

WHERE HISTORY & PROGRESS MEET

INFRASTRUCTURE COMMITTEE

Thursday, February 1, 2018 7:00 P.M. – Committee Room A

AGENDA

- 1. Call to Order, Roll Call, and Establishment of a Quorum
- 2. Approval of Minutes
 - A. Infrastructure Committee of January 4, 2018
- 3. Public Participation / Presentations
- 4. Items for Consent
 - A. Purchase One 2017 Ford Transit 350 HD Extended Body High Roof Van with Aries Pathfinder Series Sewer Camera System
 - B. Resolution No. 18-R-0003 Contract Award Crawford, Murphy & Tilly, Inc. for Phase II Engineering Design Services Related to the Booster Station #4 Rehabilitation Project
 - C. Resolution No. 18-R-0004 Contract Award RJN Group, Inc. for the 2018 Sanitary Sewer Evaluation Program
 - D. Resolution No. 18-R-0005 Contract for Professional Engineering Design Services Related to the 2018 Sanitary Sewer Rehabilitation Program RJN Group, Inc.
 - E. Resolution No. 18-R-0006 A Resolution for Maintenance of Streets and Highways by the City of West Chicago Relating to FY2018 MFT Estimate of Maintenance Costs
 - F. Resolution No. 18-R-0007 Contract Award 2018 Parkway Tree Planting Program
- 5. Items for Discussion
- 6. Unfinished Business
 - A. 2018 Brush Collection Program
 - B. Alternative Cost Analysis for Proposed Salt Storage Facility 1300 W. Hawthorne Lane
- 7. New Business
- 8. Reports from Staff
- 9. Adjournment



WHERE HISTORY & PROGRESS MEET

Draft

MINUTES

INFRASTRUCTURE COMMITTEE

January 4, 2018 7:00 P.M.

1. Call to Order, Roll Call, and Establishment of a Quorum. Chairman Beifuss called the meeting to order at 7:00 P.M. Roll call found Aldermen James Beifuss, Heather Brown, Sandra Dimas, and Alton Hallett present. Aldermen George Garcia and Noreen Ligino-Kubinski were absent.

Staff present included Director of Public Works Robert Flatter and Administrative Assistant Ashley Cunningham. Also present was Joseph Kramer of Kramer Tree Specialists, Inc.

- 2. Approval of Minutes
- A. Infrastructure Committee Minutes of December 7, 2017. Alderman Brown made a motion, seconded by Alderman Dimas to approve the Meeting Minutes of December 7, 2017.

Voting Yea: Aldermen Beifuss, Brown, Dimas, and Hallett. Voting Nay: 0.

- 3. Public Participation / Presentations. None.
- 4. Items for Consent. Alderman Dimas made a motion, seconded by Alderman Brown to approve:
 - A. Resolution No. 18-R-0001- Contract Award 2018 Forestry Maintenance Program

Roll call found the vote unanimous for approval. Voting Yea: Aldermen Beifuss, Brown, Dimas, and Hallett. Voting Nay: 0.

- 5. Items for Discussion. None.
- 6. Unfinished Business.
- A. 2018 Brush Collection Program. At the December 2017 Infrastructure Committee Meeting, staff was instructed to obtain pricing from Kramer Tree Specialists, Inc. for the 2018 Brush Collection Program; nothing has been formally submitted in writing, but as a follow up, staff shared the following information with Committee. A list of annual brush collection revenues was presented as requested previously, showing fiscal year 2014-2016 actual

revenues collected, which averaged \$77,652.00, and estimated revenue of \$76,600.00 for fiscal year 2017. A copy of the fiscal year 2018 Public Works - Forestry budget was presented showing that \$80,000.00 was budgeted for the 2018 Brush Collection Program, \$88,000.00 for 2019, and \$96,800.00 for 2020. A copy of the 2015 Monthly Brush Collection Program Bid Tab was also shared with Committee. Kramer Tree Specialists originally proposed \$87,500.00 for 2018, and Mr. Flatter suggested they reevaluate their number considering what has been budgeted for 2018 and revenues collected from prior years' programs. Kramer Tree Specialists provided the following prices in response: \$84,000.00 for 2018; \$88,200.00 for 2019; and \$92,400.00 for 2020. Staff's position remains the same that Kramer Tree Specialists is the most suitable contractor for the Brush Collection Program. Although pricing for 2018 is higher than what has been budgeted, the total proposal for the three years combined is almost equal to what has been budgeted/estimated for 2018-2020. Alderman Hallett inquired about the \$5,000.00 increase for 2018 compared to the cost for 2017. Mr. Kramer explained that the 2017 pricing was provided in 2015 as part of a three year bid proposal. Current pricing for 2018 is based on knowing the exact cost for 2017 after completing the program whereas the previous years were proposed in advance and exact costs were unknown. Alderman Dimas inquired if the amount of brush collection has increased since the last bid three years ago, asking if the number of homes have increased. Mr. Flatter explained that the buying and selling of homes has likely been the cause of revenue fluctuations over the years. The fees paid by each residence have remained the same for many years, but that has been due to the fact that greater revenues were coming in than what it cost for the program to operate. Alderman Beifuss pointed out that the projected cost of the brush collection program as shown in the FY2018 budget document exceeds the annual revenues collected and asked where Mr. Flatter expected to get the additional revenue to accommodate the projected budget increase. Mr. Flatter further explained that the Brush Collection Program has always been self-sustaining and a change in brush collection fees would need to be discussed by the Finance Committee and City Council once a cost increase was known for certain. Excess funds in the Public Works – Forestry budget, possibly "Other Contractual Services" category, could be used to cover the difference in brush collection costs for 2018 if necessary. Money budgeted under "Other Contractual Services" is used for emergency tree removals throughout the year. Mr. Flatter noted that Kramer Tree Specialists understands what is involved with the City's brush collection program and the City's expectations, and has an advantage of being a local business as well. In the past, outside contractors have tried to chip the brush as they go through their routes, and they run into time constraints and other issues; Kramer has its yard in town with sufficient storage space so collection goes smoothly without the need to chip brush in the street which helps collection proceed in a timely manner. The Committee discussed the proposal offered by Kramer Tree Specialists, acknowledging concern that costs proposed for 2018 exceeded the City's budget. Alderman Dimas asked staff to assemble a program history to help show historical annual bids and cost increases. The Committee concurred that they would like to discuss the 2018 Brush Collection Program further during the February meeting and would entertain a revised proposal from Kramer Tree Specialists should Mr. Kramer feel it appropriate to submit one.

7. New Business. None.

8. Reports from Staff.

A. In House Traffic Study for Intersection at Wilson and Joliet Streets.

Alderman Garcia expressed some safety concerns regarding the intersection of Wilson and Joliet Streets. This intersection was newly reconstructed in 2015, and the box culvert was replaced. City staff and Thomas Engineering Group staff members completed an analysis of the intersection and provided responses to Alderman Garcia's concerns. As the streets are currently striped and with some of the obstructions in the area, if a driver was to stop at the stop bars on Wilson Street legally, their line of sight is obstructed. To resolve this, the stop sign and stop bar on the east side of Joliet for westbound Wilson Street will be relocated approximately 25 feet to the west. Additionally, the stop sign and stop bar on the west side of Joliet for eastbound Wilson Street will be relocated approximately 30 feet to the east to improve visibility. Alderman Garcia previously noted that the foliage on the east side of Joliet and Wilson protrudes toward the roadway: City staff will periodically trim back any new growth to help maintain an acceptable line of sight. Due to financial and geographic constraints, some of Mr. Garcia's concerns may not be resolved such as adding a turn lane for the southbound Joliet Street traffic to turn east onto Wilson Street. The West Chicago Police Department will increase patrol and enforcement on Joliet Street to combat the frequency of semi-truck traffic, despite the presence of a clearly marked "5-Ton Weight Limit" sign. Although Alderman Garcia also referenced that "there are no crosswalk safety zones marked for pedestrians," given the fact that there are no sidewalks at the intersection, staff would not recommend the installation of crosswalks there. Committee concurred with the findings and recommendations outlined in the traffic study.

9. Adjournment. At 7:53 P.M., Alderman Dimas made a motion to adjourn, seconded by Alderman Hallett. Motion was unanimously approved by voice vote.

Respectfully submitted,

Ashley Cunningham Administrative Assistant of Public Works

CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

Purchase One 2017 Ford Transit 350 HD Extended Body High Roof Van with Aries Pathfinder Series Sewer Camera System AGENDA ITEM NUMBER: 4.4

COMMITTEE AGENDA DATE: February 1, 2018
COUNCIL AGENDA DATE: February 19, 2018

STAFF REVIEW: Robert E. Flatter, P.E., Director of Public Works

SIGNATURE_

APPROVED BY CITY ADMINISTRATOR: Michael L. Guttman

SIGNATURE_____

ITEM SUMMARY:

For FY 2018, the Public Works Department has planned and budgeted for the replacement of one 2001 Ford E350 Sewer Televising/Camera Van (Unit #532). The 2001 Ford E350 Van, equipped with an RS Technical Services, Inc. closed circuit TV (CCTV) pipeline camera system, is utilized by the personnel in the Public Works Department for inspection of the City's sanitary sewer collection system and storm sewer system.

Unit #532 will be replaced with a 2017 Ford Transit 350 HD extended body high roof van with Aries Industries' Pathfinder CCTV pipeline camera system and appurtenances.

Purchasing a CCTV pipeline camera system is similar to purchasing appliances, televisions, or computers; there are multiple manufactures and all are capable performing basic functions, but features and options vary greatly. To allow local vendors an opportunity to provide bids for the 2017 Ford Transit 350 HD Van and Camera System, the City of West Chicago solicited price quotes from four utility camera manufacturers and their distributors, with basic camera functions specified. Original quotes were received as follows:

- Standard Equipment Company, Chicago, Illinois \$162,505.00.
- Aries Industries. Inc., Waukesha, Wisconsin \$164,459.00.
- Sewer Equipment of Illinois, Island Lake, Illinois \$169,084.00.
- EJ Equipment, Manteno, Illinois \$196,260.00.

City staff tested each of the four camera systems to compare performance, ease of operation, available options, quality, and functionality; the camera system offered by Aries Industries, Inc. was preferred.

City staff then met with representatives of Aries Industries, Inc. and reviewed/discussed equipment options, available features and functions, and van build-out options. With details, options, and specifications selected, City staff then asked for and received a final price quote of \$163,256.00 from Aries Industries, Inc. (see attached Quote #H170311, dated December 21, 2017).

The price quote obtained from Aries Industries, Inc. is an HGACBuy quote. All contracts available to participating members of HGACBuy have been awarded by virtue of a public competitive procurement process. Although the City of West Chicago is not a member of HGACBuy, Aries Industries, Inc. has chosen to offer its HGACBuy contract pricing to the City.

CITY OF WEST CHICAGO

The 2017 Ford Transit 350 HD extended body high roof van with Aries Industries' Pathfinder CCTV
pipeline camera system and appurtenances will be purchased from the Capital Equipment Replacement
Fund (05-34-43-4804) in which \$174,000.00 has been budgeted in FY 2018 to cover this expenditure.
ACTIONS PROPOSED:
That the West Chicago City Council waive competitive bidding and authorize the purchase of one 2017

That the West Chicago City Council waive competitive bidding and authorize the purchase of one 2017 Ford Transit 350 HD extended body high roof van with Aries Industries' Pathfinder CCTV pipeline camera system and appurtenances, from Aries Industries, Inc., for a cost not to exceed \$163,256.00.

COMMITTEE RECOMMENDATION:





550 Elizabeth St

(262) 896-7205 ph

(800) 234-7205 tf

Waukesha WI 53186

(262) 896-7099 fx

QUOTE# H170311

QUOTATION :

Customer Information

Contact Rocky Horvath Company City of West Chicago

Address 475 Main Street

City West Chicago Phone 630-293-2255

State IL

Zip Code 60185 Email rhorvath@westchicago.org

Date 12/21/2017

Expiration HGAC Salesman Greg Fry Terms Net 30 Delivery 60-90 days

FOB Destination

Item#	Qty	U/M	Part#	Description	Unit Price	Extended
				****HGAC Contract SC01-15 Pricing****		
Α	1	ea		West Chicago, IL PF System in Outfitted Gas Transit Van per specifications dated December 21, 2017	\$127,137.00	\$127,137.00
В	1	ea		Ford Transit Gas, Ext Length High Roof, 10360#	\$36,119.00	\$36,119.00
		0			, , , , , , , , , ,	400,110100
				NOTE: This form is provided for price proposal		
				clarity or to present options available through the		
				Aries H-GAC contract. It is not intended to be used as a quote for ordering. Please do not use this		
				form for processing an order with H-GAC. An		
				H-GAC quote form must be used for processing.		
				1	Subtotal	\$163,256.00
A TO				Sh	pping & Handling	included
				Taxes		not included

INDUSTRIES, INC.

