

ADDENDUM NO. 3

TO

**PARK AVENUE PUMP REPLACEMENT
TOWN OF TRUMBULL, CONNECTICUT**

BIDDING AND CONTRACT REQUIREMENTS AND SPECIFICATIONS

FOR

PARK AVENUE PUMP REPLACEMENT

February 9, 2018

PREPARED BY:

**WRIGHT-PIERCE ENGINEERS
169 Main Street, 700 Plaza Middlesex
Middletown, Connecticut 06457**

ADDENDUM NO. 3

TOWN OF TRUMBULL, CONNECTICUT PARK AVENUE PUMP REPLACEMENT

As a point of clarification, it should be understood that the Contract Documents govern all aspects of the project. Informal discussions held during the Pre-Bid Conference, or over the telephone are informational only. All official changes to the Contract Documents are made only by addenda. The following changes and additional information are hereby made a part of the Contract Documents:

CLARIFICATIONS

1. Additional information is now available from the original station manufacturer, Dakota Pumps, and is included in this addendum for reference only. The manufacturer recommends building the new pump supports and extension off of the existing base to accommodate the pump location, welding to that base while minimizing the amount of welding to the existing floor.
2. The existing motor actuate plug valve (TYP 2) installed on the force main discharge piping are wired to an existing NEMA 4X box in the drywell. There is then a 9-pin connector cable from that box to the existing PLC. This NEMA 4X box, wiring and cabling shall be maintained and refed to the new PLC. All programming associated with the motor actuated valves will be conducted by Flygt under their scope of work.
3. Disregard the deletion of the check valve position switches stated in Addendum No. 2. Provide two (2) new check valve position indicator switches as part of the base bid and wire back to the new Control Panel (termination location will be provided during submittals). All programming associated with the switches will be conducted by Flygt under their scope of work. Position switches shall meet the following specification:

Position Switch: (ZS)

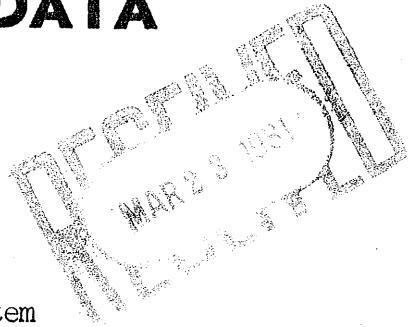
- a. The check valve limit switch shall be a hermetically sealed single contact limit switch.
- b. The switch shall utilize a side mounted adjustable lever with a spring return that can be adjusted to sense the closed position of the check valve swing arm.
- c. The switch contacts shall be rated NEMA B600 for AC.
- d. Provide a fabricated stainless steel bracket that mounts to one of the valve's flange bolts. The bracket will support the limit switch so that the switch will be activated by the check valve's swing arm when the valve is in the closed position.
- e. Hazardous Area Classification: NEMA 4X
- f. Equivalent to:
 - 1) Allen Bradley 802R Series Sealed Contact Switches
 - 2) Or Equal

Job
3021

DAKOTA PUMP

Water & Sewerage Handling Equipment

SUBMITTAL DATA FOR



Job: Contract #11 Sanitary Sewer System
Phase II - Trumbull, Conn. **Date:** 7/31/80

Location: Trumbull, Connecticut

Engineer: Flaherty-Giavara Associates

Contractor: Mark IV Construction Co., Inc.

File No. 7980-33-6

APPROVED

MARK IV CONSTRUCTION CO. INC.

G. T. P. d.

AUG 11 1980

DAKOTA PUMP INC.

Riverside Rd. Interchange I-90

P. O. Box 951 Mitchell, S. D. 57301

Phone 605, 996-6636

DAKOTA PUMP INCORPORATED

RIVERSIDE ROAD — MITCHELL, SOUTH DAKOTA 57301

P. O. BOX 951 — PHONE 605, 996-6636

Description and Schedule

Quote No.7980-33-6.....

Job: Contract #11 Date July 28, 1980

Name:Mark IV Construction Co. Location Trumbull, Conn.

