ADDENDUM NO. 1

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

INSTALL SOLAR ARRAY AND
FMS BATTERY STORAGE
Camp Crowder Training Site
Neosho, Missouri
PROJECT NO.: T1922-01

Bid Opening Date: 1:30 PM, Thursday, June 4, 2020 (Not Changed)

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

Revised Bid Form is attached. Bidders must use the form marked REVISED PER ADDENDUM NO. 1 to bid this project.

SPECIFICATION CHANGES:
1. REVISE Section 004113 – BID FORM
   a. Section 004113 – BID FORM has been revised to include Alternate #1.

   Use attached revised Bid Form to bid this project.

2. ADD attached Section 012300 – ALTERNATES

DRAWING CHANGES:
1. Sheet E-001 – ELECTRICAL SOLAR ARRAY BUILDING LIST LEGEND AND NOTES
   a. See attached Revised Sheet E-001. Alternate #1 to be included with the bid has been added as indicated in the revision cloud on the Revised Sheet E-001.

GENERAL COMMENTS:
1. The Pre-Bid Meeting will be held on-site May 20, 2020 followed by a walk-through of the facility.
2. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
3. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
4. Current Planholders list available online at:
5. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 1C, Columbia MO 65201, 573-446-7768 to order official plans and specifications.

ATTACHMENTS:

1. Section 004113 – REVISED BID FORM
2. Section 012300 – ALTERNATES
3. Sheet E-001 – ELECTRICAL SOLAR ARRAY BUILDING LIST LEGEND AND NOTES

May 19, 2020

END ADDENDUM NO. 1
NOTE: ALL PAGES OF THIS BID FORM (004113) MUST BE COMPLETED AND SUBMITTED OR THE BID MAY BE REJECTED FOR BEING NON-RESPONSIVE.

STATE OF MISSOURI

SECTION 004113 - BID FORM

REVISED PER ADDENDUM #1

1.0 BID:

A. From: ___________________________________________
   (Bidder’s Name)
   herein after called the "Bidder".

B. To: Director, Division of Facilities Management, Design and Construction
   Room 730, Harry S Truman State Office Building
   301 West High Street
   Jefferson City, Missouri 65102
   herein after called the "Owner."

C. For: Install Solar Array and FMS Battery Storage
   Camp Crowder Training Site
   Neosho, MO

D. Project Number: T1922-01
   hereinafter called the "Work."

E. Documents: The undersigned, having examined and being familiar with the local conditions affecting the work and with the complete set of contract documents, including the Drawings, the Invitation For Bid, Instructions To Bidders, Statement of Bidders Qualifications, General Conditions, Supplement to General Conditions, and the technical specifications, including: addenda number ______ through ______ hereby proposes to perform the Work for the following:

F. Bid Amount: ___________________________________________________________________
   ________________________ Dollars ($____________________________)

G. Allowances: See Section 012100 for details.

H. Alternates:

   Alternate No 1: As an alternate, an aggregate ground covering shall be provided within the fenced in area of each Solar Array. Refer to Alternate # 1 on revised Sheet E-001 and Section 012300 – Alternates.
   ________________________ Dollars ($____________________________)

2.0 MBE/WBE/SDVE PERCENTAGE OF PARTICIPATION PROJECT GOALS:

A. This project’s specific goals are: MBE 10.00%   WBE 10.00%, and SDVE 3.00%. NOTE: Only MBE/WBE firms certified by a State of Missouri public entity, and SDVE(s) meeting the requirements of Section 34.074, RSMo, and 1 CSR 30-5.010, as of the date of bid opening, can be used to satisfy the MBE/WBE/SDVE participation goals for this project.
3.0 BID BOND
   A. Accompanying the bid is: ___ 5% Bid Bond or ___ Cashier's Check/Bank Draft for 5% of base bid that is payable without condition to the Division of Facilities Management, Design and Construction, State of Missouri, as per Article 5 of "Instructions To Bidders".

4.0 CONTRACT COMPLETION TIME AND LIQUIDATED DAMAGES
   A. The Bidder agrees to complete the work within 160 working days from the date the Notice of Intent to Award is issued as modified by additional days added by the Owner’s acceptance of alternates, if applicable. This includes ten (10) working days for document mailing and processing. The Bidder further agrees to pay to, or allow the State as liquidated damages the sum of $1,000 for each working day thereafter that the entire work is not substantially complete.