Other TOTAL \$163,256.00

International leadership of inspection and rehabilitation solutions for underground infrastructure

Please visit our website: www.ariesindustries.com

Aries Industries Inc terms and conditions of sale for this quotation are available upon request Note: Any and all applicable sales tax will be added to the invoice





This sewer television system is delivered complete, ready for operation. The system includes a pan & tilt camera and transporter with light head capacity from 6" to 36" lines.

- 1 Ford Transit 350 HD extended body high roof van with 3.5L gas engine, 10360 GVWR. See detailed specs for full vehicle specs, to which Aries will include:
 - 4 Corner mounted amber LED TIR3 strobe lights, (2) front and (2) rear of body, with control switch in cab
 - 2 Adjustable LED flood lights, mounted inside of rear doors
 - 1 Ecco Vantage 54" lightbar, EC12-00005-E, roof mounted 6" from rear doors
 - 1 Dash upfitter switch for amber strobes control
 - 1 Dash upfitter switch for strobe pattern control
 - 1 Dash upfitter switch for takedown light control
 - 1 Dash upfitter switch for alley light control
 - 1 Roadside emergency safety kit (CFR49 compliant), to include,
 - 3 Traffic warning reflective safety triangles
 - 3 Traffic warning safety flares
 - 1 Fire Extinguisher

Chassis

Ford Transit 350 High Roof Extended Length Long Wheelbase 3.5L EcoBoost V6 gas engine, 310hp@ 5500rpm, 400lb ft @ 2250rpm 250A alternator Dual 12VDC 70A·h 610CCA batteries **GVWR 10360 FAWR 4130 RAWR 7275** Tires (6) 195/75R16C A/S 147.6" wheelbase Front axle with MacPherson suspension with stabilizer bar Rear axle with parabolic leaf springs and heavy-duty gas shock absorbers 3.73 limited slip differential 25 gallon fuel tank 4-wheel disc antilock brakes 6-speed automatic transmission with overdrive and SelectShift External transmission oil cooler Engine block heater

Interior / Exterior

Vinyl reclining bucket seats
Cab air conditioner
Heater - manually operated with defroster and window defoggers
AM/FM/CD stereo with SYNC and blutooth
High capacity upfitter switches
12V LED dome light







Analog instrument panel including speedometer, odometer/trip, fuel gauge, voltmeter, engine temp, and oil pressure

Convex combination outside rearview mirrors, heated, with turn signals and long arm

(4) total keys with fobs

Intermittent windshield wipers with pulse washers

Back up alarm

Reverse viewing camera system

Cruise control with message center

Trailer tow package with 4/7-pin connector and hitch receiver

Paint: oxford white

Dimensions = 172.2" long load space, 81.5" interior height, width 45.4" at wheel wells, 70.2" maximum interior

1 7,000W, gas powered, commercial grade generator, 120V, 60 Hz, with electric local and remote start/stop control to include:

- 1 Generator enclosure lined with fire retardant and noise reduction material
- 1 Maintenance access panels with ventilation grating and fan
- 1 Exhaust system with internal muffler
- 1 Auxiliary battery, 12V DC and case
- 1 DC converter, 45A
- 1 Electric distribution panel and circuit breaker box, 8-space
- 1 Electric supply transfer system, house power or generator system, automatic, 50A
- 1 35' cord and house power receptacle with cover
- 1 System engineering panel to include:
 - 1 Generator volt meter
 - 1 Generator frequency meter
 - 1 Generator hour meter
 - 1 Generator start/stop switch

1 Control room interior including:

- 1 Lonplate flooring
- 1 Pewter colored laminated surface wall covering
- 1 White Kemlite ceiling cover
- 1 Bulkhead wall with sliding Plexiglas sliding window, equipment room viewing
- 1 Roof mounted air conditioner, 13500 BTU with 5600 BTU heat strip
- 1 Wall mounted 1500 watt heater
- 1 LED lighting system with dimmer switch
- 1 12V LED dome light with switch at passenger's side rear door
- 1 Standard electrical upfitting package
- 1 Operator chair, swivel with casters
- 1 Fire extinguisher, 10lb, 4A60 B:C rating, OSHA/DOT-approved
- 1 Ergonomically contoured and finished control desk
- 1 Modular control center, 19" rackmount, located above the bulkhead window
- 1 Slide-out storage drawer, rack mount location
- 1 Under desktop storage cabinet, 3-shelves minimum







1 Equipment room interior including:

- 1 Lonplate flooring
- 1 White Kemlite laminated surface wall covering
- 1 White Kemlite ceiling cover
- 1 LED lighting system with dimmer switch
- 1 12V LED dome light with switch at passenger's side rear door
- 1 Standard electrical upfitting package
- 1 Set equipment storage brackets and hooks, shipped loose
- 1 9-drawer lockable tool chest
- 1 Workbench with Lonplate top and vise
- 1 Set of storage drawers under cable reel

1 Water wash down system for equipment clean-up including:

- 1 Water storage tank, 19-gallon
- 1 Set of fill, vent and drain connections
- 1 Water tank demand pump
- 1 25' retractable wash down hose with spring-loaded hand nozzle

1 Aries Master Controller system, multi-conductor, including:

- 1 System power supply and control unit, 19" rack mount
- 1 Pegasus system control software, loaded on USB flash drive
- 2 Wired Xbox-360 style hand held controller
- 2 Wireless Xbox-360 style hand held controller

1 USB wall port for wired controller

1 Aries PE3410 Pathfinder series zoom pan and tilt camera w/ high intensity LED light ring and integrated self-cleaning lens wiper system, including:

Pathfinder zoom pan and tilt camera w/ multi-axis continuous rotation

Integrated self-cleaning lens wiper system

40X zoom (10X optical & 4X digital)

Maintenance-free forward facing true color warm white directional LED lighting modules, positioned in the arms of the camera

Maintenance-free true color warm white directional LED directional lighting system with for inspecting up to 36" pipelines

White balance optimization with (4) selectable settings

"Starlite" light enhancement feature with (4) user selectable enhancement steps

"One Touch Scanning" feature with (2) user selectable continuous joint scan presets

"Quick Look" preset view positions (6) (Up, Down, Right, Left, Lat R, Lat L)

Fast-check pressure monitoring system







On-screen camera diagnostics functions including: Camera model, serial number, software revision Camera operating hours, regulated voltage value, head temperature Camera internal pressure, control error recognition, LED current value

- 1 Camera storage and transport case
- 1 Camera recharge kit

1 Aries TR3310 Pathfinder steerable self-propelled transporter for relined 6" to 24" lines, including:

- 1 Tractor assembly with continuous duty drive motors
- 6 33/8" narrow rubber wheels for relined 6" lines
- 4 4\%" rubber wheels for 6 & 8" sewer lines
- 4 43%" rubber wheels with extended hub for 8" & 10" sewer lines
- 4 5" extended hub rubber tires for 10" to 24" and larger sewer lines
- 1 On-screen tractor diagnostics display
- 1 Integrated inclinometer system
- 1 Remotely-operated electric camera lifting mechanism
- 1 Rear viewing camera with LED lighting
- 1 Internal 512 Hz locating beacon
- 1 Storage and transportation case
- 1 Set maintenance parts
- 2 3" carbide impregnated high traction wheels
- 2 4" carbide impregnated high traction wheels
- 2 4" offset carbide impregnated high traction wheels
- 2 5" offset carbide impregnated high traction wheels
- 4 5" dually extended hub rubber tires, for 15" and larger lines
- 1 Large line wheel kit with 8" diameter pneumatic rubber tires, for operation 15" to 36" and larger lines

1 Pathfinder cable and reel assembly, including:

- 1 Heavy-duty frame, drum and motor assembly with clutch and cable level wind assembly
- 1 Footage meter with local LCD footage display and encoder for footage signal to remote video data display system
- 1 Emergency hand crank arm
- 1 1000' of lightweight low friction multi-conductor cable
- 1 Sealed continuous contact collector assembly, 12-slip rings minimum
- 1 Telescopic cable guide roller assembly
- 1 Spare cable termination kit
- 1 Test cable, Pathfinder







- 1 Reel controller, mounted at the operator's control desk
- 1 Stainless steel drip pan and reel mounting hardware
- 1 Inter-connect cable, PC5000 and overlay to cable reel
- 1 19" LCD flat panel monitor, mounted to control room desktop, TV viewing
- 1 22" LCD flat panel monitor, mounted to control room desktop, PC viewing
- 1 19" LCD flat panel monitor, mounted rear facing in equipment room, TV viewing
- 1 Video amplifier/distributor box
- 1 VL5000 dual mode on-screen video text overlay and report writer program, to include:
 - 1 VL5000 video text overlay unit, 19" rack mount standard
 - 1 Standalone and computer control activation codes
 - 1 USB keyboard
 - 1 Complete set of inter-connect cables
- 1 Rack-mounted computer system, including:
 - 1 Industrial hardened case with air filtering, shock mounts for hard drive and CPU fan, peripheral cards support bar, 19" rack, 3U high

3.2GHz Intel Quad Core i7 processor, 8MB cache

8GB of RAM, DDR3

1TB SATA hard drive, 7200rpm, storage

120GB solid state hard drive, boot

- (2) RJ45 ethernet ports
- (8) USB ports, (2) located on front of PC

Serial port on rear of chassis

DVD burner with Nero 12.0

Wireless network adapter

- 1 Wireless keyboard and optical mouse
- 1 Windows 10 operating system, 64-bit
- 1 1TB USB-connection external hard drive
- 1 PipeTech Scan pipeline inspection software and license, to include the following items:
 - 1 PipeTech Scan infield inspection software
 - 1 Standard & PACP coding template
 - 1 USB video capture device
 - 1 One year support program
- 1 PipeTech View office project review and asset inventory software
 - 1 One multi-user network seat of PipeTech View software package
 - 1 View edit module

