



United City of Yorkville
800 Game Farm Road
Yorkville, Illinois 60560
Telephone: 630-553-4350
www.yorkville.il.us

AGENDA
SPECIAL PUBLIC WORKS COMMITTEE MEETING
Wednesday, July 21, 2021
6:00 p.m.
City Hall Conference Room
800 Game Farm Road, Yorkville, IL

Citizen Comments:

Minutes for Correction/Approval: June 15, 2021

New Business:

1. PW 2021-46 Capital Improvement Projects Update
2. PW 2021-47 Quarterly Bond and Letter of Credit Reduction Summary
3. PW 2021-48 E. Main Street Improvements – Design Engineering Agreement
4. PW 2021-49 2021 Sidewalk Program – Contract Award
5. PW 2021-50 Building Updates
6. PW 2021-51 Bucket Truck Purchase & FY 22 Budget Amendment

Old Business:

Additional Business:

2019/2020 City Council Goals – Public Works Committee		
Goal	Priority	Staff
“Municipal Building Needs & Planning”	2	Bart Olson, Rob Fredrickson, Eric Dhuse, James Jensen, Tim Evans & Erin Willrett
“Road to Better Roads Funding”	3	Bart Olson, Rob Fredrickson & Eric Dhuse
“Water Planning”	6	Eric Dhuse & Brad Sanderson
“School Safety (Exterior & Traffic)”	8 (tie)	Eric Dhuse & James Jensen
“Quiet Zones”	14 (tie)	Eric Dhuse, Erin Willrett & Brad Sanderson
“Route 47 Crossings”	19	Eric Dhuse & Brad Sanderson

UNITED CITY OF YORKVILLE
WORKSHEET
SPECIAL PUBLIC WORKS COMMITTEE
Wednesday, July 21, 2021
6:00 PM
CITY HALL CONFERENCE ROOM

CITIZEN COMMENTS:

MINUTES FOR CORRECTION/APPROVAL:

1. June 15, 2021
 - Approved _____
 - As presented
 - With corrections

NEW BUSINESS:

1. PW 2021-46 Capital Improvement Projects Update
 - Moved forward to CC _____
 - Approved by Committee _____
 - Bring back to Committee _____
 - Informational Item
 - Notes _____

2. PW 2021-47 Quarterly Bond and Letter of Credit Reduction Summary

Moved forward to CC _____

Approved by Committee _____

Bring back to Committee _____

Informational Item

Notes _____

3. PW 2021-48 E. Main Street Improvements – Design Engineering Agreement

Moved forward to CC _____

Approved by Committee _____

Bring back to Committee _____

Informational Item

Notes _____

4. PW 2021-49 2021 Sidewalk Program – Contract Award

Moved forward to CC _____

Approved by Committee _____

Bring back to Committee _____

Informational Item

Notes _____

5. PW 2021-50 Building Updates

Moved forward to CC _____

Approved by Committee _____

Bring back to Committee _____

Informational Item

Notes _____

6. PW 2021-51 Bucket Truck Purchase & FY 22 Budget Amendment

Moved forward to CC _____

Approved by Committee _____

Bring back to Committee _____

Informational Item

Notes _____

ADDITIONAL BUSINESS:



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input type="checkbox"/>
City Administrator	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Purchasing	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

Minutes

Tracking Number

Agenda Item Summary Memo

Title: Minutes of the Public Works Committee – June 15, 2021

Meeting and Date: Special Public Works Committee – July 21, 2021

Synopsis: _____

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Committee Approval

Submitted by: Minute Taker

Name

Department

Agenda Item Notes:

Have a question or comment about this agenda item?

Call us Monday-Friday, 8:00am to 4:30pm at 630-553-4350, email us at agendas@yorkville.il.us, post at www.facebook.com/CityofYorkville, tweet us at @CityofYorkville, and/or contact any of your elected officials at <http://www.yorkville.il.us/320/City-Council>

DRAFT

**UNITED CITY OF YORKVILLE
PUBLIC WORKS COMMITTEE
Tuesday, June 15, 2021, 6:00pm
Yorkville City Hall, Council Chambers
800 Game Farm Road**

In accordance with Public Act 101-0640 and Gubernatorial Disaster Proclamation issued by Governor Pritzker pursuant to the powers vested in the Governor under the Illinois Emergency Management Agency Act, the United City of Yorkville is encouraging social distancing during the pandemic by allowing remote attendance for this meeting.

IN ATTENDANCE:

Committee Members

Chairman Matt Marek, in-person

Alderman Ken Koch, in-person

Alderman Jason Peterson, in-person

Alderman Joe Plocher (arr. 6:05pm), in-person

Other City Officials

City Administrator Bart Olson, in-person

Assistant City Administrator Erin Willrett, remote

Engineer Brad Sanderson, EEI, in-person

Other Guests:

Irene Kaufman, Autumn Creek, in-person

Tom Mattera, Autumn Creek, in-person

The meeting was called to order at 6:00pm by Chairman Matt Marek.

Citizen Comments:

Ms. Kaufman said traveling in/out of the subdivision by car or on foot onto Kennedy is very difficult due to cars speeding. She thanked the city for the crosswalk signs and signs installed to slow traffic.

Previous Meeting Minutes: May 18, 2021

Chairman Marek noted a correction as follows--guest attending was Ken McKeown, (rather than Matt). The minutes were approved with that correction.

New Business:

2. PW 2021-45 Kennedy Road/Emerald Lane Traffic Control Discussion (out of sequence)

As a result of requests from staff and Aldermen, Mr. Sanderson said this location had been studied and 3 separate memos were written. One is a specific analysis of the crossing, the second suggested a possible 4-way stop and the 3rd was an update of the speed analysis performed in November.

Taking a more-in-depth look, Mr. Sanderson said the first memo is specific to the crossing. Data was collected through equipment and by an individual. He said the 45 mph is still appropriate and the current signage is appropriate. They also looked at other factors such as sight distance, lighting etc. They determined that the location does not meet the guidelines for a flashing beacon, but he said they could consider a more obvious sign, more markings or striping or flashing LED signs. The cost would be \$20-\$25,000. Mr. Olson said that is the recommendation and if it's over \$25,000, it would need Council approval. It is not currently budgeted. Alderman Peterson said he fully supports all efforts since he has witnessed cars that are not stopping for pedestrians. He said digital signs have helped, but the location is still an issue. Alderman Koch also asked about crossing guards, though the location is too far from the school. Alderman Plocher suggested pulling the flashing signs from Rt. 47, however, it was noted that in some situations, the lights give a false sense of security. Mr. Sanderson also mentioned that the location does not meet the criteria for a 4-way stop and he recommended against it.

Alderman Plocher explained to the guests about the state and national guidelines and that the city cannot arbitrarily install stop signs. Ms. Kaufman noted that parents are not allowing children to cross the intersection alone. She asked if the data was gathered during covid or while school was in session, however, the kids attended school the entire year. This matter will move to City Council on the Public Works agenda with the committee's recommendations.

1. PW 2021-44 Well Rehabilitation and Media Replacement Plan – FY 2022

Mr. Sanderson said the city had planned to rehab well #7 and improve well #4, but a short time ago Public Works noticed a decline in #4 well levels. A recommendation is being made to address #4 immediately and drop the pump to a lower level. It is also showing signs of immediate failure and is close to exceeding the radium standards. If the radium numbers improve, then well #7 will be addressed. If the media results [media removes radium] are poor, then staff would like to have immediate replacement. Recommendation is to move ahead with #4 and possible rehab of #7.

Mr. Olson said the recommendations would be put on the Council agenda with a sole source bid for lowering the #4 well and to do an RFP for the other 2 projects.

Old Business:

1. PW 2021-33 Sidewalk Locations

Mr. Olson said this is improvement for the Autumn Creek section which was pulled out of the sidewalk program. There are four options and the one being recommended is city-installed limestone aggregate at \$740. The committee was OK with the limestone option.

Additional Business: None

There was no further business and the meeting adjourned at 6:35pm

Minutes respectfully transcribed by
Marlys Young, Minute Taker, in-person



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Purchasing	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #1

Tracking Number

PW 2021-46

Agenda Item Summary Memo

Title: Capital Project Update

Meeting and Date: Special Public Works Committee – July 21, 2021

Synopsis: Status Update

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: _____

Council Action Requested: None

Submitted by: Brad Sanderson Engineering
Name Department

Agenda Item Notes:



Memorandum

To: Bart Olson, City Administrator
From: Brad Sanderson, EEI
CC: Eric Dhuse, Director of Public Works
Krysti Barksdale-Noble, Community Dev. Dir.
Lisa Pickering, City Clerk

Date: July 1, 2021
Subject: Capital Improvement Projects Update

The purpose of this memo is to update the Public Works Committee as to the status of the several projects. A summary on the status of the projects is provided below:

Construction Projects

2021 RTBR Program

D Construction is expected to be substantially complete with the base bid work by the end of July. The additional work should be substantially complete by mid-August.

Mill Road Reconstruction

Construction has begun. Work will continue until November.

Elizabeth and Appletree Court Water Main Improvements

Construction of the water main improvements on Elizabeth is nearly complete. Water main work on Appletree should begin soon. All work, including roadway and landscaping should be complete by September 1.

Fox Hill Improvements (Rebuild Illinois)

The construction contract has been approved by IDOT. A preconstruction meeting should be scheduled soon. Work is anticipated to start in early August and continue into October.

2021 Sidewalk Replacement

Bids were received on June 25th. Work is expected to start in September and to be completed by end of October.

Beaver Street BPS Generator

A preconstruction meeting should be scheduled soon. Work is expected to start in August 2021 and to be completed by February 2022.

Planning/Design Projects

Well No. 4 Rehabilitation

Design engineering has been initiated.

Kennedy and Mill Road Intersection Improvements

Design engineering is underway. Coordination with Kendall County will be taking place soon.

Bristol Ridge Road LAFO

Design engineering is underway.

AWSS Update

The study update is underway. We anticipate staff review in late August and September updated to the City Council.

Risk and Resilience Assessment and Emergency Response Plan

The RRA plan is complete and has been submitted. The ERP plan will be due in December.



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Purchasing	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #2

Tracking Number

PW 2021-47

Agenda Item Summary Memo

Title: Bond/LOC Reduction Summary – June 30, 2021

Meeting and Date: Special Public Works Committee – July 21, 2021

Synopsis: Informational

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: _____

Council Action Requested: Informational

Submitted by: Brad Sanderson Engineering
Name Department

Agenda Item Notes:



Memorandum

To: Bart Olson, City Administrator
From: Brad Sanderson, EEI
CC: Eric Dhuse, Director of Public Works
Krysti Barksdale-Noble, Community Dev. Dir.
Lisa Pickering, City Clerk

Date: July 1, 2021
Subject: 2021 Bond/LOC Reduction Summary – To Date

Please see the attached reduction summary through June 30, 2021. If you have any questions, please let me know.

2021 Bond and Letter of Credit Reduction Report

Date	Development/Project	Engineer Concurrence	City Administrator Concurrence	Mayor Concurrence	Reduction	Final Release	Reduction Value	Remaining Balance
1/12/2021	Grande Reserve - Unit 23	X	X		X		\$ 1,024,153.05	\$ 856,777.79
1/25/2021	Popeye's - Lot 4 Mendards Commons	X	X			X	\$ 40,892.00	\$ 40,892.00
3/23/2021	Kendall Marketplace Townhomes - Lot 52 (Phase 1)	X	X		X		\$ 612,355.00	\$ 163,898.00
5/4/2021	Restore Church	X	X			X	\$ 9,600.00	\$ -



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Community Development	<input type="checkbox"/>
Purchasing	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #3

Tracking Number

PW 2021-48

Agenda Item Summary Memo

Title: E. Main Street Improvements – Design Engineering Agreement

Meeting and Date: Special Public Works Committee – July 21, 2021

Synopsis: _____

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Approval

Submitted by: Bart Olson Administration
Name Department

Agenda Item Notes:



Memorandum

To: City Council
From: Bart Olson, City Administrator
CC:
Date: July 15, 2021
Subject: E Main St watermain improvements

Summary

Approval of a design engineering agreement with EEI for the East Main Street watermain project.

Background

The City Council last discussed this project during the Fall 2020 discussions on the Road to Better Roads program, and during the FY 22 budget approval process. This watermain project is funded in the water fund, Road to Better Roads line-item. The project will result in a new watermain and new pavement on East Main Street generally between Route 47 and Bruell St. Accordingly, EEI has submitted a design engineering agreement for our consideration.

The attached design engineering agreement contains a \$96,015 fixed fee amount. This amount is included in the FY 22 budget.

Recommendation

Staff recommends approval of a design engineering agreement with EEI for the East Main watermain project.

**E. Main Street Improvements
United City of Yorkville, Kendall County, IL
Professional Services Agreement - Design Engineering**

THIS AGREEMENT, by and between the United City of Yorkville, hereinafter referred to as the "City" or "OWNER" and Engineering Enterprises, Inc. hereinafter referred to as the "Contractor" or "ENGINEER" agrees as follows:

A. Services:

ENGINEER agrees to furnish to the City the following services: The ENGINEER shall provide any and all necessary engineering services to the City as indicated on the Scope of Services (Attachment B). Design engineering will be provided for approximately 1,900 linear feet of 8-inch water main improvements on E. Main Street. In addition, the street will be milled and resurfaced from IL Route 47 to Bruell. Sidewalk replacement will also be included. (see Attachment E for project limits). Engineering will be in accordance with all City, Standard Specifications for Water and Sewer Construction in Illinois, Illinois Department of Transportation, and Illinois Environmental Protection Agency requirements.

B. Term:

Services will be provided beginning on the date of execution of this agreement and continuing, until terminated by either party upon 7 days written notice to the non-terminating party or upon completion of the Services. Upon termination the ENGINEER shall be compensated for all work performed for the City prior to termination.

C. Compensation and maximum amounts due to ENGINEER:

ENGINEER shall receive as compensation for all work and services to be performed herein, an amount based on the Estimate of Level of Effort and Associated Cost included in Attachment C. Design Engineering will be paid for as a Fixed Fee (FF) in the amount of \$96,015. Direct expenses are estimated at \$4,100. The hourly rates for this project are shown in the attached 2021 Standard Schedule of Charges (Attachment F). All payments will be made according to the Illinois State Prompt Payment Act and not less than once every thirty days.

D. Changes in Rates of Compensation:

In the event that this contract is designated in Section B hereof as an Ongoing Contract, ENGINEER, on or before February 1st of any given year, shall provide written notice of any change in the rates specified in Section C hereof (or on any attachments hereto) and said changes shall only be effective on and after May 1st of that same year.

E. Ownership of Records and Documents:

ENGINEER agrees that all books and records and other recorded information developed specifically in connection with this agreement shall remain the property of the City. ENGINEER agrees to keep such information confidential and not to disclose or disseminate the information to third parties without the consent of the City. This confidentiality shall not apply to material or information, which would otherwise be subject to public disclosure through the freedom of information act or if already previously disclosed by a third party. Upon termination of this agreement, ENGINEER agrees to return all such materials to the City. The City agrees not to modify any original documents produced by ENGINEER without contractors consent. Modifications of any signed duplicate original document not authorized by ENGINEER will be at OWNER's sole risk and without legal liability to the ENGINEER. Use of any incomplete, unsigned document will, likewise, be at the OWNER's sole risk and without legal liability to the ENGINEER.

F. Governing Law:

This contract shall be governed and construed in accordance with the laws of the State of Illinois. Venue shall be in Kendall County, Illinois.

G. Independent Contractor:

ENGINEER shall have sole control over the manner and means of providing the work and services performed under this agreement. The City's relationship to the ENGINEER under this agreement shall be that of an independent contractor. ENGINEER will not be considered an employee to the City for any purpose.

H. Certifications:

Employment Status: The Contractor certifies that if any of its personnel are an employee of the State of Illinois, they have permission from their employer to perform the service.

Anti-Bribery: The Contractor certifies it is not barred under 30 Illinois Compiled Statutes 500/50-5(a) - (d) from contracting as a result of a conviction for or admission of bribery or attempted bribery of an officer or employee of the State of Illinois or any other state.

Loan Default: If the Contractor is an individual, the Contractor certifies that he/she is not in default for a period of six months or more in an amount of \$600 or more on the repayment of any educational loan guaranteed by the Illinois State Scholarship Commission made by an Illinois institution of higher education or any other loan made from public funds for the purpose of financing higher education (5 ILCS 385/3).

*E. Main Street Improvements
United City of Yorkville
Professional Services Agreement
Design Engineering*

Felony Certification: The Contractor certifies that it is not barred pursuant to 30 Illinois Compiled Statutes 500/50-10 from conducting business with the State of Illinois or any agency as a result of being convicted of a felony.

Barred from Contracting: The Contractor certifies that it has not been barred from contracting as a result of a conviction for bid-rigging or bid rotating under 720 Illinois Compiled Statutes 5/33E or similar law of another state.

Drug Free Workplace: The Contractor certifies that it is in compliance with the Drug Free Workplace Act (30 Illinois Compiled Statutes 580) as of the effective date of this contract. The Drug Free Workplace Act requires, in part, that Contractors, with 25 or more employees certify and agree to take steps to ensure a drug free workplace by informing employees of the dangers of drug abuse, of the availability of any treatment or assistance program, of prohibited activities and of sanctions that will be imposed for violations; and that individuals with contracts certify that they will not engage in the manufacture, distribution, dispensation, possession, or use of a controlled substance in the performance of the contract.

