ADDENDUM NO. 1

Project: State of Nebraska – Department of Roads
District 6 Oconto Facility Project (AFE K-600)
Superior, NE

Issued: December 15, 2014

Bid Date: December 18, 2014

This Addendum is issued to all known plan holders before receipt of proposals.

The following shall be included with, and considered a part of, the original contract documents to the same extent as if they were included therein, for the construction of the above mentioned project. The Project Manual and Drawings shall be modified or revised as herein described. Where at variance with the original work, this Addendum shall have precedence.

This Addendum modifies the original Bidding Documents. The Bidder must acknowledge receipt of this Addendum in the space provided on the Proposal Form. Failure to do so may subject bidder to disqualification.

ARCHITECTURAL ADDENDA ITEMS:

AD1.1. *Clarification:* Various Specification sections for concrete and soils refer to testing requirements during construction. Please note, all testing during construction shall be the responsibility of the Contractor to engage a qualified testing agency to perform testing and inspections and prepare test reports to be submitted to the Architect.

AD1.2. *Specification Section 004000 Bid Form, Clarification:* The contractor is to submit the proposed number of calendar days assuming that construction may begin as soon as a Notice to Proceed is issued.

AD1.3. *Specification Section 01 10 00 Summary, Correction:* Part 1.05A, Owner Provided Items – there is no salt storage building for the Oconto project, therefore the Salt Storage Creosote Timbers referenced in this section shall be deleted.

AD1.4. *Specification Section 04 20 00, Part 2.2 Anchorage, Wall Ties*: Wall ties for the CIP concrete wall shall be 14 ga. galvanized H&B 315 Flexible Dovetail Brick Ties, with 3/16" tie diameter, set in hot-dip galvanized 18 ga. H&B 305 Dovetail slots set in the cast in place wall. Ties for 8" CMU option shall be H&B 270-ML Ladder with Mighty-Lok Adjustable Eye-Wire, hot-dip galvanized, standard weight.

AD1.5. *Specification Section 07 27 26, Fluid Applied Membrane Air Barrier:* A fluid applied membrane air barrier per the attached specifications shall be installed on the exterior face of all exterior CIP concrete or CMU backup walls prior to the exterior CMU veneer installation.

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AD1.6. *Drawing Sheet A100, Clarification:* The east walls of Rooms 108, 109 and 110 indicate both Wall Types 1 and 3. This wall which separates the bays from the office area is to be a Type 3 wall on top of an 8" CIP concrete wall matching the perimeter wall in height.

AD1.7. *Drawing Sheet A100, Clarification:* The wall types on the second floor plan are Wall Type 2.

AD1.8. *Drawing Sheet A303, Clarification:* All CIP and CMU walls around the perimeter of the building have a Top of Wall elevation of 3'-4" AFF.

AD1.9. *Drawing Sheet A304, Detail 8, Clarifications:* All metal building steel columns shall be set such that the exterior face of column is 2" in from the exterior face of the CIP concrete piers, and therefore also the 8" CIP concrete wall. The dimension from face of concrete to exterior face of masonry is 8".

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AD1.10. *Drawing Sheet A304, Detail 7 –* The angle shown cast into the floor slab at the overhead doors shall be a galvanized, continuous 3"x2"x1/4". The studs welded to the back shall be 4"x1/2" headed studs or hook anchors.

AD1.11. *Drawing Sheet A305, Detail 2* – The 8" Precast wall shown shall can be a 6" high concrete curb on the slab. The curb extends out from the wall to the full width of the stairs and then under the stringer to the stair bottom landing, as a barrier anywhere that there is not 80" of clear headroom beneath the stair.