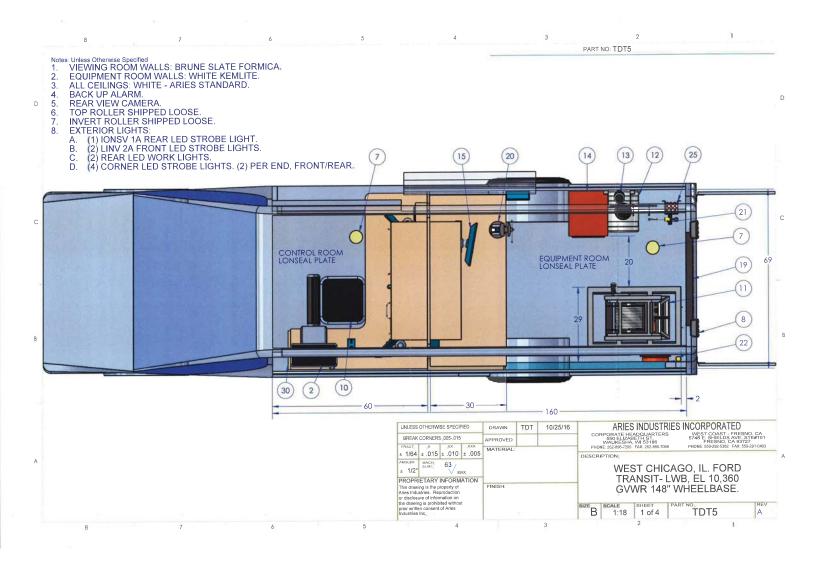


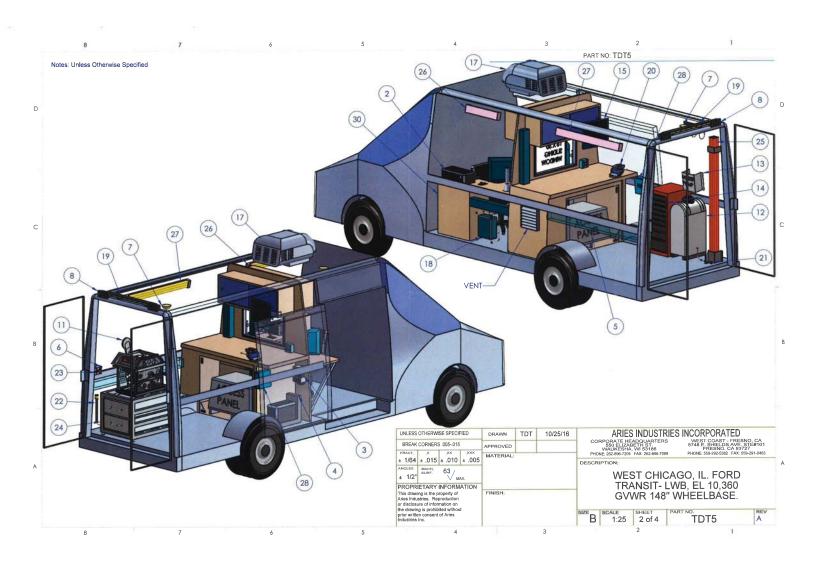




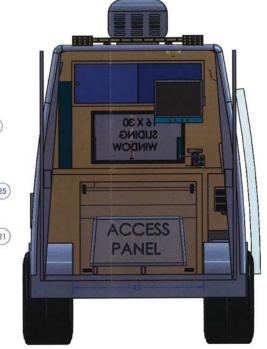
- 1 View query/library module
- 1 UPS back-up battery system, rack mount
- 1 Ink jet printer, color, USB port
- 1 Microphone with on/off switch for placing audio onto inspection video
- 1 Cable manhole guide system including:
 - 1 Manhole top roller assembly
 - 1 Manhole bottom roller assembly and adapter hook
 - 1 Insertion and extractor pole assembly and tractor adapter
 - 3 Quick lock extension poles
 - 5 Quick lock extension poles
 - 1 Tiger tail bottom cable guide
 - 1 Downhole pole storage brackets, wall mounted
- 1 Maintenance tool kit
- 2 Complete set of operation, maintenance, and troubleshooting manuals
- 1 Day of training, TV system
- 2 Days of setup & training, software system
- 1 One year warranty, TV system
- 1 Delivery to the vehicle to the City of West Chicago, IL







Notes: Unless Otherwise Specified ITEM PART NUMBER DESCRIPTION QTY. 750605 PRINTER CONVERTER, AC/DC 12-VDC 45 AMP BATTERY 3 807060 1 4 167012 GENSET ASSY, 7.0KW GAS FUEL INJECTED 5 310407 1 GFI OUT AND LIGHT SWITCH DOME LIGHT LIGHT, WORK EXTERIOR, 1 6 LIGHT SWS 1 15 210068 2 8 210042 CHAIR, STANDARD WITHOUT ARMS 10 560136 1 (20) PATHFINDER REEL WITH DRIP PAN 11 1 (11) PR3300 WINDO TANK, LOAF, 19 GALLON PUMP, WATER 12V.DC 12 080010 13 350049 1 9 DRAWER TOOLBOX AND LATCH PLATE (24) 14 560099 1 (25) MONITOR, 19 INCHE REAR MONITOR 15 750140 1 HOOK SET, (3) UTILITY
AIR CONDITIONER,
ROOF, STANDARD 16 570053 (22) CESS 17 553002 1 21 18 553051 HEATER 1500W NEL 19 160340 ARROW BAR 20 VISE VISE, ULTILTY 5 IN VISE, ULILITY 5 IN
FILL AND DRAIN
REEL ASSEMBLY,
HOSE, 25FT AUTO
REWIND
FLOOD, DOME,
WATER PUMP
SWITCHES
CABINET ASSY,
VIBRATION
DAMPENING DRAIN, FILL 21 22 570192 1 1 23 LIGHT SWS 3 560127 24 1 DAMPENING POLE STORAGE, TRAILER 25 570197 1 LIGHT, COMMERCIAL LED, 24" 26 210046 LIGHT, COMMERCIAL LED, 48" 27 210047 1 PANEL ASSEMBLY, DC FUSE CLOSET, 29IN HIGH, GRAY FINISH 28 570264 CLOSET29h 30



PART NO: TDT5

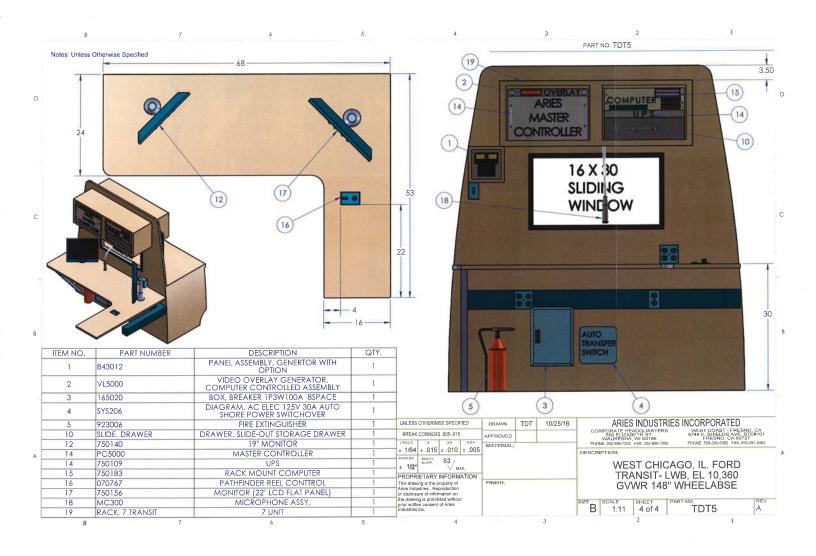
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BREAK	CORNERS	S .005015		APPROVED			1
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± 1/2° MACH, 63/MAX,							
PROPRIETARY INFORMATION This drawing is the property of Aries Industries. Reproduction or disclosure of information on the drawing is prohibited without prior written consent of Aries Industries Inc.				FINISH:			SIZE

ARIES INDUSTRIES INCORPORATED CORPORATE HEADQUARTERS
STO ELIZABETH ST.
WAUKESHA, WI 53188
PHONE: 262-896-7035 FAX: 262-896-7099 WEST COAST - FRESNO, CA 5748 E. SHIELDS AVE. STE#101 FRESNO, CA 93727 PHONE: 559-292-5382 FAX: 559-291-0463

WEST CHICAGO, IL. FORD TRANSIT- LWB, EL 10,360 GVWR 148" WHEELBASE. REV

B SCALE SHEET 3 of 4

PART NO.



CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY

ITEM TITLE:

Resolution No. 18-R-0003 - Contract Award – Crawford, Murphy & Tilly, Inc. for Phase II Engineering Design Services Related to the Booster Station #4 Rehabilitation Project

AGENDA ITEM NUMBER:

4.B.

COMMITTEE AGENDA DATE: February 1, 2018 **COUNCIL AGENDA DATE:** February 19, 2018

STAFF REVIEW: Robert E. Flatter, P.E., Director of Public Works

APPROVED BY CITY ADMINISTRATOR: Michael L. Guttman

SIGNATURE_

SIGNATURE

ITEM SUMMARY:

Within the FY 2018 Water Fund budget, \$55,000.00 has been budgeted for professional engineering design services related to the 2018 Booster Station #4 Rehabilitation Project. Booster Station #4 is located at 320 E. Forest Avenue, at the southwest corner of Bishop Street and Forest Avenue. Booster Station #4 is one of two Booster Stations, with associated ground storage tanks, used to increase available water in the distribution system during peak demand periods. This is accomplished with pumps at the Booster Station that operate based on water system pressure. As more water is drawn or needed from the water distribution system, the overall system pressure drops. When the pressure drop occurs a signal is received at the Booster Station calling for pumps to run and "boost" the system pressure. The operation of the pumps draws water from the associated ground storage tank and pumps it into the distribution system, increasing or maintaining pressure and providing more water. Booster Stations maintain system pressure, allow us to fill water towers, and provide water to fight fires.

Prior to construction of the City's Water Treatment Plant and raw water main system, Well Station #4 and Booster Station #4 operated from the same location, 320 E. Forest Avenue. During the design and construction of the City's Water Treatment Plant and raw water main system, decisions were made to abandon Well Station #4 because (1) it was the City's largest radium contaminated well, and (2) costs to run the raw water main system between Well Station #4 and the City's Water Treatment Plant were extravagant. The pump and motor assembly associated with Well Station #4 was removed in 2006, and the well hole was filled in 2009. All motor control equipment and plumbing associated with Well Station #4 still remain inside Booster Station #4. Booster Station #4 and its 0.5 MG ground storage reservoir continue to be used daily.

Improvements were last completed at Booster Station #4 in 1994. Improvements at that time included replacement of pumps, piping and electrical gear. After more than 20 years of service life, additional improvements are warranted. The 2018 Booster Station #4 Rehabilitation Project will include, but is not limited to, the following improvements:

- Replacement of two existing 75 HP pumps and associated piping and valves.
- Addition of variable frequency drives on the two new 75 HP pumps.
- Replacement of pump starters in the existing motor control cabinet (MCC).
- Removal of an existing 40 HP pump and its associated piping and valves.
- Removal of existing tank fill piping and associated water lines to the chlorine room (old Well Station #4 equipment).
- Modification of the discharge header piping.
- Addition of a tank fill line from the discharge piping inside the Booster Station with motor operated modulating valve and flow meter, connecting to the existing tank fill line outside the Booster Station for the ground storage reservoir.
- SCADA improvements to incorporate changes and upgrade Programmable Logic Controller (PLC).

CITY OF WEST CHICAGO

Crawford, Murphy & Tilly, Inc. (CMT) of Aurora, Illinois, designed the previous completed Booster Station improvements in 1994. Therefore, being most familiar with the Booster Station design and operations, City staff asked CMT for a Phase II engineering design proposal for the proposed 2018 improvements. Phase II design services will include, but not be limited to, coordination with effected agencies (i.e., Illinois Environmental Protection Agency (IEPA)), development of design plans, development of project specifications, development of bid documents, and bid assistance. CMT submitted a cost proposal of \$50,200.

It is staff's recommendation that a contract be awarded to Crawford, Murphy & Tilly, Inc. of Aurora, Illinois, for Phase II design engineering services related to the 2018 Booster Station #4 Rehabilitation Project, for an amount not to exceed \$50,200.00.

ACTIONS PROPOSED:

Approve Resolution No. 18-R-0003 authorizing the Mayor to execute a Contract with Crawford, Murphy & Tilly, Inc., in an amount not to exceed \$50,200.00, for Phase II engineering design services related to the 2018 Booster Station #4 Rehabilitation Project.

COMMIT	TEE	REC	OMMEI	NDATION:
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RESOLUTION NO. 18-R-0003

A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE
A CONTRACT WITH CRAWFORD, MURPHY & TILLY, INC. FOR PHASE II
ENGINEERING DESIGN SERVICES RELATED TO THE 2018 BOOSTER
STATION #4 REHABILITATION PROJECT

BE IT RESOLVED by the City Council of the City of West Chicago, in regular session assembled, that the Mayor is hereby authorized to execute a Contract for Professional Engineering Services related to Phase II Engineering Design Services for the 2018 Booster Station #4 Rehabilitation Project, between Crawford, Murphy & Tilly, Inc. and the City of West Chicago, for an amount not to exceed \$50,200.00, in substantially the form attached hereto and incorporated herein as Exhibit "A".

APPR	OVED this 19 th day of Februar	y 2018.
AYES:	y 	
NAYES:		
ABSTAIN:		
ABSENT:	·	
ATTEST:		Mayor Ruben Pineda
City Clerk Na	ancy M. Smith	

STANDARD AGREEMENT FOR PROFESSIONAL SERVICES

THIS AGREEMENT made between the City of West Chicago, whose address is 475 Main Street, West Chicago, Illinois 60185 hereinafter called the CLIENT and Crawford, Murphy & Tilly, Inc., Consulting Engineers, 2750 West Washington Street, Springfield, Illinois 62702, hereinafter called the ENGINEER.

WITNESSETH, that whereas the CLIENT desires the following described professional engineering, land surveying or architectural services:

Design and bidding phases engineering services for improvements to the Well #4 Pump Station as described in the attached Exhibit A – Scope of Work.

