CHANGE ORDER No. 2

Date of Issuance: January 21, 2022

Project Name: Ark City NPZ Pump Station	Owner: City of Arkansas City	Owner's Project Number:
Engineer's Project Number (if applicable): 35-190680-001-0655	Date of Contract: 7/2/2021	
Contractor: Wildcat Construction Co., Inc.	Funding Agency Project Number (if applicable):	

The following changes are hereby made to the CONTRACT DOCUMENTS:

1. Paving the area around the generator and transformer (approximately 170 SF).
2. Painting interior walls and ceiling with Tnemec Series 113 Waterborne Acrylic Epoxy, or equivalent, per the attached manufacturers instructions.
3. Feed exisiting cathodic protection rectifier power from panel L1 within the pump station and terminate inside the rectifier by the water tower.

Justification:

1. Beneficial for maintenance, prevent premature wearing of surrounding concrete.
2. Beneficial for maintenance, extend the useful life of the structure.
3. Provide new power to the existing cathodic protection to system to reduce the total number of meters required at the site.

☒ **Change to CONTRACT PRICE**

Original CONTRACT PRICE:	$ 777,860.00
Current CONTRACT PRICE (as adjusted by previous CHANGE ORDERS):	$ 777,860.00
Increase in CONTRACT PRICE as of this Change Order:	$ 8,207.90
The new CONTRACT PRICE incorporating this CHANGE ORDER:	$ 786,067.90

☐ **Change to CONTRACT TIME:**

Original Contract Times: ☐ Working Days ☐ Calendar Days

Substantial completion (days or date): _____

Final completion (days or date): _____

The CONTRACT TIME (as adjusted by previous CHANGE ORDERS):

Substantial completion (days or date): _____

Final completion (days or date): _____

[Increase] [Decrease] in CONTRACT TIME as of this Change Order:

Substantial completion (days or date): _____

Final completion (days or date): _____

CONTRACT TIMES with all approved CHANGE ORDERS:

Substantial completion (days or date): _____

Final completion (days or date): _____

REQUESTED:	RECOMMENDED:	ACCEPTED:
By: Tom Cox Contractor (Authorized Signature)	By: Nicole D. Franken Engineer (Authorized Signature)	By: _____ Owner (Authorized Signature)
Date: 1/24/2022	Date: 1/24/2022	Date: _____

Approved by Funding Agency (if applicable):

_____ Date: _____

TNEMEC

PRODUCT DATA SHEET

H.B. TNEME-TUFCOAT SERIES 113

PRODUCT PROFILE

GENERIC DESCRIPTION Waterborne Acrylic Epoxy

COMMON USAGE High performance coating suitable for concrete, steel and other commonly used building materials. Features include high-build, low odor, non-yellowing white and fade resistant colors; easy cleanup and stain-, abrasion-, chemical- and moisture-resistance. Good exterior performance.

COLORS Refer to Tnemec Color Guide.

FINISH Satin

PERFORMANCE CRITERIA Extensive test data available. Contact your Tnemec representative for specific test results.

COATING SYSTEM

PRIMERS

Steel: Series 1, 10, 27, 37H, 66, N69, N69F, 90E-92, 90-97, H90-97, 115, 394, 530. **Note:** Series 10 and 37H are not recommended for frequently wet conditions. Allow Series 10 to cure one week and 37H to cure 30 days before topcoating. **Note:** When topcoating Series 1 or 394 with 113, maximum recoat time is three days.
Galvanized Steel and Non-Ferrous Metal: Series 66, N69, N69F, 115
Dense Concrete: Self-priming, Series 130, 218
CMU: Series 54, 130, 218
Drywall: Series 151
Wood: Dry interior environments only, self-priming, Series 10-99W, 151-1051

SURFACE PREPARATION

NEW CONCRETE & CMU Allow to cure for 28 days. Level protrusions and mortar spatter. For optimum results, abrasive blast referencing SSPC-SP13/NACE 6, ICRI CSP 2-3 Surface Preparation of Concrete and Tnemec's Surface Preparation and Application Guide.

PAINTED SURFACES Apply test patch to check adhesion. Remove loose paint and spot prime.

ALL SURFACES Must be clean, dry and free of oil, grease, form release agents and other contaminants.

