Department of Administration, Public Works Division
Storage Building
Moraine Nature Preserve, Porter County
Department of Natural Resources
Project No. E160010

ADDENDUM NO. 1

October 2, 2017

The attention of all prospective Bidders on the subject project is directed to the following modification to the Plans and Specifications.

ITEM NO. 1 – CHANGE TO BID DATE:
Sealed Bids for Moraine Nature Preserve Storage Building will be received from Contractors, HOLDING A CURRENT Certificate of Qualification, at the Bid Desk, Department of Administration, Public Works Division, 402 W. Washington St., Room W467, Indianapolis, Indiana 46204 until 1:31 P.M. (Indianapolis Time), October 12, 2017, after which all bids will be publicly opened and read in the appropriate bid room.

ITEM NO. 2- CORRECTION ON DATE FOR SPECIFICATIONS AND DRAWINGS ON NOTICE TO BIDDERS
'Copies of the detailed Instruction to Bidders and Drawings and//or Specifications dated September 13, 2017 .... ' (drawing C-1 and C-2 dated 07-26-2017).

ITEM NO. 3 – ADDED SPECIFICATIONS FOR GLASSBORD, SECTION 09720 – FIBERGLASS REINFORCED PANELS.
The specification are located http://www.in.gov/dnr/engineer/2908.htm under ADDENDUMS Glassboard shall be attached at wet wall in the restroom and walls at alcove around service sink in Bay 3 as shown on drawing A-1.

SECTION 09720 – FIBERGLASS REINFORCED PANELS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Prefinished fiberglass reinforced plastic sheets factory adhered to unfinished untreated plywood backer and related PVC trims.

1.2 RELATED SECTIONS

A. Section 09290 - Gypsum wallboard.

B. Section 06100 - Rough Carpentry.

C. Section 06200 - Finish Carpentry.

D. Section 07920 - Sealants and Caulking.

E. Section 09651 - Resilient Tile Flooring.

1.3 REFERENCES

A. American Society for Testing and Materials: Standard Specifications (ASTM)
1. ASTM D 256 - Izod Impact Strengths (ft #/in)
2. ASTM D 570 - Water Absorption (%)
3. ASTM D 638 - Tensile Strengths (psi) & Tensile Modulus (psi)
4. ASTM D 790 - Flexural Strengths (psi) & Flexural Modulus (psi)
5. ASTM D 2583- Barcol Hardness
6. ASTM D 5319 - Standard Specification for Glass-Fiber Reinforced Polyester Wall and Ceiling Panels.
7. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

1.4 SUBMITTALS

A. Product Data: Submit sufficient manufacturer's data to indicate compliance with these specifications, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

B. Samples for Verification: Submit appropriate section of panel for each finish selected indicating the color, texture, and pattern required.
1. Submit complete with specified applied finish.
2. For selected patterns show complete pattern repeat.

3. Exposed Molding and Trim: Provide samples of each type, finish, and color.

C. Manufacturers Material Safety Data Sheets (MSDS) for adhesives, sealants and other pertinent materials prior to their delivery to the site.

1.5 QUALITY ASSURANCE

A. Conform to building code requirements for interior finish for smoke and flame spread requirements as tested in accordance with:
   1. ASTM E 84 (Method of test for surface burning characteristics of building Materials)
      a. Wall Required Rating – Class A.

B. Sanitary Standards: System components and finishes to comply with:
   1. United States Department of Agriculture (USDA) requirements for food preparation facilities, incidental contact.
   2. Food and Drug Administration (FDA) 1999 Food Code 6-101.11.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver materials factory packaged on strong pallets.

B. Store panels and trim lying flat, under cover and protected from the elements. Allow panels to acclimate to room temperature (range of 60 to 75°F) for 48 hours prior to installation.

1.7 PROJECT CONDITIONS

A. Environmental Limitations: Building are to be fully enclosed prior to installation with sufficient heat (70°) and ventilation consistent with good working conditions for finish work

B. During installation and for not less than 48 hours before, maintain an ambient temperature and relative humidity within limits required by type of adhesive used and recommendation of adhesive manufacturer.
   1. Provide ventilation to disperse fumes during application of adhesive as recommended by the adhesive manufacturer.