NOW THEREFORE, the ENGINEER agrees to provide the a	bove described services and the CLIENT agrees to compensate the
ENGINEER for these services in the manner checked below:	beve decombed to vice and the Calatti agreed to compensate the
On a time and expense basis in accordance with the atta beginning of each calendar year. Reimbursable direct services performed by another firm will be invoiced at co	ached Schedule of Hourly Charges which is subject to change at the expenses will be invoiced at cost. Professional or Subconsultant st plus ten percent.
At the lump sum amount of \$	
IT IS MUTUALLY AGREED THAT, payment for services ren by the ENGINEER.	dered shall be made monthly in accordance with invoices rendered
IT IS FURTHER MUTUALLY AGREED:	
That the compensation for services for the design and bide \$50,200 per the attached Exhibit B – Professional Cost Es	ling of the improvements at Well #4 Pump Station shall not exceed timate without further authorization from the Client.
other party hereto in respect to all the covenants and agre ENGINEER shall assign, sublet or transfer any part of his in	tners, successors, executors, administrators and assignees to each ements herein and, except as above, neither the CLIENT nor the terest in this AGREEMENT without the written consent of the other by and performance, shall be governed and construed in accordance bject to the General Conditions attached hereto.
IN WITNESS WHEREOF, the parties hereto have affixed the	ir hands and seals this day of, 2017.
CLIENT:	ENGINEER:
CITY OF WEST CHICAGO	CRAWFORD, MURPHY & TILLY, INC.
(Client Name)	They Dorady, P.E.
(Signature)	(Signature) Theresa O'Grady – Group Manager
(Name and Title)	(Name and Title)
CMT Job No.	

STANDARD GENERAL CONDITIONS Crawford, Murphy & Tilly, Inc.

1. Standard of Care

In performing its professional services hereunder, the **ENGINEER** will use that degree of care and skill ordinarily exercised, under similar circumstances, by members of its profession practicing in the same or similar locality. No other warranty, express or implied, is made or intended by the **ENGINEER'S** undertaking herein or its performance of services hereunder.

Reuse of Document

All documents including Drawings and Specifications prepared by **ENGINEER** pursuant to this Agreement are instruments of service. They are not intended or represented to be suitable for reuse by **CLIENT** or others on extensions of the Project or on any other project. Any reuse without written verification or adaptation by **ENGINEER** for the specific purpose intended will be at **CLIENT'S** sole risk and without liability or legal exposure to **ENGINEER**; and **CLIENT** shall indemnify and hold harmless **ENGINEER** from all claims, damages, losses and expenses including attorneys' fees arising out of or resulting therefrom.

3. Termination

This Agreement may be terminated by either party upon seven days prior written notice. In the event of termination, the **ENGINEER** shall be compensated by the client for all services performed up to and including the termination date, including reimbursable expenses, and for the completion of such services and records as are necessary to place the **ENGINEER'S** files in order and/or to protect its professional reputation.

Parties to the Agreement

The services to be performed by the **ENGINEER** under this Agreement are intended solely for the benefit of the **CLIENT**. Nothing contained herein shall confer any rights upon or create any duties on the part of the **ENGINEER** toward any person or persons not a party to this Agreement including, but not limited to any contractor, subcontractor, supplier, or the agents, officers, employees, insurers, or sureties of any of them.

Construction and Safety

The **ENGINEER** shall not be responsible for the means, methods, procedures, techniques, or sequences of construction, nor for safety on the job site, nor shall the **ENGINEER** be responsible for the contractor's failure to carry out the work in accordance with the contract documents.

6. Payment

Payment for services rendered shall be made monthly in accordance with invoices rendered by the **ENGINEER**. If payment is to be on a lump sum basis, monthly payments will be based on the portion of total services completed during the month. Invoices, or any part thereof, which are not paid within 30 days after the date of issue shall bear interest at the rate of 1-1/2% for each month or fraction thereof from the date 30 days after issue to time of payment. **CLIENT** will pay on demand all collection costs, legal expenses and attorneys' fees incurred or paid by **ENGINEER** in collecting payment, including interest, for services rendered.

7. Indemnification for Release of Pollutants

If this project does not involve pollutants, this provision will not apply. This provision may not be deleted if the project involves pollutants.

If, due to the nature of the service covered under this Agreement including the potential for damages arising out of the release of pollutants, **CLIENT** agrees that in the event of one or more suits or judgments against **ENGINEER** in favor of any person or persons, or any entity, for death or bodily injury or loss of or damage to property or for any other claimed injury or damages arising from services performed by **ENGINEER**, **CLIENT** will indemnify and hold harmless **ENGINEER** from and against liability to **CLIENT** or to any other persons or entities irrespective of Engineer's compensation and without limitation. It is understood that the total aggregate liability of **ENGINEER** arising from services performed by **ENGINEER** shall in no event exceed \$50,000 or the total compensation received under this agreement whichever is greater, no matter the number of or amount of such claims, suits, or judgments.

8. Risk Allocation

The total liability, in the aggregate, of the **ENGINEER** and **ENGINEER'S** officers, directors, employees, agents and consultants, and any of them, to **CLIENT** and anyone claiming by, through or under **CLIENT**, for any and all injuries, claims, losses, expenses or damages arising out of the **ENGINEER'S** services, the project or this agreement, including but not limited to the negligence, errors, omissions, strict liability or breach of contract of **ENGINEER** or **ENGINEER'S** officers, directors, employees, agents or consultants, or any of them, shall not exceed the total compensation received by **ENGINEER** under this agreement, or the total amount of \$50,000, whichever is greater.

CRAWFORD, MURPHY & TILLY, INC. STANDARD SCHEDULE OF HOURLY CHARGES EFFECTIVE JANUARY 1, 2018

Classification	Regular Rate Per Hour	Overtime Rate Per Hour
Principal	\$ 210	\$ 210
Senior Project Engineer/Manager	\$ 205	\$ 205
Project Engineer/Manager/Architect	\$ 175	\$ 175
Senior Engineer/Architect	\$ 140	\$ 160
Senior Technical Manager	\$ 130	\$ 150
Senior Planner/GIS Specialist	\$ 120	\$ 140
Engineer/Architect	\$ 120	\$ 140
Planner/Technical Manager	\$ 85	\$ 105
Land Surveyor	\$ 140	\$ 160
Senior Technician	\$ 130	\$ 150
Technician II	\$ 105	\$ 125
Technician I	\$ 80	\$ 95
Administrative Assistant/Accountant	\$ 50	\$ 60

If the completion of services on the project assignment requires work to be performed on an overtime basis, overtime rates will apply, and the fee will be adjusted to include the additional premium costs. These rates are subject to change upon reasonable and proper notice. In any event this schedule will expire and be superseded by a new schedule on or about January 1, 2019.

To the amount charged at rates shown will be added the actual cost of blueprints, supplies, transportation and subsistence and other miscellaneous job-related expenses directly attributable to the performance of services. A usage charge will be made when flow monitoring, sampling or level recording equipment, nuclear density equipment, GPS equipment, robotic total station or other similar specialized equipment are used directly on assignments.

Professional or Subconsultant services furnished to CMT by another company shall be invoiced at actual cost plus ten percent.

City of West Chicago Well #4 Pump Station Improvements

Exhibit A - Scope of Work

Project Description

The Well #4 Pump Station is one of two pump stations (and ground storage) in the distribution system used to fill during non-peak demand times and supply demand during peak demand periods. The existing deep well onsite is no longer in use since the construction of the Water Treatment Plant in 2005.

Improvements were last completed at the pump station in 1994. Improvements at the time include replacement of pumps, piping and electrical gear. After more than 20 years of service life, additional improvements are required.

The project consists of the following improvements:

- Replacement of two existing 75 HP Pumps and upstream/downstream piping and valves between vertical 90 degree bends. (Note existing discharge automatic control valve will be replaced with a check valve and gate valve.)
- Addition of variable frequency drives on the two new pumps.
- Replacement of pump starters in the existing MCC.
- Removal of existing 40 HP Pump and associated piping.
- Removal of existing tank fill piping and water lines to the chlorine room. Existing piping to remain includes piping to pressure transducer and plumbing to restroom.
- Modification of the discharge header piping between the wall and tee to first pump.
- No changes are anticipated to the existing suction header.
- Addition of a tank fill line from the discharge piping inside the pump station with motor operated modulating valve and flowmeter, connecting to the existing tank fill line outside the pump station. Existing piping between the well house and tank discharge line will disconnected to allow for the connection of the new fill line and new hydrant off of the new fill line.
- SCADA Improvements to incorporate changes and upgrade PLC.

Note that the above improvements do not include any building modifications (structural, lighting or HVAC), replacement of the electrical service, replacement of the motor control center or surveying of the site. For improvements outside of the pump station, it has been assumed that restoration will consist of stone backfill in pavement areas (for paving by others) and seeding in turfed areas.

It is assumed that the SCADA improvements will be incorporated into the project using a performance specification for the installation of the SCADA panel and an allowance for the City's existing SCADA provider (Utility Automation Services) to provide SCADA programming under the construction contract. CMT will contact Utility Automation Services during design to obtain a scope of work and budget for the proposed SCADA programming to establish the allowance amount.

Note that CMT designed the previously completed pump station improvements in 1994. In a search of our project files, we were able to recover the AutoCAD files of the as-bid drawings. These will be used as a basis of the design, along with field measurements that will be obtained during the initial stages of design.

Project Tasks

At this time, design and bidding phase services are included in the project scope. Note that a separate agreement will be required for construction phase engineering services, as needed.

The following tasks are anticipated to provide design phase engineering services for the pump station improvements.

- 1. Conduct project kick off meeting with the City staff and perform site visit and collect data/measurements on existing pumps, piping, electrical, etc.
- 2. Develop Existing Pump Station Mechanical Plan.
- 3. Develop preliminary Proposed Mechanical Plan and corresponding Sequence of Construction. Submit to City staff for review.
- 4. Meet with City staff to discuss preliminary Proposed Mechanical Plan and corresponding Sequence of Construction.
- 5. Prepare pre-final (75%) drawings, specifications and opinion of probable construction cost
- 6. Perform QA/QC review of plans and specifications.
- 7. Submit pre-final documents to City staff for review.
- 8. Meet with the City staff to discuss comments on pre-final documents.
- 9. Prepare final drawings and specifications for bidding. Submit pdf copies to City staff.
- 10. Prepare and submit IEPA permit.

For the bidding phase of the project, it has been assumed that the City will advertise the project, distribute plans and specifications (and addendum) to prospective bidders, receive questions from the prospective bidders and attend the bid opening. Therefore, the following tasks are anticipated to provide bidding phase engineering services for the pump station improvements.

- 1. Attend pre-bid meeting, prepare agenda and meeting minutes (for destitution by the City).
- 2. Provide assistance to the City for responding bidder's questions.
- 3. Prepare addendum (as needed) (for distribution by the City).
- 4. Perform review of bids, prepare recommendation for award.

CRAWFORD, MURPHY & TILLY, INC.
CONTRACT ATTACHMENT - EXHIBIT B - 2018 PROFESSIONAL SERVICES COST ESTIMATE
CLIENT
CLIENT
Well #4 Pump Station Improvements CLIENT
PROJECT NAME CMT JOB NO.

TL0 12/21/17 TLO 12/21/17 Prep By DATE Apprvd DATE

TABLES 1 CLASSIFICATIONS Page 19	A K A K A K A K A K A K A K A K A K A K	9
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CITY OF WEST CHICAGO

INFRASTRUCTURE CO AGENDA ITEM SUM	
Resolution No. 18-R-0004 - Contract Award – RJN Group, Inc. for the 2018 Sanitary Sewer Evaluation Program	AGENDA ITEM NUMBER:C COMMITTEE AGENDA DATE: February 1, 2018 COUNCIL AGENDA DATE: February 19, 2018
STAFF REVIEW: Robert E. Flatter, P.E., Director of Public Works	SIGNATURE
APPROVED BY CITY ADMINISTRATOR: Michael L. Guttman	SIGNATURE
ITEM SUMMARY:	
As a continuation of the Sanitary Sewer Evaluation Program started Inc. (RJN) and requested a cost proposal for the 2018 Sanitary Sethis year's Program includes the northern portion of the Hillside Adarea between Joliet Street and Illinois Route 59 (Neltnor Boulevar Avenue; and the Fair Meadows Subdivision, the area between Jol Avenue and Augusta Avenue. See attached location map for add be used to develop a cost effective correction plan for implementation of \$146,635.00, RJN will conduct move to exceed amount of \$146,635.00, RJN will conduct move weather investigations, cleaning and televising, and dye testine locations noted above. Within the Fiscal Year 2018 Sewer Fund, Sewer Main Repairs (05 budgeted for this Evaluation Program.	ewer Evaluation Program. Areas prioritized for ddition Subdivision, generally described as the rd), and between Brown Street and Forest litest Street and Bishop Street, and between Forest litional clarification. The data collected will then ration in future years. The data collected will then ration in future years. The data collected will then ration in future years. The data collected will then ration in future years.
ACTIONS PROPOSED:	
Approve Resolution No. 18-R-0004 authorizing the Mayor to exec amount not to exceed \$146,635.00, for professional services relat Program.	
COMMITTEE RECOMMENDATION:	

RESOLUTION NO. 18-R-0004

A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE A CONTRACT AGREEMENT WITH RJN GROUP, INC. FOR SERVICES RELATED TO THE 2018 SANITARY SEWER EVALUATION PROGRAM

BE IT RESOLVED by the City Council of the City of West Chicago, in regular session assembled, that the Mayor is hereby authorized to execute a Contract Agreement for Services related to the 2018 Sanitary Sewer Evaluation Program, between the City of West Chicago and RJN Group, Inc., for an amount not to exceed \$146,635.00, in substantially the form attached hereto and incorporated herein as Exhibit "A".

