

ADDENDUM NO. 1

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

**Solar Array, Interior Lighting and Roof Replacement
Trenton Field Maintenance Shop & Readiness Center
Trenton, Missouri
PROJECT NO.: T2048-01**

Bid Opening Date: 1:30 PM, Thursday, May 20, 2021 (Not Changed)

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

SPECIFICATION CHANGES:

1. Section 07 21 00 – Thermal Insulation

a. ADD Paragraph 3.1-B as follows:

B. Coordinate with owner any momentary disconnection and reattachment required for light fixtures, electrical conduits, HVAC supports, etc. that may be attached to the roof structure. Items that are not possible to temporarily disconnect may be left in place and a field splice of insulation material can be made on the closest purlin, sealed and fastened for permanent attachment.

2. Section 07 41 16 – Standing-Seam Metal Roof Panels

a. REMOVE and REPLACE Paragraphs 2.1-A.1 and 2.1-A.2 with the following:

- i. Ground Snow Load: 20 lb/ft²
- ii. Basic Design Wind Speed: 110 Vmph
- iii. Exposure Category: C
- iv. Risk Category: II

3. Section 26 31 00 – Photovoltaic Collectors

a. ADD Paragraph 2.8-A.4 as follows:

4. Osprey Power Platform System

4. Section 32 15 40 – Crushed Stone Surfacing

a. ADD attached new specification section.

DRAWING CHANGES:

1. Sheet E-001

a. ADD new Note #7 to read as follows:

7. PROVIDE 6" THICK AGGREGATE PAVEMENT IN DEFINED SOLAR ARRAY AREA (APPROX. 5000 SQ FT). REFERENCE SPECIFICATION SECTION 32 15 40 FOR MORE INFORMATION.

b. REVISE Note #6 to read as follows:

6. PV SYSTEM SERVICE FEDERS. BURY A MINIMUM OF 36" BELOW GRADE. PROVIDE WARNING TAPE 12" ABOVE. COORDINATE ROUTING WITH OWNER AND PROVIDE FULL DEPTH GRANULAR (BASE ROCK) BACKFILL AS REQUIRED. SEE THE ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

GENERAL COMMENTS:

1. The Pre-bid Meeting was held May 6, 2021 at 1:00 PM. The sign-in sheet is attached.
2. Please contact Paul Girouard, Contract Specialist, at 573-751-4797 or Paul.Girouard@oa.mo.gov for questions about bidding procedures, MBE\WBE\SDVE Goals, and other submittal requirements.
3. The deadline for technical questions was Wednesday, May 12, 2021 at noon.
4. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
5. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
6. Current Plan holders list available online at <https://www.adsplanroom.net/jobs/881/plan-holders/t2048-01-solar-array-interior-lighting-roof-replacement-trenton-field-maintenance-shop-readines>
7. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 1C, Columbia MO 65201, 573-446-7768 to order official plans and specifications.
8. **All bids shall be submitted on the bid form without additional terms and conditions, modifications, or stipulations. Each space on the bid form shall be properly filled. Failure to do so will result in rejection of the bid.**
9. **MBE/WBE/SDVE participation requirements can be found in DIVISION 00. The MBE/WBE/SDVE participation goals are 10%/10%/3%, respectively. Only certified firms as of the bid opening date can be used to satisfy the MBE/WBE/SDVE participation goals for this project. If a bidder is unable to meet a participation goal, a Good Faith Effort Determination Form must be completed. Failure to complete this process will result in rejection of the bid.**

ATTACHMENTS:

1. Pre-bid Meeting Sign-In Sheet
2. Section 32 15 40 – Crushed Stone Surfacing

May 14, 2021

END OF ADDENDUM NO. 1

Pre-Bid Meeting Attendance Sheet
Solar Array, Interior Lighting and Roof Replacement
Trenton Field Maintenance Shop & Readiness Center
Trenton, MO