CIVIL ADDENDA ITEMS:

AD1.12. *Drawing Sheet C104– Correction - Delete Note 1.* Instead, Note 1 on Sheet C104 shall read: Contractor shall provide all bends, tees, elbows, backing blocks and corporation stops as required by local codes to provide a fully functional water supply system whether shown on the drawings or not. All water supply fixtures shall be supplied, installed and located in accordance with the "Ten State Standards" and local codes governing construction. Adjust fixture location as required to meet code requirements. The contractor shall contact the Village of Oconto for items provided by them.

STRUCTURAL ADDENDA ITEMS:

AD1.13. *Specification Section 05 51 00 Metal Stairs–* This section references 'by an approved manufacturer'. The metal stairs can be shop fabricated, they do not need to be prefab by a manufacturer.

AD1.14. *Structural Details:* Studded heads noted to be field shot to the beam may be welded in lieu of shot.

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APPROVED SUBSTITUTIONS:

The following are product substitutions which were received at least seven (7) days prior to receipt of bids and shall be considered approved by the Architect. The manufacturers listed herein will be considered approved for bidding, however the proposed product substitution must meet the intent of the specifications and will be subject to shop submittal approval during construction. Bidders shall include in their bid, any changes required in the Work to accommodate such substitutions.

Section 07 22 00 – Building Insulation Systems –

Guardian ES Energy Saver System
Skyliner Insulation Systems

Section 07 62 00 – Sheet Metal Flashing and Trim, Snow Guards -

2" iClad by Sno Gem
S-5! ColorGard by S-5! Metal Roof Innovations

Section 07 62 00 – Sheet Metal Roofing and Trim, Soffit Panels –

PAC-CLAD Soffit Flush Panels 12"

Section 08 36 00 Sectional Overhead Doors –

Pioneer Door – C.H.I. Overhead Doors
Overhead Door Corporation

Section 13 34 19 – Metal Building Systems –

Metallic Building Company
CECO Building Systems
NuCor Building Systems

Section 23 82 39 - Wall and Ceiling Unit Heaters - Raywall; TPI Corporation

Section 23 31 13 - Metal Ducts - Ducts on Demand

Section 23 34 23 – HVAC Power Ventilators -

Twin City Fans & Blowers
Soler & Palau (Jenco)

Section 23 55 23 – Radiant Heaters -

Re-Verber-Ray

Drawing Sheet M700 – Louver Schedule

Louver Type 1-11 (L-*): Louvers & Dampers Inc.

Drawing Sheet M700 – Hose Reel Exhaust Fan Schedule

Hose Reel Exhaust Fan Type 1 (HRE-1): Engwald
Ventaire
Car-Mon

Drawing Sheet M700: Plumbing Fixture Schedule

Sink Type 2 (S-2): Manufacturer: Elkay
Model: LR2022
Description: Counter mounted; 18-gauge, stainless steel type 304 sink, 3 hole sink, 16"x16"x7-5/8" deep, single compartment sink, self-rimming sink with 3-1/2" drain opening.

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Drawing Sheet M700: Plumbing Fixture Schedule
Alternate Manufacturers: Elkay

Drawing Sheet E600 – Light Fixture Schedule -
(Product details and compliance with contract documents will be reviewed during Submittal process.)

Light Fixture Type	Approved Manufacture
A1	Fail-Safe
B1	Metalux
C1	Metalux, Columbia, Lithonia
D1, D2	Portfolio, Prescolite
F1	Metalux
F2	Metalux, ILP
G1	Metalux
H1	Metalux, Kenall, Lithonia
J1	Portfolio
K1,K2,K3,K4	Metalux, Columbia
L1	Portfolio, Prescolite
M1	Metalux, Columbia
N1	ILP, Lithonia
S1	Cree, Lithonia
X1	Compass
X2	Sure-Lites, Compass
X3	Sure-Lites, Dual-Lite
Y1	Compass, PACO

General Contractor shall acknowledge receipt of this Addendum on the Proposal Form in the space provided.