Non-Discrimination, Certification, and Equal Employment Opportunity: The Contractor agrees to comply with applicable provisions of the Illinois Human Rights Act (775 Illinois Compiled Statutes 5), the U.S. Civil Rights Act, the Americans with Disabilities Act, Section 504 of the U.S. Rehabilitation Act and the rules applicable to each. The equal opportunity clause of Section 750.10 of the Illinois Department of Human Rights Rules is specifically incorporated herein. The Contractor shall comply with Executive Order 11246, entitled Equal Employment Opportunity, as amended by Executive Order 11375, and as supplemented by U.S. Department of Labor regulations (41 C.F.R. Chapter 60). The Contractor agrees to incorporate this clause into all subcontracts under this Contract.

International Boycott: The Contractor certifies that neither it nor any substantially owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the U.S. Export Administration Act of 1979 or the regulations of the U.S. Department of Commerce promulgated under that Act (30 ILCS 582).

Record Retention and Audits: If 30 Illinois Compiled Statutes 500/20-65 requires the Contractor (and any subcontractors) to maintain, for a period of 3 years after the later of the date of completion of this Contract or the date of final payment under the Contract, all books and records relating to the performance of the Contract and necessary to support amounts charged to the City under the Contract. The Contract and all books and records related to the Contract shall be available for review and audit by the City and the Illinois Auditor General. If this Contract is funded from contract/grant funds provided by the U.S. Government, the Contract, books, and records shall be available for review and audit by the Comptroller General of the U.S. and/or the Inspector General of the federal

*E. Main Street Improvements
United City of Yorkville
Professional Services Agreement
Design Engineering*

sponsoring agency. The Contractor agrees to cooperate fully with any audit and to provide full access to all relevant materials.

United States Resident Certification: (This certification must be included in all contracts involving personal services by non-resident aliens and foreign entities in accordance with requirements imposed by the Internal Revenue Services for withholding and reporting federal income taxes.) The Contractor certifies that he/she is a: United States Citizen
 Resident Alien Non-Resident Alien The Internal Revenue Service requires that taxes be withheld on payments made to non resident aliens for the performance of personal services at the rate of 30%.

Tax Payer Certification : Under penalties of perjury, the Contractor certifies that its Federal Tax Payer Identification Number or Social Security Number is (provided separately) and is doing business as a (check one): Individual Real Estate Agent Sole Proprietorship Government Entity Partnership Tax Exempt Organization (IRC 501(a) only) Corporation Not for Profit Corporation
 Trust or Estate Medical and Health Care Services Provider Corp.

I. Indemnification:

ENGINEER shall indemnify and hold harmless the City and City's agents, servants, and employees against all loss, damage, and expense which it may sustain or for which it will become liable on account of injury to or death of persons, or on account of damage to or destruction of property resulting from the performance of work under this agreement by ENGINEER or its Subcontractors, or due to or arising in any manner from the wrongful act or negligence of ENGINEER or its Subcontractors of any employee of any of them. In the event that the either party shall bring any suit, cause of action or counterclaim against the other party, the non-prevailing party shall pay to the prevailing party the cost and expenses incurred to answer and/or defend such action, including reasonable attorney fees and court costs. In no event shall the either party indemnify any other party for the consequences of that party's negligence, including failure to follow the ENGINEER's recommendations.

J. Insurance:

The ENGINEER agrees that it has either attached a copy of all required insurance certificates or that said insurance is not required due to the nature and extent of the types of services rendered hereunder. (Not applicable as having been previously supplied)

K. Additional Terms or Modification:

The terms of this agreement shall be further modified as provided on the attachments. Except for those terms included on the attachments, no additional terms are included as a part of this agreement. All prior understandings and agreements between the parties are merged into this agreement, and this agreement may not be modified orally or in any

*E. Main Street Improvements
United City of Yorkville
Professional Services Agreement
Design Engineering*

manner other than by an agreement in writing signed by both parties. In the event that any provisions of this agreement shall be held to be invalid or unenforceable, the remaining provisions shall be valid and binding on the parties. The list of exhibits is as follows:

- Attachment A:** Standard Terms and Conditions
- Attachment B:** Scope of Services
- Attachment C:** Estimate of Level of Effort and Associated Cost
- Attachment D:** Anticipated Project Schedule
- Attachment E:** Location Map
- Attachment F:** 2021 Standard Schedule of Charges

L. Notices:

All notices required to be given under the terms of this agreement shall be given mail, addressed to the parties as follows:

For the City:

City Administrator and City Clerk
United City of Yorkville
800 Game Farm Road
Yorkville, IL 60560

For the ENGINEER:

Engineering Enterprises, Inc.
52 Wheeler Road
Sugar Grove Illinois 60554

Either of the parties may designate in writing from time to time substitute addresses or persons in connection with required notices.

Agreed to this ____ day of _____, 2021.

United City of Yorkville:

Engineering Enterprises, Inc.:

John Purcell
Mayor

Brad Sanderson, P.E.
Chief Operating Officer / President

Jori Behland
Deputy City Clerk

Angie Smith
Executive Assistant

STANDARD TERMS AND CONDITIONS

Agreement: These Standard Terms and Conditions, together with the Professional Services Agreement, constitute the entire integrated agreement between the OWNER and Engineering Enterprises, Inc. (EEI) (hereinafter "Agreement"), and take precedence over any other provisions between the Parties. These terms may be amended, but only if both parties consent in writing.

Standard of Care: In providing services under this Agreement, the ENGINEER will endeavor to perform in a matter consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under same circumstances in the same locality. ENGINEER makes no other warranties, express or implied, written or oral under this Agreement or otherwise, in connection with ENGINEER'S service.

Construction Engineering and Inspection: The ENGINEER shall not supervise, direct, control, or have authority over any contractor work, nor have authority over or be responsible for the means, methods, techniques sequences, or procedures of construction selected or used by any contractor, or the safety precautions and programs incident thereto, for security or safety of the site, nor for any failure of a contractor to comply with laws and regulations applicable to such contractor's furnishing and performing of its work.

The ENGINEER neither guarantees the performance of any contractor nor assumes responsibility for contractor's failure to furnish and perform the work in accordance with the contract documents.

The ENGINEER is not responsible for the acts or omissions of any contractor, subcontractor, or supplies, or any of their agents or employees or any other person at the site or otherwise furnishing or performing any work.

Shop drawing and submittal review by the ENGINEER shall apply to only the items in the submissions and only for the purpose of assessing if upon installation or incorporation in the project work they are generally consistent with the construction documents. OWNER agrees that the contractor is solely responsible for the submissions and for compliance with the construction documents. OWNER further agrees that the ENGINEER'S review and action in relation to these submissions shall not constitute the provision of means, methods, techniques, sequencing or procedures of construction or extend or safety programs or precautions. The ENGINEER'S consideration of a component does not constitute acceptance of the assembled items.

The ENGINEER'S site observation during construction shall be at the times agreed upon in the Project Scope. Through standard, reasonable means the ENGINEER will become generally familiar with observable completed work. If the ENGINEER observes completed work that is inconsistent with the construction documents, that information shall be communicated to the contractor and OWNER for them to address.

Opinion of Probable Construction Costs: ENGINEER'S opinion of probable construction costs represents ENGINEER'S best and reasonable judgment as a professional engineer. OWNER acknowledges that ENGINEER has no control over construction costs of contractor's methods of determining pricing, or over competitive bidding by contractors, or of market conditions or changes thereto. ENGINEER cannot and does not guarantee that proposals, bids or actual construction costs will not vary from ENGINEER'S opinion of probable construction costs.

Copies of Documents & Electronic Compatibility: Copies of Documents that may be relied upon by OWNER are limited to the printed copies (also known as hard copies) that are signed or sealed by the ENGINEER. Files in electronic media format of text, data, graphics, or of other types that are furnished by ENGINEER to OWNER are only for convenience of OWNER. Any conclusion or information obtained or derived from such electronic files will be at the user's sole risk. When transferring documents in electronic media format, ENGINEER makes no representations as to long term compatibility, usability, or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by ENGINEER at the beginning of the project.

Changed Conditions: If, during the term of this Agreement, circumstances or conditions that were not originally contemplated by or known to the ENGINEER are revealed, to the extent that they affect the scope of services, compensation, schedule, allocation of risks, or other material terms of this Agreement, the ENGINEER may call for renegotiation of appropriate portions of this Agreement. The ENGINEER shall notify the OWNER of the changed conditions necessitating renegotiation, and the ENGINEER and the OWNER shall promptly and in good faith enter into renegotiation of this Agreement to address the changed conditions. If terms cannot be agreed to, the parties agree that either party has the absolute right to terminate this Agreement, in accordance with the termination provision hereof.

Hazardous Conditions: OWNER represents to ENGINEER that to the best of its knowledge no Hazardous Conditions (environmental or otherwise) exist on the project site. If a Hazardous Condition is encountered or alleged, ENGINEER shall have the obligation to notify OWNER and, to the extent of applicable Laws and Regulations, appropriate governmental officials. It is acknowledged by both parties that ENGINEER's scope of services does not include any services related to a Hazardous Condition. In the event ENGINEER or any other party encounters a Hazardous Condition, ENGINEER may, at its option and without liability for consequential or any other damages, suspend performance of services on the portion of the project affected thereby until OWNER: (i) retains appropriate specialist consultant(s) or contractor(s) to identify and, as appropriate, abate, remediate, or remove the Hazardous Condition; and (ii) warrants that the project site is in full compliance with applicable Laws and Regulations.

Consequential Damages: Notwithstanding any other provision of this Agreement, and to the fullest extent permitted by law, neither the OWNER nor the ENGINEER, their respective officers, directors, partners, employees, contractors, or subcontractors shall be liable to the other or shall make any claim for any incidental, indirect, or consequential damages arising out of or

connected in any way to the Project or to this Agreement. This mutual waiver of consequential damages shall include, but is not limited to, loss of use, loss of profit, loss of business, loss of income, loss of reputation, or any other consequential damages that either party may have incurred from any cause of action including negligence, strict liability, breach of contract, and breach of strict or implied warranty. Both the OWNER and the ENGINEER shall require similar waivers of consequential damages protecting all the entities or persons named herein in all contracts and subcontracts with others involved in this project.

Termination: This Agreement may be terminated for convenience, without cause, upon fourteen (14) days written notice of either party. In the event of termination, the ENGINEER shall prepare a final invoice and be due compensation as set forth in the Professional Services Agreement for all costs incurred through the date of termination.

Either party may terminate this Agreement for cause upon giving the other party not less than seven (7) calendar days' written notice for the following reasons:

- (a) Substantial failure by the other party to comply with or perform in accordance with the terms of the Agreement and through no fault of the terminating party;
- (b) Assignment of the Agreement or transfer of the project without the prior written consent of the other party;
- (c) Suspension of the project or the ENGINEER'S services by the OWNER for a period of greater than ninety (90) calendar days, consecutive or in the aggregate.
- (d) Material changes in the conditions under which this Agreement was entered into, the scope of services or the nature of the project, and the failure of the parties to reach agreement on the compensation and schedule adjustments necessitated by such changes.

Third Party Beneficiaries: Nothing contained in this Agreement shall create a contractual relationship with or a cause of action in favor of a third party against either the OWNER or the ENGINEER. The ENGINEER'S services under this Agreement are being performed solely and exclusively for the OWNER'S benefit, and no other party or entity shall have any claim against the ENGINEER because of this Agreement or the performance or nonperformance of services hereunder. The OWNER and ENGINEER agree to require a similar provision in all contracts with contractors, subcontractors, vendors and other entities involved in this Project to carry out the intent of this provision.

Force Majeure: Each Party shall be excused from the performance of its obligations under this Agreement to the extent that such performance is prevented by force majeure (defined below) and the nonperforming party promptly provides notice of such prevention to the other party. Such excuse shall be continued so long as the condition constituting force majeure continues. The party affected by such force majeure also shall notify the other party of the anticipated duration of such force majeure, any actions being taken to avoid or minimize its effect after such occurrence, and shall take reasonable efforts to remove the condition constituting such force majeure. For purposes of this Agreement, "force majeure" shall include

conditions beyond the control of the parties, including an act of God, acts of terrorism, voluntary or involuntary compliance with any regulation, law or order of any government, war, acts of war (whether war be declared or not), labor strike or lock-out, civil commotion, epidemic, failure or default of public utilities or common carriers, destruction of production facilities or materials by fire, earthquake, storm or like catastrophe. The payment of invoices due and owing hereunder shall in no event be delayed by the payer because of a force majeure affecting the payer.

Additional Terms or Modification: All prior understandings and agreements between the parties are merged into this Agreement, and this Agreement may not be modified orally or in any manner other than by an Agreement in writing signed by both parties. In the event that any provisions of this Agreement shall be held to be invalid or unenforceable, the remaining provisions shall be valid and binding on the parties.

Assignment: Neither party to this Agreement shall transfer or assign any rights or duties under or interest in this Agreement without the prior written consent of the other party. Subcontracting normally contemplated by the ENGINEER shall not be considered an assignment for purposes of this Agreement.

Waiver: A party's waiver of, or the failure or delay in enforcing any provision of this Agreement shall not constitute a waiver of the provision, nor shall it affect the enforceability of that provision or of the remainder of this Agreement.

Attorney's Fees: In the event of any action or proceeding brought by either party against the other under this Agreement, the prevailing party shall be entitled to recover from the other all costs and expenses including without limitation the reasonable fees of its attorneys in such action or proceeding, including costs of appeal, if any, in such amount as the Court may adjudge reasonable.

Headings: The headings used in this Agreement are inserted only as a matter of convenience only, and in no way define, limit, enlarge, modify, explain or define the text thereof nor affect the construction or interpretation of this Agreement.

**E. Main Street Improvements
United City of Yorkville, IL
Professional Services Agreement - Design Engineering**

Attachment B – Scope of Services

DESIGN ENGINEERING

2.1 Project Management and Administration

- Budget Tracking
- Management of Personnel and the Engineering Contract
- Coordination with the City and Other Regulatory Agencies (IEPA and IDOT)

2.2 Project Meetings

- Project Kick-Off Meeting Between the City and EEI
- One (1) Design Progress Meeting Between the City and EEI prior to Bidding

2.3 Topographic Survey

- Field Survey
- Drafting to Create Base File

2.4 Utility Coordination

- Design JULIE
- Plan Submission and Coordinate with Private Utilities

2.5 Final Plans, Specifications and Estimates

- Preparation of 60%, 90%, and 100% Engineering Plans
- Preparation of 90% and 100% Project Manual and Engineer's Opinion of Probable Construction Cost. Project Manual Shall Include Bidding and Contract Documents, General Conditions, and Special Provisions.

2.6 Permits

- Prepare IEPA Documentation for CCDD Management of Soils
- Prepare IEPA Construction Permit Application and Acquire Permit
- Prepare IDOT and Acquire IDOT Permit for Work Along IDOT Right-of-Way

2.7 Bidding and Contracting

- Prepare Bidders List and Ad for Bid
- Submit Ad for Bid to the Local Paper and Post Bidding Documents on QuestCDN
- Address Bid Questions and Prepare Addenda
- Attend Bid Opening
- Prepare Bid Tab, Bid Summary, and Recommendation of Award
- Execute Contract Documents



Outstanding Service ~ Every Client ~ Every Day

ATTACHMENT C
ESTIMATE OF LEVEL OF EFFORT AND ASSOCIATED COST FOR
PROFESSIONAL ENGINEERING SERVICES FOR
 E. MAIN STREET IMPROVEMENTS
 United City of Yorkville, IL
 July 9, 2021

