A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: December 18, 2012
Date of Addendum: December 13, 2012

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
102	78-1642-663	PCC PAVEMENT - GRADE & REPLACE	POTTAWATTAMIE	STP-A-1642(663)--86-78	18DEC102.A02

Notice: Only the bid proposal holders receive this addendum and responsibility for notifying any potential subcontractors or suppliers remains with the proposal holder.

Make the following change to plan sheet C.03, Estimate Reference Information:

For Item Code 2516-8725000 P.C. CONCRETE RETAINING WALL add the following note:

The 'limestone' color structural concrete coating is to be included in the unit price bid for the P.C. Concrete Retaining Wall. The approximate quantity for 'limestone' color structural concrete coating is 350 square feet.

Finish the concrete surfaces of the retaining wall as designated in the plans using a colored high silicone-content acrylic sealer coating. The color shall match Davis Colors No. 5237 "Sandstone".

Use one of the following products:

Sherwin-Williams SWD DOT Bridge and Highway Sealer B-97 Series.
The Sherwin-Williams Company
10132 Buxton
Houston, TX 77017
281-615-7571

Anvil Siliconized Acrylic Concrete Opaque Sealer
Anvil Paints and Coatings
1255 Starkey Road
Largo, FL 33771
800-822-6776

Advanced Concrete Stain Pigmented Sealer
Advanced Surfaces Inc.
2000 Banks Road
Margate, FL 33063
954-973-4528

Apply product per manufacturer's recommendations. Do not violate the manufacturer's recommendations. In addition the product applicator shall have three or more years experience applying similar coatings to concrete surfaces. The Engineer's review and approval of a 3 foot by 3 foot test section is required prior to continuing with final product application.

To all new concrete surfaces to receive the colored sealer coating, perform a Class 2 Strip Down Surface Finish according to Article 2403.03, P, 2, b of the Standard Specifications.

Allow new concrete to cure for a minimum of 14 days. Ensure it passes the pH, water penetration and moisture content tests. Ensure all surfaces are clean, dry and free of grease, oil, paint, curing compounds not approved for overcoating by the sealer coating manufacturer, concrete sealers or any other material that would prevent a stable bond between the concrete sealer coating and the concrete surface.

Surfacing cleaning, at a minimum, requires the use of 3000 psi high-pressure washing at a flow rate of 3 to 14 gallons per minute. Allow to dry for a minimum of 24 hours prior to coating application. If the concrete cannot be cleaned adequately with a water wash, use combined sand-and-water-blasting or light sandblasting (brush blast).

Prior to the commencement of any coating, check the concrete surface for pH level. Also check for the presence of sealers, oils, curing compounds not approved by the concrete sealer manufacturer or other possible bond breakers. Use the following methods and techniques:

The prepared concrete is to have a pH level between 6 and 10. Perform pH testing according to ASTM D 4262 prior to coating the surface. An acid-etch complying with the coating product manufacturer's recommendations may be added to the water wash to reduce the pH. If acid-etch is used, rinse surfaces prior to re-testing the pH level.

Perform water penetration test by visual inspection and by wetting with fine mist water spray. Properly prepared, porous surfaces will show no water beading after one minute. If beading of water is apparent after one minute, clean the surface of sealing agents. This will require further cleaning per the outlined steps above. Test, in different locations, portions of all surfaces designated to receive colored sealer coating as directed by and to the satisfaction of the Engineer.

Follow the requirements of ASTM E 1907 to test for moisture content and readiness of the concrete surface to receive the coating. Acceptable test methods include electrical resistance or electrical impedance testing.

Apply a minimum of two coats per the manufacturer's recommendations. Apply under dry conditions only. Do not apply if rain is expected within 12 hours following the application. Air and surface temperature should be between 50 degree F and 90 degrees F during and for 24 hours following the application. Follow manufacturer's recommendation on coating thickness and do not over apply. Stir product thoroughly before and during application. Use a brush (natural bristle), roller (3/8 or 1/2 inch nap lambswool or solvent-resistant cover) or spray (airless sprayer with a pressure of 1500 psi and a 0.013 to 0.017 inch tip opening). Allow at least 12 hours before applying the second coat. Protect adjacent surface areas from splash, staining, dripping or over-rolling of the coating during application.

Make the following change to plan sheet D.02:

Add (BY OTHERS) to the note that reads:

"REMOVE WATER METER PIT AND BACKFLOW PREVENTER SEE NOTE THIS SHEET"

Delete the note that reads:

"NOTE: WATER METER PIT CONTRACTOR TO CONTACT CBWW (BRIAN CADY 712-328-1006 X1039) FOR KILLING OF METER PIT SERVICE AT STA 14+30 35' LEFT. CONTRACTOR TO PAY ALL APLICABLE FEES ($1000+/-) TO COUNCIL BLUFFS WATER WORKS ASSOCIATED WITH KILLING THE SERVICE AT THE MAIN."