW of Renewable Energy. Award of option to occur 120 days after Award of the Contract. If Option G is exercised, Options E and F will not be exercised.

(m) Item No. 0013 "Option H CFCI OMAR Funded Items" includes all work required to furnish and install Operations, Maintenance Army Reserve (OMAR) funded items which are items not permanently attached to the construction. These items include metals lockers and caging, fire extinguishers and window blinds. These items are also listed in UFC 4-171-05 Army Reserve Facilities, Appendix C, OMAR - Funded Items. Award of option to occur 120 days after Award of the Contract.

(n) Item No. 0014 " Option I CFCI Bona Fide Need OMAR Funded Items" includes all work required to purchase and install OMAR funded items awarded with six months of BOD. These items include Arms Vault dehumidifiers, free standing shelving, break room refrigerators, microwaves, and trash cans. These items are also listed in UFC 4-171-05 Army Reserve Facilities, Appendix C, OMAR - Funded Items. Award of option to occur 490 days after Award of the Contract.

SECTION 00114

SECTION 00114

AMENDMENT 0001

PROCEDURES FOR SUBMITTAL OF OFFERS AND PROPOSAL EVALUATION CRITERIA

1. Overview.

1.1 The intent of this solicitation is to select one contractor for the Design and Construction of an Army Reserve Center, Panama City, Florida.

1.2 The basis of award is the Tradeoff Process. The Contracting Officer will award a firm fixed price contract to the responsible offeror whom the Source Selection Authority determines conforms to the solicitation, is fair and reasonable and offers the best overall value to the Government, all factors considered. The Government reserves the right to accept other than the lowest priced offer or to reject all offers.

2. Submittal of offers.

2. 2.1 Offerors submitting proposals for this project should limit submissions to data essential for evaluation of proposals so that a minimum of time and monies will have been expended in preparing information required herein. However, in order to be effectively and equitably evaluated, the proposals must include information sufficiently detailed to clearly describe the offeror's past performance, technical approach and management capabilities to successfully complete the project. Proposals should follow in the order of sequence set forth in the RFP. Information provided out of sequence may not be evaluated and may result in the offeror's disqualification from award. Requirements stated in this RFP are minimums. Innovative, creative or cost-saving proposals that meet or exceed the requirements are encouraged and will be rated accordingly. Any betterments should be clearly noted and justified in the proposal. A betterment is defined as any component, feature, or system that exceeds the minimum requirements stated in the Request for Proposal and is **included in the proposed price**. This includes all betterments identified by the Contractor in the proposal and/or all betterments identified by the Government in the solicitation (desirable features or preferred items).

2.2 Offerors shall submit their proposals to the US Army Corps of Engineers, 600 Dr. Martin Luther King, Jr. Place, Room 821, Louisville, KY 40202-2267 no later than the time and date specified in Block 13 of Standard Form 1442.

2.3 Offerors are required to submit a proposal made up of a Past Performance and Technical Proposal and a Price Proposal. All proposal materials shall be submitted in binders with a table of contents and tabbed section dividers. The sections should parallel the submission requirements identified below. Volume 1, Sections 1-4 shall be submitted in original and five copies. **NOTE:** Only submit one (1) copy of the rendering(s). Volume 2, Sections 5-6 shall be submitted in original only and shall be placed in a separate envelope. Proposed betterments are to be indicated in a separate section in Volume 2 of the proposal and tabbed "Betterments ". Failure to place the required submission information under the appropriate tab (factor or subfactor) may result in a lower rating if the evaluators cannot readily find the appropriate information.

2.4 The target ceiling for this project is \$5,552,000 which is exclusive of OMAR funded line items. The Government cannot guarantee that additional funds can be made available for award. Offerors are under no obligation to approach this cost limitation.

3. **Proposal Evaluation Process.**

3.1 A Source Selection Evaluation Board (SSEB) comprised of representatives of the Corps of Engineers, User/Customer, and other required personnel, will evaluate the proposals. Offerors are advised that the technical evaluation and rating of proposals will be conducted in strict confidence in that technical/quality proposals are reviewed and rated without knowledge of the price offered. The number and identities of offerors are not revealed to anyone who is not involved in the evaluation and award process or to other offerors. Proposals will be evaluated based on the factors described herein, and the basis of award is the Tradeoff Process.

3.2 The evaluation process essentially consists of four parts: proposal compliance review and responsibility determination, technical/quality evaluation, price evaluation and cost/technical trade-off analysis.

3.2.1 **Proposal Compliance Review:** This is an initial review to ensure that all required forms and certifications are complete and that both a technical and price proposal were received.

3.2.2 **Technical/Quality Evaluation:** The SSEB will evaluate and rate the proposals against the RFP requirements. Some factors will be rated using an adjectival-based system. Others will be rated on an "acceptable/unacceptable" basis. Past Performance will be rated based on relevancy and confidence.

3.2.3 **Price Evaluation:** The SSEB will evaluate price proposals independent of the technical/quality evaluation. The SSEB will not have access to price information until completion of the technical/quality evaluation.

3.2.4 **Cost/Technical Trade-off Analysis:** After all above evaluations are complete, the SSEB will compare the relative advantages and disadvantages of technical proposals and compare prices. As part of the cost/technical tradeoff analysis, the SSEB will compare the relative advantages and disadvantages of technical proposals and compare prices. Note - Section 010200.0048 Statement of Work identifies design preferences for exterior finishes, roof systems, and mechanical systems. The Source Selection Authority (SSA) will then consider all factors to select the proposal offering the most advantage to the Government.

4. **Proposal Information and Related Evaluation Factors.**

4.1 Proposals will be evaluated in accordance with the factors and subfactors below, listed in relative order of importance and weighted as indicated. All evaluation factors, other than cost or price, when combined are considered equal to cost or price. Offerors are reminded to include their best technical and price terms in their initial offer and not to automatically assume that they will have an opportunity to participate in discussions or be asked to submit a revised offer. The Government may make award of a conforming proposal without discussions, if deemed to be within the best interests of the Government.

4.2 Volume I – Section I – Past Performance (Three-Ring Binder)	1 st
Tab A Relevant Experience Prime Contractor Experience Design Team Experience	1 st (equal to Tab B)
Tab B Confidence in Performance Prime Contractor Design Team Experience	1 st (equal to Tab A)
4.3 Volume I- Section II - Design-Technical (Three-Ring Binder)	2 nd (TAB A, B and C)
Tab A Technical Approach Design Drawings Design Narrative	1 st
Tab B Management Management Plan	2 nd
Tab C Safety Safety Initiatives and Certifications Safety performance and Record	3 rd
4.4 Volume II - Price and Pro Forma Information (Sealed Envelope)	
Tab A Standard Form 1442 and Proposal Price Breakout Sheet	Not Rated
Tab B Betterments	Not Rated
Tab C Evidence of Ability to Obtain Bonding and Proof of Financial Ability	Acceptable/Unacceptable
Tab D Pre-Award Information	Not Rated

NOTE: 8(a) Joint Venture Offeror or Offeror submitting Proposal as HubZone Joint Venture shall submit evidence from Offerors SBA Servicing Agency that the Offeror has notified and discussed the proposed joint venture for this specific project with the appropriate SBA Representative or Business Opportunity Specialist.

5.0 Volume I – Section I – Past Performance

5.1 Tab A – Relevant Experience

5.1.1 Submission Requirements:

5.1 Section 1 - Experience

5.1.1 Submission Requirements

A. Prime Contractor Experience.

Provide descriptions of up to 5 new construction projects, including design/build projects, as a prime contractor substantially completed (Substantially Complete is the date upon which the agency takes beneficial occupancy (a punch list remains) and stops taking liquidated damages) or completed within the last 5 years, which are similar to this project in size and scope and dollar value. Projects considered similar in size would be a minimum of 15,000 square feet. Projects considered similar to this project include offices, administrative areas, schools, training facilities, and vehicle maintenance shops. Projects considered similar in dollar value would be a minimum of \$5,000,000. An IDIQ contract may be submitted only if a single task order could be considered similar to this project. Task orders may not be combined in order for the contract to be considered similar. Forms for Prime Contractor Experience are included for your use. Use as many forms as necessary to meet the criteria. If you elect not to use the forms, all information identified on the forms is still required for evaluation of this item. If the Offeror represents the combining of two (2) or more companies for the purpose of this RFP, each company will list project examples, but the total submitted by the prime contractor for this project will not exceed five (5). At least 15 % of the cost of the contract performance incurred for personnel must have been spent on the prime contractor's own employees. Identify any projects that the prime contractor and proposed design team have accomplished together, either by indicating which of the similar projects identified in response to this submission criterion were completed together or by providing a separate list of projects completed together.

NOTE: For purposes of evaluating Prime Contractor Experience and Prime Contractor Past Performance, the Prime Contractor is defined as the contractor identified in Block 14 of the Standard Form 1442. If more than one contractor is listed in Block 14, then a signed joint venture must be submitted with the proposal and the joint venture shall be registered as such in the Central Contractor Registration (CCR). However, each party of the Joint Venture must submit their own DUNS number with the JV proposal. "WORK BY THE CONTRACTOR" is defined as prime Contractor direct contract labor (including testing and layout personnel), exclusive of other general condition or field overhead personnel, material, equipment, or subcontractors. Projects performed by other contractors than the offeror, such as teaming partners or subcontractors, will not be evaluated as prime contractor experience or prime contractor past performance, unless those other contractors are part of a joint venture offeror as demonstrated by a signed joint venture agreement."

NOTE: 8(a) Joint Venture Offeror or Offeror submitting Proposal as HubZone Joint Venture shall submit evidence from Offerors Small Business Administration (SBA) Servicing Agency that the Offeror has notified and discussed the proposed joint venture for this specific project with the appropriate SBA Representative or Business Opportunity Specialist.

B. Design Team Experience.

Provide descriptions of up to 5 new construction projects, including design/build projects, within the past five years, which are similar to this project in scope and size and complexity. Projects considered similar to this project include offices, administrative areas, schools, training facilities, and vehicle maintenance shops. Projects considered similar in size would be a minimum of 15,000 square feet. An IDIQ contract may be submitted only if a single task order could be considered similar to this project. Task orders may not be combined in order for the contract to be considered similar. An experience form is included for your use. If you elect not to use the form all information identified on it is still required for evaluation of this item. If the design team represents the combining of two or more companies for the purpose of this RFP, each company will list project examples, but the total submitted by the design team will not exceed five (5). Identify any projects that the prime contractor and proposed design team have accomplished together, either by indicating which of the similar projects identified in response to this submission criterion were completed together or by providing a separate list of projects completed together.

5.1.2 Evaluation Criteria:

A. Prime Contractor Experience

The SSEB will evaluate the relevancy of recent experience identified in the proposal. Documentation of successful completion of projects similar in size, scope and dollar value to this project will be considered relevant to the minimum requirements of the RFP. Conversely, proposals that do not show documentation of successful completion of projects similar in size, scope and dollar value will be considered not relevant to the minimum requirements of the RFP. Projects considered similar to this project include offices, administrative areas, schools, training facilities, and vehicle maintenance shops. Projects that the prime contractor and proposed design team have accomplished together, either by similar projects identified in response to this submission criterion or other projects substantially complete or completed together may receive additional consideration. Design/Build, Federal or National Guard projects may also receive additional consideration.

B. DesignTeam Experience

The SSEB will evaluate for relevancy of recent experience identified in the proposal. Documentation of successful completion of projects similar in size, scope and complexity to this project will be considered relevant to the minimum requirements of the RFP. Conversely, proposals that do not show documentation of successful completion of projects similar in size, scope and complexity will be considered not relevant to the minimum requirements of the RFP. Projects considered similar to this project include offices, administrative areas, schools, training facilities, and vehicle maintenance shops. Projects that the prime contractor and proposed design team have accomplished together, either by similar projects identified in response to this submission criterion or other projects substantially complete or completed together may receive additional consideration. Design/Build, Federal or National Guard projects may also receive additional consideration.