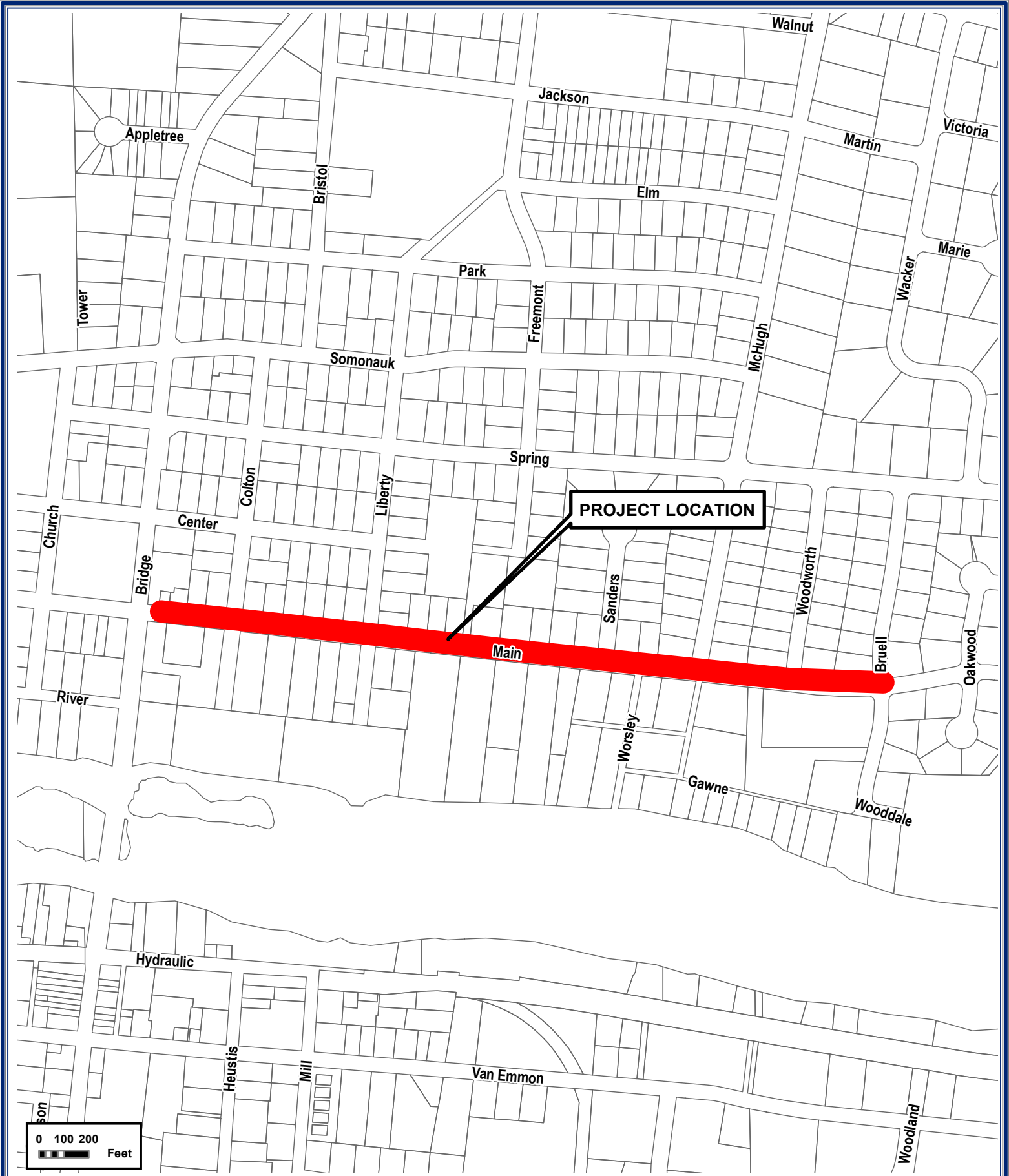


WORK ITEM NO.	WORK ITEM	ENTITY:	ENGINEERING				SURVEYING			DRAFTING		ADMIN.	WORK ITEM HOUR SUMM.	COST PER ITEM
		PROJECT ROLE:	PRINCIPAL IN CHARGE	SENIOR PROJECT MANAGER	SENIOR PROJECT ENGINEER	PROJECT ENGINEER	SENIOR PROJECT MANAGER	PROJECT MANAGER	SENIOR PROJECT TECHNICIAN II	CAD MANAGER	SENIOR PROJECT TECHNICIAN I	ADMIN.		
		HOURLY RATE:	\$217	\$212	\$162	\$147	\$206	\$185	\$158	\$158	\$147	\$70		
DESIGN ENGINEERING														
2.1	Project Management and Administration		4	28	14	-	-	-	-	-	-	-	46	\$ 9,072
2.2	Project Meetings		2	2	8	-	-	-	-	-	-	-	12	\$ 2,154
2.3	Topographic Survey		-	-	-	-	24	-	60	-	-	-	84	\$ 14,424
2.4	Utility Coordination		-	-	10	-	-	-	-	-	-	-	10	\$ 1,620
2.5	Final Plans, Specifications and Estimates		5	36	120	55	-	-	-	12	136	-	364	\$ 58,130
2.6	Permits		-	-	11	-	-	-	-	-	-	-	11	\$ 1,782
2.7	Bidding and Contracting		1	6	17	-	-	-	-	-	-	7	31	\$ 4,733
Design Engineering Subtotal:			12	72	180	55	24	-	60	12	136	7	558	\$ 91,915
PROJECT TOTAL:			12	72	180	55	24	-	60	12	136	7	558	91,915

DIRECT EXPENSES	
Printing =	\$ 100
Mileage =	\$ -
Geotechnical =	\$ 4,000
Environmental Assessment =	\$ -
DIRECT EXPENSES =	\$ 4,100

LABOR SUMMARY	
Engineering Expenses =	\$ 55,113
Surveying Expenses =	\$ 14,424
Drafting Expenses =	\$ 21,888
Administrative Expenses =	\$ 490
TOTAL LABOR EXPENSES =	\$ 91,915

TOTAL EXPENSES =	\$ 96,015
-------------------------	------------------



Engineering Enterprises
 52 Wheeler Road
 Sugar Grove, Illinois 60554
 (630) 466-6700
www.eeiweb.com

DATE:	MAY 2021
PROJECT NO.:	YO2124
BY:	MJT
PATH:	H:\GIS\PUBLIC\YORKVILLE\2011\
FILE:	YO2124 - E Main Street Water Main.mxd

**EAST MAIN STREET
 IMPROVEMENTS
 LOCATION MAP**



*Standard Schedule of Charges**January 1, 2021*

EMPLOYEE DESIGNATION	CLASSIFICATION	HOURLY RATE
Senior Principal	E-4	\$217.00
Principal	E-3	\$212.00
Senior Project Manager	E-2	\$206.00
Project Manager	E-1	\$185.00
Senior Project Engineer/Planner/Surveyor II	P-6	\$174.00
Senior Project Engineer/Planner/Surveyor I	P-5	\$162.00
Project Engineer/Planner/Surveyor	P-4	\$147.00
Senior Engineer/Planner/Surveyor	P-3	\$135.00
Engineer/Planner/Surveyor	P-2	\$123.00
Associate Engineer/Planner/Surveyor	P-1	\$110.00
Senior Project Technician II	T-6	\$158.00
Senior Project Technician I	T-5	\$147.00
Project Technician	T-4	\$135.00
Senior Technician	T-3	\$123.00
Technician	T-2	\$110.00
Associate Technician	T-1	\$ 97.00
GIS Technician	G-1	\$100.00
Engineering/Land Surveying Intern	I-1	\$ 79.00
Administrative Assistant	A-3	\$ 70.00

VEHICLES, REPROGRAPHICS, DIRECT COSTS, DRONE AND EXPERT TESTIMONY

Vehicle for Construction Observation		\$ 15.00
In-House Scanning and Reproduction	\$0.25/Sq. Ft. (Black & White) \$1.00/Sq. Ft. (Color)	
Reimbursable Expenses (Direct Costs)	Cost	
Services by Others (Direct Costs)	Cost + 10%	
Unmanned Aircraft System / Unmanned Aerial Vehicle / Drone		\$ 200.00
Expert Testimony		\$ 250.00



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Community Development	<input type="checkbox"/>
Purchasing	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #4

Tracking Number

PW 2021-49

Agenda Item Summary Memo

Title: 2021 Sidewalk Program

Meeting and Date: Special Public Works Committee – July 21, 2021

Synopsis: 2021 Sidewalk Program – Recommendation to Award

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Consideration of Contract Award

Submitted by: Brad Sanderson Engineering
Name Department

Agenda Item Notes:



Memorandum

To: Bart Olson, City Administrator
From: Brad Sanderson, EEI
CC: Eric Dhuse, Director of Public Works
Lisa Pickering, City Clerk
Rob Fredrickson, Finance Director

Date: July 2, 2021
Subject: 2021 Sidewalk Program

Bids were received, opened and tabulated for work to be done on the 2021 Sidewalk Program at 10:00 a.m., June 25, 2021. Representatives of contractors bidding the project, the City, and our firm were in attendance. A tabulation of the bids and the engineer's estimate is attached for your information and record. The low bid was below our engineer's estimate and within the FY2022 budget.

We recommend the acceptance of the bid and approval of award be made to the low bidder, Schroeder & Schroeder, Inc., 7306 Central Park, Skokie, IL 60076, in the amount of **\$139,654.75**.

If you have any questions or require additional information, please let us know.

**BID TABULATION
2021 SIDEWALK PROGRAM
UNITED CITY OF YORKVILLE**

		BID TABULATION BIDS RECD 6/25/2021		SCHROEDER & SCHROEDER 7306 Central Park Skokie, IL 60076		D'LAND CONSTRUCTION, LLC 1300 Chase Street Algonquin, IL 60102		GENEVA CONSTRUCTION PO Box 998 Aurora, IL 60507		DAVIS CONCRETE CONSTRUCTION CO 11244 W. Manhattan Monee Road Monee, IL 60449		TRIGGI CONSTRUCTION INC PO Box 235 West Chicago, IL 60186		ADVANTAGE PAVING SOLUTIONS INC 20502 S. Cherry Hill Road Joliet, IL 60433		ALLIANCE CONTRACTORS INC 1166 Lake Avenue Woodstock, IL 60098		ENGINEER'S ESTIMATE 52 Wheeler Road Sugar Grove, IL 60554	
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
1	TREE REMOVAL, OVER 15 UNIT DIAMETER	UNIT	36	\$ 75.00	\$ 2,700.00	\$ 65.00	\$ 2,340.00	\$ 35.00	\$ 1,260.00	\$ 35.00	\$ 1,260.00	\$ 50.00	\$ 1,800.00	\$ 130.00	\$ 4,680.00	\$ 35.00	\$ 1,260.00	\$ 50.00	\$ 1,800.00
2	TREE ROOT PRUNING	EACH	22	\$ 100.00	\$ 2,200.00	\$ 90.00	\$ 1,980.00	\$ 125.00	\$ 2,750.00	\$ 35.00	\$ 770.00	\$ 150.00	\$ 3,300.00	\$ 130.00	\$ 2,860.00	\$ 135.00	\$ 2,970.00	\$ 100.00	\$ 2,200.00
3	SIDEWALK REMOVAL	SQ FT	12,629	\$ 1.00	\$ 12,629.00	\$ 1.10	\$ 13,891.90	\$ 1.65	\$ 20,837.85	\$ 2.75	\$ 34,729.75	\$ 2.00	\$ 25,258.00	\$ 3.00	\$ 37,887.00	\$ 1.50	\$ 18,943.50	\$ 1.50	\$ 18,943.50
4	PORTLAND CEMENT CONCRETE SIDEWALK, 5-INCH	SQ FT	12,689	\$ 6.75	\$ 85,650.75	\$ 7.10	\$ 90,091.90	\$ 8.00	\$ 101,512.00	\$ 7.25	\$ 91,995.25	\$ 8.50	\$ 107,856.50	\$ 9.10	\$ 115,469.90	\$ 13.00	\$ 164,957.00	\$ 7.00	\$ 88,823.00
5	CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT	FOOT	19	\$ 45.00	\$ 855.00	\$ 30.00	\$ 570.00	\$ 64.00	\$ 1,216.00	\$ 75.00	\$ 1,425.00	\$ 50.00	\$ 950.00	\$ 87.50	\$ 1,662.50	\$ 100.00	\$ 1,900.00	\$ 50.00	\$ 950.00
6	AGGREGATE DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH	SQ YD	43	\$ 38.00	\$ 1,634.00	\$ 70.00	\$ 3,010.00	\$ 19.50	\$ 838.50	\$ 35.00	\$ 1,505.00	\$ 35.00	\$ 1,505.00	\$ 20.00	\$ 860.00	\$ 40.00	\$ 1,720.00	\$ 10.00	\$ 430.00
7	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3-INCH	SQ YD	209	\$ 47.00	\$ 9,823.00	\$ 45.00	\$ 9,405.00	\$ 36.00	\$ 7,524.00	\$ 85.00	\$ 17,765.00	\$ 75.00	\$ 15,675.00	\$ 57.00	\$ 11,913.00	\$ 65.00	\$ 13,585.00	\$ 60.00	\$ 12,540.00
8	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 2-INCH	SQ YD	26	\$ 45.00	\$ 1,170.00	\$ 30.00	\$ 780.00	\$ 25.00	\$ 650.00	\$ 80.00	\$ 2,080.00	\$ 60.00	\$ 1,560.00	\$ 52.00	\$ 1,352.00	\$ 60.00	\$ 1,560.00	\$ 50.00	\$ 1,300.00
9	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH	SQ YD	4	\$ 72.00	\$ 288.00	\$ 90.00	\$ 360.00	\$ 50.00	\$ 200.00	\$ 25.00	\$ 100.00	\$ 15.00	\$ 60.00	\$ 14.50	\$ 58.00	\$ 25.00	\$ 100.00	\$ 125.00	\$ 500.00
10	DETECTABLE WARNINGS	SQ FT	140	\$ 35.00	\$ 4,900.00	\$ 30.00	\$ 4,200.00	\$ 26.00	\$ 3,640.00	\$ 35.00	\$ 4,900.00	\$ 30.00	\$ 4,200.00	\$ 30.00	\$ 4,200.00	\$ 25.00	\$ 3,500.00	\$ 30.00	\$ 4,200.00
11	PAVEMENT MARKING, 4"	FOOT	147	\$ 20.00	\$ 2,940.00	\$ 23.50	\$ 3,454.50	\$ 20.00	\$ 2,940.00	\$ 23.50	\$ 3,454.50	\$ 20.00	\$ 2,940.00	\$ 8.00	\$ 1,176.00	\$ 23.50	\$ 3,454.50	\$ 10.00	\$ 1,470.00
12	RESTORATION (SEED, FERTILIZER, MULCH METHOD 3)	SQ YD	1,115	\$ 1.00	\$ 1,115.00	\$ 20.00	\$ 22,300.00	\$ 13.00	\$ 14,495.00	\$ 10.00	\$ 11,150.00	\$ 10.00	\$ 11,150.00	\$ 11.00	\$ 12,265.00	\$ 2.00	\$ 2,230.00	\$ 10.00	\$ 11,150.00
13	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	\$ 3,750.00	\$ 3,750.00	\$ 5,500.00	\$ 5,500.00	\$ 4,000.00	\$ 4,000.00	\$ 7,000.00	\$ 7,000.00	\$ 2,500.00	\$ 2,500.00	\$ 4,500.00	\$ 4,500.00	\$ 500.00	\$ 500.00	\$ 3,500.00	\$ 3,500.00
14	ALLOWANCE - ITEMS ORDERED BY THE ENGINEER	UNIT	10,000	\$ 1.00	\$ 10,000.00	\$ 1.00	\$ 10,000.00	\$ 1.00	\$ 10,000.00	\$ 1.00	\$ 10,000.00	\$ 1.00	\$ 10,000.00	\$ 1.00	\$ 10,000.00	\$ 1.00	\$ 10,000.00	\$ 1.00	\$ 10,000.00
	BID TOTAL				\$ 139,654.75		\$ 167,883.30		\$ 171,863.35		\$ 188,134.50		\$ 188,754.50		\$ 208,883.40		\$ 226,680.00		\$ 157,806.50

% BELOW/ABOVE ENGINEER'S ESTIMATE

-11.50%

6.39%

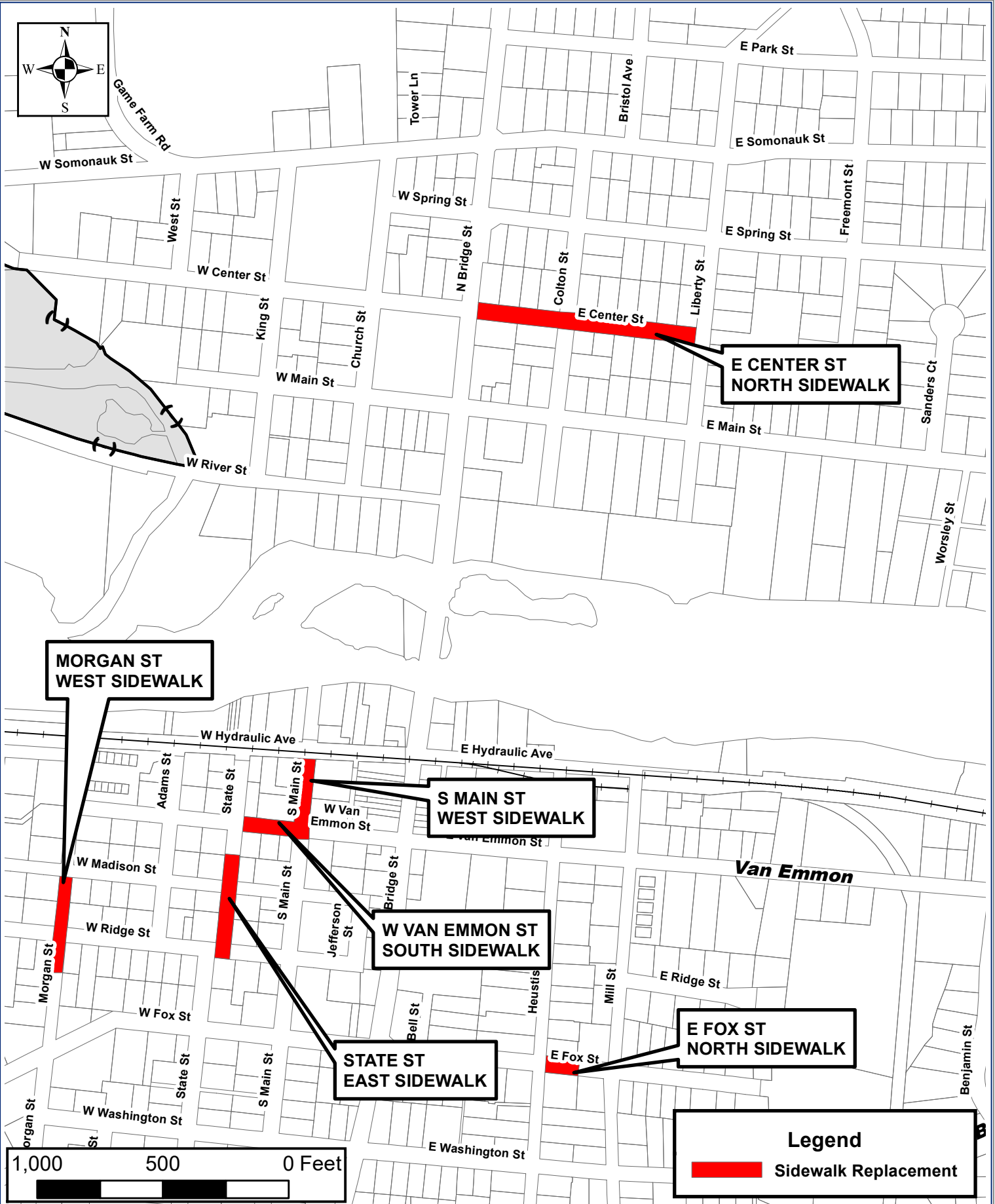
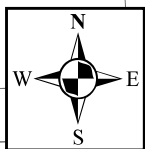
8.91%

19.22%

19.61%

32.37%

43.64%



**E CENTER ST
NORTH SIDEWALK**

**MORGAN ST
WEST SIDEWALK**

**S MAIN ST
WEST SIDEWALK**

**W VAN EMMON ST
SOUTH SIDEWALK**

**STATE ST
EAST SIDEWALK**

**E FOX ST
NORTH SIDEWALK**

Legend

 Sidewalk Replacement

Engineering Enterprises, Inc.
 52 Wheeler Road
 Sugar Grove, Illinois 60554
 (630) 466-6700
 www.eeiweb.com



United City of Yorkville
 800 Game Farm Road
 Yorkville, IL 60560
 630-553-4350

DATE:	JUNE 2021
PROJECT NO.:	YO2013
BY:	MJT
PATH:	HGIS/PUBLIC/YORKVILLE/2020
FILE:	102021_Sidewalk Replacement Location Revised

**PROPOSED SIDEWALK
REPLACEMENT PROGRAM
LOCATION MAP**





Game Farm Rd

Game Farm Rd

BEECHER CENTER

140 70 0 Feet

Legend

 Beecher Center Sidewalk Replacement

Engineering Enterprises, Inc.
 52 Wheeler Road
 Sugar Grove, Illinois 60554
 (630) 466-6700
 www.eeiweb.com



United City of Yorkville
 800 Game Farm Road
 Yorkville, IL 60560
 630-553-4350

DATE:	MARCH 2021
PROJECT NO.:	YO2013
BY:	MJT
PATH:	H:\GIS\PUBLIC\YORKVILLE\2020\
FILE:	FO2013_Sidewalk Replacement Beecher.MXD

**PROPOSED SIDEWALK
REPLACEMENT PROGRAM
BEECHER CENTER
LOCATION MAP**





Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Community Development	<input type="checkbox"/>
Purchasing	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #5

Tracking Number

PW 2021-50

Agenda Item Summary Memo

Title: Building Updates

Meeting and Date: Special Public Works Committee – July 21, 2021

Synopsis: A discussion will take place at the meeting.