Conditions: 490 gpm to 335 gpm ft. to ft. TDH

Finished Grade Elev. 144.25' Footing Elev. 108.33'

Influent Elev. Invert 110.00' Discharge Elev. Through top of chamber

Overall Vertical Dim. 37.92' Elev. Top of Access Tube 146.25'

ITEM 100 EQUIPMENT CHAMBER $\frac{1}{4}$ " SAFETY MAT REQ'D

Skids	I-Beam	Type	8"	Size	18.4#/ft.	Wt.
Floor	Plate	Type	3/8"	Size	15.3#/sq.ft.	Wt.
Sump	20"	Length	8"	Depth	14"	Width
Shell	11'-0"	Dia.	9'-8"	Height	$\frac{1}{4}$ "	Wall
Head	Plate	Type	3/8"	Size	15.3#/sq.ft.	Wall
Drip Ring	NR	" x "	"	Lifting Hooks		
Pump Hooks	$\frac{1}{2}$ "x8"	Size	four (4)	Thus Pump Bases as needed	Type	Size
Tube Flange	2	" x	2	" x	$\frac{1}{4}$ "	"

Exterior Surface Preparation (in contact with soil, water or both)

- A. Coal tar epoxy-polyamide B 69B35 mils Dry
- B. Coal tar applied asphalt mastic inches wet
- C. Proprietary Epoxy specifications base coat B69N70 1.5 mils Dry
intermediate and top coat B69GA70 4.5 mils Dry

Interior and Exposed Exterior Surface

- A. Proprietary Epoxy specifications base coat B69N70 1.5 mils Dry
intermediate and top coats B69GA70 4.5 mils Dry

Description and Schedule

Job: Contract #11..... Date July 28, 1980.....

Name: Mark IV Construction Co.

ITEM 101

ACCESS TUBE

Tube 48 " Dia. $\frac{1}{4}$ " Wall 27 ' 4 " Total Length
 Lower Flange $2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{4}$ 53" O.D. Dia. 48" I.D. Dia.
 12 x 16 x 37'-7" * x Ladder 1" square Rungs $\frac{1}{2} \times 1\frac{1}{2}$ " channel Rails
 Vent Tube 4" diameter x 27'-0" " x
 Sump Discharge 1 $\frac{1}{4}$ " Galv. Type Blkhd Fitting Welded nipple through sump
 Hatch 50" steel, epoxy coated, spring assisted, w/drip lip
 Rim Gasket Continuous Silicone Rubber Type Lock T-handle w/5 disc. tumbler Type
 Cover Switches Hatch-activated & Manual Type Conduit $\frac{1}{2}$ " EMT

*A safety landing will be supplied halfway down from the top (epoxy coated steel)

ITEM 102

LIGHTS & BLOWERS PIPING AND VALVES

ALUMINUM

Influent Pipe 6 " Dia. Class 50 Ductile Type Plain End Fitting
 Influent Valves 6 " DeZurik Make Eccentric Plug Type
 Check Valves 4 " x 6 " M&H Make Lever & Spring Type
 Discharge Valves 6 " Clow Make List 14 Gate Type
 Discharge Manifold 6 " x 6 " x 6 " SOE Type
 Discharge Pipe 6 " Dia. Class 50 Ductile Type Plain End Fitting
 Pipe Support Floor chairs Gaskets Rubber/asbestos ring type
 Bulkhead Fittings $\frac{1}{4}$ " steel sleeves with concrete/embacco grout.

Recirculation Scheme

Recirculation Regulator NR
 Gate Valves " Pipe " Type Fittings Type

Sump Pump Piping

Flexible Connection NR
 Check Valves (2) 1 $\frac{1}{4}$ " Gate Valves (1) 1 $\frac{1}{4}$ " All Bronze
 Piping 1 $\frac{1}{4}$ " Schedule 40 steel. (GALV.)

Exterior Piping

(Furnished on request only)

Sump Discharge Piping
 T-Y Fitting, 90° Bends
 $\frac{1}{4}$ " Poly Tube (ample supply furnished to reach from control to W.W.)
 Remarks

Description and Schedule

Job: Contract #11 Date: July 28, 1980

Name: Mark IV Construction Co.

SUBMIT
DATA

ITEM 103

PUMPS

Pumps Four (4) Thus 4 " Suction 14.0 " Max. Impellor 4 " Discharge
 Type Non-Clog Make Allis-Chalmers Model 400, 4x4x14
 CI Impellor " Dia. 1750 RPM Mechanical Seal
 50m filtered water Lub. Scheme NR Wear Ring HGS w/ SS Sleeve Shaft

Motors and Drives

ODP

Four (4) Thus 40 H.P. FR. 1750 RPM RPM Type
 3Ø / 60 hz. / 480 volts
 Drive Flex-coupled Driver Dia. Driven Dia.
 CLOSE