Project No. T2048-01
May 6, 2021 at 1:00 PM

Name & Title	Company Name	Phone	E-Mail Address
Eric Hibdon	OA FMDC	573-522-0322	Eric.Hibdon@oa.mo.gov
Ben McKinney	Clark & Eversen	916 474 9327	e.in.mckinney@clarkenersen.com
Amie Swift	Clark & Eversen	816-474-8527	amie.swift@clarkenersen.com
Tom Hartwick	TR+CO.	816-587-6148	Tom.Hartwick@TRCOUSA.COM
Hans Stutz	Delta Innovative Sol	(913) 371-7100	hstutz@deltekservices.com
Karlo Meave	SunSmart Technologies	816-298-7619	Karlo@SunSmartUSA.com
Catherine Todd	"	"	Pathennette@SunSmartUSA.com
Neil Rogers	N.W. Rogers Const. Inc	816-228-5700	NWRogersConst@Earthlink.net
Colton Shuster	TDR Electrical Services	816-284-9136	Colton.Shuster@TDRElectrical.com
Don Timberlake	TDR Electrical Services	816 205 0951	+drelectric@zoho.com
Lisa Austin	Cromwell Solar	785-596-8967	laustina@cromwellenn.com
DAVE BOOTH	CRISTINEAN ELEC	660-247-5377	dbooth1451@gmail.com
Jason McManus	Peyton-Roberts Contracting	816-244-7668	Jason@Roberts-roofing.com
Brian Norgard	Peyton-Roberts Contracting	816-689-8439	Brian@roberts-roofing.com
Seck Can	Missouri Solar Applications	573-434-0024	Seck@postbuilders.com
Ramon Eubank	Post Builders	573-635-0212	ramon@postbuilders.com

Pre-Bid Meeting Attendance Sheet
 Solar Array, Interior Lighting and Roof Replacement
 Trenton Field Maintenance Shop & Readiness Center
 Trenton, MO

Project No. T2048-01
 May 6, 2021 at 1:00 PM

Name & Title	Company Name	Phone	E-Mail Address
Ryan Didier	Brown and Root	816 890 - 0675	ryan.didier@brownandroot.com
Scott Schnell	Energy Link	573.673.8579	scott@goenergylink.com
Scott Weldon	Weldon Builders & Const	640 247 3207	SCOTT C WELDON@B4ILF.COM
Joe Stockmann	Bartels-Missey	314-320-9252	JOE@BARTELSMISSEY.COM
Dan Patti	Easton Roofing	913 302 6505	Dan@EastonRoofingKC.com
Jon Woods	Easton Roofing	913-200-1781	Jon@EastonRoofingKC.com
Craig Beck	OA-FINDX	573-751-7831	Craig.Beck@ca.mo.gov

SECTION 32 15 40 – CRUSHED STONE SURFACING

1. PART 1- GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.
 - 1. See Section 007300 "Supplementary Conditions", if included, for requirements relating to interpretation of the drawings and specifications.

1.2 SUMMARY

- A. Work shall include all labor, materials, and equipment necessary to completely furnish and install the Crushed Stone Surfacing as indicated on the plans and as herein specified.
- B. This Section includes the following:
 - 1. Crushed Rock
 - 2. Gravel

1.3 SUBMITTALS

- A. Sieve Analyses: For aggregate materials, according to ASTM C 136
- B. Samples: N/A
- C. Test reports:
 - 1. Final compaction report.

1.4 QUALITY ASSURANCE

- A. Pre-installation
 - 1. The Contractor shall coordinate, schedule and conduct a meeting to review the installation requirements with the mix supplier and Architect.

1.5 SITE CONDITIONS

- A. Weather and site requirements
 - 1. Aggregate base or sub-base is to be dry or moist.

2. PART 2- PRODUCTS

2.1 MATERIALS

- A. Crushed Rock (Base Course)
 - 1. General:
 - a. Crushed rock shall be either limestone or dolomite and shall consist of clean, hard, tough and durable fragments (excluding schist, shale or slate) of uniform quality throughout and shall be free from thin, soft, or elongated pieces, disintegrate

stone, dirt, organic or other deleterious material occurring free or as a coating on the rock.