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: _____

Council Action Requested: _____

Submitted by: _____ **Bart Olson** _____ **Administration**
Name Department

Agenda Item Notes:



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input checked="" type="checkbox"/>
Engineer	<input type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input checked="" type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #6

Tracking Number

PW 2021-51

Agenda Item Summary Memo

Title: FY 22 Budget Amendment and Bucket Truck Purchase Authorization

Meeting and Date: Special Public Works Committee – July 21, 2021

Synopsis: Request to purchase unbudgeted bucket truck due to mechanical condition of
Current truck and lead time to build new unit

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Supermajority (6 out of 9)

Council Action Requested: Approval

Submitted by: Eric Dhuse Public Works
Name Department

Agenda Item Notes:



Memorandum

To: Public Works Committee
From: Eric Dhuse, Director of Public Works
Rob Fredrickson, Finance Director
CC: Bart Olson, Administrator
Date: July 12, 2021
Subject: Bucket Truck Purchase & FY 22 Budget Amendment

Summary

Staff is seeking approval of a budget amendment in order to commit to purchasing a new bucket truck to replace our current unit. This commitment and subsequent budget amendment is necessary due to the condition of our current bucket truck and the extended length of time it will take to acquire the new unit.

Background

After our current (FY 22) budget was approved, we found out that our bucket truck may not have as much time left as we thought. Our current truck is a 2006 Ford F550 with 76,629 miles on it and 5554 hours on the engine. Although the miles are relatively low for a diesel vehicle, the hours are fairly high since we have to run the motor when we run the bucket. This, along with age has caused our motor to weaken. Nothing catastrophic at this point, but if it does go, a new motor is almost \$23,000 to purchase and have it installed. This particular motor has known issues with engine trouble and have “bulletproofing” parts you can buy to extend the life of the truck. These parts can be anywhere from \$2000-\$5000 plus the labor to install them which can be \$2000 or more. Our truck has been serviced its entire life by a professional diesel mechanic and we have followed their recommendations along the way, so no replacement parts are necessary at this time, but the mechanics are the ones that told us that we should start thinking about a new unit. Currently our truck is only worth \$8500 as a trade in on a new vehicle from our Altec dealer, so putting \$4000-\$7000 into the motor hoping that it limps it along for another few years does not seem like the best solution. Instead, I feel it is best to order one now and do the bare minimum that needs to be done to keep our current truck running and safe.

In addition to the engine problems, our truck no longer suits all of our needs. This truck can change all our residential streetlights, but it cannot change bulbs or work on any of the decorative streetlights on Bridge St., or at any new traffic signal lighting. These lights are much taller than normal streetlights and we can no longer reach them. We did have a local electrician that we used to change these for a reasonable price, but he has since retired and is no longer performing this work.

Finally, our current bucket truck is not a material handling truck. For us that means we cannot set our own streetlight poles with our current truck. At this time, we are using the backhoe and the sewer department crane truck to set 24’35’ concrete light poles. This works but is hard on both machines and can damage the concrete poles very easily.

We reached out to our local Altec dealer to get an idea of what to expect when ordering a new unit and they shocked us when they said it could be up to 600+ days, but more than likely closer to 400 days. With this kind of lead time, we should commit to purchasing the truck now in order to take delivery of the unit next fiscal year. The dealer stated that if we committed now, we would not have to pay any money until we take delivery of the unit. The normal process is to pay for the chassis up front and then the balance when the unit is delivered. By delaying the chassis cost until the end, it allows us to purchase the unit entirely in the FY 23 budget year.

Recommendation

I recommend that we commit to purchase an Articulating Telescopic Aerial Device with Material Handling capabilities model TA60, mounted on a Peterbilt model 548 chassis from Altec Industries through Sourcewell Contract 02418-ALT. The total cost for this truck and equipment will not exceed \$230,658.

Please note, that in order to formally commit to the purchase of the bucket truck in FY 23, we must amend the current year (FY 22) budget, as any commitment by the City to expend funds must be followed by a subsequent appropriation per State Statute. Since the actual transaction will not take place until next fiscal year, staff would roll the current year amended amount of \$231,000 into FY 23, as part of the annual budget process. To keep the amendment as simple as possible, only the vehicle line in the Public Works Capital cost center of the (25) Vehicle and Equipment Fund has been adjusted. The actual financing mechanisms (i.e., chargebacks, building permits, etc.) will be determined as part of the FY 23 budget process. On paper, this amendment will reduce fund balance by \$231,000; however, in actuality this amend will have no budgetary effect, since the actual purchase will not be executed until sometime in FY 23. This approval will require a super-majority vote of the City Council, since we are amending the budget and using a Sourcewell (single source) contract and did not solicit sealed bids.

Ordinance No. 2021-____

AN ORDINANCE AUTHORIZING THE SECOND AMENDMENT TO THE ANNUAL BUDGET OF THE UNITED CITY OF YORKVILLE, FOR THE FISCAL YEAR COMMENCING ON MAY 1, 2021 AND ENDING ON APRIL 30, 2022

WHEREAS, the United City of Yorkville (the “City”) is a duly organized and validly existing non-home rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State; and,

WHEREAS, pursuant to 65 ILCS 5/8-2-9.4, the City adopted Ordinance No. 2021-11 on April 27, 2021 adopting an annual budget for the fiscal year commencing on May 1, 2021 and ending on April 30, 2022; and,

WHEREAS, pursuant to 65 ILCS 5/8-2-9.6, by a vote of two-thirds of the members of the corporate authorities then holding office, the annual budget of the United City of Yorkville may be revised by deleting, adding to, changing or creating sub-classes within object classes and object classes themselves. No revision of the budget shall be made increasing the budget in the event funds are not available to effectuate the purpose of the revision; and,

WHEREAS, funds are available to effectuate the purpose of this revision.

NOW THEREFORE, BE IT ORDAINED by the Mayor and City Council of the United City of Yorkville, Kendall County, Illinois, as follows:

Section 1: That the amounts shown in Schedule A, attached hereto and made a part hereof by reference, increasing and/or decreasing certain object classes and decreasing certain fund balances in the Vehicle & Equipment fund with respect to the United City of Yorkville’s 2021-2022 Budget are hereby approved.

Section 2: This ordinance shall be in full force and effect from and after its passage and approval according to law.

Passed by the City Council of the United City of Yorkville, Kendall County, Illinois this
_____ day of _____, 2021.

CITY CLERK

KEN KOCH _____

DAN TRANSIER _____

JACKIE MILSCHEWSKI _____

ARDEN JOE PLOCHER _____

CHRIS FUNKHOUSER _____

MATT MAREK _____

SEAVER TARULIS _____

JASON PETERSON _____

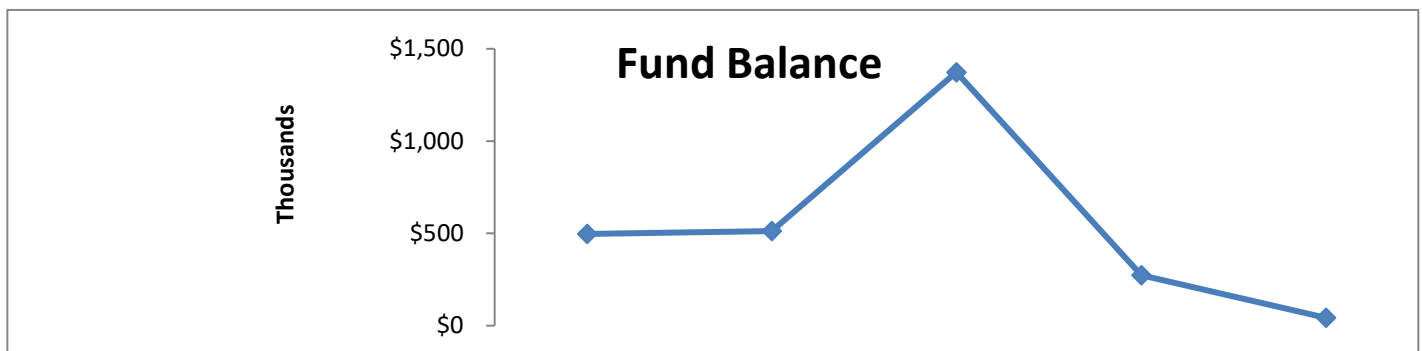
Approved by me, as Mayor of the United City of Yorkville, Kendall County, Illinois, this
_____ day of _____, 2021.

MAYOR

VEHICLE & EQUIPMENT FUND (25)

This fund primarily derives its revenue from monies collected from building permits, fines and development fees. Revenues are used to purchase vehicles and equipment for use in the operations of the Police, General Government, Public Works Street Operations and Park & Recreation departments.

	FY 2019 Actual	FY 2020 Actual	FY 2021 Projected	FY 2022 Adopted Budget	FY 2022 Amended Budget
Revenue					
Licenses & Permits	\$ 243,142	\$ 368,456	\$ 244,573	\$ 109,500	\$ 109,500
Fines & Forfeits	8,640	6,799	3,650	7,800	7,800
Charges for Service	232,472	92,968	1,232,289	325,830	325,830
Investment Earnings	862	2,233	1,000	1,000	1,000
Reimbursements	-	44,082	7,190	102,096	102,096
Miscellaneous	511	645	1,000	1,000	1,000
Other Financing Sources	6,068	558,996	17,932	-	-
Total Revenue	\$ 491,695	\$ 1,074,179	\$ 1,507,634	\$ 547,226	\$ 547,226
Expenditures					
Contractual Services	\$ 8,517	\$ 4,879	\$ 10,752	\$ 11,100	\$ 11,100
Supplies	18,162	66,720	5,329	13,232	13,232
Capital Outlay	251,163	369,888	558,493	1,551,096	1,782,096
Debt Service	75,058	68,765	71,570	71,570	71,570
Other Financing Uses	-	548,273	-	-	-
Total Expenditures	\$ 352,900	\$ 1,058,525	\$ 646,144	\$ 1,646,998	\$ 1,877,998
Surplus (Deficit)	\$ 138,795	\$ 15,654	\$ 861,490	\$ (1,099,772)	\$ (1,330,772)
Ending Fund Balance	\$ 496,042	\$ 511,692	\$ 1,373,182	\$ 273,410	\$ 42,410



United City of Yorkville Vehicle & Equipment Fund

25

VEHICLE & EQUIPMENT FUND REVENUE

Account	Description				FY 2022	FY 2022
		FY 2019 Actual	FY 2020 Actual	FY 2021 Projected	Adopted Budget	Amended Budget
Licenses & Permits						
25-000-41-00-4170	STATE GRANTS	\$ -	\$ 4,795	\$ -	\$ -	\$ -
25-000-42-00-4215	DEVELOPMENT FEES - POLICE CAPITAL	63,225	92,100	63,000	30,000	30,000
25-000-42-00-4216	BUILD PROGRAM PERMITS	2,720	-	-	-	-
25-000-42-00-4217	WEATHER WARNING SIREN FEES	217	1,536	1,573	-	-
25-000-42-00-4218	ENGINEERING CAPITAL FEES	19,550	11,550	20,000	10,000	10,000
25-000-42-00-4219	DEVELOPMENT FEES - PW CAPITAL	147,655	252,600	150,000	64,500	64,500
25-000-42-00-4220	DEVELOPMENT FEES - PARK CAPITAL	9,775	5,875	10,000	5,000	5,000
Total:	Licenses & Permits	\$ 243,142	\$ 368,456	\$ 244,573	\$ 109,500	\$ 109,500
Fines & Forfeits						
25-000-43-00-4315	DUI FINES	\$ 7,994	\$ 6,023	\$ 3,000	\$ 7,000	\$ 7,000
25-000-43-00-4316	ELECTRONIC CITATION FEES	646	776	650	800	800
Total:	Fines & Forfeits	\$ 8,640	\$ 6,799	\$ 3,650	\$ 7,800	\$ 7,800
Charges for Service						
25-000-44-00-4418	MOWING INCOME	\$ 2,167	\$ 2,215	\$ 2,065	\$ 2,000	\$ 2,000
25-000-44-00-4419	COMMUNITY DEVELOPMENT CHARGEBACK	44,985	-	-	31,000	31,000
25-000-44-00-4420	POLICE CHARGEBACK	77,158	24,032	218,344	91,732	91,732
25-000-44-00-4421	PUBLIC WORKS CHARGEBACK	-	-	622,551	100,000	100,000
25-000-44-00-4427	PARKS & RECREATION CHARGEBACK	90,000	-	385,000	88,866	88,866
25-000-44-00-4428	COMPUTER REPLACEMENT CHARGEBACK	18,162	66,721	4,329	12,232	12,232
Total:	Charges for Service	\$ 232,472	\$ 92,968	\$ 1,232,289	\$ 325,830	\$ 325,830
Investment Earnings						
25-000-45-00-4522	INVESTMENT EARNINGS - PARK CAPITAL	\$ 862	\$ 1,084	\$ 1,000	\$ 1,000	\$ 1,000
25-000-45-00-4550	GAIN ON INVESTMENT	-	1,149	-	-	-
Total:	Investment Earnings	\$ 862	\$ 2,233	\$ 1,000	\$ 1,000	\$ 1,000
Reimbursements						
25-000-46-00-4691	MISCELLANEOUS REIMB - PW CAPITAL	\$ -	\$ 10,368	\$ -	\$ -	\$ -
25-000-46-00-4692	MISCELLANEOUS REIMB - PARK CAPITAL	-	33,714	7,190	102,096	102,096
Total:	Reimbursements	\$ -	\$ 44,082	\$ 7,190	\$ 102,096	\$ 102,096
Miscellaneous						
25-000-48-00-4850	MISCELLANEOUS INCOME -GEN GOVT	\$ -	\$ 492	\$ -	\$ -	\$ -
25-000-48-00-4852	MISCELLANEOUS INCOME - POLICE CAPITAL	412	87	-	-	-
25-000-48-00-4854	MISCELLANEOUS INCOME - PW CAPITAL	99	39	1,000	1,000	1,000
25-000-48-00-4855	MISCELLANEOUS INCOME - PARK CAPITAL	-	27	-	-	-
Total:	Miscellaneous	\$ 511	\$ 645	\$ 1,000	\$ 1,000	\$ 1,000

United City of Yorkville
Vehicle & Equipment Fund

25

VEHICLE & EQUIPMENT FUND REVENUE

Account	Description	FY 2019 Actual	FY 2020 Actual	FY 2021 Projected	FY 2022 Adopted Budget	FY 2022 Amended Budget
Other Financing Sources						
25-000-49-00-4906	LOAN ISSUANCE	\$ -	\$ 548,273	\$ -	\$ -	\$ -
25-000-49-00-4910	SALE OF CAPITAL ASSETS - GEN GOV	-	450	-	-	-
25-000-49-00-4920	SALE OF CAPITAL ASSETS - POLICE CAPITAL	6,068	8,523	12,020	-	-
25-000-49-00-4921	SALE OF CAPITAL ASSETS - PW CAPITAL	-	1,300	-	-	-
25-000-49-00-4922	SALE OF CAPITAL ASSETS - PARK CAPITAL	-	450	5,912	-	-
Total:	Other Financing Sources	\$ 6,068	\$ 558,996	\$ 17,932	\$ -	\$ -
Total: VEHICLE & EQUIP REVENUE		\$ 491,695	\$ 1,074,179	\$ 1,507,634	\$ 547,226	\$ 547,226

