



Memo

TO: Mayor Manier and City Council
FROM: Ed Andrews, Public Works Director
DATE: August 11, 2017
SUBJECT: Wet Well – Overhead Crane Modifications
Sewer Treatment Plant #2

As a result of previous expansion and modifications to the pump sets in the wet well (aka raw building), the current overhead monorail crane support is not in a configuration to allow for removal of the wet well pumps at STP#2. Its fixed position creates an alignment issue with the cabling potentially overstressing the system. This work was budgeted in the current Fiscal Year at approximately \$60,000.

This work is being proposed to be undertaken as a Contractor lead design build project, whereby each of the responding firm would proposed their own means and methodology to reconfigure the existing overhead crane system.

The following are quotes obtained from the two local / regional overhead crane services, attached herewith.

CES Material Handling (previously WECO)	\$50,000
Illinois Crane	\$65,705

As such it is staff's recommendation to proceed with these repairs in this Fiscal Year and engage CES Material Handling in a not to exceed amount of **\$50,000**.

This matter has been placed on the City Council agenda of Monday, August 14, 2017 for review and approval.

cc: File

801 W.Center Str., Eureka, IL

PH: (800) 548-2930 Fax: (309) 467-5118

TO: City of Washington
955 Ernest
Washington, IL 61571

P-9801

ATTENTION: Brian Rittenhouse
PHONE #: 309-745-9613

EMAIL: brittenhouse@ci.washington.il.us

CONFIRMING QUOTATION

IN REPLY TO YOUR INQUIRY WE ARE PLEASED TO OFFER THE FOLLOWING QUOTATION:

DATE: 3/21/2017	TERMS: Acceptance of this order and subsequent payment terms are subject to corporate credit review, which may result in a requirement for down payment or an alternative payment schedule. For more specific information, please contact your customer service representative.
FREIGHT: Included	
TAXES: None Included	

ITEM	QTY.	DESCRIPTION	PRICE EACH	TOTAL PRICE
1	1 Lot	<p>Provide and install ceiling mounted 2 ton crane system Includes enclosed track runways and crane to cover pumps and valves Runways to be supported from concrete building structure System to have 5' crane span, approx 26' runway length Crane to use existing hook mounted chain hoist Includes load test of system</p> <p><i>Install to be done with existing monorail in place for emergency use Scaffolding to be erected at beginning of job, removed once all work is completed. Extra removal/reinstallation not included</i></p>	\$ 48,110	\$ 48,110.00
2	1 Lot	<p>Demolition of existing monorail to on-site scrap pile <i>To be done immediately after bridge crane is complete, prior to removal of scaffolding. Hot work required for rail demo includes protection for your equipment</i></p>	\$ 1,890	\$ 1,890.00
TOTAL			\$	50,000.00

*** ALL OF OUR CRANES ARE DESIGNED BY IN HOUSE, PROFESSIONAL ENGINEERS AND INCLUDE STAMPED DRAWINGS WHEN APPLICABLE.**

WE ESTIMATE SHIPMENT CAN BE MADE WITHIN: 3-4 weeks after approval: installation to be scheduled

PRICES QUOTED ARE FIRM FOR 60 DAYS ONLY AND SUBJECT TO CHANGE AT THAT TIME WITHOUT NOTICE. ACCEPTANCE OF THIS ORDER SUBJECT TO THE TERMS AND CONDITIONS SET FORTH HERE AND IS HEREBY ACCEPTED BY:

*** Not-To-Exceed Installation based on the following:**
Work to be performed on first shift, Monday-Friday
No Holidays, weekend or off shift included
Free and clear access to work area - No work stoppage
All obstructions to be removed by others

COMPANY

NAME TITLE

DATE

**WE THANK YOU FOR THIS OPPORTUNITY
TO PROVIDE THIS QUOTE TO YOU**

BY: **Fred Kallal**



ILLINOIS CRANE

February 8, 2017

City of Washington
Wastewater Treatment Plant
Washington, IL 61571
309-745-9613
309-201-2781 (Cell)
309-745-9582 (Fax)
brittenhouse@ci.washington.il.us

Attn: Brian Rittenhouse / Wastewater Treatment Supervisor

Re: Illinois Crane Quotation No.IL-517-7024
Special Design Crane System for Basement

Dear Brian,

Illinois Crane is pleased to present our quotation for the following special designed floor supported crane system. This crane system will have push pull travel motions along with a Coffing electric chain hoist. A 460-3-60 power supply is required for the hoist.