5.2 Tab B – Confidence in Performance

5.2.1 Submission Requirements:

A. Prime Contractor Past Performance

Provide any ratings, letters of commendation or letters of recommendation, awards, etc. which support past performance on projects for all experience identified in paragraph 5.1.1A.

Reference information should include project name, location, owner's name, point of contact for reference and telephone number. The Government may also use other tools such as CPARS, CCASS, FAPPIS, Dun & Bradstreet, etc. to gather documentation of past performance.

B. Design Team Past Performance

Provide any ratings, letters of commendation or letters of recommendation, awards, etc. which support past performance on projects for all experience identified in paragraph 5.1.1B.

Reference information should include project name, location, owner's name, point of contact for reference and telephone number. The Government may also use other tools such as CPARS, ACASS, FAPPIS, Dun & Bradstreet, etc. to gather documentation of past performance.

5.2.2 Evaluation Criteria:

A. Prime Contractor Past Performance

The SSEB will assign a confidence rating to each offeror based on the degree of successful performance of all experience identified in the proposal in response to paragraph 5.1.1A. The Government reserves the right to check any or all cited references to verify supplied information and to assess owner satisfaction. The Government may also use other tools such as CPARS, CCASS, FAPPIS, Dun & Bradstreet, etc. or any other relevant information to assist in its evaluation of an offeror's past performance.

B. Design Team Past Performance

The SSEB will assign a confidence rating to each offeror based on the degree of successful performance of all experience identified in the proposal in response to paragraph 5.1.1A. The Government reserves the right to check any or all cited references to verify supplied information and to assess owner satisfaction. The Government may also use other tools such as CPARS, ACASS, FAPPIS, Dun & Bradstreet, etc. or any other relevant information to assist in its evaluation of an offeror's past performance.

6.0 Volume I – Section II – Design Technical

6.1 Tab A Technical Approach

6.1.1 Submission Requirements

A. Design Drawings. Submit in ANSI D half size scalable to fit 11/17 sheets.

The proposal design drawings shall provide the information as follows:

BUILDING FUNCTION AND AESTHETICS – ARMY RESERVE CENTER

Include the following:

- Floor Plans
- Exterior Elevations (Show all Sides)

- Show exterior materials and roof pitches including colors.
- Typical Wall Sections
 - Show predominant exterior wall and wall/roof interaction condition.

SITE DESIGN – ARMY RESERVE CENTER

Site Plan (Layout for all site requirements) - Include the following:

- Spatial and functional arrangement
- Project Boundaries
- Preliminary Storm water and Grading Plan
- Vehicular circulation, Parking and Pedestrian Circulation
- Force Protection Features, Building Setbacks,

BUILDING FUNCTION AND AESTHETICS – OMS/AMSA

Include the following:

- Floor Plans
- Exterior Elevations (Show all Sides)
 - Show exterior materials and roof pitches including colors.
- Typical Wall Sections
 - Show predominant exterior wall and wall/roof interaction condition.

SITE DESIGN – OMS/AMSA

Site Plan (Layout for all site requirements) - Include the following:

- -Spatial and functional arrangement
- -Project Boundaries
 - Preliminary Storm water and Grading Plan
- -Vehicular circulation, MEP and POV Parking and Pedestrian Circulation
- -Force Protection Features, Building Setbacks

B. Design Narrative

Provide a clear, concise narrative (not to exceed 20 pages using a minimum font of 11 and a minimum margin of one-half inch on all sides) describing the following building design features:

Civil/Geotechnical
 Architectural/Interior Design
 Roofing System
 Structural
 HVAC System

The narrative shall also note any improvements exceeding the RFP requirements or betterments provided, including an explanation of proposed building systems, as outlined in Spec 010200.0048 Statement of Work.

6.2.2 Evaluation Criteria

The Government will evaluate any betterments offered in the proposal relative to the minimum standards of the RFP to determine if they offer additional value to the Government. See Paragraph 7.2.2. Additional technical proposal consideration may be given to an Offeror that includes approved betterments in their proposal that offer additional value to the Government.

A. Design Drawings

Drawings will be reviewed for Code compliance, thoroughness, functionality, quality of materials, and an understanding of the project requirements. Drawings that exceed the minimum requirements or offer building system preferences listed in Section 010200.0048 Statement of Work may receive additional consideration.

B. Design Narrative

The Design Narrative will be evaluated for completeness and thoroughness, by including the building design features of the RFP as outlined in Section 010200.0048 Statement of Work. Proposals that offer building system preferences and demonstrate a complete understanding of the project requirements in Section 010200.0048 Statement of Work may receive additional consideration. Pages beyond the limited specified in Section 00114, paragraph 3.1 C, will not be read or evaluated.

The Government will evaluate betterments offered in the proposal to determine they offer additional value to the Government. Deviations from the minimum standard of quality required by the RFP shall not be accepted unless identified and specifically approved by the Contracting Officer in writing. If unapproved, the Contractor must provide the RFP requirements without additional cost to the Government.

6.2 Tab B - Management

6.2.1 Submission Requirements:

A. Management Plan

Provide a management plan for the project that describes how your labor, resources, designers, subcontractors and material suppliers will be coordinated and used to ensure successful completion of the project. Describe how you will manage, supervise and coordinate the subcontractors' work and who in the organization will be responsible for this management and coordination. Discuss which resources are available but will not be present at the site. Provide an organizational chart for this project showing home office support, on-site management and the responsible chain of command. Include names of required assigned personnel (which also includes Quality Control and Safety) and proposed subcontractors and their areas of responsibility. Joint venture offerors must show the respective areas of responsibility for each partner. Clearly delineate on-site from off-site personnel.

6.2.2 Evaluation Criteria:

A. Management Plan

Comprehensive plans that demonstrate a clear understanding of the work and an ability to coordinate resources to ensure successful pursuit of the work will be considered to meet the RFP requirements. Plans that do not demonstrate a clear understanding of the work, that do not demonstrate a capability to coordinate resources, or that do not demonstrate appropriate excess capacity will be considered to not meet the RFP requirements. Plans will be evaluated based on the level of involvement the contractor will have in the management, oversight, control, and coordination of the work performed by subcontractors. The SSEB will evaluate the clarity, adequacy, capabilities and strengths of the offeror's organizational chart or managing a successful project. An organizational chart that clearly depicts a highly qualified on-site team supported by appropriate resources off-site and that clearly defines responsibilities will be considered to meet the RFP requirements. Charts that are confusing, cluttered with duplicative entries, or that do not clearly define responsibilities will be considered to not meet the RFP requirements.

6.3 Tab C – Safety

6.3.1 Submission Requirements

A. Safety Initiatives and Certifications: Describe Prime Contractor's commitment to safety, including, but not limited to, company safety incentive programs, company safety training programs, and integration of safety by management and employees into the workplace. Also, identify any company safety certifications. Limit two pages, double spaced. Information exceeding the two page limit will not be evaluated.

B. Safety Performance and Record: Provide Prime Contractor's Experience Modification Rate (EMR) for the past five (5) years. Show evidence that the EMR was calculated by a professional rate service organization such as the National Council of Compensation Insurance.

NOTE: For purposes of evaluating Prime Contractor EMR, the Prime Contractor is defined as the contractor identified in Block 14 of the Standard Form 1442. In the case of a joint venture, EMR information shall be included both contractors.

6.3.2 Evaluation Criteria

A. Safety Initiative and Certifications: The SSEB will evaluate the Prime Contractor's narrative to ensure it adequately addresses each of the following: company safety incentive programs, company safety training programs, and integration of safety by management and employees into the workplace. Additional consideration may be given for Voluntary Protection program (VPP) or ISO certification or similar programs. The SSEB will not evaluate or approve the contractor's project specific safety plan or Accident Prevention Plan (APP) as part this evaluation. Selected contractor is still required to submit a complete safety plan / APP as part of post award activities.

B. Safety Performance and Record: The SSEB will evaluate Experience Modification Rate (EMR) for the past five (5) years, based on an industry average EMR of 1.0. Higher incidence rates will be rated less favorably and lower incidence rates will be rated more favorably. An explanation may be included for higher incidence rates.

7.0 Volume 2 - Price and Pro Forma Information

7.1 Tab A - Standard Form 1442 and Price Breakout Sheet. Submit in a separate envelope.

7.1.1 Submission Requirements:

The offeror shall complete and submit Standard Form 1442 and Section 00010, Price Breakout Sheet. Both of these forms are included in Section 00010 of this solicitation.

7.1.2 Evaluation Criteria:

The price will be evaluated on base proposal plus all options. The price will be reviewed by the SSEB and Contracting Officer/SSA for reasonableness and realism through the use of cost or price analysis. Price will also be checked for unbalancing of line items. Offerors are cautioned to distribute costs appropriately.

7.2 Tab B – Betterments

7.2.1 Submission Requirements:

Any proposed betterments identified in the proposal are to be listed in Volume I. Provide a separate list in Volume II that identifies the additional cost of the proposed betterment over the minimum requirement of the RFP.

7.2.2 Evaluation Criteria

The Government will evaluate betterments offered in the proposal to determine if they offer additional value to the Government. If betterments are not accepted by the Government, the proposed price will be reduced by the amount of the betterment(s) not accepted and the Contractor must provide the RFP requirements. Deviations from the minimum standard of quality required by the RFP shall not be accepted.

7.3 Tab C - Evidence of Ability to Obtain Bonding and Proof of Financial Ability

7.3.1 Submission Requirements:

A. Financial Capability. Submit Proof of Financial Ability (Most recent financial statement covering assets and liabilities). Include the name, address and telephone number of firm's banking institution.

B. Bonding Capability. Submit information showing offeror's ability to be bonded for this project. Include the name, address and telephone number of the firm's bonding company.

7.3.2 Evaluation Criteria:

A. Financial information will be reviewed to determine the offeror's ability to be financially capable of sustaining performance under the contract. Positive bank references and a strong financial statement will be rated "Acceptable".

B. Bonding information will be reviewed to determine the offeror's ability to obtain the required Performance and Payment Bonds. Ability to obtain the level of bonding required by the solicitation from an acceptable surety will be will be rated "Acceptable".

7.4 Tab D - Pre-Award Information

7.4.1 Submission Requirements:

A. The offeror shall submit one completed copy of Section 00600, Representations and Certification.

B. The offeror shall submit the following information:

a) Number of years the firm has been in business

b) Name, address and telephone numbers of two credit/trade references

c) A list of present commitments, including the dollar value

B. The offeror shall submit the name, address, and DUNS number for any A-E subcontractor identified in the proposal.

7.4.2 Evaluation Criteria:

This information will be used for the purpose of completing the Pre-Award Survey and will not be rated.

PRIME CONTRACTOR EXPERIENCE

(as a Prime Contractor)

Your firm's name _____

Name of Project/Location/Square Footage

General Scope of Project

The work your company self performed

Percentage of Work completed by Prime Contractor Personnel: _____%

Construction Cost:

At Award: \$ _____

Reason for the cost growth:

Final Cost \$ _____

Award Date: _____

Scheduled Completion: _____

Reason for the time growth:

Actual Completion: _____

Extent and type of work you subcontracted out

Owner's Point of Contact (POC) for reference (name, company and telephone number)

DESIGN TEAM EXPERIENCE

Name of your firm

Project Name/Location

General Scope of Project

Your role (prime, joint venture, subcontractor) and the work your firm self-performed

Description of work subcontracted to others

Your subcontract amount: \$ _____

Award Date: _____

Completion: _____

Your performance evaluation by Owner

Your performance evaluation by Prime

Owner's POC for reference (name and company and telephone number)

Prime contractor's POC for reference (name and company and telephone number)

Past Working History/Relationship with Prime (including joint ventures and partnering experience)

(End of Summary of Changes)

PART 7

STRUCTURAL DESIGN

7.1 **GENERAL REQUIREMENTS.** The general and specific criteria detailed herein shall be used for structural loading, design and construction of structural systems and foundations, including manufacturing, erection, supervision, testing and quality assurance of the completed installation of the buildings. The structural system must be compatible with the intended building functions. Systems and components shall allow for flexibility in future reconfigurations of the interior space. Refer to Part 2 for Applicable Criteria.