APPR	OVED this 19 th day of F	Sebruary 2018.	
AYES:			
NAYES:			
ABSTAIN:			
ABSENT:			
		Mayor Ruben Pineda	
ATTEST:			
 City Clerk Na	ncy M. Smith	_	



January 10, 2018

Mr. Robert Flatter, P.E. Director of Public Works City of West Chicago 475 Main Street West Chicago, Illinois 60185

SUBJECT:

PROPOSAL FOR 2018 SANITARY SEWER EVALUTATION SURVEY

FAIR MEADOWS AND HILLSIDE CENTRAL NEIGHBORHOODS (OPTION A)

Dear Mr. Flatter:

RJN Group, Inc. (RJN) is pleased to submit this proposal to provide Professional Engineering Services to assist the City of West Chicago (City) in reducing inflow and infiltration (I/I) in the sanitary sewer system.

PROJECT UNDERSTANDING AND APPROACH

RJN Group completed a flow monitoring study of the City's sanitary sewer system in 2009. The report from this study included multiple recommendations for further steps the City could take to reduce I/I in the sanitary system. This I/I reduction can significantly reduce the needed capital expenditures at the City's Wastewater Treatment Plant (WWTP).

The recommendations in that initial report divided the City into prioritized areas based on the amount of I/I entering the system. RJN has completed Sanitary Sewer Evaluation Surveys (SSES) of the areas identified to be top or high priority (areas tributary to Sanitary Lift Stations 1, 4, 5, 7, 9 and 12).

In the past few years, RJN surveyed a large portion of the City that was identified as medium priority. This included older parts of the City that flow by gravity to the WWTP. Based on discussions with City staff, it was determined that the 2018 SSES projects would be focused on the Fair Meadows and Hillside Central neighborhoods. The proposed 2018 SSES area is shown on the attached exhibit. The scope of this proposal is to perform a comprehensive SSES of these areas similar to the work previously completed.

This SSES will consist of the following components:

Manhole Surveying and Inspections – Each manhole will be located by either survey grade GPS
or terrestrial survey equipment with a new manhole number assigned. The task of locating and



Page 2 Mr. Robert Flatter, P.E. January 10, 2018

numbering manholes will be completed and approved by the City prior to starting the remaining tasks. The numbering system established in 2010 will be utilized.

Surface inspection of the manholes will be provided to identify frame and lid defects and other structural defects in the manhole. Manhole/pipe sizes, materials and inverts will also be collected. A full confined space entry investigation may be completed for the following reasons:

- o Manhole is too deep to observe the bench and trough
- o Portions of the manhole are not visible from the surface
- o Significant defects are observed that require further investigation

It is estimated that 10% of the manholes will require full confined space entry. All RJN field technicians are fully trained and certified for confined space entry.

- Smoke Testing Smoke testing identifies improper connections into the system as well as sewer, manhole and service lateral defects. Smoke is blown into a sewer segment through manholes at both ends. Defects are identified by where smoke exits the ground or structure.
 RJN utilizes a single 4-person crew and smoke tests only one segment at a time with two smoke blowers, one on each manhole at the ends of the segment. Sand bags are used where practicable to minimize smoke entering other segments.
- Wet Weather Investigations The volume of water that can enter through a system defect is as critical as the defect type, size and location. During wet weather events, RJN will conduct further investigations (general reconnaissance, manhole inspections and camera) of these areas to gather additional information on the areas that are most prone to I/I.
- Sanitary Sewer Cleaning and Televising Each sewer segment will be cleaned and televised to
 determine the structural integrity of the pipe. The televising will focus on visible sources of I/I
 and service connections. The inspection and associated pipe rating will follow the Pipeline
 Assessment and Certification Program (PACP) standards developed by the National Association
 of Sewer Service Companies (NASSCO).
- Dye Testing Dye testing is used to confirm direct and indirect storm water connections to the sanitary sewers found by smoke testing. The exact number of locations requiring dye testing is not known until the smoke testing has been completed. This proposal is based on two full days of dye testing.
- On Call Services These services include looking at other areas of town, assisting with emergency backups, review of previous televising records which will all be provided as "on call" services to the City at the established T&M rate. Services include but are not limited to; onsite investigations for other areas, checking sewer backups, pulling old video files for review, GIS



Page 3 Mr. Robert Flatter, P.E. January 10, 2018

mapping or updates and general field reconnaissance.

SCOPE OF SERVICES

Our proposed scope of work is as follows:

Task 1A - Manhole Mapping and Numbering

- 1. Complete survey grade (sub-centimeter x, y and z coordinates) locate of the rim for each accessible manhole in the project area.
- 2. Notify the City of manholes that were not found. Complete survey for manholes located/unburied.
- 3. Utilize the collected location data to update the City GIS map of the manholes in the project area.
- 4. Assign manhole numbers to each manhole located or identified but unable to locate.
- 5. Submit a GIS map showing each manhole located with its newly assigned manhole number. The manholes numbers will be utilized for the field logs and reports developed as part of the remaining tasks described below.

Task 1B - Manhole Inspections

- 1. Utilize electronic data collection equipment for the manhole inspections.
- 2. Complete surface manhole inspections for approximately 90 manholes (contingent on accessibility). Identify and document manhole defects. Take at least one manhole "area" picture, one picture of the frame and cover, and at least one "top down" picture at each manhole.
- 3. Obtain the invert elevations for each manhole. Where different, obtain invert elevation at each connecting sewer pipe.
- 4. Collect the following attribute data when it can be determined from the surface:
 - Manhole diameter
 - · Manhole construction material
 - Connecting sewer diameter(s)
 - Connecting sewer material(s)
- 5. If a manhole is greater than 12 feet deep, part of the manhole is not visible or I/I is visible near the manhole bench, a full entry inspection may be completed to supplement the data collected. It is estimated that 10% of the manholes may be in this category.

Task 2 - Smoke Testing

Prepare a draft resident smoke testing notification letter for the City to send to the affected
residents and business owners. These letters will include RJN contact information if
necessary during smoke testing. These letters will be in English on one side and in Spanish
on the other side.



Page 4 Mr. Robert Flatter, P.E. January 10, 2018

- 2. Prepare smoke testing door hangers that RJN staff will hang at each address less than one week prior to smoke testing. These door hangers will also include RJN contact information. These door hangers will be in English on one side and in Spanish on the other side.
- 3. Notify the local fire and police department of planned smoke testing activities, including daily updates. Answer resident/owner field and phone questions.
- 4. Provide equipment and smoke canisters necessary for smoke testing.
- 5. During smoke testing, erect smoke testing signs near the testing area.
- 6. Utilize electronic data collection equipment for smoke testing.
- 7. Smoke test approximately 25,070 linear feet of sanitary sewers. GPS locate (mapping grade) each identified defect and take at least one digital picture of each defect.

Task 3 - Wet Weather Investigations

- 1. Complete the following wet weather investigations during two separate rain events in flood prone areas within the project area:
 - Complete a general reconnaissance on the extent of flooding and storm flows in the sanitary sewer.
 - Take camera photos and video from nearest accessible sanitary manhole showing inflow, river/creek crossings, surface flooding and/or other noteworthy conditions affecting the sanitary sewer.
 - Complete supplementary surface manhole inspections for additional I/I observations focusing on areas closer to flood prone areas or manholes exhibiting I/I during inspections.

Task 4 - Sanitary Sewer Cleaning and Televising

- 1. Provide light cleaning of approximately 25,070 linear feet of sanitary sewer.
- 2. Obtain water for cleaning at a location to be determined by the City.
- 3. Provide root cutting for approximately 2,520 linear feet of sanitary sewer and heavy cleaning for approximately 5,900 linear feet of sanitary sewer as necessary. Eight (8) hours of heavy cleaning has been quoted, but not included in the base proposal. Additional time will be invoiced on an hourly basis.
- 4. Provide protruding tap removal for approximately 20 taps as necessary to facilitate cleaning and televising.
- 5. Televising of 25,070 linear feet of sanitary sewer with color camera, collecting the data in digital format following NASSCO PACP standards.

Task 5 - Televising Contract Management & Data Review

- 1. Onsite coordination and supervision of the sub-contractor. RJN will coordinate cleaning and televising operations with the sub-contractor and the City.
- 2. Part time inspection with the sub-contractor includes roughly (2-4) hours per day onsite while cleaning and televising operations are being conducted.



Page 5 Mr. Robert Flatter, P.E. January 10, 2018

- 3. Office review of 25,070 linear feet of sewer video (by RJN) to include the following:
 - o Mapping of pipes by PACP grade condition rating
 - Updates to GIS maps based on field notes and observed conditions
 - Review of all television inspection data with particular attention paid to sewers with PACP Grade 5 (immediate attention) or 4 (poor) defects
 - o Assessment and recommendations as follows:
 - Rehabilitation by point repair
 - Rehabilitation by lining
 - Recommendations for T-Liners & Service Lateral Grouting
 - Watch list (pipe currently in fair condition, low priority, but should be reinspected in five years)
 - Pipe in good condition (no priority, no follow-up required)

Task 6 - Dye Testing

- 1. Based on the results of the smoke testing, provide a list of proposed dye testing locations with reason for testing.
- 2. Provide dye testing equipment
- 3. Set up and complete dye testing
- 4. Provide subcontractor for televising during dye testing

Note: The number of dye set-ups required is dependent on smoke identified defects requiring follow up. This will not be known until after smoke testing has been completed and the dye testing list developed. The associated fee is an estimate based on a two days of dye testing.

Task 7 - Data Analysis and Report

- 1. Data Analysis
 - Compile field data and develop complete list of defects
 - Assign an estimated flow to each defect & an estimated cost for rehabilitation
- 2. Report
 - · Summary of work completed & GIS map of identified defects
 - List of defects prioritized by cost effectiveness for rehabilitation
 - Recommendations for rehabilitation, including potential procurement methods and recommended contractors/vendors for various type of rehabilitation
- 3. Submittals
 - Submit one color copy and pdf of an initial draft report for review by the Public Works
 Director
 - Address City comments and submit up to 3 color copies and pdf of a full draft report for City Administrator review
 - Address City comments and submit up to 10 color copies of final report
 - Provide one digital copy of final report files, data, video and photos



Page 6 Mr. Robert Flatter, P.E. January 10, 2018

Task 8 - "On Call" Miscellaneous Sewer Services

- 1. Provide on call sewer services to the City on a time and material basis. Services include but are not limited to site investigations, checking sewer backups, pulling old video files for review, GIS mapping, general field reconnaissance etc.
- 2. These T&M on call sewer services will only be used on an as needed basis and where directed to be used and approved by City staff.

Task 9 - Project Management and Meetings

- 1. Provide project management services for the duration of the project.
- 2. Attend up to three meetings with the City

ITEMS REQUESTED FROM WEST CHICAGO

We request the following items from the City:

- 1. Finalize the draft smoke testing letters and send to the businesses and residents in the study area.
- 2. Locate or uncover manholes not found, buried or inaccessible.
- 3. Provide water at no cost at approved locations near the study area for cleaning/televising and dye testing.
- 4. Provide a location for up to three televising contractor vehicles to be parked overnight.

SCHEDULE

The following schedule is based on a notice to proceed by February 20, 2018. Pending weather suitable for the wet weather investigations, the field work will be completed by the end of October 2018. The initial draft report will be provided by December 28, 2018. The full draft report and the final report will be submitted within one month after receipt of City comments.