5.0 ATTACHMENTS TO BID:

   004336  Proposed Subcontractors
   004337  MBE/WBE/SDVE Compliance Form
   004338  MBE/WBE/SDVE Joint Venture Form
   004339  MBE/WBE/SDVE Waiver Form
   004340  SDVE Business Form
   004541  Affidavit of Work Authorization

6.0 BIDDER'S CERTIFICATIONS:
   A. The Bidder agrees to pay not less than the hourly rate of wages as determined by the Department of Labor and Industrial Relations, State of Missouri, in accordance with Sections 290.210 to 290.340, RSMo.
   B. The Bidder hereby certifies that this bid is genuine and is not made in the interest of or on behalf of any undisclosed person, firm, or corporation, and is not submitted in conformity with any agreement or rules of any group, association or corporation;
      That he/she has not directly or indirectly induced or solicited any other bidder to put in a false or sham proposal;
      That he/she has not solicited or induced any person, firm or corporation to refrain from submitting a bid;
      That he/she has not sought by collusion or otherwise to obtain for him/herself any advantage over any other bidder or over the Owner.
      That he/she will not discriminate against any employee or applicant for employment because of race, creed, color or national origin in the performance of the work.
      That he/she certifies that he/she has based this proposal upon an official /complete set of contract documents, either obtained from the Owner after Bidder placed himself/herself on the bidders’ list or from a secondary source known to the Bidder to have provided a complete and accurate set of contract documents, provided that if Bidder received the contract documents from such a secondary source, any errors or omissions in the contract documents shall be interpreted and construed in favor of the Owner and against the Bidder. This proposal is also based upon the conditions within Article 1.2 of the General Conditions.
      That he/she certifies that he/she will comply with the provisions of Sections 285.230-234, RSMo, regarding transient employers.
      That he/she has enrolled and is and will continue to participate in a federal work authorization program in accordance with Sections 285.525 and 285.530, RSMo for the duration of this contract.
7.0 CONTACT INFORMATION (mandatory for all bidders):

☐ Sole Proprietorship/General Partnership ☐ LLC ☐ Limited Partnership ☐ Corporation ☐ Joint Venture

Business Name: ____________________________________________________________

Address: _________________________________________________________________

Telephone: ______________________ Fax Number: ________________________

Federal ID Number: ___________________ or Social Security Number: __________

Missouri Business Charter Number:___________ (or provide the proper certificate from the Secretary of State)

Contact Name: ________________________________ Contact email: ________________________________

8.0 SIGNATURES:

FOR SOLE PROPRIETORSHIPS/GENERAL PARTNERSHIPS ONLY:

_________________________ Name each general partner: ______________________________

Sole Proprietor’s Name (printed)

_________________________

_________________________

Today’s Date: _______________

I, ______________________, being the sole proprietor/general partner of (name of business)

_________________________ (and if the name of said business is other than my legal name, having filed a

Registration of Fictitious Name with the Missouri Secretary of State in order to allow me to use such name in

connection with my business, as provided by Section 417.200, RSMo, et seq.), do hereby submit this bid and agree to be

bound unto the State of Missouri as herein provided (if a general partnership, all partners must sign below).

Signature: _______________________________ Signature: _______________________________

Signature: _______________________________ Signature: _______________________________

FOR LIMITED LIABILITY COMPANIES ONLY:

________________________________________ today’s date _______ State(s) of organization: __________

Manager’s (or Managing Member’s) Name (printed)

I, _____________________________, being the Manager (or Managing Member) of (full legal name of limited

liability company from Articles of Organization) ________________________________, and being duly

authorized to act as herein provided on behalf of said limited liability company, do hereby submit this bid on behalf of

said limited liability company and agree that said limited liability company shall be bound unto the State of Missouri as

herein provided.

Signature: ___________________________
FOR LIMITED PARTNERSHIPS/LIMITED LIABILITY PARTNERSHIPS/LIMITED LIABILITY LIMITED PARTNERSHIPS ONLY:

_____________________________ today’s date: __________ State(s) of organization: ______________________
General/Managing Partner’s Name (printed)

I, ____________________________, being the General Partner/Managing Partner of (full legal name of limited partnership/limited liability partnership/limited liability limited partnership from partnership agreement or Certificate of Limited Partnership) ______________________________, and being duly authorized to act as herein provided on behalf of said limited partnership/limited liability partnership/limited liability limited partnership, do hereby submit this bid on behalf of said limited partnership/limited liability partnership/limited liability limited partnership and agree that said limited partnership/limited liability partnership/limited liability limited partnership shall be bound unto the State of Missouri as herein provided.

Signature: ____________________________

FOR CORPORATIONS ONLY:

____________________________ ____________________________ _________________________
President’s Name (printed) Secretary’s Name (printed) Today’s date
State(s) of incorporation: __________________________________________________________

I, ____________________________, being the (officer or title) ________________________ of (full legal name of corporation, from Articles of Incorporation) ________________________________________, and being duly authorized by the Board of Directors of said corporation to act as herein provided on behalf of said corporation, do hereby submit this bid on behalf of said corporation and agree that said corporation shall be bound unto the State of Missouri as herein provided.