This crane system will have three custom designed support assemblies with various widths and lengths. Washington WWTP will be responsible for the return of the crane system approval drawing. This drawing will be provided to verify all the required pick points and dimensions will meet your requirements.

It will be the responsibility of the Washington WWTP to verify the provided anchor bolt loadings for the concrete floor. The loadings are listed below.

Item #1, Floor Supported Crane System

- Patented track bridge beam
- Bridge capacity, 2 tons
- System width, 5'-10" / 13'-7" / 6'-7"
- Bridge span, 3'-5-1/2"
- **Bridge overall length, 4'-7-1/2"**
- System overall height, 14'-5"
- Enclosed bar for runway
- Tagline kit on bridge

Runways

- Patented track
- Runway length, 26 feet
- Runway support centers, 10 feet & 13 feet
- Runway sections, 2 @ 11'-6" @ 2 @ 14'-6"
- Support columns, 4 provided
- Header beams, 2 provided
- Cantilevered supports, 1 provided
- Floor to bottom of bridge, 11'-9-1/4"
- **Anchor bolt load, 6.9 Kips**
- **Overturning moment, 33.01 K-Ft.**
- **Axial load, 6.03 Kips**
- **Reinforced concrete floor, 6 to 8 inch minimum required**
- **Concrete strength required, 3,000 psi**
- Anchor bolts provided, 24



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Runway Power Bar System

- Enclosed Elite Bar
- Collector brackets
- All required mounting hardware

Coffing Electric Chain Hoist

- Hoist model, EC
- Hoist capacity, 2 tons
- Lifting height, 10 feet
- Lifting speed, 16 FPM
- Mechanical load brake
- Lifting control, Pendant operation
- Chain container
- Hand pushed trolley

System Notes:

- The runway system is designed to hold (1) crane @ 2 tons each.
- This quote includes the required floor anchor bolts.
- Minimum 6 inch to 8 inch reinforced concrete floor required
- Minimum concrete compressive strength of 3,000 Psi required
- Floor to be free from seams and cracks in the installation area.
- **The required floor mounted disconnect switch is to be provided by Washington WWTP. The disconnect switch is to be wired into the buildings 460-3-60 power supply.**
- **The disconnect switch is also to have wires that pulled and terminated at the corner of the runway power bar system. Illinois Crane will connect the wires and "phase" the system.**

PRICE FOR MATERIALS AS DESCRIBED \$ 26,355.00
 (Installation not included) (Freight not included)

ESTIMATED FREIGHT TO WASHINGTON, ILLINOIS \$ 1,050.00
 (Freight may be arranged for and paid for by City of Washington)

THESE PRICES ARE GOOD UNTIL 2-28-2017

AND

Item #2, Installation of Crane System by Illinois Crane:

This is an extremely difficult installation location. The window on the upper level will need to be removed by WWTP in order to get the materials into the building. The crane system materials will need to be "passed thru" the outside window and then attached to the nearby hoist and lowered into the pump room basement.

Illinois Crane to provide labor and materials to install one (1) freestanding crane system at WWTP in Washington, Illinois. The installation project is to be performed during normal weekday working hours on first shift. There is no provision in this quotation for off-shift, overtime or weekend working hours.

Illinois Crane will connect the Washington WWTP provided column mounted disconnect switch to the runway power bar system.



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Item #2, Installation of Crane System by Illinois Crane Continued:

It will not be possible to get any test weights into the pump room basement. The hoist will be load tested at the CMCO factory. The required load test paperwork will be left with you for your record keeping purposes.

The equipment for the installation project is to be provided by Illinois Crane, Inc.

PRICE FOR INSTALLATION OF CRANE SYSTEM	\$ 38,300.00
TOTAL PROJECT PRICE	\$ 65,705.00

Approval Drawings:	2 to 3 days after order placement
Equipment shipment:	Crane system, 7 to 9 weeks after return of approval drawing
Freight:	Per the provided freight estimates OR Freight provided by Washington WWTP
Installation:	Upon scheduling
Taxes:	Not included
Terms:	Progress Payments 10% with purchase order 40% with return of approved drawing 40% upon shipment 10% upon completion Net 10 days with credit approval

Thank you for the opportunity to quote your material handling equipment. Illinois Crane looks forward to working with you.

Sincerely,
Bob Lagerquist
Illinois Crane, Inc.

Bob@illinoiscrane.com
309-303-6481 (cell)