END OF ADDENDUM NO. 1

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SECTION 07 27 26

FLUID-APPLIED MEMBRANE AIR BARRIER

PART 1 GENERAL

1.1 SUMMARY

A. This Section includes fluid-applied membranes to provide an air barrier component and secondary waterproof barrier/drainage plane over exterior unit masonry wall assemblies.

B. Related Sections include the following:
1. See Division 4 Section “Unit Masonry” (04 20 00) for unit masonry wall assemblies and accessories.

1.2 PERFORMANCE REQUIREMENTS

A. Conform to the published performance requirements of the specified fluid-applied membrane air barrier system.

1.3 SUBMITTALS

A. Submit in accordance with Division 1 Section “Submittal Procedures”.

B. Product Data: Submit manufacturer’s product data sheets on all products to be used for the work. Submit description for protection, surface preparation, application, and clean-up.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: Regularly engages in the manufacturer of masonry treatments for a minimum of 5 years.

B. Installer Qualifications: An experienced installer approved by the manufacturer who has completed installations similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance.

C. Pre-Application Meeting: Convene a pre-application meeting one week before the start of installation of fluid-applied membrane air-barrier. Require attendance of the Contractor, Architect, applicator, and manufacturer’s representative. Review environmental regulations, protection of surrounding areas, preparation, application, field quality control, final cleaning, and coordination with other work.

1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver materials in their original sealed containers bearing manufacturer’s name and identification of product.

B. Protect products from freezing temperatures and temperatures in excess of 100° F. Store away from direct sunlight.

1.6 PROJECT SITE CONDITIONS

A. Maintain ambient and surface temperature above 40° F (4° C) and below 100° F (38° C) during application and drying period, minimum 24 hours after application of air and moisture barrier.

B. Provide supplementary heat for installation in temperatures less than 40° F (4° C) or if surface is likely to fall below 40° F (4° C). (Note: surface temperature is lower than air temperature at night).

1.7 COORDINATION/SCHEDULING

A. Coordinate installation of flashings, windows, doors and other wall penetrations to provide a continuous air barrier.

B. Provide protection of rough openings before installing windows, doors, and other penetrations through the wall.

C. Provide sill flashing to direct water to the exterior before windows and doors are installed.

D. Install window and door head flashing immediately after windows and doors are installed.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. Subject to compliance with requirements, provide the following:
1. ProSoCo R-Guard System, by ProSoCo, Inc. fluid applied membrane air-barrier.
2. Alternates: As approved by the Architect.

2.2 COMPONENTS

A. Fill Compound: ProSoCo R-Guard™ Fill, a ready mixed, acrylic air barrier compound for use with ProSoCo R-Guard™ Tape over cracks, sheathing joints or rough openings through the structural wall.
1. Typical Technical Data Form: Dark red, viscous liquid, mild odor.
2. Specific Gravity: >1.0
3. Total Solids: 83% ASTM 2369 pH: 7.5 – 10.0.
4. WT./GAL.: 11.9 lbs.
5. Flash Point: >200 degrees F.
6. Freeze Point: 32 degrees F (0 degrees C).
7. VOC: Complies with all known national, state and district AIM VOC regulations.

B. Fluid-Applied Membrane: ProSoCo R-Guard™ Spray Wrap, ready mixed, flexible acrylic coating to be applied to exterior wall sheathing or CMU backup to prevent penetration of liquid water and air.
   1. Typical Technical Data Form: light red, viscous liquid, mild odor.
   2. Specific Gravity: >1.0.
   3. Total Solids: 74% ASTM D 2369 pH: 7.5 – 1.0.
   4. WT./GAL.: 12.7 lbs.
   5. Flash Point: >200 degrees F.
   6. Freeze Point: 32 degrees F (0 degrees C).
   7. VOC: Complies with all known national, state and district AIM VOC regulations.