PROPOSED FEE

This work will be billed on a time and material basis using the enclosed fee schedule with a not-to-exceed maximum billing of \$146,635.

This not-to-exceed maximum includes estimated quantities for heavy cleaning, root cutting and protruding tap cutting. If additional heavy cleaning, root cutting or tap cutting is required, it will be invoiced beyond the contract maximum at the established unit price or at an hourly rate of \$385 per hour. The City will be notified in advance if these additional tasks are required.

The dye testing (Task 6) fee is an estimate. RJN will provide the City with a recommended dye testing list under Task 6001. Pricing includes only two days of dye testing. If the recommended follow up



Page 7 Mr. Robert Flatter, P.E. January 10, 2018

list provided requires more than two days of work, additional dye testing costs can be negotiated further at that time.

Feel free to contact me at $630-682-4700 \times 314$ if you would like to discuss this proposal. We are looking forward to the opportunity to continue our work with the City on this important project.

Sincerely,

RJN Group, Inc.

Michael N. Young, P.E.

Michael M. young

Principal

Joseph Sullivan

Project Manager

Enclosure: Summary of Costs, Study Area Exhibit

City of West Chicago 2018 SSES - Option A (Fair Meadows & Hillside Central Neighborhoods) Estimated Level of Effort

LABOR AND DIRECT COSTS

Task		200	180	110	100	90	75	70	Total	Total
No.	Task Description	PD	SPM	PE/RE	ET	GIS	FT	CL	Hours	Cost
Task 1	- Manhole Surveying and Inspection									
1001	GPS Survey, Mapping and Numbering (~98 MHs)	1	3		22	10	4	2	42	\$4,280
1002	Surface Inspections (~90 MHs)	1	2		6	2	60	4	75	\$6,120
1003	Additional Full Entry MH Inspections (~8 MHs)		1		5		16	2	24	\$2,020
1004	GPS Charges									\$1,300
1005	Printing, Mileage and Other Expenses									\$200
	Subtotal	2	6	0	33	12	80	8	141	\$13,920
Task 2	- Smoke Testing									
2001	Public Relations		2		4		20	2	28	\$2,400
2002	Smoke Testing (~25,070 LF)	2	6	8	12	4	180	6	218	\$17,840
2003	Smoke Canisters									\$1,600
2004	Printing, Mileage and Other Expenses									\$200
	Subtotal	2	8	8	16	4	200	8	246	\$22,040
Task 3	· Wet Weather Investigations									
3001	Investigations (2 days)		2	2	8		16		28	\$2,580
3002	Printing, Mileage and Other Expenses		_	_	Ū		,,,			\$100
	Subtotal	0	2	2	8	0	16	0	28	\$2,680
Tool: 4	Chaning and Talasinia	0	11:4 6							04
4001	Cleaning and Televising	Quan.								Cost
4001	Video Inspection w/ Light Cleaning (4" - 6")	270	5.25							\$1,418
4002	Video Inspection w/ Light Cleaning (8" - 10")	18,900 250	1.16 1.21							\$21,830 \$302
4003	Video Inspection w/ Light Cleaning (12" - 15") Video Inspection w/ Light Cleaning (18" - 24")		1.21							\$1,630
4005	Video Inspection w/ Light Cleaning (17 - 24)	1,350 2,200	3.68							\$8,085
4006	Video Inspection w/ Light Cleaning (27 - 33) Video Inspection w/ Light Cleaning (36" - 42")	2,200	5.25							\$11,025
4007	Heavy Cleaning (4" - 6")	60	0.11							\$6
4008	Heavy Cleaning (8" - 10")	3,780	0.11							\$397
4009	Heavy Cleaning (12" - 15")	60	0.11							\$6
4010	Heavy Cleaning (18" - 24")	280	0.11							\$29
4011	Heavy Cleaning (27" - 33")	880	1.58							\$1,386
4012	Heavy Cleaning (36" - 42")	840	8.40							\$7,056
4013	Root Cutting (4" - 6")	30	0.11							\$3
4014	Root Cutting (8" - 10")	1,890	0.11							\$198
4015	Root Cutting (12" - 15")	30	0.11							\$3
4016	Root Cutting (18" - 24")	140	0.11							\$15
4017	Root Cutting (27" - 33")	220	0.11							\$23
4018	Root Cutting (36" - 42")	210	0.11							\$22

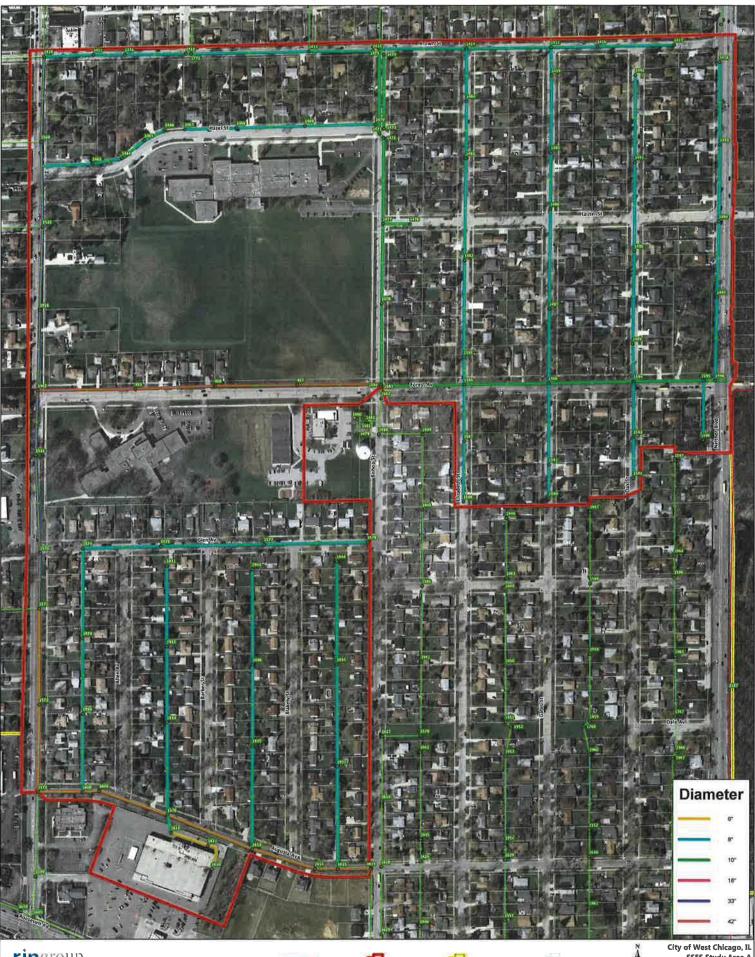
4019	Cut Protruding Taps	_	20	210							\$4,200
		Subtotal									\$57,635
Task 5 -	TV Contract Management & Review										
5001	Subcontractor Onsite Inspection (Part tim	e)		4	40	4			1	49	\$5,590
5003	Review of TV Data & Map Updates	-,	2	2	8	36	4		1	53	\$5,670
5004	Printing, Mileage and Other Expenses										\$200
	5	Subtotal	2	6	48	40	4	0	2	102	\$11,460
Task 6 -	Dye Testing										
6001	Prepare list & maps of recommended dye	testing loc	ations (1		4	2		1	8	\$830
6002	Complete dye testing (Two days planned	•	`	1		6		16	1	24	\$2,050
6003	TV assistance during dye testing	•									\$5,600
6004	Printing, Mileage and Other Expenses										\$100
		Subtotal	0	2	0	10	2	16	2	32	\$8,580
Task 7 -	Data Analysis and Report										
7001	Data Processing and Analysis			4	4	44	4	8	2	66	\$6,660
7002	Initial Draft Report		1	4	4	40	16		2	67	\$6,940
7003	Full Draft Report			2	4	30	8		4	48	\$4,800
7004	Final Report and Electronic Deliverables		1	2	4	16	4		2	29	\$3,100
7005	Printing and Other Expenses										\$200
		Subtotal	2	12	16	130	32	8	10	210	\$21,700
Task 8 -	Miscellaneous Sewer Services (As Need	led)									
8001	Field Services - Investigations			4	8	4				16	\$2,000
8002	Engineering Services			4	8	4				16	\$2,000
		Subtotal	0	8	16	8	0	0	0	32	\$4,000
Task 9 -	Project Management										
9001	Meetings and Project Management		4	16		6			2	28	\$4,420
9901	Printing, Mileage and Other Expenses	_									\$200
		Subtotal	4	16	0	6	0	0	2	28	\$4,620
				1	Not-to-	Exce	ed T	otal -	Task	s 1-9:[\$146,635

ADDITIONAL UNIT PRICE TASK AND RATE

Task 4 Additional - Cleaning and Televising Scope

4007 - 4012, Heavy Cleaning/Root Cutting (beyond established quantities) - Unit Cost Rate of \$365/hour

PD Project Director
SPM Senior Project Manager
PE/RE Project Engineer / Resident Engineer
ET Engineering Technician
GIS GIS Technician
FT Field Technician
CL Clerical













CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY ITEM TITLE: Resolution No. 18-R-0005 - Contract for Professional Engineering Design Services Related to the 2018 Sanitary Sewer Rehabilitation Program – RJN Group, Inc. COMMITTEE AGENDA DATE: February 1, 2018 COUNCIL AGENDA DATE: February 19, 2018 STAFF REVIEW: Robert E. Flatter, P.E., Director of Public Works APPROVED BY CITY ADMINISTRATOR: Michael Guttman

ITEM SUMMARY:

On July 13, 2017, the Infrastructure Committee approved and accepted the recommendations outlined in the 2014 and 2016 Sanitary Sewer Evaluation Survey Study Reports, as prepared by RJN Group, Inc. (RJN), and directed staff to plan for and contractually complete recommended rehabilitation work as determined appropriate by staff and as allowed by budget.

SIGNATURE

The 2014 Sanitary Sewer Evaluation Survey (SSES) study area encompassed four areas, with the bulk of the study area being generally described as the area between Aurora Street and Ingalton Avenue, and between Washington Street and Grandlake Boulevard. The remaining three areas included sanitary sewers associated with the Turtle Splash Family Aquatic Center, Turner Elementary School, and the Autumn Crest Condominiums. The above tributary areas were previously identified by RJN as areas of high inflow and infiltration (I&I). The area studied in 2014 is largely residential and contains some of the City's oldest sanitary sewers made of vitrified clay pipe (VCP). The manholes in this section are similarly older, many of brick construction and showing signs of deterioration. RJN reports that "the older infrastructure in this area is in need of significant rehabilitation work, including sewer lining, point repairs, lateral connection grouting, and manhole rehabilitation".

Given the large amount of rehabilitation work that was identified in the 2014 SSES (i.e., total estimated rehabilitation cost of \$702,150.00), and the limited rehabilitation funds annually budgeted (i.e., approximately \$600,000.00), RJN recommends that the City complete high priority rehabilitation sewer segments first, and the medium and low priority sewer segments in future years. To keep the rehabilitation plan within the budget, RJN's recommendations include the following I&I activities:

- 1) Perform point repairs on four sanitary sewer segments; required for pipes with defects so severe that they cannot be lined (approximate rehabilitation cost of \$52,800).
- 2) Perform cured-in-place pipelining for approximately 5,650 lineal feet of sanitary sewer (approximate rehabilitation cost of \$186,450).
- 3) Perform lateral grouting (sealing) for approximately 68 sanitary sewer service laterals with separation from the mainline (approximate rehabilitation cost of \$14,960).

The 2016 Sanitary Sewer Evaluation Survey (SSES) study area is generally described as the area between Town Road and the Wisconsin Central Railroad Tracks, and between Illinois Route 38 (Roosevelt Road) and Washington Street. Given the large amount of rehabilitation work that was

CITY OF WEST CHICAGO

identified in the 2016 SSES (i.e., total estimated rehabilitation cost of \$1,261,830.00), and the limited rehabilitation funds annually budgeted, RJN recommends that the City complete high priority rehabilitation sewer segments first, and the medium and low priority sewer segments in future years. To keep the rehabilitation plan within the budget, RJN's recommendations include the following I&I activities:

- 1) Perform point repairs on four sanitary sewer segments; required for pipes with defects so severe that they cannot be lined (approximate rehabilitation cost of \$52,000).
- 2) Perform cured-in-place pipelining for approximately 4,939 lineal feet of 8" diameter sanitary sewer (approximate rehabilitation cost of \$197,560).
- Perform cured-in-place pipelining for approximately 594 lineal feet of 18" diameter sanitary sewer (approximate rehabilitation cost of \$44,550).
 Meeting,

At staff's request, RJN has provided a proposal for an amount not to exceed \$32,640.00 to develop plans, specifications, and bid documents to address the high priority sewer segments and a portion of the medium priority sewer segments in FY2018. Point repairs (defects in the sanitary sewer pipe, such as broken or partially collapsed pipes and separated or displaced joints, that are severe enough to prevent a liner from being installed and must be dug up and repaired) are being evaluated for repair by City staff. For FY 2018, \$40,000.00 has been budgeted in the Sewer Fund (05-34-43-4410) for RJN's rehabilitation engineering design services.