7.2 **STRUCTURAL WORK.** The structural work consists of, but is not limited to, design and construction of:

7.2.1 **Building Foundations.** Spread footings, continuous strip (wall) footings, piles, drilled piers or others as recommended by the final Contractor's geotechnical report. Refer to Attachment A for Subsurface Characterization Report, to be used in preparation of D/B bids. All concrete masonry units below grade shall have all cores filled with concrete to prevent water from accumulating. Soils correction, building design and building detailing shall be consistent with maximum allowable settlement criteria of ½" differential settlement and 1" total settlement, unless otherwise accepted by the Government.

7.2.2 **Ground Floor Slab Systems.** Slab-on-grade or structural slab, as recommended by the final geotechnical report. All slabs-on-grade excepting the Arms Vault floor shall as a minimum, be reinforced with small deformed reinforcing bars at 12"-16" spacing in lieu of welded wire fabric. Reinforcement of the Arms Vault floor shall comply with DoD Standard AR 190-11 as referenced below.

7.2.3 **Load Bearing Walls.** Including masonry or concrete wall construction acting as primary vertical load carrying members and/or shear walls, and basement walls resisting lateral earth pressures (if any). Basement walls and elevator pits resisting lateral earth pressure (if any) shall be reinforced concrete or solid-filled, reinforced masonry.

7.2.3.1 Arms Vault walls shall be cast-in-place, reinforced concrete complying with DoD Standard AR 190-11, Physical Security of Arms, Ammunition, and Explosives and other Applicable Criteria of this RFP. Arms Vault ceiling and floor shall comply with these same standards. Refer to Attachment M for additional Arms Vault Information.

7.2.3.2 The following note shall be included on the arms vault construction documents, and Contractor shall assure that required inspections and acceptance occurs. "Concrete placement for arms vault floor, walls and roof may not proceed until written security certification and Contracting Officer acceptance is received. Certification can only proceed after reinforcing steel is in place. The Contractor shall provide the

Contracting Officer a two week notice, minimum, prior to concrete placement for the security inspection to take place. Be aware that separate concrete placements for various portions of the vault require separate inspections. It is the Contracting Officer's responsibility to obtain security certification from Army Reserve Security Specialists and/or the Installation Provost Marshal."

7.2.4 Non-Load Bearing Walls. Including masonry, concrete or steel stud wall construction.

7.2.5 Vertical Framing Members. Including steel or concrete columns, concrete piers or pilasters constructed of masonry or concrete. The Army Reserve prefers that any exterior wall columns be concealed in, or protrude only slightly from, the wall construction. Assembly Hall columns shall be so designed. The structure over Assembly Hall space shall be clearspan, with no interior vertical supports or columns. Column locations in all spaces shall be coordinated so they do not interfere with space functionality. Columns in Unit Storage shall not obstruct aisles for movement of pallets. Columns in maintenance bays shall not obstruct vehicle or crane movement. The Army Reserve prefers a column bay spacing of approximately 32 feet by 32 feet.

7.2.6 Horizontal Framing Members. Including roof and floor decks and diaphragms, roof and floor beams and girders, composite floor beams, joists and trusses.

7.2.6.1 For low-slope roofs, slope shall be accomplished by sloping structure and roof deck rather than with tapered insulation, except for crickets, backslopes along parapets, and similar small areas.

7.2.7 Connection Details. All interconnections of structural members including foundations, walls, framing members, slabs, roof deck, etc. The category also includes all fastening requirements of such details, and any special detailing necessary for seismic, wind and/or Anti-Terrorism/Force Protection (AT/FP) resistance.

7.2.8 Non-Structural Connections. Including attachments for architectural, mechanical and electrical elements to the structural systems. Includes any special detailing for attachments of such items for seismic, wind and/or AT/FP resistance.

7.2.9 Site Structures and Foundations. Including but not limited to loading ramp (if any) and retaining walls of concrete or concrete masonry.

7.2.10 Other Considerations. Including but not limited to expansion, construction, movement and control joints, changes in floor elevations, and special loads.

7.3 STRUCTURAL DESIGN CRITERIA. Structural loads and design, including deflection limitations, shall be in accordance with the codes and other Applicable Criteria listed in Part 2 and all codes referenced therein and as modified below. Structural loads include all dead, live, snow, ice, wind, seismic, earth, vehicular and hydrodynamic forces as applicable.

7.3.1 Minimum Live Load Requirements.

Offices – 50 psf.
Lobbies and First Floor Corridors Excluding Partitions – 100 psf.
Corridors Above First Floor Excluding Partitions - 80 psf.
Assembly Areas – 100 psf.
Mechanical and Electrical Rooms – 125 psf.
Toilets – 75 psf.
Library Reading Rooms – 60 psf.
Library Stack Rooms – 150 psf.
Armories (Small Arms) - 500 psf.
Light General Storage - 125 psf.
Stairs and Exits - 100 psf.
Roof – 20 psf (reducible).

7.3.2 Wind Loads. As a minimum, the structures shall be designed for a minimum wind speed of 130 mph, exposure C following the criteria in IBC/ASCE 7, in addition to the codes and other Applicable Criteria listed in Part 2. The site is hurricane-prone as classified by the IBC and ASCE 7 and is subject to wind-borne debris.

7.3.3 Seismic Loads. As a minimum, the structures shall be designed using minimum IBC/ASCE 7-related seismic coefficients $S_s = 8\% g$ and $S_1 = 4\% g$. The anticipated site classification is D, which shall be confirmed by the final geotechnical report.

7.3.4 Snow Loads. Ground snow load – minimum 0 psf.

7.3.5 Frost Penetration/Minimum Footing Cover. Minimum cover for foundations for heated building perimeter and unheated structures shall be as required in the contractor's final geotechnical report.

7.3.6 Floor Live Loads. All other building floor live loads shall be as determined in accordance with the codes and other Applicable Criteria listed in Part 2.

7.3.7 Equipment Live Loads. Applicable areas of floor structures shall be designed for the weights, dynamic loads and other effects of mechanical and electrical equipment, wheeled vehicles, forklifts, material handling equipment and any permanently mounted equipment. The minimum design vehicles shall include:

AASHTO HS 20-44.
Two axles of 8 tons each at 12'-0" on center.
Forklift of 8 tons gross weight.
(Amdt. #0001) DELETE * Tank (tracked vehicle) of 70 tons gross weight. * (Amdt. #0001)
RTCH Vehicle.

7.3.8 Concrete Mix Design. Concrete mix design shall be approved by the Structural Engineer of Record and shall be suitable for the site conditions.

7.3.9 **Structural Steel.** Structural steel shall conform to A992 for wide flange sections; ASTM A36 or A572 for angles, channels, and plates; ASTM A500, Grade B for tube sections; ASTM A53 for structural pipe.

7.3.10 **Metal Deck.** Design and construction shall be in accordance with Steel Deck Institute design manuals and load tables. Required section modulus and moment of inertia shall be shown on drawings. Architectural, mechanical, and electrical components shall not be supported directly from the metal deck. Attachments shall be to primary or interstitial framing members.

7.3.11 **Cold Formed Metal Framing.** Design and construction shall be in accordance with AISI Specification for the design of Cold-Formed Steel Structural Members. Materials shall be ASTM A653, $F_y=50$ ksi or ASTM A570, $F_y=33$ ksi.

7.4 **STRUCTURAL SYSTEMS.** The structural systems selected shall conform to all Applicable Criteria as well as industry standards and commonly accepted methods of practice. The Government prefers steel or concrete frame construction for the Training Center and Vehicle Maintenance Shops structures. Pre-engineered, prefabricated light gauge steel trusses are acceptable for sloped roofs. The Government also prefers one of the following forms of construction for elevated floors:

Steel beams with steel joists, metal deck and concrete fill
Composite steel beams with composite deck and concrete fill, or
Steel or concrete frame with concrete plank and concrete topping
Concrete framing (cast-in-place or precast)

Unless otherwise accepted by the Government, the following systems shall NOT be permitted for the Training Building, but is acceptable for the UHS:

Pre-engineered metal buildings

Alternative roof, floor and wall structural systems of equivalent quality and performance, and which meet the requirements of this RFP, will be considered.

7.5 SPECIAL REQUIREMENTS.

7.5.1 **Antiterrorism/Force Protection.** All designs and components of design shall conform to UFC 4-010-01, DoD Minimum Antiterrorism Standards for Buildings and associated supplemental guidance and instructions listed in Part 2. All structures of 3 stories or more in height shall also conform to UFC 4-023-03, Design of Buildings to Resist Progressive Collapse. The horizontal support of door, window and skylight glazing must be designed to resist static pressures corresponding to amplified connection design pressures listed in UFC 4-010-01 and its references, based upon the actual strength of the supplied window and door glazing. Refer to the Protective Design Center (PDC) at <https://pdc.usace.army.mil/> for further guidance and current interpretations or clarifications of these UFC's.

7.5.2 **Vibration Control.** Floor Framing (if any), regardless of the structural system used, shall be designed to prevent excessive vibration. This may be accomplished by conforming to recommendations and procedures of Steel Joist Institute (SJI) Technical Digest No. 5 and American Institute of Steel Construction (AISC) Design Guide No. 11. The Contractor shall demonstrate adequate controls of vibration in calculation submittals.

7.5.3 **Overhead Crane (Bid Option).** Provide a 10 ton overhead traveling crane with 20' hook height in the Vehicle Maintenance Shops as a bid option. Contractor shall design crane and structural support to operate in the space indicated, according to industry standards. Coordinate hook coverage, hook vertical travel and load test weight with the Contracting Officer. Crane shall be designed and constructed to MHI CMAA 70 Class C service requirements for operation in non-hazardous environment with hoist in accordance with ASME HST-1M.

7.5.4 **Geotechnical.** The Design Build contractor's Geotechnical Engineer of Record shall be responsible for preparing design recommendations for the foundation system for the buildings and site features. The foundation recommendation report shall be sealed by the engineer in responsible charge, licensed as a civil engineer. It is the General Contractor's responsibility to complete an independent geotechnical investigation.

A preliminary subsurface characterization report has been prepared by a professional engineer and is provided in Attachment A.

PART 13

FIRE PROTECTION DESIGN

13.1 DESIGN CRITERIA.

13.1.1 Design and install (labor, material, permits, licenses, etc.) the fire protection system. Fire protection system shall be designed, installed, and tested in accordance with Applicable Criteria listed in Part 2 and the latest edition of NFPA, and all associated local codes. All electrical work performed shall comply with the National Electrical Code (NFPA 70) for workmanship and installation requirements.

13.2 FIRE PROTECTION SYSTEM DESIGN AND CALCULATIONS.

13.2.1 Each building of the entire facility shall be protected in accordance with UFC 3-600-01, NFPA 13 and International Building Code. Provide a design narrative and calculations as indicated in the Army Reserve Design Process and Submittal Requirements. A registered fire protection engineer shall prepare preliminary calculations and provide the requirements for the fire protection system. The fire protection system shop drawings and hydraulic calculations shall be prepared by a NICET Level III or IV certified fire protection specialist or a Registered Fire Protection Engineer. Water velocity in the fire sprinkler system piping shall not exceed 20 feet per second. The Contractor shall be responsible for the installation, testing and field certifying of the entire system. The hazard classification requirements for this facility with regard to sprinkler protection are defined per the following:

13.2.1.1 Extra Hazard Group 1 Classified Areas. These areas include, but are not limited to, controlled waste and flammable storage areas.

13.2.1.2 Ordinary Hazard Group 2 Classified Areas. These areas include, but are not limited to, repair bays, vehicle maintenance bays, maintenance shops, circulation bays, mechanical rooms, and electrical rooms.