C. ProSoCo R-Guard™ Tape: Self-adhering, glass fiber, fabric tape for use with ProSoCo R-Guard™ Fill to reinforce rough openings, inside and outside corners and joints.
   1. Size: 4.25-in and 9.5-in wide self-adhesive, flexible symmetrical, interlaced glass fiber fabric, with alkaline resistant coating.

2.3 EQUIPMENT

A. Seam roller or other blunt tool for taping over sheathing joints to firmly adhere mesh tape to backing. To reduce any potential for damaging the mesh tape, round sharp corners of tools used to install R-Guard™ Tape.

B. Rust-free electric drill and paddle for mixing R-Guard™ Fill and R-Guard™ Spray Wrap to a uniform consistency.

C. Trowel or texture sprayer for applying R-Guard™ Fill and Spray Wrap. Texture sprayers should have a max working pressure of 100 -120 psi (7 – 8.3 bar) and a max delivery rating of 2.0 – 4.0 gpm (7.5 – 15.1 lpm). R-Guard Fill and R-Guard spray Wrap are compatible with GRACO TexSpray™ RTX 1500 and GTX 2000 equipment.

2.4 MIXING

A. Mix materials with a clean, rust-free electric drill and paddle.

B. Do not dilute materials with water or add other ingredients.

PART 3 EXECUTION

3.1 EXAMINATION

A. Inspect concrete and concrete masonry surfaces for:
   1. Contamination – algae, chalkiness, dirt, dust, efflorescence, form oil, fungus, grease, mildew or other foreign substances.
   2. Surface absorption and chalkiness.
   3. Cracks.
   4. Damage and deterioration.

5. Moisture content and moisture damage – use a moisture meter to determine if the surface is dry enough to receive the air and moisture barrier and record any areas of moisture damage or excess moisture.

B. Report deviations from the requirements of project specifications or other conditions that might adversely affect the air and moisture barrier installation. Do not start work until deviations are corrected.

3.2 SURFACE PREPARATION

A. Remove surface contaminants and replace damaged unit masonry.

B. Spot acceptable surface defects in unit masonry with joint treatment.

C. Repair cracks, spalls, or other damage in concrete or concrete masonry surfaces.

3.3 INSTALLATION

A. Install moisture/air barrier in compliance with manufacturer's written instructions. Thoroughly mix liquids before applying.

B. Concrete Masonry Wall Construction
1. Prepare the CMU wall by striking the mortar joints flush with the block surface. The wall must be clean, sound and dry before application of R-GUARD™ and other air barrier components. Remove all mortar droppings or other debris from the surface. Remove dirt, efflorescence and other contaminants as required using EnviroKlean 2010 All Surface Cleaner, or equal, diluted 1 part concentrate to 10 parts fresh water.
2. Fill cracks or voids greater than ½ inch with mortar or a similar material. Repair minor cracks or voids with R-GUARD™ Fill or a paintable acrylic latex caulk, tooled flush with the block surface. Let dry.
3. Spray or roller apply ProSoCo R-GUARD™ Spray Wrap to the entire surface to a uniform wet mil thickness of 10 mils. When spray applying, backroll to close pinholes and ensure even coverage. Take special care to achieve full coverage around wall ties or surface irregularities. Let dry.
4. Spray or roller apply a second coat of ProSoCo R-GUARD™ Spray Wrap to the entire surface to a uniform wet mil thickness of 10 mils. When spray applying, backroll to close pinholes and ensure even coverage. Let dry.
5. Clean up: Clean tools and equipment with water immediately after use. Dried material must be removed mechanically.

3.4 FIELD QUALITY CONTROL

A. Inspection: Inspect the fluid-applied membrane system installation with the Contractor, Architect, applicator, and manufacturer's representative, and compare with mock-up test results approved by the Architect.

B. Manufacturer's Field Services: Provide the services of a manufacturer's authorized field representative to verify specified products are used, and

protection, surface preparation, and installation in accordance with the manufacturer's written instructions and the mock-ups approved by the Architect.

END OF SECTION