ACTIONS PROPOSED:

Approve Resolution No. 18-R-0005 authorizing the Mayor to execute a Contract with RJN Group, Inc., for an amount not to exceed \$32,640.00, for professional engineering design services related to the 2018 Sanitary Sewer Rehabilitation Program for areas associated with the 2014 and 2016 Sanitary Sewer Evaluation Survey Study Reports.

COMMITTEE RECOMMENDATION:		

RESOLUTION NO. 18-R-0005

A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE A CONTRACT AGREEMENT WITH RJN GROUP, INC. FOR PROFESSIONAL ENGINEERING DESIGN SERVICES RELATED TO THE 2018 SANITARY SEWER REHABILITATION PROGRAM

BE IT RESOLVED by the City Council of the City of West Chicago, in regular session assembled, that the Mayor is hereby authorized to execute a Contract Agreement for Professional Engineering Design Services related to the 2018 Sanitary Sewer Rehabilitation Program, between the City of West Chicago and RJN Group, Inc., for an amount not to exceed \$32,640.00, in substantially the form attached hereto and incorporated herein as Exhibit "A".

APPR	OVED this 19 th day of	February 2018.	
AYES:	L 		
NAYES:			
ABSTAIN:	5 8		
ABSENT:	<u></u> 0		
ATTEST:		Mayor Ruben Pineda	
City Clerk Na	ncy M. Smith		



January 11, 2018

Mr. Robert Flatter, P.E.
Director of Public Works
City of West Chicago
475 Main Street
West Chicago, Illinois 60185

SUBJECT:

PROPOSAL FOR PROFESSIONAL ENGINEERING SERVICES

2018 SANITARY SEWER REHABILITATION DESIGN

Dear Mr. Flatter:

RJN Group, Inc. (RJN) is pleased to submit this proposal to provide Professional Engineering Services to assist the City of West Chicago (City) in preparing a bid package for the 2018 Sanitary Sewer Rehabilitation Project. This proposal includes preparation and design of the rehabilitation project, preparing plans and specifications, and assistance with bidding services. The lining repair recommendations outlined in the RJN 2014 SSES Report (remaining work – high priority) and the RJN 2016 SSES Report (remaining work – high and medium priority) comprise the rehabilitation work included in the bid package.

PROJECT UNDERSTANDING AND APPROACH

The City has recently completed sewer rehabilitation, including lining and point repairs, in the 2013 SSES area for high priority sewer segments. Based on the high priority recommendations in the 2014 SSES area and the medium and high priority recommendations in the 2016 SSES area, the City has decided to perform rehabilitation in these areas. Eight recommended point repairs from 2014 & 2016 study areas will be completed by City crews in advance of the 2018 sewer lining program.

SCOPE OF SERVICES

The proposed scope of work includes sewer rehabilitation design as follows:

Sewer Lining Design

- 1. Prepare lining maps of locations for recommended sewer lining and general notes. Service lateral locations and summary of quantities to be included on plans sheets.
- 2. Prepare lining schedule for recommended sewer lining.
- 3. Review accessibility for lining equipment to access manholes as necessary.



Page 2 Mr. Robert Flatter, P.E. January 11, 2018

Preparation of Bidding Documents

- 1. Prepare front end bid documents and detailed specifications.
- 2. Prepare bid package with plans, schedules, front end documents, bid tab and specifications. Prepare draft bidding documents (90% submittal) for City review.

Bidding Assistance

- 1. Prepare an opinion of probable construction cost.
- 2. Provide bidding assistance including:
 - Providing PDF and Word documents of bidding documents to City City will submit to Ouest for distribution
 - Distribution of invitations to potential bidders
 - Answering bid-related questions through formal addenda

Project Management

1. Provide project management services and attend up to two (2) meetings with the City.

ITEMS REQUESTED FROM WEST CHICAGO

We request the following items from the City:

- 1. Review and comment of Bidding Documents
- 2. Coordination with RJN in answering bid-related questions in formal addenda
- 3. Complete point repairs at eight (8) locations before CIPP program begins.

SCHEDULE

The draft Bidding Documents will be provided to the City within 8 weeks of a Notice to Proceed. The final Bidding Documents will be provided to the City within 2 weeks of City comment.

PROPOSED FEE

The proposed Scope of Services will be invoiced on a time and materials basis with an overall not-to-exceed maximum billing of \$32,640 as outlined in the enclosed Summary of Engineering Services Fees.



Page 3 Mr. Robert Flatter, P.E. January 11, 2018

It is our pleasure to submit this proposal to the City of West Chicago. Please feel free to contact Mike Young at $630-682-4700 \times 314$ if you would like to discuss this proposal. We are looking forward to the opportunity to continue our work with the City on this important project.

Sincerely,

RJN Group, Inc.

Michael N. Young, P.E.

Principal

Joseph Sullivan

Project Manager

Enclosure: Summary of Costs

Michael M. young

City of West Chicago, IL 2018 Sanitary Sewer Rehabilitation Design Estimated Level of Effort

		200	180	140	120	110	90	70	Total	Labor
Task No	. Task Description	PD	SPM	PM	PE	ET	GIS	CL	Hours	Cost
8										
1001	Lining Plan Sheets and General Notes		4	2	16	20	16		58	\$ 6,560.00
1002	Specifications, Lining Schedules & Appendices	1	6	6	16	24		8	61	\$ 7,240.00
1003	3 Cost Estimates & Bid Tab		2	4	4	8			19	\$ 2,480.00
1004	QC Checks		2	6	12	20		8	49	\$ 5,600.00
1007	90% Submittal (Incorporate Review Comments)		4	4	4		4	6	22	\$ 2,540.00
1005	Bidding Assistance, Questions & Addendums	1	4	6		6		6	23	\$ 2,840.00
1006	Project Management and Meetings	4	12	6		6		6	34	\$ 4,880.00
9901	Mileage, Printing & Misc. Expenses									\$ 500.00
	Total	8	34	34	52	84	20	34	266	\$ 32,640.00

PD - Project Director

SPM - Senior Project Manager

PM - Project Manager

PE - Project Engineer

ET - Engineering Technician
GIS - Geographic Information Specialist
FT/CL - Field Technician/Clerical

CITY OF WEST CHICAGO

INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY									
Resolution No. 18-R-0006 – A Resolution for Maintenance	AGENDA ITEM NUMBER: 4. E.								
of Streets and Highways by the City of West Chicago Relating to FY2018 MFT Estimate of Maintenance Costs	COMMITTEE AGENDA DATE: February 1, 2018 COUNCIL AGENDA DATE: February 19, 2018								
STAFF REVIEW: Robert E. Flatter, P.E., Director of Public Works	SIGNATURE								
APPROVED BY CITY ADMINISTRATOR: Michael L. Guttman	SIGNATURE								
ITEM SUMMARY:									
On December 18, 2017 City Council approved Ordinance No. 17-O-0046 adopting the Annual Budget for the Fiscal Year Ending December 31, 2018, which included the proposed expenditure of Motor Fuel Tax (MFT) funds in the amount of \$822,900. MFT funds are budgeted for the purposes of maintaining Streets, Highways, and Rights-of-Way under the applicable provisions of the Illinois Highway Code.									
Each year, the Illinois Department of Transportation (IDOT) requires the City of West Chicago to submit for IDOT approval a Resolution (using IDOT Form BLR 14220) for Maintenance of Streets and Highways by Municipality Under the Illinois Highway Code, and The Municipal Estimate of Maintenance Costs form (BLR 14231). These forms are attached for review and approval.									
ACTIONS DEODOSED.									
ACTIONS PROPOSED: Approve Resolution No. 18-R-0006 authorizing the City Clerk to execute and submit, to IDOT, the attached IDOT Resolution for Maintenance of Streets and Highways by Municipality Under the Illinois Highway Code form (BLR 14220) and the attached IDOT Municipal Estimate of Maintenance Costs form (BLR 14231), for MFT funding in the amount of \$822,900.00 for FY2018.									
COMMITTEE RECOMMENDATION:									

RESOLUTION NO. 18-R-0006

A RESOLUTION AUTHORIZING THE CITY CLERK TO EXECUTE AND SUBMIT, TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE ILLINOIS DEPARTMENT OF TRANSPORTATION RESOLUTION FOR MAINTENANCE OF STREETS AND HIGHWAYS BY MUNICIPALITY UNDER THE ILLINOIS HIGHWAY CODE (BLR 14220), AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION MUNICIPAL ESTIMATE OF MAINTENANCE COSTS (BLR 14231), FOR EXPENDITURES USING MOTOR FUEL TAX FUNDS FOR FY 2018.

BE IT RESOLVED by the City Council of the City of West Chicago, in regular session assembled, that the City Clerk is hereby authorized to execute the Illinois Department of Transportation Resolution for Maintenance of Streets and Highways by Municipality Under the Illinois Highway Code (BLR 14220), and the Illinois Department of Transportation Municipal Estimate of Maintenance Costs (BLR 14231), and is authorized to submit same to the Illinois Department of Transportation for expenditures using Motor Fuel Tax funds for fiscal year 2018, a copy of which is attached hereto and incorporated herein as Exhibit "A".

APPROVED this 19th day of February 2018

AYES:	-		
NAYES:	\$ 		
ABSTAIN:	2 2		
ABSENT:	(
		Mayor Ruben Pineda	
ATTEST:			
City Clerk N:	ancy M. Smith		



Resolution for Maintenance Under the Illinois Highway Code



		Resolution N	umber Resolution Type	Section Number
		18-R-0006	Original	18-00000-00-GM
BE IT RESOLVED, by the		uncil Body Type	of the	City of of of other of the control o
West	Chicago	Illinois that there is	hereby appropriated the su	m of Eight hundred
	al Public Agency	00	D. II	(\$822,900.00)
twenty-two thousand, r				·
of Motor Fuel Tax funds for	the purpose of maintaining	streets and highways ui	nder the applicable provision	ns of Illinois Highway Code from
01/01/18 to to	12/31/18 Ending Date			
BE IT FURTHER RESOLVE including supplemental or refunds during the period as s	evised estimates approved i			e of Maintenance Costs, aintenance with Motor Fuel Tax
BE IT FURTHER RESOLVE	ED, thatCit	: <u>y</u> of	West	Chicago
available from the Departme expenditure by the Departm	ent, a certified statement shent under this appropriation	aintenance period as sta owing expenditures and n, and	ited above, to the Departme I the balances remaining in	al Public Agency ent of Transportation, on forms the funds authorized for s resolution to the district office
of the Department of Transp			· ,	
	M. Smith	City	Clerk in and for said	City
Name of		Local Public Agency Ty		Local Public Agency Type
	est Chicago f Local Public Agency	in the State of	of Illinois, and keeper of the	records and files thereof, as
provided by statute, do here	STRONG STRONG TO STRONG	e a true, perfect and co	mplete copy of a resolution	adopted by the
Council	of	West Chica	go at a m	neeting held on 02/19/18
Governing Body 1	**	Name of Local Public		Date
IN TESTIMONY WHEREOF	; I have hereunto set my ha	and and seal this 19 Da		Month, Year
(SEAL)		Clerk Signa	ature	
			APPROV	/ED
		Regional E	ngineer It of Transportation	Date
		Departmen	or manaportation	

Instructions for BLR 14220

This form shall be used when a Local Public Agency (LPA) wants to perform maintenance operations using Motor Fuel Tax (MFT) funds. Refer to Chapter 14 of the Bureau of Local Roads and Streets Manual (BLRS Manual) for more detailed information. This form is to be used by a Municipality or a County. Road Districts will use BLR 14221. For signature requirements refer to Chapter 2, Section 3.05(b) of the BLRS Manual.