United City of Yorkville
Vehicle & Equipment Fund

215

PUBLIC WORKS CAPITAL EXPENDITURES

Account	Description	FY 2019 Actual	FY 2020 Actual	FY 2021 Projected	FY 2022	FY 2022
					Adopted Budget	Amended Budget
Contractual Services						
25-215-54-00-5405	BUILD PROGRAM	\$ 2,720	\$ -	\$ -	\$ -	\$ -
25-215-54-00-5448	FILING FEES	784	580	402	750	750
	Total: Contractual Services	\$ 3,504	\$ 580	\$ 402	\$ 750	\$ 750
Supplies						
25-215-56-00-5620	OPERATING SUPPLIES	\$ -	\$ -	\$ 1,000	\$ 1,000	\$ 1,000
	Total: Supplies	\$ -	\$ -	\$ 1,000	\$ 1,000	\$ 1,000
Capital Outlay						
25-215-60-00-6060	EQUIPMENT	\$ 8,435	\$ -	\$ 115,946	\$ 15,000	\$ 15,000
25-215-60-00-6070	VEHICLES	33,497	201,110	99,369	680,000	911,000
	Total: Capital Outlay	\$ 41,932	\$ 201,110	\$ 215,315	\$ 695,000	\$ 926,000
Debt Service - Public Works Building						
25-215-92-00-8000	PRINCIPAL PAYMENT	\$ 43,922	\$ 42,905	\$ 51,612	\$ 53,527	\$ 53,527
25-215-92-00-8050	INTEREST PAYMENT	28,856	23,771	17,784	15,869	15,869
	Total: Debt Service - PW Building	\$ 72,778	\$ 66,676	\$ 69,396	\$ 69,396	\$ 69,396
Other Financing Uses						
25-215-99-00-9960	PAYMENT TO ESCROW AGENT	\$ -	\$ 531,617	\$ -	\$ -	\$ -
	Total: Other Financing Uses	\$ -	\$ 531,617	\$ -	\$ -	\$ -
	Total: PW CAPITAL EXPENDITURES	\$ 118,214	\$ 799,983	\$ 286,113	\$ 766,146	\$ 997,146



Quote Number: 912072-1
 Opportunity Number: 1641855
 Sourcewell Contract #: 012418-ALT
 Date: 6/8/2021

Quoted for: United City of Yorkville
 Customer Contact:
 Phone: / Email:

Quoted by: Andrew Soder
 Phone: / Email: 515-298-2828 / Andrew.Soder@Altec.com
 Altec Account Manager: Mark Finch

REFERENCE ALTEC MODEL		Sourcewell Price
TA60	Articulating Telescopic Aerial Device with Material Handling (Insulated)	\$215,487

(A.) SOURCEWELL OPTIONS ON CONTRACT (Unit)

1	TA60-US55	55' Boom Height (TA55)	-\$2,921
2			
3			
4			

(A1.) SOURCEWELL OPTIONS ON CONTRACT (General)

1	TBE	ELECTRIC TRAILER BRAKE CONTROLLER. Controls Trailers with Electric Brakes, Wired to 7-Way Plug Next to Pintle Hook	\$250
2			
3			
4			
5			
6			
7			
8			
SOURCEWELL OPTIONS TOTAL:			\$212,816

(B.) OPEN MARKET ITEMS (Customer Requested)

1	UNIT		
2	UNIT & HYDRAULIC ACC		
3	BODY		
4	BODY & CHASSIS ACC		
5	ELECTRICAL		
6	FINISHING		
7	CHASSIS	Peterbilt chassis	\$16,852
8	OTHER		
OPEN MARKET OPTIONS TOTAL:			\$16,852

SUB-TOTAL FOR UNIT/BODY/CHASSIS: \$229,668
Delivery to Customer at \$2.20 / mile: \$990
TOTAL FOR UNIT/BODY/CHASSIS: \$230,658

(C.) ADDITIONAL ITEMS (items are not included in total above)

1			
2			
3			
4			

Pricing valid for 45 days

NOTES

PAINT COLOR: White to match chassis, unless otherwise specified

WARRANTY: Standard Altec Warranty for Aerials and Derricks - One (1) year parts warranty One (1) year labor warranty Ninety (90) days warranty for travel charges (Mobile Service) Limited Lifetime Structural Warranty. Chassis to include standard warranty, per the manufacturer.

TO ORDER: To order, please contact the Altec Account Manager listed above.

CHASSIS: Per Altec Commercial Standard

DELIVERY: No later than 616 days ARO, FOB Customer Location

TERMS: Net 30 days

BEST VALUE: Altec boasts the following "Best Value" features: Altec ISO Grip Controls for Extra Protection, Only Lifetime Warranty on Structural Components in Industry, Largest Service Network in Industry (Domestic and Overseas), Altec SENTRY Web/CD Based Training, Dedicated/Direct Gov't Sales Manager, In-Service Training with Every Order.

TRADE-IN: Please ask your Altec Account Manager for more information

BUILD LOCATION: St Joseph MO



June 8, 2021
Our 92nd Year

Ship To:
UNITED CITY OF YORKVILLE (IL)
610 TOWER LANE
YORKVILLE, IL 60560
US

Bill To:
UNITED CITY OF YORKVILLE (IL)
800 GAME FARM ROAD
YORKVILLE, IL 60560
United States

Attn:
Phone:
Email:

Altec Quotation Number: 912072 - 1
Account Manager: Mark Finch
Technical Sales Rep: Andrew Soder

<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
	<u>Unit</u>		
1.	Altec Model TA55 Articulating Telescopic Aerial Device with a fiberglass upper boom and fiberglass insulator in the articulating arm and a proportional joystick upper control and toggle switches. Built in accordance to ALTEC's standard specifications and to include the following features: <ul style="list-style-type: none"> A. Ground to Bottom of Platform Height: 54.4 ft at 13.0 ft from centerline of rotation (16.6 m at 4 m) B. Working Height: 59.4 ft (18.1 m) C. Maximum reach to edge of platform: 38.3 ft at 22.7 ft platform height (11.7 m at 6.9 m) D. Continuous Rotation E. Articulating Arm Articulation: 0 to 93 degrees. Insulator provides a minimum of 12 in (304.8 mm) of isolation. F. Articulating arm is a tubular steel structure. The articulating arm is designed so that the articulating arm and lower boom are compensating. By raising the articulating arm only, the lower and upper boom maintains the same relative angle with the ground. By raising the articulating arm in conjunction with the lower boom, the operator is able to position himself more quickly and easily into the work area. G. Upper Controls: The upper controls system includes a proportional joystick upper control and toggle switches. H. The Altec ISO-Grip System (U.S. Patent No. 7,416,053) includes the following boom tip components that can provide an additional layer of secondary electrical contact protection. This is not a primary protection system. Control Handle is a single handle controller incorporating high electrical resistance components that is dielectrically tested to 40 kV AC with no more than 400 microampers of leakage. The control handle is green in color to differentiate it from other non-tested controllers. The handle also includes an interlock guard that reduces the potential for inadvertent boom operation. The handle is tiller style and points away from elbow. Auxiliary control covers are non-tested blue silicon covers. The control console in non-tested non-metallic control console plate. The boom tip covers are non-tested non-metallic and are not dielectrically tested, but they may provide some protection against electrical hazards. 	1	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
I.	Two sets of quick disconnect couplings at the platform. The open center hydraulic system on this unit requires the use of open center tools.		
J.	Lower Controls: A lower control station includes and is located on the curbside of the turntable. A selector valve is provided to override the upper controls.		
K.	The platform is leveled by hydraulic leveling means, contained within the upper boom and designed to maintain the dielectric integrity of the aerial device. Controls for leveling and tilting the platform are located at the platform. Leveling for the platform includes two double acting cylinders incorporating counterbalance load holding valves to lock the platform in the event of hydraulic line failure. Cylinders are located at the platform and at the end of the lower boom. The master-slave action of the cylinders maintains a level platform throughout the full range of boom articulation.		
M.	Outrigger/boom interlock system prevents boom from being unstowed until outriggers have been at least partially deployed.		
N.	Lifting eye: on lower boom with 1000 lb. capacity.		
O.	Outrigger/unit selector control is located near the outrigger controls, allows operator to divert hydraulic oil from machine circuit for outrigger operation. This reduces the potential for inadvertent outrigger movement during machine operation if outrigger controls are bumped.		
P.	Outrigger motion alarm provides audible alarm when any of the outriggers controls are operated.		
Q.	Diagnostic Pressure Test Quick Disconnect Couplings: are located at the turntable to allow a mobile service technician to quickly and easily attach a test gauge to verify system and tool circuit pressure. This convenient troubleshooting feature saves time and reduces the risk of high pressure oil sprays.		
R.	Unit meets or exceeds ANSI 92.2 standards.		
2.	Automatic Upper Boom Stow Securing System with support cradle.	1	
3.	Pedestal, Rear Mount, High Cab Height - includes 43 inch (1092 mm) pedestal height, 91.5 inch (2324 mm) mast height - recommended for T55 and TA60, installed in tall cab height chassis	1	
4.	220 Single Two-Man Platform with hydraulically articulating jib (Altec ARM Jib) - Platform end mounted, rotates 180 degrees around boom tip. Platform has a capacity of 600lbs without liner. Material handling system comes with 80ft of 0.50 inch polyester double braid rope, a metal thimble in the working end and jib rated at a maximum capacity of 1,000 lbs	1	
5.	259 Polyethylene platform liner for two man platform, 50 kV rating (minimum)	1	
6.	Tool Circuit At Boom Tip, Additional Tool Outlet Set (TA End Mount)	1	
7.	Engine Start/Stop & Secondary Stowage System: 12 VDC powered motor and pump assembly for temporary operation of the unit in a situation wherein the primary hydraulic source fails. Electric motor is powered by the chassis battery. This feature allows the operator to completely stow the booms, platform, and outriggers. Secondary Stowage & Start/Stop is activated with an air plunger at the platform or momentary switch at the lower control station and outriggers.	1	
8.	Electric Over Hydraulic Outrigger Controls	1	
9.	241 - Outrigger A-Frame with Flat-shoe - provides 149 inch (3785 mm) maximum spread outside to outside of shoe.	1	

<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
10.	240 Modified flat-shoe, A-frame, Fixed Shoe, Outrigger installed at rear of body, with 101 inches (2565 mm) of spread at maximum penetration.	1	
11.	ARM Jib Removal and Storage System	1	
12.	Powder coat unit Altec White.	1	
<u>Unit & Hydraulic Acc.</u>			
13.	Subbase Blocks	1	
14.	TA50/55/60 Series Subbase	1	
15.	30 Gallon Reservoir, Triangular, Mounted in Cargo Area, Standard	1	
16.	HVI-22 Hydraulic Oil (Standard)	38	
17.	Pump Custom Option 1 Standard Pump for PTO	1	
18.	Hot Shift PTO (for Automatic Transmission)	1	
19.	Muncie PTO	1	
20.	Standard Altec PTO/Transmission Functionality For Automatic Transmissions	1	
21.	Standard Altec PTO/Machine Functionality	1	
22.	Electro/Hydraulic Outrigger Valve Installation, Large TA Fts	1	
<u>Body</u>			
23.	Altec Body	1	
24.	Predesigned Body With Options	1	
25.	Steel Body	1	
26.	Body Is To Be Built In Accordance With The Following Altec Standard Specifications:	1	
	A. Basic Body Fabricated From A40 Grade 100% Zinc Alloy Coated Steel.		
	B. All Doors Are Full, Double Paneled, Self-Sealed With Built-In Drainage For Maximum Weather-Tightness. Stainless Steel Hinge Rods Extend Full Length Of Door.		
	C. Heavy-Gauge Welded Steel Frame Construction.		
	D. Integrated Door Header Drip Rail At Top For Maximum Weather Protection.		
	E. Fender Panels Are Either Roll Formed Or Have Neoprene Fenderettes Mechanically Fastened.		
	F. Steel Treated For Improved Primer Bond And Rust Resistance.		
	G. Automotive Type Non-Porous Door Seals Fastened To The Door Facing.		
	H. B-Line Channel Installed In Compartments		
27.	Smooth Galvanneal Steel Floor	1	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
28.	Aerial Service Line With Step (ASLS)	1	
29.	Finish Paint Body Altec White	1	
30.	Undercoat Body	1	
31.	E-Coat Body	1	
32.	160" Overall Body Length	1	
33.	94" Body Width	1	
34.	46" Body Compartment Height	1	
35.	18" Body Compartment Depth	1	
36.	5.5 Inch Drop-In Wood Cargo Retaining Board At Rear Of Body	1	
37.	5.5 Inch Drop-In Wood Cargo Retaining Board At Top Of Side Access Step	1	
38.	Non-Skid Curbside Compartment Top For Working (Non-Walking) Surface (To Be Completed At Final Assembly)	1	
39.	Non-Skid Streetside Compartment Top For Working (Non-Walking) Surface (To Be Completed At Final Assembly)	1	
40.	Stainless Steel Rotary Paddle Latches With Keyed Locks	9	
41.	All Locks Keyed Alike Including Accessories (Preferred Option)	1	
42.	Standard Master Body Locking System	9	
43.	Gas Prop Rigid Door Holders On All Vertical Doors	1	
44.	One Chock Holder On Each Side of Body With Retaining Lip In Fender Panel	1	
45.	Hotstick Shelf Extending Full Length Of Body On Streetside	1	
46.	Two Hotstick Brackets On Streetside	1	
47.	Standard Drop-Down Hotstick Door For One (1) Shelf On Streetside, Stainless Steel Slam Paddle Latch With Keyed Lock	1	
48.	1st Vertical (SS) - Adjustable Shelf With Removable Dividers On 4" Centers	2	
49.	2nd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	2	
50.	2nd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	2	
51.	2nd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	2	
52.	3rd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	2	
53.	3rd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	2	
54.	3rd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	2	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
55.	1st Horizontal (SS) - Adjustable Shelf With Removable Dividers On 4" Inch Centers	1	
56.	Rear Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	1	
57.	Rear Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	3	
58.	Rear Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	1	
59.	Rear Vertical (SS) - Outrigger Housing, With Outrigger Pin Access As Needed	1	
60.	1st Vertical (CS) - Adjustable Shelf With Removable Dividers On 4" Centers	3	
61.	2nd Vertical (CS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	2	
62.	2nd Vertical (CS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	2	
63.	2nd Vertical (CS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	2	
64.	3rd Vertical (CS) - Gripstrut Access Steps With Two (2) Sloped Grab Handles, Vented Battery Storage (Keyed Lock)	1	
65.	1st Horizontal (CS) - Adjustable Shelf With Removable Dividers On 4" Centers	1	
66.	1st Horizontal (CS) - Fixed Shelf With Removable Dividers On 4 Inch Centers On Bottom of Compartment	1	
67.	Rear Vertical (CS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	1	
68.	Rear Vertical (CS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	3	
69.	Rear Vertical (CS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	1	
70.	Rear Vertical (CS) - Outrigger Housing, With Outrigger Pin Access As Needed	1	
71.	Lexan Rock Guards Installed Each Front Corner Of Body	1	
72.	29" L Steel Tailshelf, Width To Match Body	1	
73.	Steel U-Shaped Grab Handle Installed on Tailshelf 1 SS and 1 CS	2	
74.	Smooth Galvanneal Steel Tailshelf	1	
75.	Platform Access Step From Body Floor	1	
<u>Body and Chassis Accessories</u>			
76.	Dock Bumpers (Pair), Rectangular, installed at Rear Frame Rail at the furthest point back	1	
77.	Set of Safety Chain Eye Bolts	1	
78.	Swivel Style Pintle Hitch (30 000 LB MGTW with 6 000 LB MVL), 11-Bolt T-Mount, Altec Preferred (T-125 Style), Eye Bolts, Dock Bumper, 4X2/6X4	1	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
79.	Glad Hands at Rear, Straight (Standard) (Includes Dust Covers)	1	
80.	Pendulum Retainers For Outrigger Pad Holders	4	
81.	Rigid Step, Mounted Beneath Side Access Steps (Installed to Extend Approx. 2 Outward)	1	
82.	Wheel Chock Holders (Pair), For Installation Under Flatbed Or Dump Body	1	
83.	Mounting Brackets for Lights, Located on Lower Boom Rest	1	
84.	Lower Boom Rest	1	
85.	Platform Rest, Rigid with Rubber Tube	1	
86.	Wood Outrigger Pad 24 x 24 x 2.5 with Rope Handle	4	
87.	Outrigger Pad Holder, 25 L x 25 W x 5 H Fits 24.5 x 24.5 x 4 and Smaller Pads Bolt-On Bottom, Washout Holes with 3/4 Inch Lip Retainer, Steel	4	
88.	Outrigger Control Guards, Underhung Tailshelf Mount (Altec Preferred)	1	
89.	Wheel Chocks Rubber with Metal Hairpin Handle 9.75 L x 7.75 W x 5 H (Pair) (Altec Preferred)	1	
90.	Mud Flaps with Altec Logo (Pair)	1	
91.	Batteries located under steps in Body	1	
92.	5 LB Fire Extinguisher with Light Duty Bracket Installed Per DEPS 042 (In Cab Or Inside Compartment Only) (Amerex #B402T)	1	
93.	Safety Harness and 4.5 Ft Lanyard (Fits Medium to Xlarge) Includes Pouch and Placards, Single Platform	1	
94.	Triangular Reflector Kit (Contains 3 Reflectors) Installed Per DEPS 042	1	
95.	Slope Indicator Assembly for Machine with Outrigger	1	
96.	Vinyl Manual Pouch for Storage of All Operator and Parts Manuals	1	
97.	Send Out for Spring Build Up	1	
<u>Electrical Accessories</u>			
98.	Strobe Beacon, Amber, LED, With Brush Guard (Tecniq #K10-AAAD-1), Class II (Permit May Be Required) SS and CS of boomrest	2	
99.	Strobe Lights Wired Battery Hot	1	
100.	Dual Tone Backup Alarm With Outrigger Motion Alarm	1	
101.	Altec Standard Multi-Point Grounding System	2	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
102.	Grounding Lug, Copper, U-Shaped, Threaded CS front and rear	2	
103.	Altec Backup Camera System, 7 Inch Color LCD Monitor, Heated Infrared Camera With Day/Night Sensor And Audio <ul style="list-style-type: none"> A. 7 Inch Color LCD Monitor With LED Backlighting And Proximity Indicators B. 2 Inputs With Independent Triggers C. Heated Infrared Camera With Day/Night Sensor And Audio D. Mirror/Normal View E. IP68 Rated F. Wide Viewing Angle (104 Degrees Horizontal x 78 Degrees Vertical) G. 20 Meter Cable Assembly 	1	
104.	Relocate Trailer Receptacle Supplied With Chassis	1	
105.	Trailer Receptacle, 7-Way (Pin Type) Installed At Rear	1	
106.	Trailer Brake Controller, Electric (Tekonsha Voyager #9030)	1	
107.	Altec Modular Panel System (AMPS) - Includes Mounting Panel And Accessory Switches	1	
108.	Power Distribution Module 10 is a Compact Self-Contained Electronic System that Provides a Standardized Interface with the Chassis Electrical System	1	
109.	Install Outrigger Interlock System In Final Assembly	1	
<u>Finishing Details</u>			
110.	Front and Rear Frame Mounted Components and Under Body Mounted Components Will Be Painted Black DEPS 005 DEPS 095 (Includes Non OEM Front Bumpers and Cabguards)	1	
111.	Powder Coat Unit Altec White	1	
112.	Finish Paint Body Accessories Above Body Floor Altec White	1	
113.	Apply Non-Skid Coating (Black) to All Walking Surfaces DEPS 057	1	
114.	Apply Non-Skid Coating (Black) to Curbside Compartment Top for Use as Non-Walking Surface	1	
115.	Apply Non-Skid Coating (Black) to Streetside Compartment Top for Use as Non-Walking Surface	1	
116.	Safety and Instructional Decals English	1	
117.	Vehicle Height Placard Installed In Cab DEPS 002	1	
118.	HVI-22 Hydraulic Oil Placard	1	
119.	DOT Certification Required	1	
120.	Dielectric Test Unit According to ANSI Requirements	1	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
121.	Stability Test Unit According to ANSI Requirements	1	
122.	Focus Factory Build	1	
123.	Delivery Of Completed Unit	1	
124.	Demo Unit Include RepairCentral Key Chain and Window Sticker	1	
125.	Inbound Freight	1	
126.	As Built Electrical and Hydraulic Schematics to be Included In the Manual Pouch (Deps 024)	1	
127.	Completed Test Forms To Be Included In The Manual Pouch: -Stability Test Form -Dielectric Test Form (For Insulated Units)	1	
128.	Additional Finishing Detail The following paperwork MUST be in the Chassis Manual Pouch upon completion of the vehicle: Stability Test Dielectric Test DOT Certification	1	
129.	TA55 FA Installation	1	
130.	Stock Unit	1	
<u>Chassis</u>			
131.	Altec Supplied Chassis	1	
132.	Chassis	1	
133.	2023 Model Year	1	
134.	4x2	1	
135.	123 Clear CA (Round To Next Whole Number)	1	
136.	Regular Cab	1	
137.	Chassis Cab	1	
138.	Dual Rear Wheel	1	
139.	Chassis Color - White	1	
140.	Chassis Wheelbase Length - 184 inch	1	
141.	Paccar PX-7	1	