13.2.1.3 Ordinary Hazard Group 1 Classified Areas. These areas include, but are not limited to, kitchens, armorer's rooms, and arms vaults.

13.2.1.4 Light Hazard Group Classified Areas. All areas not classified as ordinary hazard or extra hazard areas including combustible attic space.

13.2.1.5 Storage Rooms/Areas: All storage areas will be assumed to contain Class IV commodities unless a greater hazard is indicated. Storage up to 10 feet is considered Ordinary Hazard Group 2 in caged areas with back to back shelf storage without racks. Provide placards in cage storage area stating "Storage Limited to 10 feet and no Storage Above Cages, Per Fire Marshall". Storage areas greater than 10 feet in height shall be protected in accordance with UFC 3-600-01 Special Occupancies and Hazards.

*** SAFETY PAYS ***

Panama City, Army Reserve Center
Panama City, Florida

Certified Final RFP
Solicitation No. W912QR-11-R-0051
Amendment No. 1

13.2.2 Preliminary flow test data is provided in Attachment B of this Statement of Work. This data shall be used by the Offeror to bid the fire suppression system including possible storage tank or fire pump.

13.2.3 The Contractor shall perform a water flow test in accordance with NFPA 291 at nearby hydrants to determine static and residual pressure and water flow. A fire protection engineer or an engineer experienced in water flow testing shall perform or witness the required flow testing.

13.2.4 If the contractors test data is different than the preliminary flow data provided in Attachment B, consult the Contracting Officer for determination of which test data to use for design.

The existing water supply is a 12" dead-end water main along the east side of Highway 77. UFC 3-600-01, paragraph 3-5 requires water storage tanks be provided to improve the reliability of the water supply. Tanks shall be sized to serve the maximum fire demand (~~Amdt. #0001~~) **DELETE * plus 24 hours of domestic water demand, *** (~~Amdt. #0001~~) divided equally between two tanks. The fire pump will take suction supply from the two water tanks and supply the sprinkler systems in each facility as required.

13.2.5 Provide double check valve backflow preventer as required by the Local Authority Having Jurisdiction. Provide a separate post indicator valve (PIV) and fire department connection (FDC) for each building. The PIV and FDC shall be located a minimum of 40 feet from each building. A fire hydrant will be located within 150 feet of the FDC.

13.3 FIRE PROTECTION EQUIPMENT.

13.3.1 Recessed or concealed heads will be used in areas with ceilings. Upright or pendant heads will be used in exposed areas with no ceilings. Provide dry heads in areas subject to freezing.

13.3.2 Arms vault sprinkler heads shall be provided with head guards regardless of configuration (upright or pendant).

13.3.3 Sprinkler heads in IT rooms shall have guards over them, sprinkler piping in IT rooms shall have drainage troughs. Limit piping through these rooms to only that required for the room. Consider the use of side wall sprinklers, and location of IT equipment and wiring trays etc.

13.3.4 A fire pump shall be provided in accordance with UFC 3-600-01. Provide an electric driven fire pump and controller in accordance with NFPA 20.

13.4 FIRE ALARM AND MASS NOTIFICATION SYSTEM.

13.4.1 Provide a combined Fire Alarm and Mass Notification Control Panel (FMCP), Fire Alarm Remote Annunciator (FAA), Local Operating Console (LOC), alarm initiating devices, alarm notification appliances, signaling devices, wiring, and testing in accordance with UFC 3-600-01, UFC 4-021-01, UFC 4-171-05, NFPA 72 and NFPA 101. Combined fire alarm/MNS system shall be capable of making emergency messages in buildings with fire alarm/MNS systems, besides alerting staff in both buildings of a fire event in the other. MNS must also be provided such that MNS is heard in the MEP area. Locate FMCP next to the building fire riser.

13.4.2 Provide a complete UL listed addressable fire alarm and mass notification system with full control, supervisory, alarm, signal, display, and battery backup features in compliance with NFPA 72, UFC 3-600-01 and UFC 4-021-01.

13.4.3 Provide a Fire Alarm Remote Annunciator (FAA) Panel that indicates alarm conditions by device and with alarm silence control. Locate in the main entrance lobby, unless directed otherwise by the Bay County Fire Rescue Department.

13.4.4 Provide Mass Notification System LOCs in accordance with UFC 4-021-01.

13.4.5 Provide addressable alarm initiating devices in compliance with NFPA 72 including:

13.4.5.1 Provide double action manual pull stations located at main exit, kitchen exit, exits adjoining assembly occupancies, and boiler room exit. Break-glass type pull stations are prohibited, including the break-glass rod types.

13.4.5.2 Provide photoelectric smoke detectors for fire-rated door hold-opens, fire shutter control, complete coverage of the TER.

13.4.5.3 Provide photoelectric duct smoke detectors in all HVAC main supply ducts and in return ducts when system is greater than 15000 cfm. Provide duct smoke detectors to control fire/smoke dampers. An alternative to duct smoke detection is area smoke detection of associated smoke compartments. This may be included in the design when more economical than multiple duct smoke detectors.

13.4.6 **Notification Appliances.** Provide audible and visual notification appliances in compliance with UFC 3-600-01, UFC 4-021-01 and NFPA 72 including:

13.4.6.1 Provide a weatherproof fire alarm bell or horn located on the outside of the building at the fire protection water service "Siamese" connection in accordance with NFPA 13.

13.4.6.2 Provide audible/visual notification appliances (speakers) throughout each building in accordance with the UFC 4-021-01. Provide audible notification appliances (speakers) on the exterior of buildings in accordance with UFC 4-021-01.

13.4.6.3 Provide visual notification appliances throughout each building in accordance with UFC 4-021-01. Provide clear strobes marked "FIRE" for fire alarm notification and amber strobes marked "ALERT" for mass notification.

13.4.6.4 Remote signaling devices shall include a telephone auto dialer with two dedicated telephone lines to communicate with a central station monitoring service. The Government is responsible for contracting for central station monitoring service. Coordinate with the Government's selected vendor and assist the Government with establishing service.

13.4.7 **Signal and Control.**

13.4.7.1 Provide all initiation, notification, signal, and control wiring in a minimum 3/4" factory painted red conduit.

13.4.7.2 Connect alarm initiating devices to Signal Line Circuits (SLC), Style 5 or 6, in accordance with NFPA 72.

13.4.7.3 Connect alarm notification appliances to notification appliance circuits (NAC), Style Z, in accordance with NFPA 72.

13.4.7.4 Provide signals to elevator controller for elevator recall, shutdown and supervision, in accordance with NFPA 72 and ASME A17.1.

13.4.8 Provide power to the FMCP from a locking circuit breaker that is painted or integrally colored red and is clearly marked "FIRE ALARM CONTROL PANEL."

13.4.9 Provide magnetic door holders at selected locations (fire-separation doors).

13.4.10 **System Testing.**

13.4.10.1 Provide acceptance testing. Provide preliminary testing as required to complete system and submit the Certificate of Completion, in accordance with NFPA 72. Provide final testing to complete and submit the Inspection and Testing Form, in accordance with NFPA 72.

13.4.11 **Emergency Power**

13.4.11.1 Provide battery backup for the fire alarm and mass notification system. If the fire. If the facility has an emergency generator providing standby power to the system, 4 hours backup is required. If no emergency generator exists, 72 hours is required. Provide 15 minutes of alarm operation.

SECTION 01 03 00.00 48

DESIGN SUBMISSION REQUIREMENTS AFTER AWARD

09/09

1.1 INTRODUCTION

This section contains information needed after the successful Offeror has been selected. The information contained in this section applies to the design required for the Army Reserve Center at Panama City, Florida.

DESIGNERS OF RECORD

1.2.1 The Design/Build Contractor shall identify, for Government Acceptance, the Designer of Record for each area of work. One Designer of Record may be responsible for no more than two disciplines. All Designers of Record shall be registered Professional Engineers or Architects as required by Section 00 80 00.00 06, Clause "Registration of Designers".

1.2.2 In addition to these requirements, the design firm shall have a Design Project Manager (PM), see Section 01 45 04.10 06 for Design PM qualifications.

1.2.3 Provide the services of a Registered Communications Distribution Designer (RCDD) to design the telecommunications system in compliance with the Army Reserve IT Manual.

1.2.4 (Amdt. #0001) * Due to the complexity of this project, a Registered Roofing Consultant (RRC) shall be engaged by the Design-Build Contractor in preparation of this design. UFC 4-171-05, Design Guide for Army Reserve Facilities, Appendix K, provides the primary guidance and the first choice for roofing designs on Army Reserve projects. Additional guidance is located in UFC 3-110-03, Roofing. Designers should utilize UFC 3-110-03 for items not addressed in the Army Reserve Design Guide. * (Amdt. #0001)

1.2.5 Fire protection system Designer of Record is required to be a Registered Fire Protection Engineer. Designer of Record shall perform preliminary calculations and provide the requirements for the fire protection system on the contract drawings/specifications. The fire protection system shop drawings and hydraulic calculations shall be done by a NICET Level III or IV certified fire protection specialist or a Registered Fire Protection Engineer. Sufficient hydraulic calculation sets which will fully define the entire system sizing shall be provided.

1.2.6 The Furniture, Finishes and Equipment (FF&E) design shall be developed by the Interior Designer, who shall be a registered NCIDQ certified designer and have a minimum of two years experience in space planning, and contract furniture & panel systems specifications.

1.2.7 The D/B Contractor is required to have a LEED Accredited Professional (LEED AP) for both design and construction involved with the project and responsible for ensuring correct interpretation of LEED credit requirements, tracking overall LEED accomplishments, providing

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documentation, and monitoring construction aspects of each LEED credit.

1.2.8 The Designers of Record shall stamp, sign, and date each design drawing under their responsible discipline for Certified Final design documentation stage. Designers of Record shall be a Prime Contractor employee, be contracted directly by the Prime Contractor, or be an employee of a design firm that is contracted directly by the Prime Contractor. The Designer of Record shall not be an owner, employee, agent, or consultant of a construction sub-contractor hired for this project.

1.2.9 Designers of Record are required to make critical site visits during construction. The Architect and Civil Designer shall make at least 3 site visits; the Structural, Mechanical, Electrical Designers shall make at least 2 site visits; and the Fire Protection and Communication Designers shall make at least 1 site visit.

1.3 CONTRACTOR DESIGN REQUIREMENTS AFTER AWARD

1.3.1 The Contractor must submit for Government Acceptance, a Design Quality Control Plan as required in Section 01 45 04.10 06, before design may proceed. The Design Quality Control Plan must indicate the designer's integral role throughout design and construction. Resumes of each designer of record shall be included to demonstrate compliance with the RFP requirements. A list of designers, checkers, and independent reviewers must be included to demonstrate professional registration and three separate individuals working per discipline.

1.3.2 The Contractor must shall conduct Independent Technical Reviews, in accordance with requirements in Section 01 45 04.10 06.

1.3.3 After Award, the contractor shall provide the energy conservation strategies considered through the energy and life cycle cost analyses, and the guidelines of ASHRAE Standard 90.1. (See Section 01 02 00.00 48, Part 12.)

1.3.4 The Contractor shall design and detail a complete and usable facility before construction begins. **Fast track design and construction will be permitted on this project.** Fast-tracking includes site work, ordering long-lead materials, and mobilization. Fast-tracking is further discussed in Section 00 80 00.00 06, clause Sequence of Design/Construction (Fast Track). The Contractor shall design and construct the facility in Imperial (English) units.

1.3.5 The design shall consist of six submittals, as described in the **Army Reserve Design Process and Submittal Requirements Manual Part A – Design Process and Submittal Requirements located at <http://www.lrl.usace.army.mil/ed2/article.asp?id=169&MyCategory=212>** and **Army Reserve Design Process and Submittal Requirements Manual Part C – Design Build – Design Submittal Requirements After Award located at <http://www.lrl.usace.army.mil/ed2/article.asp?id=243&MyCategory=212>** . These submittals are:

1. the Charrette Design,
2. the Revised Charrette Design,
3. the Interim Design,

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4. the Final Design,
5. the Corrected Final Design,
6. and the Certified Final Design.