TECHNICAL DATA

VOLUME SOLIDS 44.0 ± 2.0% (mixed) †

RECOMMENDED DFT 4.0 to 6.0 mils (100 to 150 microns) per coat. **Note:** Number of coats and thickness requirements will vary with substrate, application method and exposure. Contact your Tnemec representative.

CURING TIME

Temperature	To Touch	To Handle	To Recoat
75°F (24°C)	30-45 minutes	2-3 hours	1-2 hours

Curing time varies with surface temperature, air movement, humidity and film thickness.

VOLATILE ORGANIC COMPOUNDS

Unthinned
1.90 lbs/gallon (228 grams/litre)
Thinned 5% (No. 59 Thinner)
2.03 lbs/gallon (243 grams/litre) †

HAPS **Unthinned:** 2.59 lbs/gal solids
Thinned 5% (No. 59 Thinner): 2.82 lbs/gal solids

THEORETICAL COVERAGE 706 mil sq ft/gal (17.3 m²/L at 25 microns). See APPLICATION for coverage rates. †

NUMBER OF COMPONENTS Two: One Part A (4.5 gal) and One Part B (1/2 gal)

PACKAGING Five-Gallon Kit: Consists of approximately 4.5 gallons of Part A in a five gallon pail and a partially-filled, half-gallon jug of Part B. When mixed, yields five gallons (18.9L).
One-Gallon Kit: Consists of a partially-filled one gallon can labeled Part A and a partially-filled pint can labeled Part B. When mixed, yields one gallon (3.79L).

NET WEIGHT PER GALLON 11.11 ± 0.25 lbs (5.04 ± .11 kg) (mixed) †

STORAGE TEMPERATURE Minimum 35°F (2°C) Maximum 110°F (43°C)

TEMPERATURE RESISTANCE (Dry) Continuous 170°F (77°C) Intermittent 250°F (121°C)

SHELF LIFE Part A: 24 months; Part B: 12 months at recommended storage temperature.

FLASH POINT - SETA Part A: 190°F (88°C) Part B: 135°F (57°C)

HEALTH & SAFETY Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.
Keep out of the reach of children.

H.B. TNEME-TUFCOAT | SERIES 113

APPLICATION

COVERAGE RATES

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m²/Gal)
Suggested	5.0 (125)	11.5 (290)	141 (13.1)
Minimum	4.0 (100)	9.0 (230)	176 (16.4)
Maximum	6.0 (150)	13.5 (345)	118 (10.9)

Allow for overspray and surface irregularities. Film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. †

MIXING

Always use the entire contents of A and B components. Stir contents of Part A, making sure no pigment remains on the bottom. Slowly add the contents of Part B to Part A while under agitation. Continue agitation until thoroughly mixed.

THINNING

Use clean water. For air, airless spray, brush or roller, thin up to 5% or 1/4 pint (190 mL) per gallon. To improve brush and roll properties, thin up to 5% or 1/4 pint (190 mL) per gallon by volume with No. 59 Thinner. **Note:** Thin only after Part B has been thoroughly mixed with Part A according to mixing instructions.

POT LIFE

48 hours at 50°F (10°C) 24 hours at 77°F (25°C) 16 hours at 100°F (38°C)

APPLICATION EQUIPMENT

Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA 510	.070"	765	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	50-70 psi (3.4-4.8 bar)	10-20 psi (0.7-1.4 bar)

Low temperatures or longer hoses require higher pot pressure.

Airless Spray

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.015"-0.019" (380-485 microns)	2400-3300 psi (165-228 bar)	1/4" or 3/8" (6.4 or 9.5 mm)	60 mesh (250 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.
Roller: Use 1/4" (6.4 mm) synthetic woven nap rollers for smooth surfaces, use 1/2" to 3/4" (12.7 mm to 19 mm) synthetic woven nap rollers for rough surfaces.
Brush: Use a high quality nylon or synthetic bristle brush.
Touch-Up: To minimize variations in appearance, touch-up over existing Tneme-Tufcoat should be done by the same method as initial application.

SURFACE TEMPERATURE

Minimum 50°F (10°C) Maximum 120°F (49°C)
The surface should be dry and at least 5°F (3°C) above the dew point. Coating won't cure below minimum surface temperature.

CLEANUP

Clean all equipment immediately after use with clean water followed by a final washing with the recommended thinner or Ethanol.

† Values may vary with color.