<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
142.	Diesel	1	
143.	300 HP Engine Rating	1	
144.	Other Transmission 3500RDS	1	
145.	Other Chassis GVWR 33000	1	
146.	14,000 LBS Front GAWR	1	
147.	Spring Suspension	1	
148.	21,000 LBS Rear GAWR	1	
149.	315/80R22.5 Front Tire	1	
150.	11R22.5 Rear Tire	1	
151.	Air Brakes	1	
152.	Park Brake In Rear Wheels	1	
153.	3365270 - Peterbilt Vertical Exhaust (Right-Horizontal-Under Cab-Vertical)	1	
154.	Peterbilt - Flat Roof (7036140)	1	
155.	Peterbilt - Remote Throttle Connector (2140450)	1	
156.	Peterbilt - Altec Rear Wall Controls Connection (7852100) with Altec Body Builder Pass-Thru (7853050)	1	
157.	No Idle Engine Shut-Down Required	1	
158.	50-State Emissions	1	
159.	Clean Idle Certification	1	
160.	Peterbilt 50 Gallon Fuel Tank (Under Cab Left Hand)	1	
161.	Peterbilt Small DEF Tank (Under Cab Left Hand)	1	
162.	Chassis Without Front Frame Extensions	1	
163.	Temporary Mount Batteries (Requires Relocation By Altec)	1	
164.	Peterbilt - Provide Maximum Length Battery Cable for Battery Relocation by Upfitter (6010800)	1	
165.	Air Horn Under Cab	1	
166.	AM/FM Radio	1	
167.	Air Conditioning	1	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
168.	Cruise Control	1	
169.	Power Door Locks	1	
170.	Power Windows	1	
171.	Tachometer	1	
172.	Tilt Steering Wheel	1	
173.	Block Heater	1	
174.	Driver Controlled Locking Differential	1	
175.	Glad Hands, Hoses Only (Supplied By Chassis OEM)	1	
176.	Trailer Air Brake Package	1	
177.	Vinyl Split Bench Seat	1	
178.	Air Ride Drivers Seat	1	

Additional Pricing

179.	Standard Altec Warranty: One (1) year parts warranty, one (1) year labor warranty, ninety (90) days warranty for travel charges, limited lifetime structural warranty	1	
180.	Federal Excise Tax Item: If provided, Quote subtotal is an Estimate only. Final determined at invoicing.	1	

Unit / Body / Chassis Total	229,668.00
FET Total	0.00
Total	229,668.00

Altec Industries, Inc.

BY _____

Andrew Soder

Notes:

1 Altec takes pride in offering solutions that provide a safer work environment for our customers. In an effort to focus on safety, we would encourage you to consider the following items:

- Outrigger pads (When Applicable)
- Fall Protection System
- Fire extinguisher/DOT kit

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Platform Liner (When Applicable)
Altec Sentry Training
Wheel Chocks

The aforementioned equipment can be offered in our new equipment quotations. If you find that any of these items have not been listed as priced options with an item number in the body of your quotation and are required by your company, we would encourage you to contact your Altec Account Manager and have an updated quote version sent to you. These options must be listed with an item number in the quotation for them to be supplied by Altec.

2 The final fully loaded weight of the truck and structural ratings of the hitch assembly may reduce the towing capacity and the vertical load capacity of the finished truck. These capacities may not match the ratings of the chassis or hitch.

3 Altec Standard Warranty:

One (1) year parts warranty.

One (1) year labor warranty.

Ninety (90) days warranty for travel charges.

Warranty on structural integrity of the following major components is to be warranted for so long as the initial purchaser owns the product: Booms, boom articulation links, hydraulic cylinder structures, outrigger weldments, pedestals, subbases and turntables.

Altec is to supply a self-directed, computer based training (CBT) program. This program will provide basic instruction in the safe operation of this aerial device. This program will also include and explain ANSI and OSHA requirements related to the proper use and operation of this unit.

Altec offers its standard limited warranty with the Altec supplied components which make up the Altec Unit and its installation, but expressly disclaims any and all warranties, liabilities, and responsibilities, including any implied warranties of fitness for a particular purpose and merchantability, for any customer supplied parts

Altec designs and manufactures to applicable Federal Motor Vehicle Safety and DOT standards

4 F.O.B. - #FOB_TERMS#

5 Altec Extended Warranty Option:

An Altec Extended Warranty is an extension of Altec's Limited Warranty and protects you from the repair cost associated with defects of materials and workmanship after the standard Limited Warranty expires.

Altec offers many types of coverages and coverage packages. Ask your Altec account manager for details. Quotes are available upon request.

6 Unless otherwise noted, all measurements used in this quote are based on a 40 inch (1016mm) chassis frame height and standard cab height for standard configurations.

7 Changes made to this order may affect whether or not this vehicle is subject to F.E.T. A review will be made at the time of invoicing and any applicable F.E.T. will be added to the invoice amount.

8 Altec values your data privacy. The Altec Family of Companies (including Altec, Inc., and its subsidiaries) may collect telematics data from the equipment you own. Please review Altec's Equipment Data Privacy Notice on www.altec.com for more information. By purchasing equipment from Altec, you consent to Altec's

right to collect and use such data.

- 9 Price does not reflect any local, state or Federal Excise Taxes (F.E.T). The quote also does not reflect any local title or licensing fees. All appropriate taxes will be added to the final price in accordance with regulations in effect at time of invoicing.
- 10 Interest charge of 1/2% per month to be added for late payment.
- 11 Any payment made by a credit card may be subject to a surcharge fee.
- 12 Delivery: 540 days after receipt of order PROVIDING:
A. Order is received within 14 days from the date of the quote. If initial timeframe expires, please contact your Altec representative for an updated delivery commitment.
B. Customer supplied chassis is received a minimum of sixty (60) days before scheduled delivery.
C. Customer approval drawings are returned by requested date.
D. Customer supplied accessories are received by date necessary for compliance with scheduled delivery.
E. Customer expectations are accurately captured prior to major components being ordered (body, chassis) and line set date. Unexpected additions or changes made after this time or at a customer inspection will delay the delivery of the vehicle.
- Altec reserves the right to change suppliers in order to meet customer delivery requirements, unless specifically identified, by the customer, during the quote and or ordering process.
- 13 Trade-in offer is conditional upon equipment being maintained to DOT (Department of Transportation) operating and safety standards and remaining in compliance of DOT until arrival at an Altec Facility. This will include, but is not limited to engine, tires, lights, brakes, glass, etc. All equipment, i.e., jibs, winches, pintle hooks, trailer connectors, etc., are to remain with unit unless otherwise agreed upon in writing by both parties. ALTEC Industries reserves the right to re-negotiate its trade-in offer if these conditions are not met.
- All reasonable and necessary expenses required of ALTEC Industries to execute transportation of the trade-in will be invoiced to the customer for payment if these conditions are not met to maintain DOT standards.
- Customer may exercise the option to rescind this agreement in writing within sixty (60) days after receipt of purchase order. After that time ALTEC Industries will expect receipt of trade-in vehicle upon delivery of new equipment as part of the terms of the purchase order unless other arrangements have been made.
- 14 This quotation is valid until JUL 02, 2021. After this date, please contact Altec Industries, Inc. for a possible extension.
- 15 After the initial warranty period, Altec Industries, Inc. offers mobile service units, in-shop service and same day parts shipments on most parts from service locations nationwide at an additional competitive labor and parts rate. Call 877-GO-ALTEC for all of your Parts and Service needs.
- 16 FINANCING AVAILABLE: Please contact Altec Capital at (888) 408-8148 or email finance@altec.com for more information.
- 17 Please direct all questions to Mark Finch at (317) 872-3460



Rush Truck Center, Nashville (N025)
 900 Expo Drive
 Smyrna, Tennessee 37167

Altec Industries Inc
 Po Box 388
 Indianapolis, Indiana 46268
 United States of America

Tim Burnette
 Cell Phone: 6158123551
 Office Phone: 615-220-7777
 Email: Burnettet@rush-enterprises.com

Andrew Soder
 Email: andrew.soder@altec.com

Vehicle Summary

	Unit		Chassis	
Model:	Model 548	Fr Axle Load (lbs):		14000
Type:	Full Truck	Rr Axle Load (lbs):		21000
Description 1:	348 PX7 Auto AA55	G.C.W. (lbs):		45000
Description 2:	2023 548 PX7 300 3500RDS 14.6K 21K 33K Derate 124CA 89AF AA55 Yorkville			
	Application	Road Conditions:		
Intended Serv.:	Utility/Lube Service	Class A (Highway)		85
Commodity:	Other Commodity	Class B (Hwy/Mtn)		12
		Class C (Off-Hwy)		3
		Class D (Off-Road)		0
	Body	Maximum Grade:		6
Type:	Platform w/Devices	Wheelbase (in):		192
Length (ft):	16	Overhang (in):		89
Height (ft):	13	Fr Axle to BOC (in):		67.5
Max Laden Weight (lbs):	5000			
		Cab to Axle (in):		124.5
		Cab to EOF (in):		213.5
	Trailer	Overall Comb. Length (in):		321
No. of Trailer Axles:	0			
Type:				
Length (ft):	0		Special Req.	
Height (ft):	0			
Kingpin Inset (in):	0			
Corner Radius (in):	0			
	Restrictions			
Length (ft):	40			
Width (in):	102			
Height (ft):	13.5			

Approved by: _____

Date: _____

Note: All sales are F.O.B. designated plant of manufacture.



Sales Code	Std/Opt	Description	Weight
Base Model			
0005481	S	Model 548	11,160
0091200	S	Other Commodity	0
0093140	O	Utility/Lube Service Truck used to service construction and mining equipment. Includes bodies such as, mechanics service bodies, tire hoists, fuel/lube, boom, etc.	0
0095010	O	Platform w/Devices	0
0098010	O	California Registry California Registry Required for all vehicles that will be registered in the State of California.	0
Configuration			
0200700	S	Not Applicable Secondary Manufacturer	0
Frame & Equipment			
0515020	O	10-5/8" Steel Rails 286-325" 10.625 x 3.45 x .313 Dimension, 1,776,000 RBM; Yield Strength: 120,000 psi. Section Modulus: 14.8 cubic inches. Weight: 1.44 lbs/inch pair <i>Narr 33K GVW Chassis Frame Rail</i>	206
0611300	S	Heavy Duty 5-Piece Crossmember BOC IPO Standard Class 5, 6, 7	20
0612230	O	Custom Wheelbase or Overhang Engineering approval may be required.	0
0644090	S	EOF Square without Crossmember End-of-frame square without crossmember. For use with body builder installed crossmember.	0
0651090	O	Omit Rear Mudflaps and Hangers	-25
Front Axle & Equipment			
1011860	O	Dana Spicer E1402I 14,000 lb, 3.5 in. Drop	20
1112150	O	Taper Leaf Springs, Shocks 14,600 lb Hendrickson Taper Leaf Springs, shocks 14,6000 lb.	48
1243060	O	Power Steering Sheppard SD110 The SD110 power steering gear is a compact version of the M110 power steering gear. The SD110, working with a 185 bar pump is capable of steering vocational and heavy haul vehicles with front axle ratings of 13,200 to 16,000 lbs. in single gear applications.	44
1250180	S	Power Steering Reservoir Frame Mounted The power steering reservoir is a steering system that eases drivability by applying hydraulic pressure to the steering gear.	0



Sales Code	Std/Opt	Description	Weight
1354845	S	PHP10 Iron PreSet Hubs	0
1380070	O	Greasable Front Spring Pins	0
1380240	O	Dana Spicer Wide Track IPO Standard Dana Spicer wide track front axles offer added stability and deliver greater turn angles. 71in KPI IPO 69in for E1202, E1322, E1462, D2000F front axles.	15
1380260	S	Bendix Air Cam Front Drum Brakes 16.5x5 For use with 10,000 lbs to 14,600 lbs steer axles. Includes automatic slack adjusters & outboard mounted brake drums.	0
1390540	O	Dust Shields, Cam Brakes, Front Axle	4
1391410	S	Gusseted Cam Brackets, Steer Axle	0
Rear Axle & Equipment			
1513270	O	Dana Spicer S21-172 Single Axle, 21000 lb	-80
1616360	O	PHP10 Aluminum PreSet Hubs	-60
1660000	O	Dust Shields For Cam Brakes, Drive Axle(s)	15
1680450	O	Rear Brake Camshaft Reinforcement Rear brake camshaft reinforcement helps guard against wear and corrosion.	9
1680490	O	Gusseted Cam Brackets, Drive Axle(s)	2
1680500	S	SBM Valve Full trucks require a spring brake modulation (SBM) system for emergency braking application. This system requires an SBM valve and a relay valve with spring brakes on the rear axles. The SBM valve allows the foot valve to operate the rear axle spring brakes if a failure exists in the rear air system.	0
1680795	O	Diff Lock, Single Drive Axle with Speed Interlock	30
1680950	S	Stability System Not Selected Or Not Available	0
1682430	S	Anti-Lock Braking System (ABS) 4S4M ABS-6. Includes air braking system.	0
1684200	S	Synthetic Axle Lubricant All Axles Peterbilt heavy duty models include Fuel Efficient Cognis EMGARD FE75W-90 which provides customers performance advantages over current synthetic lubricants with reduced gear wear and extended maintenance intervals, resulting in increased uptime. In addition, the lubricant provides improved fluid flow to protect gears in extreme cold conditions and withstand the stress from high temperatures, extending component life.	0
1687010	S	Bendix Air Cam Rear Drum Brakes 16.5x7	0