2. Gradation:

- a. The crushed rock for surfacing shall be screened after crushing to remove excessive fines and shall be so graded as to meet the following requirements

1)	Sieve Size	Percent Passing
	1-1/2"	94-100
	1/2"	0-10

3. Soundness:

- a. The fraction of crushed rock retained on the 1/2"-inch sieve shall have a loss ratio of not less than 0.75 when subjected to 26 cycles of freezing and thawing in accordance to AASHTO Method T-103.

4. Abrasion:

- a. Crushed rock, when tested for abrasion by AASHTO Method T-96, Grade B, shall have a percentage of wear of not more than 45 percent.

B. Gravel (Surface Course)

1. General:

- a. Gravel for surfacing shall consist of durable particles of stone and sand with less than five percent (5%) of clay and silt

2. Gradation:

- a. The sieve analysis for the gravel material shall be made in accordance with AASHTO Method T-27 and shall be so graded as to meet the following requirements:

1) Sieve Size:	Percent Passing:
1"	100
#4	61-95
#10	0-30
#200	0-4

- 2) The percent passing the No. 200 sieve shall be determined in accordance with AASHTO Method T-11

3. Approved Equal: Crushed Asphalt (1" minus) or Crushed Concrete (1" minus)

C. Water

1. Fresh, clean, and potable.

3. PART 3- EXECUTION

3.1 EXAMINATION

- A. Examine site and verify that conditions are suitable to receive work and that no defects or errors are present which would cause defective installation of product or cause latent defects in workmanship and function.
- B. Review subgrade to verify that it has been graded correctly and compacted as required for installation of the aggregate base.
- C. Before proceeding with work, Contractor shall notify the Architect and Owner in writing of any unsuitable conditions and conflicts.

3.2 PROTECTION OF EXISTING CONDITIONS

- A. Use every possible precaution to prevent damage to existing conditions to remain such as structures, utilities, irrigation systems, plant materials and paving on or adjacent to the site of the work.
- B. Provide barricades, fences or other barriers as necessary to protect existing conditions to remain from damage during construction.
- C. Contractor is fully responsible for all costs associated with replacement of damage caused by his work.

3.3 LAYOUT

- A. Establish lines and levels; locate and lay out by instrumentation and similar appropriate means for aggregate paving finish grades.
- B. Staking: Provide a sufficient quantity of grade stakes as required to provide aggregate paving with smooth finish grades and positive drainage.

3.4 SUB-GRADE PREPARATION:

- A. Refer to Geotechnical report for subgrade preparation prior to placement of aggregate base. Grade subgrade with uniform slope between points where elevations are given.
- B. Grade subgrade surface to within 0.05 foot of finish grade minus paving thickness.
- C. Fill and compact any depressions and remove loose material to finish true to line and grade, presenting a smooth, compacted and unyielding surface.
- D. Remove debris, loose dirt and other extraneous materials.
- E. Ditches, drains and drain pipes shall be installed if necessary to protect of the pavement and base from cross flows of water. All water flow should be directed off of and away from base.

3.5 PLACEMENT AND COMPACTION

A. Parking Lot Surfacing

- 1. In general, the construction shall include combining three inches of crushed rock (base course) in the upper layer of the sub-grade and the application of a three-inch gravel surface course to the crushed rock base, to the widths and cross section as shown on the plans.
- 2. The crushed rock material shall be deposited uniformly upon an approved sub-grade in straight, single or double lines, followed immediately thereafter by scarification of the rock and sub-grade to produce a uniform soil-rock mixture six inches thick. The mixture shall be spread into a uniform layer and compacted using sheepsfoot roller and water as required. The gravel surface course material shall then be delivered and uniformly spread, followed immediately by compaction using an approved roller and water as required, to the satisfaction of the Architect and Owner.

3.6 FIELD QUALITY CONTROL

A. Density tests:

- 1. Perform tests in accordance with ASTM D 2950.
- 2. Perform tests after final compaction.
- 3. Perform at least three tests.

B. PROTECTION

- 1. Protect pavement surface against heavy construction equipment
 - a. Contractor is responsible for replacing damaged pavement, if damage was preventable, at his own expense.

END OF SECTION 32 15 40