Signature: ____________________________ Attested by: ____________________________
President Corporate Secretary

The President should sign as the bidder. If the signator is other than the corporate president, the bidder must provide satisfactory evidence that the signator has the legal authority to bind the corporation.

FOR ASSOCIATIONS/JOINT VENTURES: If multiple business entities/individuals are bidding collectively as an association or joint venture, each business entity/individual bidding as part of the association or joint venture shall sign this bid in the above sections relevant to the form that such business entity or individual does business, and the bidder shall duplicate the necessary number of signature pages so that all members of the association or joint venture shall sign this bid. If a name is adopted for use by the association or joint venture, the association or joint venture shall file a Registration of Fictitious Name with the Missouri Secretary of State in order to use such name in connection with the association or joint venture, as provided by Section 417.200, RSMo, et seq.
SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, Bid Form and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes administrative and procedural requirements governing Alternates.

1.3 DEFINITIONS

A. Definition: An alternate is an amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to the Base Bid amount if the Owner decides to accept a corresponding change in either the amount of construction to be completed, or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. The cost for each alternate is the net addition to the Contract Sum to incorporate the Alternate into the Work. No other adjustments are made to the Contract Sum.

B. No additional time will be allowed for alternate work unless the number of work days is so stated on the bid form.

1.4 PROCEDURES

A. Coordination: Modify or adjust affected adjacent Work as necessary to completely and fully integrate the Alternate Work into the Project.

1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not mentioned as part of the Alternate.

B. Notification: The award of the Contract will indicate whether alternates have been accepted or rejected.

C. Execute accepted alternates under the same conditions as other Work of this Contract.

D. Schedule: A “Schedule of Alternates” is included at the end of this Section. Specification Sections referenced in the Schedule contain requirements for materials necessary to achieve the Work described under each alternate.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES
Alternate No. 1:

A. As an alternate, a gravel ground covering shall be provided within the enclosed fenced in area of each Solar Array. This alternate scope of work includes all Solar Arrays (18 Locations).

B. Prepared Subgrade. Grade, and backfill as required per Specification 312000 Earthmoving.

C. Fabric Separator Drainage Geotextile: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters; with elongation greater than 50 percent; complying with AASHTO M 288.

D. Aggregate Base. Graded Aggregate for Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D2940/D2940M; with at least 95 percent passing a 1-1/2-inch sieve and not more than 8 percent passing a No. 200 sieve.

E. Top Crushed Graded Aggregate. Gravel Surface. Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D2940/D2940M; with at least 100 percent passing a ¾” sieve, and not more than 15 percent passing a No. 200 (0.075-mm) sieve.

END OF SECTION 012300
GENERAL ELECTRICAL NOTES

1. PHOTOVOLTAIC (PV) SYSTEMS SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690.

2. ALL WORK SHALL BE CONNECTED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTIONS (AHJ), APPLICABLE CODES.

3. THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED BY THE STATE PROJECT MANAGER PRIOR TO SUBMITTAL, INSTALLATION, AND TESTING.

4. LONG-DISTANCE INTERCONNECTION SHALL BE IN ACCORDANCE WITH NEC 450.46(B).

5. FOR SYSTEM COMPONENTS, MODULES, OR MODULAR POWER SYSTEM COMPONENTS, SELECT SOURCE CIRCUIT COMBINED BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4.

6. MODULES SHALL MEET OR EXCEED THE MANUFACTURER'S REQUIREMENTS WITH A MEANS OF BONDING LISTED FOR THIS PURPOSE.

7. PV STRING HOME RUN MUST BE Labeled AT ALL TERMINATIONS. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, ACCESSORIES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATION AS INDICATED ON THE DRAWINGS.

8. SUPPORT CONDUCTORS IN UVERTICAL CONDUCT IN ACCORDANCE WITH THE REQUIREMENTS OF NEC 690.100.

SYMBOLS LEGEND

X-A SYSTEM NOTES

1. SOLAR ARRAY CONSISTS OF PV MODULES, CONNECTED IN SERIES

2. ARRAYS HAVE BEEN PLACED TO MINIMIZE IMPACT TO ADJACENT STRUCTURES AND/OR OBSTRUCTIONS

3. INVERTERS SHALL BE TRANSFORMERLESS STRING INVERTERS LOCATED PER PLAN.

4. A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH NEC 690.47 AND NEC 250.50 THROUGH NEC 250.166 SHALL BE PROVIDED.

5. MODULES SHALL BE GROUNDED WITH EQUIPMENT GROUNDING CONDUCTORS BONDED TO A LOCATION MEETING MANUFACTURER REQUIREMENTS WITH A MEANS OF BONDING LISTED FOR THIS PURPOSE.

6. ALL CONDUIT BETWEEN THE UTILITY AC DISCONNECT AND THE POINT OF CONNECTION IN THE MDP SHALL HAVE GROUNDED GROUNDING ELECTRODE CONDUCTORS.