Sales Code	Std/Opt	Description	Weight
		Bendix Air Cam Rear Drum Brakes to fit all heavy haul, construction, refuse and highway truck and tractor applications. Includes Automatic Slack Adjusters & Outboard Mounted Brake Drums.	
1706140	O	Ratio 6.14 Rear Axle	0
1816020	S	Reyco 79KB Multi Leaf 23,000 Lb	-90
Engine & Equipment			
2073306	O	PACCAR PX-7 300@2600 GOV@2600 660@1600 PERFORMANCE (2021 EMISSIONS)	-475
		N21350 C121 68...Maximum Accelerator Pedal Ve	
		N21370 C128 68...Maximum Cruise Speed (P059)	
		N21460 C132 1400..Max PTO Speed (P046)	
		N21520 C133 1.....Timer Setting (P030)	
		N21610 C188 0.....Low Ambient Temperature Thre	
		N21620 C189 60....Intermediate Ambient Tempera	
		N21630 C190 80....High Ambient Temperature Thr	
		N21550 C206 0.....Engine Load Threshold (P516)	
		N21340 C209 120...Hard Maximum Speed Limit (P1	
		N21510 C225 NO....Enable Idle Shutdown Park Br	
		N21450 C231 NO....Gear Down Protection (P026)	
		N21570 C233 NO....Idle Shutdown Manual Overrul	
		N21440 C234 YES...Engine Protection Shutdown (
		N21480 C238 NO....Auto Engine Brake in Cruise	
		N21470 C239 NO....Cruise Control Auto Resume (
		N21430 C333 0.....Reserve Speed Limit Offset (
		N21410 C334 0.....Maximum Cycle Distance (N202	
		N21590 C382 YES...Enable Hot Ambient Automatic	
		N21500 C395 0.....Expiration Distance (N209)	
		N21530 C396 YES...Enable Impending Shutdown Wa	
		N21540 C397 30....Timer For Impending Shutdown	
		N21320 C399 0.....Standard Maximum Speed Limit	
		N21400 C400 252...Reserve Speed Function Reset	
		N21420 C401 10....Maximum Active Distance (N20	
		N21330 C402 0.....Expiration Distance (N207)	
2091130	S	VMUX Electronics Architecture	0
2091310	O	Engine Idle Shutdown Timer Disabled	0
2091315	O	Enable EIST Ambient Temp Overrule	0
2091372		Eff EIST NA Expiration Miles	0
2091640		Effective VSL Setting NA	0
2092014	O	Typical Operating Speed 65 MPH	0



Sales Code	Std/ Opt	Description	Weight
2092033	O	Powertrain Optimized for Balance Best analysis for vehicles where service includes frequent start and stop cycles.	0
2140200	S	CARB Engine Idling Compliance PACCAR PX-7, PX-9 and MX, Cummins X15 and ISX diesel engines will include the required factory installed serialized sticker on the drivers door to identify them as meeting the NOx idling standard.	0
2513060	S	PACCAR 160 Amp Alternator, Brushed PACCAR 160 AMP alternator, brushed producing 160 Amps at road speed and 100 Amps at idle.	0
2521090	O	Immersion Type Block Heater 110-120V Standard location for 2.1M and 1.9M models is left-hand under cab, Model 520 is in bumper, and for Model 220 it is at the driver step. Plug includes a weather-proof cover that protects the receptacle. This pre-heater keeps the coolant in the engine block from freezing when the engine is not running.	2
2522110	S	PACCAR 12V Starter, N/A PACCAR MX Engines PACCAR 12-volt electrical system. With centralized power distribution incorporating plug-in style relays. Circuit protection for serviceability, 12-volt light system w/circuit protection circuits number & color coded.	0
2538030	S	2 PACCAR Premium 12V Starting Batteries 2000 CCA Threaded stud type terminal. Stranded copper battery cables are double aught (00) or larger to reduce resistance.	0
2539700	O	Battery Jumper Terminal Mtd under hood RH frame rail. Available with PX-7 engines only.	4
2539720	O	Low Voltage Disconnect System	0
2621130	O	Belt Driven Variable Speed Fan Clutch PX9 Engine PX7/ PX9/L9N/B6.7N. The belt-driven fully variable speed fan drives communicate directly with the PX9 ECM through the included electronic controller, managing the fan speed to match the exact amount of cooling required. The optimized setup creates smoother engagements, reduces noise and frees up available horsepower. These fan drives are also maintenance-free. A belt, additional pulleys, idlers, tensioners, and a drive hub are included to drive the fan.	0
2723210	S	18.7 CFM Air Compressor N/A X15. Furnished on engine. Teflon lined stainless steel braided compressor discharge line.	0
2812210	S	VGT Exhaust Brake (Variable Geometry Turbo). Provides approximately 90-100 HP of retardation and is part of the turbocharger.	0
2921110	S	PACCAR Fuel/Water Separator Standard Service PACCAR Fuel/Water separator standard service intervals. High efficiency media protects critical engine components.	0
2921220	O	Fuel Heat for Fuel Filter	0
2921320	O	12V Heat for Fuel Filter Fuel filter heaters help ensure a seamless flow of diesel from the tank to the combustion chamber. Eliminating any possibility of moisture freezing within the fuel filter while simultaneously increasing the fuel temperature for atomization within the engine.	0



Sales Code	Std/Opt	Description	Weight
3010400	O	Engine Protection Shutdown w/ Label Includes oil pressure, oil temperature, coolant temperature, and intake manifold temperature.	0
3114270	S	High Efficiency Cooling System Cooling module is a combination of steel and aluminum components, with aluminum connections to maximize performance and cooling capability. Silicone radiator & heater hoses enhance value, durability, & reliability. Constant tension band clamps reduce leaks. Chevron Delo Extended Life Coolant (NOAT) extends maintenance intervals reducing maintenance costs. Anti-freeze effective to -30 degrees F helps protect the engine. Low coolant level sensor warns of low coolant condition to prevent engine damage. Radiator Size by Model: 579/367 FEPTO 1325 sq in, 567/365/367: 1440 sq in, 365 FEPTO: 1184 sq in, 389/367 HH: 1669 sq in, 348: 1000 sq in, 520: 1242 sq in.	0
3211140	S	(1) Air Cleaner Engine Mounted	0
3365280	S	Exhaust Single RH Horizontal DPF/SCR RH Under Cab.	0
Transmission & Equipment			
4052230	O	Allison 3500 RDS-P Transmission, Gen 5 Rugged Duty Series. Includes Rear Transmission Support except on MX engines, Mobil Delvac Automatic Transmission Fluid, and Water-Oil Heat Exchange. Also includes features that monitor the transmission fluid, filter and clutch condition. Will display percent life remaining for the transmission fluid, filter and clutches on the shift selector. This information may be displayed using the Mode and Up and Down buttons. A wrench icon will also be included to indicate when the transmission fluid, filter or clutches need servicing. Suited for vehicles operating on/off highway and/or requiring PTO operation. Forward ratios: 1st-4.59, 2nd-2.25, 3rd-1.54, 4th-1.00, 5th-0.75, 6th-0.65. Reverse ratios: DR-(5.00).	459
4211000	O	SPL170 HD-XL Driveline, 1 Midship Bearing	20
4252890	O	Allison FuelSense 2.0 Not Desired	0
4252950	O	Omit Allison Neutral At Stop	0
4256680	O	Allison 6-Speed Configuration, Wide Ratio Gears	0
4256920	O	Dash Mounted Push Button Shifter Available with Allison transmissions	0
4257110	O	LH Mounted Trans PTO Provisions	0
Air & Trailer Equipment			
4510190	S	Bendix AD-HF Air Dryer, Heater Bendix AD-HF air filters protects the life of your engine system and components. Proven PuraGuard oil coalescing technology in the the air dryer cartridge. This oil coalescing filter ensures the removal of oil and	0



Sales Code	Std/ Opt	Description	Weight
		oil aerosols before they can contaminate the moisture removing desiccant.	
4520420	O	Pull Cords All Air Tanks	0
4540420	S	Nylon Chassis Hose	0
4543320	S	Steel Painted Air Tanks All air tanks are steel with painted finish except when Code 4543330 Polish Aluminum Air Tanks is also selected (then exposed air tanks outside the frame rails will be polished aluminum). Peterbilt will determine the optimal size and location of required air tanks. Narratives requesting a specific air tank size or location will not be accepted for factory installation. See ECAT to determine number or location of air tanks installed.	0
4612900	O	AE Connection EOF, 7-Way Socket, Connection EOF Strapped to the rail	15
4613300	O	Body Connection w/(1) Trucklite Junction Box LH EOF	8
Tires & Wheels			
5056510	O	FF: MN 20ply 315/80R22.5 X Works Z Efficiency Rating: Poor An all-position, on/off-road tire, this tire provides unsurpassed durability against road hazards. Diameter= 42.9 inches; SLR= 19.8 inches	96
5156120	O	RR: MN 16ply 11R22.5 X Multi D Efficiency Rating: Poor Diameter= 41.4 inches; SLR= 19.4 inches	56
5190004	O	Code-rear Tire Qty 04	0
5210550	O	FF: Accur Stl Armor 29039PK 22.5X9.00 PHP10-5 Hand Holes	80
5311990	O	RR: Accu-Lite Steel Armor 51408PK 22.5X8.25 PHP10-2 hand holes	12
5390004	O	Code-rear Rim Qty 04	0
Fuel Tanks			
5584040	O	D-Shaped Aluminum 50 Gallon Fuel Tank LH U/C Non-slip step LH under cab	0
5602050	O	Location LH U/C 50 Gallon	0
5652830	O	Polish All Fuel / Hydraulic Tank Straps Does not apply to rectangular DEF tank straps	0
5652900	O	DEF Tank Mounted LH Under Cab	0
5652990	O	DEF To Fuel Ratio 2:1 Or Greater	0



Sales Code	Std/ Opt	Description	Weight
5653270	O	Fuel Tank Drain Plug	0
5655019	S	DEF Tank Small, HD 14 Gal 2.1M MD 5.5 Gal	0
Battery Box & Bumper			
6010800	O	Install Batteries On Temp Plywood Support BOC Includes maximum length battery cables allowable per engine manufacture requirements. Recommend three or more batteries for Class 8.	-97
6040550	S	Aftertreatment Aluminum Non-Slip Cab Entry Aftertreatment right-hand under cab step. DPF/SCR for diesel engines, catalyst for natural gas engines. On Models 579 specifying chassis fairings, the box is aerodynamic.	0
6121770	O	Steel Bumper Tapered Painted Two tow points, painted same color as frame	122
Cab & Equipment			
6510150	S	Aerodynamic 107in BBC Aluminum Cab & SMC Hood With molded gray crown.	0
6540160	O	Thermal Insulation Package in Cab Includes thick, closed-cell foam in floor, special mylar-faced foam in walls and roof structure.	2
6540740	O	Peterbilt Keyless Entry The Peterbilt key fob functions to lock or unlock the vehicle. With a single click, the drivers door is locked or unlocked and with a double click all doors are locked or unlocked. The third button, depicted by a picture of a lamp, will start the exterior light self-test sequence, helpful when performing the daily pre-trip inspection.	2
6800180	O	Hood Crown - Bright Finish ipo Molded Gray	0
6800340	O	Rubber Fender Lips 4" Extra Wide	8
6917320	S	Seats Inc. Driver Seat	0
6923160	O	(2) Person Passenger Seat	-10
6930500	O	Drivers Armrest - RH Only	2
6939110	S	Toolbox Under Passenger Seat Non-Suspension Seat	11
6939400	S	Air Ride Driver	0
6939420	O	High Back Driver	0
6939470	S	Vinyl Driver	0
6939510	S	Non-Air Ride Passenger	0



Sales Code	Std/Opt	Description	Weight
6939540	O	Low Back Passenger	0
6939570	S	Vinyl Passenger	0
7000065	O	Metal Interior Door Panel Kick Plates	2
7001520	S	Adjustable Steering Column - Tilt/Telescope	0
7001620	S	Steering Wheel With Peterbilt Logo Steering Wheel with embossed Peterbilt logo over horn button.	0
7036130	O	Interior Grey/Black - Curved Roof	0
7210510	O	3-Piece Glass Rear Cab Window, All Pieces Fixed	12
7210540	S	Day Cab Rear Window Day cab rear window flush to back of cab.	0
7230060	S	1-Piece Curved Windshield	0
7230360	S	Power Door Locks and Power Window Lifts Standard	0
7322010	S	Combo Fresh Air Heater/Air Conditioner With radiator mounted condenser, dedicated side window defrosters, Bi-Level Heater/Defroster Controls, 54,500 BTU/HR, and silicone heater hoses.	0
7410040	O	Outside Sunvisor - Stainless Steel Not available with 2.1M high roof sleeper.	4
7510070	S	Aero Rear View Mirror Housing, Molded Black	0
7514010	O	Peterbilt Aero Rear View Mirror, Motorized Includes top mirror with motorized, adjustable dual axis heated glass. Bottom mirror is an integrated convex surface. Includes black textured arms with breakaway feature.	3
7514050	S	Look Down Mirror Over Passenger Door with Black Housing	0
7610500	S	Air Horn Mounted Under Cab	0
7721050	O	Satellite Radio Requires USB port and bluetooth for phone and audio.	0
7722120	O	ConcertClass, AM/FM, Weatherband, 3.5 Aux	11
7725710	O	Standard Speaker Package For Cab (2) Speakers	4
7728030	O	Radio Mute When In Reverse For automatic or automated transmission	0
7728040	O	Bluetooth Phone and Audio Requires USB Port	0
7728050	O	USB Port	0



Sales Code	Std/Opt	Description	Weight
7788055	O	SmartLINQ Remote Diagnostics SmartLINQ is Peterbilts proprietary remote diagnostics service which monitors the engine and aftertreatment for diagnostic codes providing real-time code analysis maximizing vehicle uptime and strengthening the fleets partnership with their dealer. SmartLINQ provides fault coverage for over 800 codes, a customizable email notification for 116 codes plus a web portal to manage your entire fleet included at no additional charge. SmartLINQ is compatible with any telematics system and doesnt require a specific fleet management system. For those whose customers utilize PeopleNet, the pre-wire with remote diagnostics will provide a more integrated solution utilizing the existing SmartLINQ modem. For those whose customers utilize other fleet services products, the existing pre-wire option for the other fleet service devices will continue to be available. Standard on Class 8 engines and available on Models 348, 337, 330 and 325 with a PX-9, PX-7 or Cummins Westport natural gas engine.	0
7788057	O	24 Months SmartLINQ Subscription PACCAR PX Engines.	0
7851480	S	Peterbilt Electric Windshield Wipers With Intermittent Feature.	0
7852020	O	Cab Air Suspension	15
7852050	O	Auto Reset Circuit Protection Daycab and Sleeper	0
7852100	U	Altec Pre-wire	0
7853050	O	Back Of Cab Body Connection Pass-Thru Use with Deutsch DRBF-1 connector housing.	0
7855120	O	Bugscreen - Removable External Mounted	2
7900970	O	Backup Alarm Wiring To EOF	6
8011850	O	Transmission Oil Temperature (Main) Located in Digital Cluster Display.	0
8021380	S	Air Restriction Indicator Mounted on air cleaner, intake piping, or firewall	0
8021810	O	Brake Application Air Pressure (Tractor) Located in Digital Cluster Display.	0
8070080	O	(2) Additional Dash Switches With Wiring Located on dash panel C. Availability subject to dash space. Includes 4" 14 gauge wire with butt splice at rear of each additional switch.	0
8070390	O	Engine Hourmeter Gauge Located in Digital Cluster Display	0
8070450	O	Engine PTO Hourmeter Gauge Located in digital cluster display	0
8070810	O	Engine Manifold Pressure (Turbo Boost) Located in Digital Cluster Display	0
8070820	O	Engine Percent Torque	0



Sales Code	Std/Opt	Description	Weight
		Located in Digital Cluster Display	
8070860	S	Main Instrumentation Panel Digital Cluster 7" Display includes: Physical (Analog) - Speedometer, Tachometer, Oil Pressure, Coolant Temp and Display Gauges - Fuel Level, DEF Level, DPF Filter Status, Fuel Economy, Volts Telltale, OAT and Primary Air Pressure, Secondary Air Pressure for air brake trucks.	0
8070940	O	Voltmeter Gauge (MD / 520 ONLY) Located in Digital Cluster Display	0
8111110	S	Headlights Composite Fender Mounted Integral park, turn, and side marker	0
8120980	S	(5) Marker Lights, Aero LED	0
8133110	O	Switch & Wiring F/O Auxiliary Light Under cab/sleeper (15 amp max), includes switch on the dash that will power metri-pack sealed connections at the left-hand / right-hand side of cab at base of the firewall. Bundle panel light harness break outs with firewall harness.	2
8134160	S	Self-Canceling Turn Signal	0
8140080	S	LED Stop/Turn/Tail/Backup Bracket mounted left-hand / right-hand end of frame	-7
8140850	S	Moveable EOF Crossmember For Mounting Tail Lights Square end of frame with or without end of frame crossmember	1
Paint			
8500710	S	Standard Paint Color Selection	0
8530770	S	(1) Color Axalta Two Stage - Cab/Hood Base Coat/Clear Coat N85020 A - L0006EY WHITE N85700 BUMPER L0006EY WHITE N85500 CAB ROOF L0006EY WHITE N85300 FENDER L0006EY WHITE N85200 FRAME L0001EA BLACK N85400 HOOD TOP L0006EY WHITE	0
Shipping Destination			
Options Not Subject To Discount			
9400091	S	Peterbilt Class 7 Standard Coverage 1 year/Unlimited Miles/km	0
9400093	O	PACCAR PX-7 Standard Coverage 3 years/Unlimited Miles/Unlimited hrs	0
9408728	O	PACCAR Dealer Global Supply Base Surcharge	0
9408931	O	PDI At Excellence Peterbilt Location	0
9408982	O	Vehicle Layout	0



<i>Sales Code</i>	<i>Std/ Opt</i>	<i>Description</i>	<i>Weight</i>
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Option is not subject to discount. Fleets will be split prior to build so that the charge is applied to only one unit. Quotes will not reflect this.

Narr AA55

Miscellaneous

9409045	S	Aero Hood (MODEL 548)	0
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9409831	O	2021 EPA Emissions Engine Warranty Only	0
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Promotions**Order Comments**



Total Weight

11,690

Prices and Specifications Subject to Change Without Notice.

Unpublished options may require review/approval.
Dimensional and performance data for unpublished options may vary from that displayed in CRM.