1.3.6 The Certified Final Design shall be submitted only when ALL review comments have been addressed, incorporated into the design, and the final design has been accepted, and is ready for construction. It shall include signatures on each sheet and professional stamps from each Designer of Record.

1.3.7 The design submittals shall include specifications, drawings, design analysis, CID (FF&E, SID), permit applications, confirmation notices and submittal registers. The government will assist the contractor in finalizing the final draft DD1354, however, it is the Contractor's responsibility to provide. The complete requirements for each submittal are described in the **Army Reserve Design Process and Submittal Requirements Manual- PART C -- Design Build -- Design Submittal Requirements After Award**. This is referred to below as "DPSR Manual Part C".

1.3.8 The design shall be completed in accordance with the applicable criteria itemized in this RFP.

1.3.9 A sample design schedule is provided in Section 01 04 00.00 48.

1.4 SUBMISSION OF DESIGN DOCUMENTS

1.4.1 The Contractor shall submit design documents with cover letter by overnight mail in accordance with the requirements of this section. The letter shall indicate the project name, and due date for comments provided in Dr. Checks. All drawings shall be half-size, unless otherwise noted. Specifications, submittal register, design analysis and other technical information shall be bound. The CID (FF&E, SID) shall be submitted in separate binders as indicated in the CID (FF&E, SID) Submittal Requirements attached to this specification.

1.4.2 **The Pre-Work Conference, Partnering Meetings, the Charrette, and each Design Review Meeting shall be held at a hotel conference in the project vicinity to accommodate 40 people. The contractor shall be responsible for making the arrangements and any payment for the conference room.** Design review meetings will be held to discuss review comments on the Charrette, Interim, and Final submittals. The Design Project Manager is responsible for preparing and distributing meeting minutes for all meetings and conference calls during design. The meeting minutes will be distributed to the entire project delivery team within 10 days of a meeting and within 5 days of a conference call.

1.4.3 The Designers of Record are also required to hold individual meetings with the Users on their respective areas of responsibility. The Architect and Interior Designer shall hold a furniture meeting with the Users on site after the Charrette. They shall discuss each room and the furniture requirements involved. The discussions from this meeting shall be reflected in the FF&E and SID submittals. Meeting minutes will be provided to the entire project delivery team. The Communication/Electrical Designer is required to hold a separate meeting with the Users and personnel from the Army Reserve IT office. They shall discuss the IT requirements of the

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project. The discussions from this meeting shall be reflected in the Interim Design Submittal. Meeting minutes will be provided to the entire project delivery team. Any design issues which arise that are not addressed in the RFP shall be identified to the USACE Project Manager and the Project Engineer/Architect. A response will be furnished by USACE, and if necessary, a change order will be issued.

1.4.4 Design Reviews shall not be taken as an approval and do not relieve the Contractor's responsibility for compliance with the RFP solicitation, codes, regulations, or other applicable criteria. Design reviews are considered Quality Assurance reviews, and may be performed by the A-E team which developed the RFP Solicitation package.

1.4.5 Once the Government has reviewed and accepted the contractor's final design, Contractor shall make no further changes to the accepted design without the written approval of the Contracting Officer's Representative. All costs for submitted variances, after Final Design Acceptance, shall be borne by the Contractor at no cost to the Government. For all requested design changes, complete submittals to all parties listed will be required for an additional review, in accordance with the procedures for original submittals stated above.

1.5 GENERAL DESIGN REQUIREMENTS

1.5.1 The Contractor is required to independently prepare and submit for Government Acceptance a complete Design. The Contractor's Design Professionals shall independently confirm and be responsible for the technical accuracy and adequacy of all aspects of the project design.

1.5.2 The project design process shall include the submittals listed in paragraph 1.3.

1.5.3 Document quantities and delivery addresses are specified at the end of this Section. Quantities and addresses apply for each submittal.

1.5.4 CADD and BIM Requirements

1.5.4.1 Prepare drawings and as-builts using MicroStation, latest version.

1.5.4.2 The drawings shall comply with the AEC CAD Standards. The Design Quality Control Plan shall assure all files appear identical and are error-free. Maintain the use of referencing, and do not create a single file with all of the graphics for one sheet in one file.

1.5.4.3 Use of the Army Reserve BIM data set is required. It is available for Contractor's use in developing the proposal or project design documents located at ftp://ftp.usace.army.mil/pub/lrl/BIM/LRL_Dataset/>
The Army Reserve requires design documents and as-built documents that incorporate TriForma BIM technology.

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1.5.4.4 Prepare documents using Building Information Management (BIM) technology as described in the Appendices of the "Army Reserve Design Process and Submittal Requirements Manual". UHS buildings are not required to be modeled in BIM.

1.5.4.5 Provide a set of Native CADD files. This set will typically use reference files for floor plans, borders, etc. Unless specifically approved, all projects must provide for all files to be placed in one directory. All unnecessary reference files shall be detached, and all files attached for 'designer information' shall be labeled as such in the description field. Where a particularly complex project makes managing all CADD files in a single directory unmanageable, the designer may request permission for use of a more complex directory structure. The designer shall propose the structure, and identify how each individual directory will be used. Where this may result in mapping reference files across directories, the design shall indicate the method for controlling this mapping to prevent loss of files because of remote attachments. It is mandatory that when such a setup is used that mapped directory paths not be used for attachments. Variables shall be used so that project configurations can be created or system variables created for future users to properly view the files. A description of each variable and mapping shall be provided with electronic file submittals.

1.5.4.6 Provide in addition a set of drawing files in PDF format that may be viewed without using CADD software. PDFs shall display for viewing in landscape format. PDF format drawings files shall include a reference or Table of Contents file, which indexes all drawings so each drawing may be accessed from the one file. The reference file shall have bookmarks to each drawings sheet. Drawings shall be to full scale, and arranged to print to a correct scale, or on 11 by 17 paper.

1.5.4.7 Index: Provide a list of all drawings in the set of project drawings together with the name of the electronic file that contains the data for each drawing.

1.5.4.8 Submitted hard copy drawings must be plotted directly from the electronic PDF file.

1.5.5 Specifications and Reports. Provide project specifications in 3-Part CSI format. The complete specification including title sheet, table of contents, and all specification sections; must be assembled into a single electronic document in PDF format. Provide reports in Microsoft Word (version 2000 or later).

1.5.5.1 Provide independent page numbering for each specification section. The page number shall incorporate the specification section number (e.g. 08 11 13.00 06-1).

1.5.5.2 Submitted hard copy documents must be printed directly from the electronic file.

1.5.5.3 Provide submittal checklist and other report documents also in PDF format.

1.5.5.4 Division 00 and Division 01 specifications shall not be edited or reproduced and shall not be included with the technical specifications. Divisions 00 and 01 are contract requirements; therefore, can only be changed by contract modification

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1.5.6 Electronic Data

1.5.6.1 Electronic data of all design documents must be provided at each submittal stage. Data shall be on CD ROM.

1.5.6.2 Interior signage is to be provided in Microsoft Excel spreadsheet.

1.5.6.3 Furnishings' data is to be submitted in the Government required USAR Comprehensive Interior Design Furniture Access Program.

1.5.7 Submittal Register: The contractor will be required to prepare a Submittal Register Engineering Form 4288 identifying all construction submittals. Each submittal item shall be identified and coded in accordance with Section 01 33 00. A completed Engineering Form 4288, accepted by the Contracting Officer, will be required prior to commencement of construction. The designers are required to provide a Submittal Register that is compatible with Construction Division's QCS system.

1.5.8 LEED Project Requirements:

1.5.8.1 LEED Project Registration. All projects are required to be registered with the Green Building Certification Institute (GBCI) and the Government has obtained the registration. After contract award, the LEED registration will be transferred to the Contractor. The Contractor's Designer of Record (DOR) shall utilize the online LEED Letter Templates and develop the LEED Project Checklist for project documentation. The DOR shall maintain the Project Administrator Role throughout project design and construction.

1.5.8.2 LEED Accredited Professional. A LEED Accredited Professional shall be required on the project team, and will ensure project design is in compliance with USGBC LEED requirements for the project, and be involved in the project throughout design and construction.

1.5.8.3 The DOR is responsible for editing and including LEED Documentation required by Section 01 33 29.00 06 in the design submittals. This will include a completed LEED Project Checklist.

1.5.8.4 Project designs (including multiple building projects and renovations) shall meet USACE Army LEED Implementation Guide paragraphs 1-4, 6, and 8. USACE Army LEED Implementation Guide
https://eko.usace.army.mil/kd/go.cfm?destination=ShowItem&Item_ID=47308.

1.5.8.5 Meetings: The following meetings will be held to ensure LEED Compliance:

The Preconstruction Meeting (possibly discussed at the Partnering meeting instead)
The Implementation Plan Meeting

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The Precloseout (Redzone) Meeting
The LEED Validation Meeting

1.5.8.6 At the Precon (or Partnering) Meeting, the DOR and LEED AP will provide a presentation to the Corps, Contractor, and Users about the requirements of the LEED Documentation Specification, and review the LEED Project Checklist the contractor is required to follow.

1.5.8.7 At the Implementation Plan Meeting, the Corps, Contractor and LEED AP shall meet to discuss the content of the Plan, to ensure compliance with the LEED requirements. The DOR shall participate by conference call.

1.5.8.8 At the Precloseout (Redzone) Meeting, all LEED credits and the LEED rating shall be discussed, and establish a plan to meet the final remaining credits. The DOR (PM and Architect) and AE LEED AP shall attend.

1.5.8.9 At the LEED Validation Meeting, the Corps, Contractor, and LEED AP shall meet to discuss any remaining LEED credits. An independent LEED Team provided by the government will determine the final LEED rating.

1.5.9 LEED/Energy Requirements: LEED NC (New Construction) Version 2.2: The LEED Minimum Energy performance prerequisite is met when the minimum requirements of ASHRAE 90.1 are met. Therefore, meeting the Energy Policy Act 2005 requirements automatically causes the LEED prerequisite to be met. The analysis used to meet the requirements for the Energy Policy Act 2005 may be used to satisfy the requirements for LEED Optimize Energy Performance credit. For compliance with the Energy Policy Act 2005, the percent energy reduction shall be calculated by subtracting the process and plug loads from the total energy usages for both the baseline and proposed buildings. The formula shall be as follows: $(\text{Baseline energy usage} - \text{Proposed energy usage}) / (\text{Baseline energy usage} - (\text{process} + \text{plug loads}))$. For determining LEED Optimize Energy Performance credit points, the percent energy reduction shall be calculated by applying the appropriate energy costs to the total energy usage for both the baseline and proposed buildings. The formula shall be as follows: $(\text{Baseline energy cost} - \text{Proposed energy cost}) / (\text{Baseline energy cost})$.

1.5.9.1 Summary Analysis: Provide a summary of the Energy Conservation analysis. The summary shall include the completed LEED Letter Template for LEED Optimize Energy Performance credit.

1.6 ADDITIONAL DESIGN AND INVESTIGATION REQUIREMENTS

1.6.1 Geotechnical Requirements and Responsibilities

1.6.1.1 The Contractor's team shall include a licensed professional geotechnical engineer to interpret the subsurface conditions and develop earthwork and foundation requirements and design parameters on which to base the Contractor's proposal. Subsequent to award, the Contractor is required to perform and provide a complete geotechnical exploration of the proposed site to develop the final design.

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1.6.1.2 The geotechnical exploration shall be performed under the direction of a licensed professional engineer with at least 10 years experience specializing in geotechnical engineering. This exploration shall be the full responsibility of the Contractor and detailed requirements are outlined below. It is possible that site specific subsurface conditions encountered by the Contractor will differ from those appended herein. Therefore, it is the responsibility of the Contractor to conduct a meeting with the COR subsequent to completion and evaluation of his site specific geotechnical exploration to enumerate any differences encountered that are not consistent with the information provided herein. Should those differences require changes in the foundation type, pavement and earthwork requirements proposed with the bid that result in more cost, those changes shall be clearly outlined for the meeting.