7. THE DRAWINGS PROPOSE AN ALTERNATIVE OR SEEKING CLARIFICATION.

8. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD A WRITTEN "RFI" (REQUEST FOR INFORMATION) PROPOSING AN ALTERNATIVE OR SEEKING CLARIFICATION.

9. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, ACCESSORIES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATION AS INDICATED ON THE DRAWINGS.

10. THE DRAWINGS PROPOSE AN ALTERNATIVE OR SEEKING CLARIFICATION.

CONSTRUCTION GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A QUALIFIED ELECTRICIAN AND APPRENTICES WORKING UNDER THE DIRECT SUPERVISION OF THE LICENSED CONTRACTOR.

2. ALL WORK CARRIED OUT SHALL COMPLY WITH THE SPECIFICATIONS, APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL, CODES, ORDINANCES, AND APPLICABLE REGULATIONS.

3. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED AMONG SITE CONDITIONS, MANUFACTURER SPECIFICATIONS, OR ANY OTHER ISSUES JUDICIOUSLY CONSIDERED TO AFFECT THE WORK OR THE SPECIFICATIONS. IN THE EVENT OF DISAGREEMENT ON THESE DRAWINGS OR DISCREPANCIES, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD A WRITTEN REQUEST FOR INFORMATION (RFI) OR ALTERATION TO THE CONTRACTOR'S PLANS.

4. THE CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS.

5. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL INFORMATION PROPOSING AN ALTERNATIVE OR SEEKING CLARIFICATION.

6. THE CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS.

7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE AFFECTED BY THE WORK UNDER THIS CONTRACT. CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.

9. CONTRACTOR SHALL REPAIR ANY DAMAGE ON A CLEAN CONDITION. ALL DEBRIS AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER PER SPECIFICATIONS.

10. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES NOT PART OF THE SCOPE OF WORK AS IDENTIFIED IN THESE PLANS.

11. DUE TO THE NATURE THAT PV MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT, CONTRACTOR SHALL DISABLE THE ARRAY DURING INSTALLATION AND SERVICE BY STOPPING CIRCUIT SHORTING, OPENING CIRCUIT, OR COVERING THE ARRAY WITH A CONTOUR COVERAGE ADEQUATE TO MANUFACTURER'S INSTRUCTIONS.

MONITORING AND CONTROLS

CONTRACTOR SHALL PROVIDE A WIRELESS MONITORING AND CONTROLS NETWORK. THE SOLAR INVERTERS SHALL BE PROVIDED WITH MANUFACTURER'S WIRELESS ACCESSIBILITY CAPABILITY. CONTRACTOR SHALL PROVIDE WIRELESS INTEGRATION AT EACH SOLAR ARRAY. CONTRACTOR SHALL PROVIDE CELLULAR HOTSPOTS THAT WILL UPLOAD AND ALLOW CONTROL FROM A PASSWORD PROTECTED WEB ACCESS SYSTEM. THE NUMBER OF HOT SPOTS WILL BE AS DETERMINED BY THE STATE PROJECT MANAGER. AT A MINIMUM, THREE WILL BE REQUIRED. ONE FOR THE MAIN POWER OR, ONE FOR THE RANGE AREA, ONE FOR BUILDING 201. A CONTROL/MONITORING STATION SHALL BE SET UP AT POST HEADQUARTERS BUILDING 890. THE CONTRACTOR SHALL PROVIDE WIRELESS MONITORING SOFTWARE FOR THE WEB MONITORING COMPUTER AS DESIGNATED BY THE STATE PROJECT MANAGER. SEE SPECIFICATION 263100 FOR ADDITIONAL INFORMATION.

SITE INFORMATION

1. THE DRAWINGS PROVIDE AN ALTERNATIVE OR SEEKING CLARIFICATION.

2. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD A WRITTEN "RFI" (REQUEST FOR INFORMATION) PROPOSING AN ALTERNATIVE OR SEEKING CLARIFICATION.

3. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, ACCESSORIES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATION AS INDICATED ON THE DRAWINGS.

4. THE CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS.

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6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE AFFECTED BY THE WORK UNDER THIS CONTRACT. CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.

8. CONTRACTOR SHALL REPAIR ANY DAMAGE ON A CLEAN CONDITION. ALL DEBRIS AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER PER SPECIFICATIONS.

9. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES NOT PART OF THE SCOPE OF WORK AS IDENTIFIED IN THESE PLANS.

11. DUE TO THE NATURE THAT PV MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT, CONTRACTOR SHALL DISABLE THE ARRAY DURING INSTALLATION AND SERVICE BY STOPPING CIRCUIT SHORTING, OPENING CIRCUIT, OR COVERING THE ARRAY WITH A CONTOUR COVERAGE ADEQUATE TO MANUFACTURER'S INSTRUCTIONS.