PRICING DISCLAIMER

While we make every effort to maintain the web site to preserve pricing accuracy, prices are subject to change without notice. Although the information in this price list is presented in good faith and believed to be correct at the time of printing, we make no representations or warranties as to the completeness or accuracy of this information. We reserve the right to change, delete or otherwise modify the pricing information which is represented herein without any prior notice. We carefully check pricing specifications, but occasionally errors can occur, therefore we reserve the right to change such prices without notice. We disclaim all liability for any errors or omissions in the materials. In no event will we be responsible for any damages of any nature whatsoever from the reliance upon information from these materials. Please check your order prebills to confirm your pricing information



Shipping Destinations

Intermediate Destination: PDI at Excellence

Final Destinations	Quantity
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FRAME RAKE



The listed heights should be measured in configurations due to variations which may occur in manufacturing, individual component tolerances, weight, etc., and the way in which the vehicle is loaded.

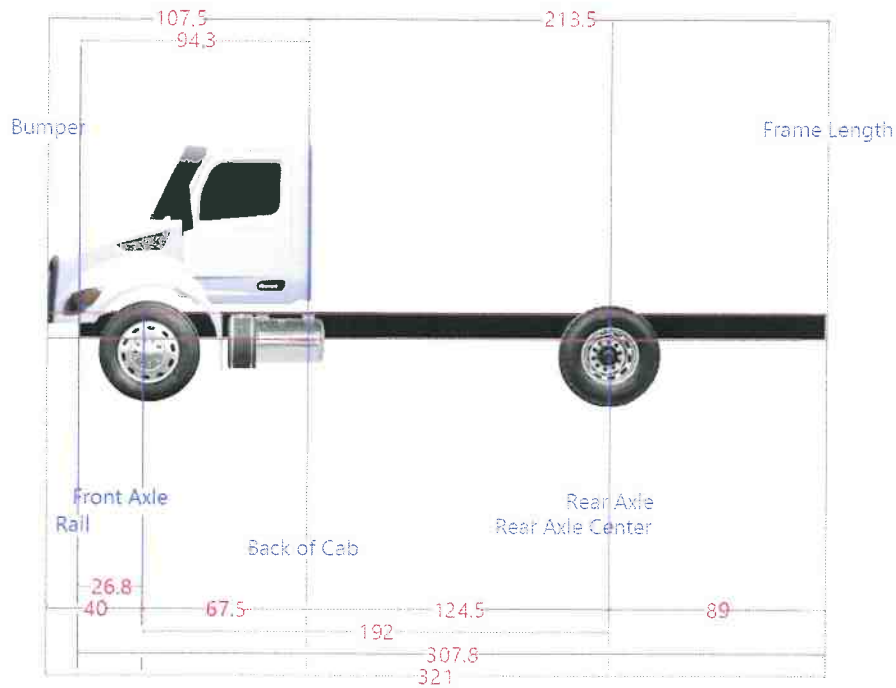
Component	Sales Code	Description	Laden	Unladen
Frame	0815020	10-5.0" Steel Rails 286 X 25"	10.6	10.6
Front Spring	1112190	Topo Leaf Springs, Blocks 14000 Lb	7.7	8.5
Front Axle Drop (A.S.)	1011600	None/Spec F1402 14,000 Lb 3.5 in Drop	0.0	0.0
Height Adj.	0000000	None	0.0	0.0
Front Tires	5056510	17.5 MN 22ply 415R225C2 (2 Wrecks 2)	39.0	41.0
Front Frame Height			34.9	42.4
Frame	0515010	10-5.0" Steel Rails 286 X 25"	10.0	10.6
Bumpy Belly Adj.	0000000	No Adjustment	0.0	0.0
Suspension	1010020	Res of 2000-Mult Leaf 21000 Lb	3.8	11.8
Saddle Height Adj.	0000000	No Adjustment	0.0	0.0
RestriCTOR-CAN Adj.	0000000	No Adjustment	0.0	0.0
Rear Tires	5050100	16.5 MN 16ply 11R22.5 X 1400 D	19.6	20.7
Rear Frame Height			39.0	42.0
Frame Rake			0.1	0.5
Frame Rake Slope (%)			0.1	0.3

These characteristics are considered to be out of standard range. Laden axle more than 10% of wheelbase from level position or negative.

VERTICAL DIMENSIONS

Vertical Dimension	Laden	Unladen
Ground to Bottom of Frame	28.3	32.0
Bottom of Frame to Top of Roof or Fitting	32.9	37.9
Ground to Top of Roof or Fitting	100.3	109.9
Exhaust Height	N/A Horizontal Exhaust	
Ground Clearance	Laden	
RH U/C	11.6	
LH U/C	12.0	
GBF Tank	4/ALLD*	
RH BDC 1	N/A	
LH BDC 1	N/A	
RH BDC 2	N/A	
LH BDC 2	N/A	

HORIZONTAL DIMENSIONS



Dimension	Measurement	Start	End
Axle Spacing	0	192	192
Bumper to Back of Cab	107.5	-40	67.5
Bumper to Front Axle	40	-40	0
Bumper to Front Frame	15.2	-40	-26.8
Cab to End of Frame	213.5	67.5	281
Cab to End of Frame/Loadspace	CAB TO END OF FRAME EQUALS LOADSPACE ON THIS CONFIGURATION.		
Cab to Rear Axle	124.5	67.5	192
Effective Bumper to Back Of Cab	107.5	-40	67.5
Frame Length	307.8	-26.8	281
Front Axle to Back of Cab	67.5	0	67.5
Front of Frame to Axle	26.8	-26.8	0
Load Space	213.5	67.5	281
Overall Length	321	-40	281
Overhang	89	192	281
Pusher Offset #1	0	192	192
Pusher Offset #2	0	192	192
Pusher Offset #3	0	192	192
Tag Offset	0	192	192
Wheelbase	192	0	192

VEHICLE WEIGHT RATING



FRONT AXLE COMPONENTS

Component	Sales Code	Description	Rating
Axle	1011860	Dana Spicer E140D 14,000 lb, 3.5 in. Drop	14,000
Springs	1112150	Taper Leaf Springs, Shocks 14,600 lb	14,600
Power Steering	1248060	Power Steering Sheppard SD110	16,000
Hubs, Drums	1354845	PRPTO Iron PreSet Hubs	21,000
Tires	5058510	RR/MN 26ply 315/80R22.5 X Work S2	18,180
Wheels	5216550	RR Accur S6 Armor 29039PK 22 5X9.00	20,000
		Minimum	11,000
		Maximum	14,000

The front axle weight rating cannot exceed 14000.

REAR AXLE COMPONENTS

Component	Sales Code	Description	Rating
Axle	1515370	Dana Spicer S21-173 Single Axle, 21000 lb	21,000
Hubs, Drums	1616380	PRPTO Aluminum PreSet Hubs	69,000
Suspension	1916020	Rayco 25KB Multi Leaf 23,000 LB	23,000
Tires	5155120	RR/MN 16ply 11R22.5 X Multi B	24,020
Wheels	5311950	RR Accu-Lite Steel Armor S1408PK 22 5X8.25	29,600
		Minimum	19,000
		Maximum	21,000

The rear axle weight rating cannot exceed 21000.

GROSS COMBINATION WEIGHT RATING

GCWR (lbs)	45,000
Min	35,000
Max	100,000

The Gross Combination Weight Rating rating cannot exceed 100000.

WEIGHT DISTRIBUTION

Model: 548

Actual performance of a specific unit can be affected by your operating conditions. The performance calculations should only be used as a guideline.



Recommended payload center of gravity to achieve specified ground loads, measured from centerline of drive axle, 48 in. from the centerline of the drive axle(s).

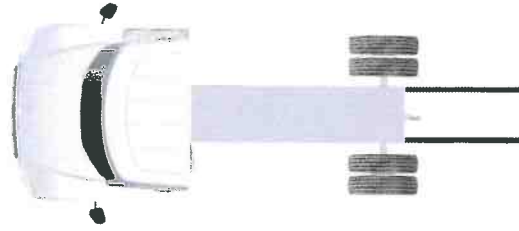
Weight (lbs)	Front	Rear	Total
Chassis	7692	3998	11690
Tools/Driver	287	88	375
Fuel & DEF	332	130	461
Max Payload	5689	16765	22474
Auxiliary Payload	0	0	0
Total	14000	21000	35000
Specify Ground Load	<input type="text" value="14000"/>	<input type="text" value="21000"/>	<input type="text" value=""/>

Auxiliary Payload

Item	Location from FA CL	Weight	Point Description
Load Point #1	<input type="text" value="0"/>	<input type="text" value="0"/>	
Load Point #2	<input type="text" value="0"/>	<input type="text" value="0"/>	
Load Point #3	<input type="text" value="0"/>	<input type="text" value="0"/>	
Component(s)	-	0	Composite Totals

Fifth wheel slide length is 0 inches.
 Selected rearmost setting is 0 inches.
 Wheelbase measurement: 192 inches
 Overhang measurement: 89 inches

FRAME LAYOUT



Note: The image displayed is representative only. It should not be construed as a layout diagram. Dimensions and components are not to scale.

Selected Options (When Equipped)

Sales Code	Description	Length	Side
004035U	Wheelbase with Midwheel Rear Step (Gasoline)	85.0"	Right
5854019	DR Tank (steel, 14.14 Gal.) (REMO 3.5 gal)	7"	Left
023424U	Optional Wheelbase To conform to Stock Drive C	52.7"	Left
0011500	total frame (to Tang) (ground support) (G.S.)	20"	Center

SPEED & GRADE PERFORMANCE REPORTS

Cruise Report (Single Fan Drive)

Configuration:	Model 2007 Full Load 2000 4500
Serial Number (S/N):	C2018780461497719
Engine:	2014700 PACCAR P747 200/2000/200/1600 200/1600
Transmission:	4DS2234 Allison 4300 6SP-D 7-Speed PowerShift
Generator:	1012278 GenCorp J-Series 500 kW Single-Phase 480V
Base Tire:	315R17E90 Michelin 1102LS X R480D 3-Speed 480V
Operating Conditions:	95 Rolling Resistance

Stability	
Transmission Ratio	Maximum Steep Grade
4:1	24%
2.5:1	16.8%

Speed (MPH)	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
Grade (%)	47.5	46.7	45.9	45.1	44.3	43.5	42.7	41.9	41.1	40.3	39.5	38.7	37.9	37.1	36.3	35.5	34.7	33.9	33.1	32.3
Net Horsepower	114	120	127	133	140	147	154	161	168	175	182	189	196	203	210	217	224	231	238	245
Grade (%)	41	37	33	29	25	21	17	13	9	5	1	-3	-7	-11	-15	-19	-23	-27	-31	-35

Gear Ratio: TRN (1): 4.09 - RAX (1): 6.14

Speed (MPH)	70	81	92	103	114	125	136	147	158	169	180	191	202	213	224	235	246	257	268	279
Grade (%)	10.9	10.6	10.3	10.0	9.7	9.4	9.1	8.8	8.5	8.2	7.9	7.6	7.3	7.0	6.7	6.4	6.1	5.8	5.5	5.2

Gear Ratio: TRN (2): 2.29 - RAX (1): 6.14

Speed (MPH)	62	74	86	98	110	122	134	146	158	170	182	194	206	218	230	242	254	266	278	290
Grade (%)	4.9	3.4	1.9	0.4	-1.1	-2.6	-4.1	-5.6	-7.1	-8.6	-10.1	-11.6	-13.1	-14.6	-16.1	-17.6	-19.1	-20.6	-22.1	-23.6

Gear Ratio: TRN (3): 1.54 - RAX (1): 6.14

Speed (MPH)	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240
Grade (%)	1.0	0.3	-0.4	-1.1	-1.8	-2.5	-3.2	-3.9	-4.6	-5.3	-6.0	-6.7	-7.4	-8.1	-8.8	-9.5	-10.2	-10.9	-11.6	-12.3

Gear Ratio: TRN (4): 1 - RAX (1): 6.14

Speed (MPH)	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230
Grade (%)	-1.0	-2.0	-3.0	-4.0	-5.0	-6.0	-7.0	-8.0	-9.0	-10.0	-11.0	-12.0	-13.0	-14.0	-15.0	-16.0	-17.0	-18.0	-19.0	-20.0

Gear Ratio: TRN (5): 0.75 - RAX (1): 6.14

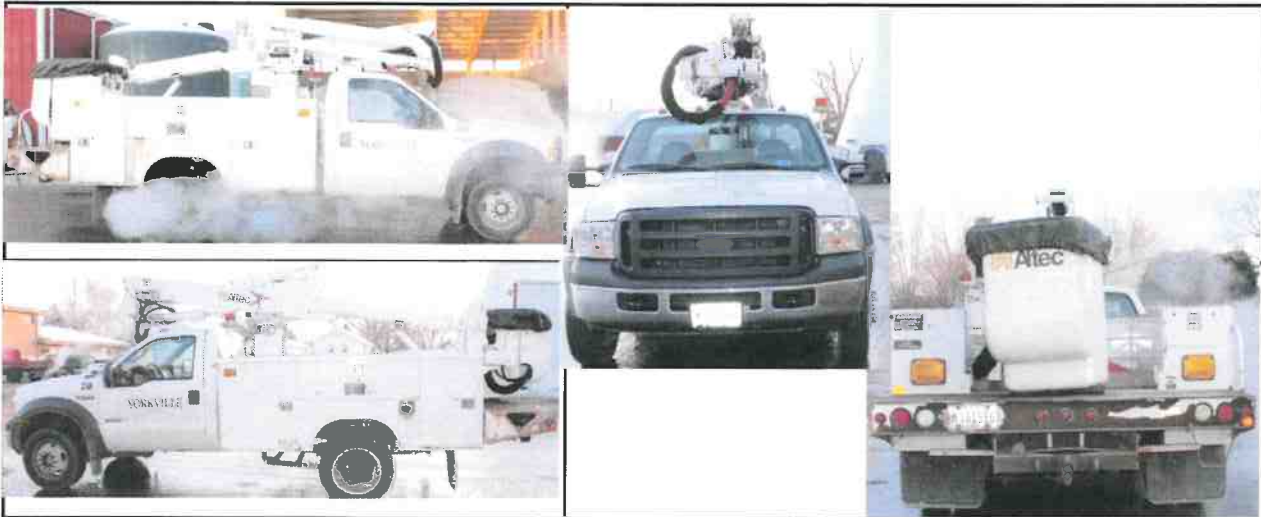
Speed (MPH)	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220
Grade (%)	-1.0	-2.0	-3.0	-4.0	-5.0	-6.0	-7.0	-8.0	-9.0	-10.0	-11.0	-12.0	-13.0	-14.0	-15.0	-16.0	-17.0	-18.0	-19.0	-20.0

Gear Ratio: TRN (6): 0.65 - RAX (1): 6.14

Speed (MPH)	25	35	45	55	65	75	85	95	105	115	125	135	145	155	165	175	185	195	205	215
Grade (%)	-2.0	-3.0	-4.0	-5.0	-6.0	-7.0	-8.0	-9.0	-10.0	-11.0	-12.0	-13.0	-14.0	-15.0	-16.0	-17.0	-18.0	-19.0	-20.0	-21.0

Speed (MPH)	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
Grade (%)	47.5	46.7	45.9	45.1	44.3	43.5	42.7	41.9	41.1	40.3	39.5	38.7	37.9	37.1	36.3	35.5	34.7	33.9	33.1	32.3
Net Horsepower	114	120	127	133	140	147	154	161	168	175	182	189	196	203	210	217	224	231	238	245
Grade (%)	41	37	33	29	25	21	17	13	9	5	1	-3	-7	-11	-15	-19	-23	-27	-31	-35

Vehicle #	Y26	Year	2006	United City of Yorkville		
Make	FORD	Model	F550 BUCKET TRUCK			
Miles	70,538 76,621	Hours	5554 4,752	Vehicle Replacement Guideline Evaluation Form		
Original \$	70,000.00	(date)	5/1/06			
Budgeted Replacement \$	\$150,000.00			Replacement Point Range:		
/Auction / Estimated Trade-in \$	\$10,000.00			Under 18 points	Condition I	Excellent
Life Expectancy	10			18 - 22 points	Condition II	Good
Type of Service	4			23 - 27 points	Condition III	Qualifies for replacement
Division	STREETS			28+ points	Condition IV	High priority replacement



FACTOR	POINTS	DESCRIPTION	VEHICLE SCORE
AGE	1	Each year of chronological age	13
MILES / HOURS	1	Each 10,000 miles of usage	7
	1	Each 700 hours of usage (priority over miles on heavy duty and off-road equipment)	
TYPE OF SERVICE	1	Standard sedans and light pickups	4
	2	Standard vehicles with the occasional off-road usage	
	3	Vehicles that pull trailers, haul heavy loads, has continued off-road usage, and police	
	4	Any vehicle involved in snow removal	
	5	Police emergency response vehicles	
RELIABILITY (PM work is not included)	1	In shop one time within a three month time period, no major breakdowns or road calls	1
	2	In shop one time within a three month time period, 1 breakdown or road call within a	
	3	In shop more than twice within a one month time period, no major breakdown or road	
	4	In shop more than once within one month time period, two or more breakdowns/road	
	5	In shop more than twice monthly, two or more breakdowns within one month time	
MAINTENANCE AND REPAIR COSTS (Accident Repairs not included)	1	Maintenance costs (cumulative total) are ≤ 10% of purchase cost	2
	2	Maintenance costs (cumulative total) are ≤ 25% of purchase cost	
	3	Maintenance costs (cumulative total) are ≤ 45% of purchase cost	
	4	Maintenance costs (cumulative total) are ≤ 60% of purchase cost	
	5	Maintenance costs (cumulative total) are ≥ 61% of purchase cost	
CONDITION	1	Good drive train and minor body imperfections (road chips, scratches)	2
	2	Imperfections in body & paint, paint fading & dents, interior fair (no rips, tears, burns),	
	3	Noticeable imperfections in body and paint surface, some minor rust, minor damage	
	4	Previous accident damage, poor paint and body condition, rust (holes), bad interior	
	5	Previous accident damage, poor paint, bad interior, drive train that is damaged or	

TOTAL 29