ITEM 104

CATHODIC PROTECTION

Sac. Anode Type Four (4) Thus 17# Packaged Magnesium
 Type Thus

ITEM 105

POWER AND CONTROL CENTER

Panel Locking Switch Amps Pole
 Main Breaker By others on pole Amps Pole
 Motor Breaker Four (4) Thus 90 amp, 3-pole
 NEMA I Enclosures
 Four (4) Furnas size '3' starters of the auto-transformer type.
 Auxiliary Circuit Breakers
 Lights & fan 15 Amps 1 Pole Controls 15 Amps 1 Pole
 Compressors 15 Amps 1 Pole Conv. Outlet 15 Amps 1 Pole
 Dehumidifier 15 Amps 1 Pole Heater 20 Amps 2 Pole
 Sump PUMP 15 Amps 1 Pole Amps Pole
 Amps Pole Amps Pole
 Amps Pole Amps Pole
 Alternator Diversified No. ARA-120-ADA Type Elapsed Time Meter (2) Engler six-digit
 Interval Timer Dayton 2E209 Type Bubbler Flo Meter Dwyer Model 500 Type
 Depth Indicator 0-160" No. 2½" dial, Marshalltown Fig. 83B Type
 Air Pumps Two (2) No. ITT Type Oilless, both mounted on (1) 2 gal. tank
 Alarm Gear Contacts only for: LWL, HWL, Low Air Pressure, High Drywell,
 Power failure, Pump failure (Seal water failure incorporated with Pump Failure)
 One (1) UE J303 pressure switch for pump control (Lead, Lag, Shut-off)

B. Motor Wiring #6 AWG Conduit 1" EMT to 1" Sealite

C. Lights Two (2) 100 watt incandescent with glass globes & cast guards.

A L A R M E Q U I P M E N T

One (1) UE J54S Pressure Switch for Low wetwell level.

One (1) UE J54S Pressure Switch for High wetwell level.

One (1) Furnas 69WA4 Pressure Switch mounted on air receiver for low air pressure.

One (1) Switch Systems NC float for high drywell.

One (1) Time Mark A258B power monitor for power failure

One (1) Furnas limit switch and one (1) Dayton time delay on each check valve level to signal pump failure.

Description and Schedule

Job: Contract #11 Date July 28, 1980

Name: Mark IV Construction Co.

ITEM 106

ENVIRONMENTAL CONTROL

1500	Watts Heater	Fan-forced	5120	BTU					
Dehumidifier	15	PT/D	200	cfm	Fan	265	cfm	0.0	" S.
Fan Motor	1610	RPM	1.86	AMPS	115	Volts	Shaded pole	Type	Typ
Sump Pump	1000	GPH	17'	TDH	Submersible	Type	SV25A	Model	
Pump Motor	8.5	" Amps	1.15	Volts	Shaded Pole	Type			Typ
Two (2) 4 $\frac{1}{2}$ " dial, 0-15 psi gauges for pump suctions									
Two (2) 4 $\frac{1}{2}$ " dial, 0-200 psi gauges for pump discharges									
Each gauge will have a protective diaphragm with gauge cock.									

ITEM 107

POWER FEED CONDUIT

2	"	EMT	Type	Wire to terminals in panel
by others. Also, one (1) 3/4" EMT conduit for load center power and				
one (1) 3/4" EMT conduit for alarm wiring.				

ITEM 108

TEST STAND OPERATION

ONe (1)	Hr. at	490	gpm at	335'	TDI
a.	Hr. at		gpm at		TDI
b.	Hr. at		gpm at		TDI
c.	Hr. at		gpm at		TDI

ITEM 109

SHIPPING DETAILS

Shipped by truck to jobsite or nearest passable road.

Est. 26,000 lbs.

Shipping Weight and Date Estimate 14-18 weeks after formal approval received in shop. Subject to & contingent upon availability & procurement of materials.

Description and Schedule

Job: Contract #11 Date July 28, 1980

Name: Mark IV Construction Co.

ITEM 110

SPARE PARTS AND ACCESSORIES

Seal Two (2) Thus Mechanical

Gaskets Two (2) Thus Volute

Touch Up Kit One (1) Thus Containing epoxy

Daily Report NR Thus

Instructions Six (6) Thus One (1) in station, Five (5) sent direct.

Ash Tray NR Waste Paper Basket NR

Wet Well Trash Basket NR " x " x " Type

Rails Length Brackets

Wench Type Cable Chair

Additional Spare Parts:

Two (2) sets of bearings for pump Two (2) pump shafts

Two (2) untrimmed impellors Two (2) bearing housings

Two (2) shaft sleeves One (1) ventilating blower to be used

SUPPLY "NO SMOKING"
SIGN 1st STATION

as spare for installed blower.

INSTALL 2 UNITS, WITH
ALTERNATING SWITCH

Respectfully Submitted,

by: *Verlen Lowrie*
for Dakota Pump Inc.

430

Job # 91

Bob Farnan City
203-1152 5048
For
203-452 5038