When filling out this form electronically, once a field is initially completed, fields requiring the same information will be auto-populated.

Resolution Number Insert the resolution number as assigned by the LPA, if applicable.

Resolution Type From the drop down box, choose the type of resolution:

-Original would be used when passing a resolution for the first time for this project.

-Supplemental would be used when passing a resolution increasing appropriation above

previously passed resolutions.

-Amended would be used when a previously passed resolution is being amended.

Section Number Insert the section number of the improvement covered by the resolution.

Governing Body Type From the drop down box choose the type of administrative body. Choose Board for County; Council or

President and Board of Trustees for a City, Village or Town.

LPA Type From the drop down box choose the LPA body type; County, City, Town or Village.

Name of LPA Insert the name of the LPA.

Resolution Amount Insert the dollar value of the resolution for maintenance to be paid for with MFT funds in words,

followed by the same amount in numerical format in the ().

Beginning Date Insert the beginning date of the maintenance period. Maintenance periods must be a 12 or 24 month

consecutive period.

Ending Date Insert the ending date of the maintenance period.

LPA Type From the drop down box choose the LPA body type; County, City, Town or Village.

Name of LPA Insert the name of the LPA.

Name of Clerk Insert the name of the LPA Clerk,

LPA Type From the drop down box choose the LPA body type; County, City, Town or Village.

LPA Type From the drop down box choose the LPA body type; County, City, Town or Village.

Name of LPA Insert the name of the LPA.

Governing Body Type From the drop down box choose the type of administrative body. Choose Board for County; Council or

President and Board of Trustees for a City, Village or Town.

Name of LPA Insert the name of the LPA.

Date Insert the date of the meeting.

Day Insert the day the Clerk signed the document.

Month, Year Insert the month and year of the clerk's signature.

Clerk Signature Clerk shall sign here.

Approved The Department of Transportation representative shall sign and date here upon approval.

A minimum of four(4) certified signed originals must be submitted to the Regional Engineer's District office.

Following the Regional Engineer's approval, distribution will be as follows:

Local Public Agency Clerk

Engineer (Municipal, Consultant or County)

District Compliance Review

District File

Printed 01/22/18 BLR 14220 (Rev. 03/13/17)



Municipal Estimate of Maintenance Costs



Submittal Type Original

Local Public Agency		c	ounty		Sect	ion Nu	mher	Beginning	Maintenan		Period iding
West Chicago			DuPage)-00-GN				2/31/18
vvoor omeage							-				
<u> </u>	1	Est	imated	Cost of Mair							
	Maint.	Inon			For	Group	o I, IIA, IIE		Item	\dashv	Est Total
Maintenance Operation (No. and Description)	Eng. Group	Rea.		Item		Unit	Quantity	Unit Price	Cost		Est Total Operation Cost
Electrical	L	N	Energy	Charges	-	ea	1	\$130,000.0	1	.00	\$130,000.00
			- 37								,
2. Street Sweeping	IIA	N	Solid W	/aste disposa	al	ea	1	\$30,000.00	\$30,000.	00	\$30,000.00
								4000 000 00	****	- 0.0	****
Street Improvements	IIB	Υ		nance/Repair	-	ea	1	\$662,900.0	\$662,900	.00	\$662,900.00
			(contra	ctual)	-					\dashv	
	-	-			-					\dashv	
					_					\dashv	
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	1									_	
	-	-			-		-			\dashv	
	-				-					\dashv	
					-					\dashv	_
	+				\neg						
Add Row					То	tal Est	timated N	Maintenance C	peration C	ost	\$822,900.00
Estimated Cost of Maintenar	ice Eng	inee	ring	Maintenan	ce P	rogra	m Estin	nated Costs			
Preliminary Engineering							nated Co		Portion		Other Funds
Engineering Inspection				Maint O		(\$822,900	0.00			
Material Testing				Maint E							
Advertising			_	То	tals		\$822,900				1000 000 00
Bridge Inspections Total Estimated Maintenance						Т	otal Estir	nated Mainten	ance Cost		\$822,900.00
Engineering Cost											
Submitted											
Municipal Official			Date		A						
						oroved	រ Engineer				
								sportation			Date
Title											
Mayor											
1					-						

Instructions for BLR 14231

This form shall be used when a Municipality wants to expend funds for a maintenance period. The maintenance estimate must include all operations to be funded with Motor Fuel Tax (MFT) funds. If operations are added during the maintenance period, a revised or supplemental estimate is required. All estimates of maintenance costs must be submitted to the district for approval prior to incurring any expenses. The amount of MFT funds expended on items covered in the estimate is limited to the amount of MFT funds appropriated in the maintenance resolution. IF rental equipment is included in the estimate, BLR 12110 must also be completed and submitted.

For additional information refer to the Bureau of Local Roads and Streets Manual (BLRS), Chapter 14. For signature requirements refer to Chapter 2, Section 3.05(b) of the BLRS Manual.

Submittal Type From the drop down, choose Original (being submitted for the first time), Revised (revising a previously

approved submittal), or Supplemental (addition to estimate(s) already approved).

Local Public Agency Insert the name of the municipality.

County Insert the name of the County in which the municipality is located.

Maintenance Period

Beginning Insert the beginning date of the maintenance period. This must be 12 or 24 consecutive months. The

dates must match those on the resolution.

Ending Insert the ending date of the maintenance period, following the above guidelines.

Estimated Cost of Maintenance Operations

To aid in determining quantities for maintenance operations, the LPA may develop their own spreadsheet containing the following information. IDOT does not provide a form for this purpose.

	Location			Surface	Maintenance Operation					
Street/Road	From	То	Existing Type	Length	Width	No	Description	Unit	Quantity	

Maintenance Operations

List each maintenance operations with a consecutive operation number. If an operation is not listed MFT funds cannot be expended for that operation.

Maint. Engineering Group

From the drop down, select the group number that applies to the maintenance operation to be performed. All maintenance operations shall require one of the following group designations.

- 1. Group I. Services purchased without a proposal such as electrical energy or materials purchased from Central Management Services' Joint Purchasing Program (www.purchase.state.il.us) or another joint purchasing program that has been approved by the District BLRS or Central BLRS.
- 2. Group II-A. Routine maintenance or maintenance items that do not require competitive sealed bids according to section 12-1.02(a) or local ordinance/resolution.
- **3. Group II-B.** Routine maintenance items that require competitive sealed bids according to Section 12-1.02(a) or a local ordinance/resolution. Routine maintenance includes all items in the following work categories: snow removal, street sweeping, lighting and traffic signal maintenance, cleaning ditches or drainage structures, tree trimming or removal, mowing, crack sealing, pavement marking, shoulder maintenance, limited amounts of CC&G repair, scour mitigation, pavement patching and minor drainage repairs.
- **4. Group III.** Maintenance items that are not covered by Group I or IIB and require competitive bidding with a material proposal or a delivery and install proposal.
- **5. Group IV.** Maintenance items that are not covered by Group I or IIB and require competitive bidding with a contract proposal.

Insp Req.

From the drop down, select 'Y' if the operation being performed requires an engineering inspection or 'N' if the operation does not need an engineering inspection.

Item

For Groups I, IIA, IIB (not performed by a formal contract), and III type operations list each item to be used in this maintenance operation. For Group IIB items being done by a formal contract and Group IV items list "by contract".

Unit

For Groups I, IIA, IIB (not performed by a formal contract), and III insert the unit of measure for each listed item.

Quantity

For Groups I, IIA, IIB (not performed by a formal contract), and III insert the estimated quantity for each listed item.

Unit Price

For Groups I, IIA, IIB (not performed by a formal contract), and III insert the estimated unit price for each listed item.

Item Cost

This is a calculated field, no entry is necessary. It calculates the quantity times the unit price.

Est. Total Operation Cost

For each operation listed, insert the total estimated cost of that operation.

Total Estimated Maintenance

This is a calculated field, no entry is necessary. It sums all the maintenance operations listed.

Operation Cost Printed 01/22/18

BLR 14231 (Rev. 05/16/17)

Estimated Cost of Maintenance Engineering

Insert the estimated cost for preliminary engineering. This will be calculated based on the maintenance Preliminary Engineering

engineering agreement.

Insert the estimated cost of engineering inspection. This will be calculated based on the maintenance **Engineering Inspection**

engineering agreement.

Material Testing Insert the estimated cost of material testing, if applicable.

Advertising Insert the estimated cost of advertising, if applicable.

Bridge Inspections Insert the estimated cost of bridge inspections, if applicable. This will be calculated based on the

engineering agreement.

Total Estimated Maintenance

Engineering Costs

This is a calculated field, no entry is necessary. It sums all the maintenance engineering costs listed.

Maintenance Program Estimated Costs

Estimated Costs For maintenance, insert the total estimated maintenance operation costs. For Maintenance

Engineering, this will be automatically inserted based on the estimated engineering costs from the

maintenance engineering table. The totals will automatically calculate.

MFT Portion For each type insert the MFT funds estimated to be used for that type. The totals will automatically

calculate.

Other Funds For each type insert the amount of other funds estimated to be used for that type. The totals will

automatically calculate.

This is a calculate field, no entry is necessary. It sums the total for estimated cost, MFT portion and other funds.

Submitted The proper municipal official shall insert their title and date here.

Upon approval the Regional Engineer shall sign and date here. Approved

A minimum of four (4) signed originals must be submitted to the Regional Engineer's District office.

Following the Regional Engineer's approval, distribution will be as follows:

Municipal Clerk

Engineer (Municipal or Consultant)

District Compliance Review

District File

Totals

CITY OF WEST CHICAGO										
INFRASTRUCTURE COMMITTEE AGENDA ITEM SUMMARY										
ITEM TITLE:	AGENDA ITEM NUMBER: 4. F.									
Resolution No. 18-R-0007 – Contract Award – 2018 Parkway Tree Planting Program	COMMITTEE AGENDA DATE: February 1, 2018 COUNCIL AGENDA DATE: February 19, 2018									
STAFF REVIEW: Robert E. Flatter, P.E., Director of Public Works	SIGNATURE									
APPROVED BY CITY ADMINISTRATOR: Michael L. Guttman	SIGNATURE									
ITEM SUMMARY:										
This project consists of providing and planting 110 parkway trees the City of West Chicago.	in various locations within the corporate limits of									
On January 5, 2017, the City advertised the 2018 Parkway Tree Planting Program in the Daily Herald. There were a total of seven plan holders and sealed bids were opened on Tuesday, January 23, 2018. Bids were received from three contractors with Acres Group, of Plainfield, Illinois, submitting the lowest responsible bid of \$28,690. The second lowest bidder was Americana Landscape Group of Elgin, Illinois, submitting a bid of \$32,030 (see attached bid tab sheet for additional clarification).										
The City of West Chicago has not previously worked with Acres G (City of Wheaton, City of Crystal Lake, and the Village of Skokie) they would use Acres Group again. Program sizes ranged from \$3	and all provided positive feedback and indicated									
Staff recommends that a contract be awarded to Acres Group, of Parkway Tree Planting Program, for an amount not to exceed \$28										
Services related to the above referenced program will be funded f which \$35,000 has been budgeted for FY2018.	rom the Capital Projects Fund (08-34-53-4854) in									
ACTIONS PROPOSED:										
ACTIONS PROPOSED.										

Approve Resolution No. 18-R-0007 authorizing the Mayor to execute a contract with Acres Group of Plainfield, Illinois, as lowest responsible bidder, to provide services related to the 2018 Parkway Tree Planting Program for an amount not to exceed \$28,690.

COMMITTEE RECOMMENDATION:

RESOLUTION NO. 18-R-0007

A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE A CONTRACT AGREEMENT WITH ACRES GROUP, FOR PROFESSIONAL SERVICES RELATED TO THE 2018 PARKWAY TREE PLANTING PROGRAM

BE IT RESOLVED by the City Council of the City of West Chicago, in regular session assembled, that the Mayor is hereby authorized to execute a Contract Agreement for Professional Services related to the 2018 Parkway Tree Planting Program between the City of West Chicago and Acres Group for an amount not to exceed \$28,690.00 in substantially the form attached hereto and incorporated herein as Exhibit "A".

APPR	OVED this 19 th day of	f February, 2018.	
AYES:	3 		
NAYES:	·		
ABSTAIN:	y		
ABSENT:	K 		
ATTEST:		Mayor Ruben Pineda	
City Clerk Na	ncy M. Smith		