1.8 WARRANTY

A. Furnish one year guarantee against defects in material and workmanship.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Vittetoe, Inc.; 2112 Keokuk-Washington Rd., Keota, IA 52248. Ph:800-848-8386. Fax: 641-636-3764. Email: info@vittetoe.com Web: http://www.vittetoe.com
   1. Product: Glass Board

B. Marlite; 1 Marlite Drive, Dover, OH 44622. Ph: 800-377-1221. Fax (330) 343-4668 Email: info@marlite.com Web: www.marlite.com.
   1. Product: Standard FRP

C. Equal product as approved by Owner and Architect / Designer.

2.2 PANELS

A. Fiberglass reinforced thermosetting polyester resin panel sheets complying with ASTM D 5319.
   1. Coating: Manufacturer's standard.
   2. Dimensions:
      a. Thickness: 0.090" (2.29mm) nominal
      b. Width: 4'-0" (1.22m) nominal
      c. Length: 8'-0" (2.4m) nominal
   3. Tolerance:
      a. Length and Width: +/-1/8" (3.175mm)
      b. Square: Not to exceed 1/8" for 8 foot (2.4m) panels or 5/32" (3.96mm) for 10 foot (2.4m) panels

B. Properties: Resistant to rot, corrosion, staining, denting, peeling, and splintering.
   1. Flexural Strength - 1.0×10^4 psi per ASTM D 790. (7.0 kilogram-force/square millimeter)
   2. Flexural Modulus - 3.1×10^5 psi per ASTM D 790. (217.9 kilogram-force/square millimeter)
   3. Tensile Strength - 7.0×10^3 psi per ASTM D 638. (4.9 kilogram-force/square millimeter)
   4. Tensile Modulus - 1.6×10^5 psi per ASTM D 638. (112.5 kilogram-force/square millimeter)
   5. Water Absorption - 0.72% per ASTM D 570.
   6. Barcol Hardness (scratch resistance) of 35 55 as per ASTM D 2583.
   7. Izod Impact Strength of 72 ft. lbs./in ASTM D 256

C. Back Surface: Smooth. Imperfections which do not affect functional properties are not cause for rejection.

D. Front Finish: In accordance with preapproved sample.

E. Color and Surface:
   1. Vittetoe: White Glass Board
   2. Marlite: Standard FRP P100

F. Substrate: 3/8" Plywood.

G. Fire Rating: Class A.

2.3 MOLDINGS

A. PVC Trim: Provide manufacturer's standard trims in lengths as required to complete the work
   1. Inside Corners
   2. Outside Corners (at eyewash area)

3. Divisions
4. Edges

2.4 ACCESSORIES

1. Provide accessories as required and recommended by the manufacturer to complete the work.

PART 3 - EXECUTION

3.1 PREPARATION

A. Examine backup surfaces to determine that corners are plumb and straight, surfaces are smooth, uniform, clean and free from foreign matter, nails countersunk, joints and cracks filled flush and smooth with the adjoining surface.

B. Repair defects prior to installation.

3.2 INSTALLATION

A. Comply with manufacturer's recommended procedures and installation sequence.

B. Cut sheets to meet supports allowing 1/8" (3 mm) clearance for every 8 foot (2.4m) of panel.
1. Cut and drill with carbide tipped saw blades and drill bits.
2. Pre-drill fastener holes with high speed drill bit.
   a. Space fasteners as recommended by manufacturer.

C. Apply panel moldings to all panel edges using silicone sealant providing for required clearances.
1. All moldings must provide for a minimum 1/8 " (3mm) of panel expansion at joints and edges, to insure proper installation.
2. Apply sealant to all moldings, channels and joints between the system and different materials to assure watertight installation.

3.3 CLEANING

A. Remove excess sealant from panels and moldings and final clean all surfaces.

B. Refer to manufacturer's specific cleaning recommendations. Do not use abrasive cleaners.

END OF SECTION 09720