1.6.1.3 Geotechnical Report – General - The Contractor’s geotechnical report shall summarize the subsurface conditions and provide requirements for the design of appropriate foundations, floor slabs, retaining walls, embankments, and pavements. The report shall recommend the type of foundation system to be used, lateral load resistance capacities for foundation systems, allowable bearing elevations for footings, grade beams, slabs, etc. An assessment of post-construction settlement potential including total and differential shall be provided. Recommendations regarding lateral earth pressures (active, at-rest, passive) to be used in the design of retaining walls shall be provided. The report shall include the recommended spectral accelerations and Site Class for seismic design along with an evaluation of any seismic hazards and requirements for mitigation, if necessary. Calculations shall be included to support the recommendations for bearing capacity, settlement, and pavement sections. Supporting documentation shall be included for all design parameters such as Site Class, shear strength, earth pressure coefficients, friction factors, subgrade modulus, California Bearing Ratio (CBR), and pH tests, salinity tests, resistivity measurements, etc., required to design corrosion control and grounding systems. In addition, the report shall provide earthwork requirements, expected frost penetration, expected groundwater levels, requirements for dewatering and groundwater control, possible presence of any surface or subsurface features that may affect the construction of the project such as sinkholes, boulders, shallow rock, old fill, old structures, soft areas, or unusual soil conditions. Information shall be offered on the types of base course materials available in the area and design strengths. Also, the Contractor's geotechnical engineer shall recommend designs to account for site specific soil conditions including, but not limited to: expansive soils, shrinking soils, sinkholes, variable groundwater, seismic activity, and chemically or radiologically active soils.

1.6.1.3.1 The final geotechnical evaluation report shall be prepared by the Contractor’s licensed geotechnical engineer and submitted along with the first foundation design submittal. Requirements for the report are noted in Part 3 of Section 01 02 00.00 48. If fast track design is used, the geotechnical report shall be submitted as part of the first fast track submittal.

1.6.1.3.2 Certification: The Contractor and its professional geotechnical engineer consultant shall certify in writing that the design of the project has been developed consistent with the Contractor’s final geotechnical report. The

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certification shall be stamped by the consulting professional geotechnical engineer and shall be submitted with the first design submission. If revisions are made to the initial design submission, a new certification shall be provided with the final design submission.

1.6.1.4 Geotechnical Report – Field Program - As a minimum requirement, Contractor borings shall be sampled with a splitspoon sampler in accordance with ASTM D-1586, with samples visually classified at 1.5 foot intervals in accordance with the Unified Soil Classification System (ASTM D 2487). The Contractor's geotechnical engineer shall implement alternative sampling and exploration methods as needed to develop the soil properties and design parameters required herein based on the soil and soil formations encountered. The depth to water shall be recorded. Standard Penetration Blow counts shall be recorded. A dated drilling log shall be provided for each boring drilled. Soils information obtained from field logs, laboratory tests and geologist's logs shall be presented on the contract drawings in the form of boring plan, final boring logs and explanatory notes. See the preliminary geotechnical report in Attachment A to Section 01 02 00.00 48 for examples of format and content of boring logs.

1.6.1.5 Geotechnical Report – Pavement Section - The Contractor's geotechnical report shall contain flexible and rigid pavement designs including design CBR and modulus of subgrade reaction, and the required compaction effort for subgrades. Information shall be offered on the types of base course materials available in the area and design strengths. Pavement designs over cohesive soil subgrades and soils with 15% or more passing the #200 sieve) require underdrain systems. Underdrains shall be provided according to analytical design analyses and applicable construction methods to collect and remove infiltration from beneath the pavement. Pavements shall be designed based on the anticipated loading frequency and vehicle types in Part 3 of Section 00 02 00.00 48. Regardless of the pavement design, a minimum flexible pavement section shall consist of 3.5 inches of asphalt (1.5 inches of surface course and 2 inches of base course) over 8 inches of aggregate base. The minimum rigid pavement section shall be 6 inches of PCC over 8 inches of aggregate base. The minimum base thickness can be neglected if the subgrade has a CBR greater than 30.

1.6.1.6 The Contractor's geotechnical engineer shall determine whether slopes greater than 5% are required adjacent to building based on site shrink/swell soil characteristics.

1.6.1.7 If temporary construction dewatering is required due to a high water table, the Contractor shall prepare and present a dewatering plan. The Contractor is responsible for securing all necessary information for the design of the dewatering system.

1.6.2 Roof Design Requirements

1.6.2.1 Roof eaves shall be designed to resist wind uplift determined by ASCE 7 and snow loads; provide calculations. A C-shaped bent steel plate of minimum ¼" thickness shall be installed at the eave for attachment of gutters, eave cleats, and soffit construction.

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1.6.2.2 If wood is used in a roof assembly (not allowed for metal roofs), it shall be treated, and any fasteners for or into the wood shall be stainless steel.

1.6.2.3 Metal roofs shall be designed in accordance with ASCE 7. Clip spacing and wind zone dimensions shall be determined by ASCE 7 and roof system ASTM E 1592 data, provide calculations. Lightning protection shall utilize mechanical fasteners; obtain roof manufacturer and installer verification that method of attachment will not void roof warranty. No wood is allowed in metal roof assemblies; all attachment shall be made to steel structure.

1.6.3 Lighting design - Provide emergency/egress lighting calcs which indicate minimum, average, and uniformity values for all applicable areas, to assure compliance with NFPA 101.

1.6.4 Exterior Wall Design

1.6.4.1 Exterior brick veneer walls shall have corrugated weeps installed directly above base flashing and at the top exterior course to allow thermal venting. Exterior cavity walls shall have through-wall flashing installed at all rake to high wall intersections.

1.6.4.2 Provide vapor transmission and dew point analysis to show adequate control of water vapor. Exterior walls shall have a dew point analysis stamped by a professional engineer or registered roof consultant. Vapor barrier location shall be included in the analysis if a vapor barrier is provided. Perm rating of air barrier, based on location in wall, shall be reported.

1.6.5 Energy Conservation Submittals - These paragraphs are intended to amplify the requirements in the Army Reserve Design Process and Submittal Requirements Manual.

1.6.5.1 For each facility under contract, two buildings must be modeled using building simulation software: (a) a baseline building that would meet the minimum requirements of ASHRAE Standard 90.1-2007 Appendix G and (b) a proposed building utilizing the materials and methods proposed and required by this construction contract.

1.6.5.2 The following building simulation software is acceptable for use in calculating building energy consumption: Hourly Analysis Program (HAP) by Carrier Corp., TRACE 700 by Trane Corp., DOE-2 by US Department of Energy, EnergyPlus by DOD/DOE.

1.6.5.3 The calculation methodology used for this documentation and analysis shall follow the guidelines set forth in Appendix G of ASHRAE 90.1-2007, with two exceptions:

(a) the definition of the terms in the formula for Percentage Improvement found in paragraph G1.2 are modified as follows: Baseline Building Performance shall mean the annual energy consumption calculated for a building design intended for use as a baseline meeting the minimum requirements of the energy standard, and Proposed Building Performance shall mean annual energy consumption calculated for the proposed building

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design intended for construction.

(b) the formula in paragraph G.1.2 is modified as follows:

Percentage Improvement = $100 \times (\text{Baseline Building Performance} - \text{Proposed Building Performance}) / (\text{Baseline Building Performance} - \text{Receptacle and Process Loads})$

1.6.5.4 This calculation shall address all energy consuming systems in a single integrated methodology. Individual calculations for heating, cooling, power, lighting, power, etc. systems will not be acceptable. Laboratory fume hoods and kitchen ventilation loads are to be included in the energy calculation and are not considered process loads; rather, these loads are part of the ASHRAE-covered HVAC loads and are subject to the 30% reduction in energy consumption requirement.

1.6.5.5 At the Interim and Final Design, submittals which address energy consuming systems, (heating, cooling, service hot water, lighting, power, etc.) must include calculations which demonstrate and document compliance with the Energy Policy Act of 2005 and follow on rulings. As a minimum, to show compliance the following must be submitted:

1.6.5.5.1 A summary of the analysis shall be provided including a table indicating the energy-related features included in the design on which the performance rating is based. This table shall document all energy features that differ between the models used in the baseline building performance and proposed building performance calculations.

1.6.5.5.2 The output summary of the annual energy consumption for the baseline building performance and proposed building performance models for each facility under contract shall be presented to demonstrate compliance with these energy conservation requirements. Output summary shall breakdown the energy usage by at least the following components: lights, internal equipment loads, service water heating equipment, space heating equipment, space cooling equipment and heat rejection equipment, fans and other HVAC equipment such as pumps, and receptacle and process loads. The output reports shall also show the amount of time any loads are not met by the HVAC system for both the proposed and baseline building models.

1.6.6 OMS/AMSA/TEMF Fire Protection Criteria: The Contractor is required to meet NFPA 70, Article 511 requirements. This will require physical separation between work areas and office areas for containment of fumes, or negative mechanical pressurization. This impacts location of electrical devices (receptacles, switches, etc.) in the work areas.

1.7 SUBMITTAL REQUIREMENTS

1.7.1 Design Phase: All design submission requirements are defined in the **Army Reserve Design Process and Submittal Requirements Manual, PART C -- Design Build -- Design Submittal Requirements After Award**. This is referred to below as "DPSR Manual Part C". Each discipline is provided the requirements for the Charrette, Interim, Final, Corrected Final

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Design, and Certified Final Design Submittals. All aspects will be followed. Design the project in MicroStation matching the version of the project CD provided by the government. If no CD is provided, use the latest version of MicroStation.

1.7.2 The Pre-Work (Pre-Design) Meeting is an opportunity for the Government Project Engineer/Architect and the D/B Work design team to review the project requirements. A review of Sections 01 02 00.00 48, 01 03 00.00 48, and 01 04 00.00 48 would assure the designers understand the requirements and expectations of the design process. This is also an opportunity for the contractor, Corps construction personnel, and the Project Manager to meet and go over project requirements. The design schedule should be discussed and the first few meeting dates need to be established.

1.7.3 The **Charrette Design** is defined in **DPSR Manual Part C**. The deliverables for this phase are also described in the Manual, and also include a Design Analysis. The Charrette is an opportunity to improve the design proposal documents at no increased cost. There are areas in the building that could be rotated/shifted/move walls, which would greatly improve the functionality of the facility. The designer should provide attention to detail regarding the building entrance, lobby, restrooms, and command suite(s).

- Capture the outcome of the Charrette Meeting in a Charrette Report consisting of minutes, revised drawings, and updated narrative and submit for the record in the time frame called for in the schedule.
- A conference call will be scheduled approximately five days after the Charrette Report to discuss the Report. A direction to proceed with subsequent design based on the agreed charrette report will be provided after the conference call.
- Provide a **Revised Charrette** Document to all parties-
- The decisions from the Revised Charrette Conference Call will be incorporated into the Interim Design Submittal.

The **Army Reserve Design Process and Submittal Requirements Manual Part C** is on the Louisville District web site at

<http://www.lrl.usace.army.mil/ed2/article.asp?id=243&MyCategory=212>

The Army Reserve Customers page is also on the Louisville District website.

<http://www.lrl.usace.army.mil/ed2/default.asp?mycategory=212>

1.7.4 The **Interim Design** Phases is defined in the **DPSR Manual Part C**. **The deliverables for this phase are also described in the Manual.** This submittal shall incorporate the review comments from the charrette design phase. **Interim Design** Phase will include:

- Interim ("50%") Design for architecture, structural, interior design, civil, mechanical and electrical systems.

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- For projects employing fast-track provide (100%) design for building site design to include: building/area site layout, final grade elevations, site electrical, mechanical and civil utilities, permits,
- Design Analyses
- Provide a list of required permits for the project; including requirements and process for obtaining each permit, associated costs, and status of permit acquisition.

1.7.5 Final Design Phase

1.7.5.1 The **Final Design** Phases is defined in the **DPSR Manual Part C**. **The deliverables for this phase are also described in the Manual.** This submittal shall designate what equipment manufacturers the contractor plans to use for all pieces of equipment. This submittal shall incorporate the review comments from the Interim Design phase.

1.7.5.2 The **Final Design** Phase will include:

- Corrected Final (100%) Design for building site design to include: building/area site layout, final grade elevations, utility locations, revised complex entrance, parking, and associated roadways.
- Final (100%) Design for all remaining architecture, structural, interior design, civil, mechanical and electrical systems.
- Provide a list of required permits for the project; including requirements and process for obtaining each permit, associated costs, and status of permit acquisition.

1.7.6 The Corrected Final Design Phase is defined in the **DPSR Manual Part C**, **The deliverables for this phase are also described in the Manual.** This submittal shall incorporate the review comments from the Final Design phase.

1.7.6.1 For the "Civil/Site Work" Corrected Final: The designer is responsible to respond to all comments and incorporate all appropriate comments (as determined by the LRL Project Engineer), generated as a result of the final review meeting. As part of the **Backcheck**, the designer shall mark three sets in red, with the reviewer's name and comment number, indicating the corrections have been made as a result of the review comment. The Louisville District Office, the RFP preparer/reviewer, and the Construction Resident Office will perform a backcheck of comments on these red-lined sets. Once all comments are satisfactorily resolved, the Certified Final Design may be distributed.

1.7.6.2 The Corrected Final design phase will include:

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- Corrected Final (100%) Design for all remaining architecture, structural, interior design, civil, mechanical, and electrical systems.

1.7.6.3 The Corrected Final Design Phase is defined in the **DPSR Manual Part C**. **The deliverables for this phase are also described in the Manual.** This shall be considered a formal submittal to reviewers. This submittal shall incorporate the review comments in the submittal and become the final product for construction.

1.7.7 Certified Final - For the "Building" Certified Final: The designer is responsible to respond to all comments and incorporate all appropriate comments (as determined by the LRL Project Engineer), generated as a result of the final review meeting. As part of the **Backcheck**, the designer shall mark three sets in red, with the reviewer's name and comment number, indicating the corrections have been made as a result of the review comment. The Louisville District Office, the RFP preparer, and the Construction Resident Office will perform a backcheck of comments on these red-lined sets. Once all comments are satisfactorily resolved, the Certified Final Design may be distributed. If the project has been reviewed by an A-E firm (normally the A-E firm which developed the RFP), then the designer shall provide a copy of each reviewer's backcheck corrected final drawings and specifications, demonstrating the comments have been incorporated. This can be accomplished in hard copy or on CD with PDF files of the changes.

1.7.8 Comprehensive Interior Design (CID) Submittals – CID is defined in the **DPSR Manual Part C**, **The deliverables are also described in the Manual.**

1.7.8.1 See Attachment A following this specification section for specific furniture product specifications.

1.7.8.2 **Note: The furniture will be GFGI (government furnished-government installed). The contractor will be responsible for all power, data, and voice hookups.**

1.7.8.3 The furniture layouts provided in the RFP are notional layouts. A complete FF&E and SID are required as part of the design. It is required for the Interior Designer and the Architect to hold a separate meeting with the Users to determine actual furniture requirements. It is recommended that the selected Contractor's Interior Designer contact Barbara Pfister (502-315-6899) of the Louisville Corps of Engineers, after contract award but prior to beginning development of the FF&E, to coordinate FF&E submission requirements. Past performance illustrates such coordination will minimize Contractor effort required to develop the FF&E.

1.7.8.4 The Interior Designer will be required to make minor changes to the FF&E around six months before furniture procurement, so Barbara Pfister has accurate and current information. Any problems with the furniture layouts (placement in front of windows, panel sizes, etc.) will be corrected at this time before the furniture order is placed. The interior designer will provide 4 sets of any corrections.

1.8 DESIGN REVIEW

1.8.1 Government review comments will be input into a web based system called DR CHECKS. The Contractor will be given access to this system and will be required to respond to all comments in the program. Comment responses shall be entered before each review meeting, so the Project Team can discuss open issues and non-concur comments – not each individual comment. The Contractor shall print and distribute review sets as shown on the attached list and be prepared to discuss the comments and preliminary responses at the review meeting for each part of the design. The Contractor will keep the minutes of the meetings and forward the minutes and annotated comments to all reviewers within 14 days of the meeting. The annotations will be detailed enough to indicate exactly what the Contractor will do to comply with the comments. The contractor shall assemble the comments received into a complete package. The complete package of comments and responses shall be transmitted to all offices that received the design submitted.

1.8.1.1 The Government's review is not to be considered a quality control review; the contractor shall provide his own internal quality control as required by contractor Design Quality Controls Plan before the design is submitted to the Government. It is very important the Contractor's entire team agrees with the design before it is submitted to the Government. The Government's review or acceptance does not relieve the contractor of his responsibility to provide a safe, functional project in accordance with the terms of the contract. All final drawings shall be signed and sealed by the Design Professional. Quality control procedures shall consist of design and/or checking by registered professionals and a review completed by a separate professional. Complete names of designers, checkers, and reviewers shall appear in the drawing title block. The Contractor shall submit the Design Quality Checklist from the Louisville District AE Design Guide with their Final Design Phase submissions.

1.8.1.2 The Government's review will likely result in a significant number of comments. The Contractor shall respond to each comment with a response that clearly indicates what action will be taken in Dr. Checks. Comments that, in the Contractor's opinion, require effort outside the scope of the contract will be clearly indicated as such by the Contractor. The Contractor shall not proceed with work outside the contract until a modification to the contract is properly executed.

1.9 CONSTRUCTION PHASE

1.9.1 The construction phase will begin with a Letter of Design Completion, and release for construction will be issued upon completion and acceptance of the corrected final design submittal. This will provide authorization begin onsite construction efforts.

1.9.2 The first item of work during the construction phase, the Contractor shall furnish to the Government 15 half-size sets and 5 full size sets of the certified final drawings, 15 sets of the accepted specifications, and 20 CDs for its use during construction. The PE/A will finalize this list and provide the actual list of personnel to receive this material when it is time to be reproduced. The Construction CD's will include 5 file folders – one folder containing native MicroStation drawing files, one folder containing native specification section files, one folder containing PDF drawing files, one folder containing one large PDF file of the specifications, and one folder containing one large PDF file of the Design Analysis.

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1.9.3 No construction will be allowed on work for which the design has not been reviewed and accepted.

1.9.4 The Contractor shall provide artistic renderings of the project, as specified in the attachment, no later than 90 days after design completion.

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**EXAMPLE OF
LIST OF ADDRESSES FOR REVIEWS**

ORGANIZATION	ABBREVIATION	COPIES		
		(1)	FF&E	SID
Army Corps of Engr, Louisville ATTN: Ram Vuddagiri, Project Engineer, ED-MR 600 Dr. M. L. King Jr. Place Louisville, KY 40202	CELRL-ED-MR	6	1 – 2 at cert final	1 - 2 at cert final
ARIMD ATTN: Tamitha Downey, Project Officer DEPARTMENT OF THE ARMY DAIM-ODR (TB3E22) 2532 CRYSTAL DRIVE ARLINGTON, VA 22042	ARIMD	1 CD only	0	0
Rick McBride 15488 Waters Creek Dr Centreville, VA 20120 (address provided by Project Engineer After award)	ARIMD	1 CD only	0	0
Steve Crosby, 81 st RSC DPW 1525 Marion Ave Columbia, SC 29207	81st RSC	4	1	1
US Army Corps of Engineers Resident Office	Unit(s)	4	1	1
CH2M HILL Attn: Yvette Ratzlaff 1000 Abernathy Road Suite 1600 Atlanta, GA 30328	A/E Firm	8	1	1
NAME: POSITION: Environmental Specialist ORGANIZATION: IMCOM-AR (Address to be provided by Project/Engineer after award)	IMCOM-AR	1 CD only	0	0

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ORGANIZATION	ABBREVIATION	COPIES		
		(1)	FF&E	SID
NAME: Gerry West ORGANIZATION: U.S. Army Reserve Command ATTN: Gerry West, G2/G6 Office 1401 Deshler Street SW Fort McPherson, GA 30330-2000	G6	1	0	0
NAME: George Gaffney ORGANIZATION: U.S. Army Information Systems Engineering Command Fort Detrick Engineering Directorate ATTN: AMSEL-IE-DE-IN-CO (GAFFNEY) 1435 Porter Street, Suite 200 Fort Detrick, MD 21702-5047	ISEC	1	0	0

1. All addressees shall receive the following documents:

Charrette Design Submittal, Revised Charrette Documents (drawings only), Interim Design Submittal, and Final Design Submittal. All document sets shall be printed plans, specifications, and design analyses; and electronic files of the complete submittal also provided on CD in the quantity identified. Each document set shall include

- (a) A CD with all design files. (Specs in one PDF file, DA in one PDF file, and drawings in a third file in full-size PDF format). The beginning of each section of the DA shall be bookmarked. The start of each spec section shall be bookmarked. Each drawing sheet shall be bookmarked.
- (b) Printed half size plans.

2. The original certified final will be submitted to Louisville District, with signatures and stamps, as required. Copies as indicated in Part 3 paragraph "SUBMITTAL REQUIREMENTS" , subparagraph "Construction Phase" above will be distributed to the government design team and field office, by overnight mail.

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<p>Project:</p> <p align="center">For Design/Build Projects Final Design and Certified Final Design Checklist</p>	
<p>1. <u>GENERAL:</u></p>	
a. Have all documents been prepared in accordance with the Design QC Plan?	
b. Have drawings and specifications been coordinated between engineering disciplines?	
c. Have drawings and specifications been checked; and have drawings been initialed by reviewer and designer?	
d. Have drawings and specifications been reviewed by a qualified engineer to assure fire protection engineering is in conformance with applicable portions of NFPA regulations and national, state, and local building codes?	
e. Are drawings, design analyses, etc., signed and dated?	
f. Are Government review comments on the charrette and interim design submittals annotated and incorporated into final drawings and specifications?	
g. Are annotated review comments included in each design analysis package	
h. ITR certification sheets signed and included?	
i. Have the energy conservation strategies considered through the energy and life cycle cost analyses been provided in the design analysis (spec 010300.0048, par. 3.1.3)? (Applies to building design only)	
<p>2. <u>DRAWINGS:</u></p>	
a. Has CADD quality been checked to assure legible reproduction?	
b. Does location plan include location of borrow pits, disposal areas, areas for contractor's office and storage, haul routes, location of Resident/Area Engineer and DEH office?	
c. Have signature blocks been properly prepared?	
d. Has Quality Control Procedures been performed to assure that translated files are fully useable, complete and represent the design	
<p>3. <u>SPECIFICATIONS:</u></p>	
a. Were latest guide specifications used?	
b. Are specifications prepared in accordance with the RFP?	
c. Name of person supervising specifications preparation: _____	

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4. <u>MISCELLANEOUS</u> :	
a. Have construction permits been applied for as required by the Clean Air Act and Clean Water Act Amendments?	
b. Has the Certified Final submittal been made in accordance with every requirement of the RFP? (If not, explain deviations on a separate sheet attached to this form.)	
c. Has the CID/SID been completed? Were full size drawings and the required native CADD files provided with the binders? (Applies to building design only)	
<hr/> SIGNATURE AND DATE	

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RENDERING FORM

PROJECT TITLE Panama City, Florida Army Reserve Center

Each rendering will be matted, mounted, labeled, and framed with non-glare glass ready for hanging and to be shipped/delivered. Artistic renderings are preferred, however, high quality computerized renderings may be accepted. A/E shall provide a sample rendering of past projects to determine if the computerized rendering will be acceptable. A pdf file of a concept rendering(s) will be emailed to the PE/A and ARIMD Project Officer for approval prior to proceeding to a final rendering.

1. QUANTITY/DISTRIBUTION

<u>Original</u>	<u>Full Size Color Framed Copy</u>
<u>1</u> Project Location	<u>1</u> RRC Headquarters (Ft Dix, Ft Jackson, Ft McCoy, or Moreno Valley)
	<u>1</u> CELRL-ED-MR (for PM-RST)

2. PARTICULARS:

a. Size, approximated. (Check one of the following)

<u> </u> 36" x 36"	<input checked="" type="checkbox"/> 30" x 24"	<u> </u> 24" x 24"
<u> </u> 36" x 30"	<u> </u> 30" x 20"	<u> </u> 24" x 18"
<u> </u> 36" x 24"		

b. Orientation:

<u> </u> Front	<u> </u> Left
<input checked="" type="checkbox"/> Aerial	<u> </u> Right

c. Labeling/Title:

(1) USAR Center Dedication Name or DD Form 1391 Project Title

(2) Location (City/ State)

(3) Description (i.e. 600 Member USARC/OMS)

(4) Label/Title Location: **bottom center**

(5) Frame Material: wood aluminum plastic

black metal (with non-glare glass)

(6) Matte light gray taupe white off white

color selected by renderer to match colors

(7) Other Reprographics (indicate quantity)

8 color photograph (8 x 10), framed

3 CD's containing the digital photograph in pdf.

Note: Include flagpole, if provided in project. Include military personnel and two to three pieces of military equipment from the project equipment list.

Small renderings and CD's shall be submitted to CELRL-ED-MR, unless noted otherwise.

ATTACHMENT A

COMPREHENSIVE INTERIOR DESIGN (CID) FURNITURE, FIXTURES & EQUIPMENT (FF&E)

14 NOVEMBER 2008

FURNITURE PRODUCT SPECIFICATIONS

All furniture is Government Furnished, Government Installed (GFGI) for the Army Reserve projects. At the beginning of the project, the main furniture manufacturer is determined to establish quality, color and product information to coordinate with all disciplines concerning furniture layout and power/data hook-ups. The project panel system workstations, and private and shared office metal desking units are designed according to FPI/UNICOR or Knoll, Incorporated with specific product specifications listed below. Refer to PART 6 Architectural and Interior Design, 6.6 Furniture and Equipment for specific manufacturer to be specified for this project. Louisville District performs the furniture market research for all furniture procured through the Louisville District at the time of the furniture procurement.

1. FPI/UNICOR Designated Furniture Project

The following guidance is being provided for projects being designed for procurement from FPI/UNICOR. It is not necessary that the Designer of record specify a complete Bill of Material for the UNICOR Classic XXI Systems or the Bravo metal desking units. The Designer is responsible for the fit of furniture, life safety, selection of all finishes and fabrics, panel and componentry sizes, power/data locations, and panel location dimensions. No COM fabric is to be specified.

- a. UNICOR Classic XXI 8-Wire Systems furniture will be specified for all Unit Common office areas. Specifying only circuits 1, 2 and 3.
 - All systems furniture workstations are to be panel hung in lieu of wall hung.
 - Extended Raceway Acoustical Panels (ERP) are to be specified for all applications.
 - Lateral and vertical files, bookcases, and storage cabinets are to be specified from the UNICOR Opus catalog.
 - Unit Common area part-time workstation typical panel heights are to be 36" high except along the spine where the tackboard is placed the panel height should be 52" high. All full-time workstation typical panel heights are to be 66" high.
 - Three duplex outlets per part-time workstation and four duplex outlets per full-time workstation.

- b. UNICOR Bravo metal desking furniture will be used for private and shared offices, including matching Opus bookcases, lateral files and storage cabinets. Specify the "D" top for all "U" shaped Bravo metal desking units with keyboard,

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center drawer, overheads, shelf dividers, and electronic ballast tasklight. Specify full modesty panels for all "L" shaped Bravo metal desking units when the desk unit is not placed against the wall. Privacy screens/tackboards are to be specified to fill the space between the desk top and the overhead only. Lateral and vertical files, bookcases, wardrobes and storage cabinets are to be specified from the UNICOR Opus catalog.

- c. Specify the 18" deep bookcase when placed next to any lateral files in private and shared offices, and in the open offices areas with panel systems if bookcases are required, 15" deep bookcases may be specified when used in stand alone areas.
- d. UNICOR Legacy I task chairs, mid and high backs, and the Chorale sled base with flared arms side chairs will be the standard office seating products. The UNICOR Minuet series is to be specified for sofas and lounge seating. No COM fabrics are to be specified. Task chair upholstery selections shall have a minimum Wyzenbeck rating of 100,000 double rubs.

2. KNOLL Designated Furniture Project

The following guidance is being provided for projects being designed for procurement from Knoll. It is not necessary that the Designer of record specify a complete Bill of Material for the Knoll Morrison Panel Systems or the Morrison Network metal desking units. The Designer is responsible for the fit of furniture, life safety, selection of all finishes and fabrics, panel and componentry sizes, power/data locations, and panel location dimensions. No COM fabric is to be specified.

- a. Knoll Morrison 3+3 ten-wire Systems furniture will be specified for all Unit Commons office areas. Specifying only circuits A, B and C.
 - All systems furniture workstations are to be panel hung in lieu of wall hung.
 - Lateral and vertical files, bookcases, and storage cabinets are to be specified from the Calibre catalog.
 - Unit Common area workstation typical panel heights are to be 30" high except along the spine where the tackboard is placed the panel height should be 48" high. All full-time workstation typical panel heights are to be 64" high.
 - Three duplex outlets per part-time workstation and four duplex outlets per full-time workstation.
- b. Knoll Morrison Network metal desking furniture will be used for private and shared offices, including matching Calibre bookcases, lateral files and storage cabinets. Specify the "D" top for all "U" shaped Network metal desking units with keyboard, center drawer, overheads, shelf dividers, and electronic ballast tasklight. Specify full modesty panels for all "L" shaped Network metal desking units when the desk unit is not placed against the wall. Privacy screens/tackboards are to be specified to fill the space between the desk top and

the Reuter overhead only. Calibre lateral files, bookcases, storage cabinets and wardrobe units should be specified with metallic paint finish.

- c. Specify the 18" deep bookcase when placed next to any lateral files in private and shared offices, and in the open offices areas with panel systems if bookcases are required. Calibre 15" deep bookcases may be specified when used in stand alone areas.
- d. UNICOR Legacy I task chairs, mid and high backs, and the Chorale sled base with flared arms side chairs will be the standard office seating products. The UNICOR Minuet series is to be specified for sofas and lounge seating. No COM fabrics are to be specified.

3. General Electrical/Communication Installation for Panel Systems Furniture Workstations

Panel system furniture workstations in common office areas shall have all power and communications outlets located in the base of the acoustic panels. All electrical and communications utilities are to be fed from either flush floor boxes, poke through boxes or wall boxes with the exception of renovation projects that may be fed from overhead (power poles). The communications cables shall be fed in conduit and boxes separate from electrical power.

a. Electrical Requirements

- A minimum of one twenty amp circuit is to be provided for every two panel system furniture workstations.
- A maximum of three twenty amp circuits are to be provided for each panel system furniture electrical infeed.
- A multi-pole breaker shall be utilized to protect all circuits supplying power to each individual infeed. This will insure that all circuits are de-energized when servicing the electrical system components within the panel system furniture workstations.
- A 5-wire electrical system using a three pole/20 amp circuit breaker, 3-#12 AWG wires (L1-L2-L3), 1-#10 AWG neutral wire and 1-12 AWG ground wire shall be specified for the typical six workstation cluster. Single pole and two pole circuit breakers are to be specified for two workstation and four workstation clusters respectively. Wire sizes are minimum requirements, but may be increased as necessary to compensate for voltage drop.
- Power is to be fed from a dedicated electric panel supplied by a clean power "K" rated transformer of adequate size for the anticipated harmonic load.
- The designer is to specify three duplex receptacles for each part-time workstation and four duplex receptacles for each full-time workstation. Receptacles shall not be located behind drawer pedestals.

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- Base feeds are to be used to power all panel system furniture workstations in new construction. Top feeds (power poles) may be used on renovation projects for workstations that cannot be fed from junction boxes located in walls or columns.
- The general contractor is to cut the Government furnished electrical base feed whip to the appropriate length and connect to the building's power per the furniture manufacturer's wiring schematic. (Knoll Morrison circuits A, B and C. UNICOR/FPI Classic XXI and Kimball Cetra circuits 1, 2 and 3.) The general contractor is to provide liquid-tight flexible metal conduit fittings, electrical connectors and cover plate necessary to complete the connection to the power source.
- All panel system furniture electrical components installed as part of the Government Furnished Government Installed (GFGI) furniture package include; power infeeds and rails, connectors, jumpers, receptacles and raceway covers.

b. Communications Requirements

- The general contractor shall provide, terminate and test all telephone and data cables within the raceways provided at the base of the panel system furniture acoustic panels.
- The general contractor shall provide a minimum of one 1-1/4" conduit from the floor or wall box to an accessible ceiling space adjacent to the communications cable tray for each group of up to six workstations.
- The general contractor is to provide 1-1/4" liquid-tight flexible metal conduit and fittings necessary to connect each floor box or wall box to the acoustic panel raceway
- One RJ-45 telephone jack and one RJ-45 data jack are to be provided for each panel system furniture workstation.
- The general contractor shall provide and install all conduit, fittings, cables, faceplates and jacks necessary to complete the communications system installation within the panel system furniture workstations. Upon completion of the communications system installation, all cable, connections and jacks are to be tested and, if necessary, repaired to assure satisfactory service to the customer.
- The Government Furnished Government Installed (GFGI) furniture package will only provide communication raceways at the base of each acoustic panel for routing communications cables and raceway covers to accept communication jacks and faceplates furnished by the general contractor.

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Connection Photos

4. Miscellaneous Furniture Products

Manufacturers referenced below are intended to establish quality, color and finish only, and are not intended to limit selections from other manufacturers.

- a. Display cases – Peter Pepper Products
- b. Lecterns – Peter Pepper Products
- c. Audiovisual carts and cabinets - Bretford Manufacturing
- d. Computer and printer stands – Bretford Manufacturing
- e. Various magazine and pamphlet racks - Peter Pepper Products
- f. Mobile folding cafeteria tables – KI Uniframe Tables
- g. Training/Conference tables – KI Furniture Barron Lightweight Folding Tables
- h. Workbenches - Lyon Workspace Products
- i. Drawing tables and plan files - Mayline Company
- j. Wood Traditional Commander's Furniture – Kimball President Series, Muirfield Desk Chair, Collage Guest Chair, Stature Conference Room Chair
- k. Trash Receptacles - Rubbermaid
- l. Plastic Stack Chair - American Seating Acton Stacker Plastic Shell with arms in Break Rooms and Assembly, if chairs are required. American Seating Acton Stacker Upholstered Plastic Shell with arms in Classrooms and Training Rooms. Classroom and Training Room chair upholstery selections shall have a minimum Wyzenbeck rating of 100,000 double rubs.

*** SAFETY PAYS ***

Panama City, Army Reserve Center
Panama City, Florida

Certified Final RFP
Solicitation No. W912QR-11-R-0051
Amendment No. 1

- m. Treadmill, Elliptical Crosstrainer, Stair Climber, Recumbent Cycle – Precor USA, Inc
- n. Multi-Station Gym, Benches, Racks w/Dumbbells, Power Cage – Cybex International, Inc
- o. Gym Floor Mats – FlagHouse, Inc

If any additional information or assistance is required regarding the specification of the furniture for the Army Reserve program, please contact Barbara Pfister @ 502-315-6899 or Bob Harris @ 502-315-6850.