ORDINANCE 2015-041    PASSED: SEPTEMBER 14, 2015

AMENDING THE FY2016 CITY OF DEKALB, ILLINOIS BUDGET, AUTHORIZING ACCEPTANCE OF THE ASSISTANCE TO FIREFIGHTERS GRANT AWARD, WAIVING THE FORMAL BIDDING PROCESS FOR THE PURCHASE OF A MOBILE TRAINING TOWER, AND AUTHORIZING THE PURCHASE OF A MOBILE TRAINING TOWER.

WHEREAS, the City of DeKalb, DeKalb County, Illinois is a home rule community with those powers granted under the provisions of the Illinois Constitution and the Illinois Municipal Code, 65 ILCS 5/1-1-1, et. seq.; and,

WHEREAS, the City of DeKalb operates pursuant to the budget process, and currently has a budget in effect for Fiscal Year 2016; and,

WHEREAS, the City of DeKalb operates a municipal Fire Department; and,

WHEREAS, the City Council finds that the Fire Department would benefit substantially from the purchase of a mobile training tower; and,

WHEREAS, the DeKalb Fire Department is the recipient of a $239,000 grant through the Federal Emergency Management Agency (FEMA) Assistance to Firefighters Grant; and,

WHEREAS, said FEMA grant requires the City of DeKalb to provide matching funds of $21,727.30; and,

WHEREAS, said FEMA grant requires formal acceptance prior to September 20, 2015; and,

WHEREAS, the mobile training tower is a specialized piece of equipment, the bid process must be waived;

 THEREFORE BE IT ORDAINED by the Mayor and City Council of the City of DeKalb, DeKalb County, Illinois, as follows:

Section 1. Budget Amendment, Acceptance of FEMA grant, Waiver of Formal Bidding Process, and Purchase Authorization:

1) Budget Amendment:

The City of DeKalb Budget for FY 2016 shall be amended as follows:
<table>
<thead>
<tr>
<th>General Fund</th>
<th>Account Number</th>
<th>Type</th>
<th>Increase/ (Decrease)</th>
<th>Revised Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Equipment</td>
<td>01-25-27-600-8599</td>
<td>Expenditure</td>
<td>$239,000.00</td>
<td>$239,000.00</td>
</tr>
<tr>
<td>Fire Grants</td>
<td>01-00-00-005-3320</td>
<td>Revenue</td>
<td>$217,272.70</td>
<td>$217,272.70</td>
</tr>
</tbody>
</table>

2) **Acceptance of FEMA grant:**

The Fire Chief and any other required City official or employee is authorized and directed to execute electronic forms necessary for the acceptance of the $239,000.00 Assistance to Firefighters grant.

3) **Waiver of Formal Bidding Process:**

The City shall hereby authorize the waiver of the formal bidding process for the mobile training tower, a specialized piece of equipment.

4) **Purchase Authorized:**

The City Manager is authorized and directed to purchase the mobile training tower and to take all actions required for the same.

**Section 2.** All ordinances or portions thereof in conflict with this ordinance are hereby repealed.

**Section 3.** Should any provision of this Ordinance be declared invalid by a court of competent jurisdiction, the remaining provisions will remain in full force and affect the same as if the invalid provision had not been a part of this Ordinance.

**Section 4.** That the City Clerk of the City of DeKalb be authorized and directed to attest the Mayor’s signature.

**Section 5.** This Ordinance shall be in full force and effect after passage.

**PASSED BY THE CITY COUNCIL** of the City of DeKalb, Illinois at a regular meeting thereof held on the 14th day of September, 2015 and approved by me as Mayor on the same day. First Reading, Recommended Waiver of Second Reading and Passage. Passed by a roll call vote of 7-0-1. Aye: Finucane, Marquardt, Snow, Noreiko, Baker, O’Leary, Rey. Nay: None. Absent: Jacobson.

**ATTEST:**

![Signature]

JENNIFER JEEP JOHNSON, City Clerk

JOHN A. REY, Mayor
September 17, 2015

Eric Hicks, Fire Chief
C/O DeKalb Fire Department
700 Pine Street
DeKalb, IL 60115

RE: Mobile Training Towers (MTT)

Dear Chief Hicks:

Thank you for the opportunity to work with you in providing our Mobile Training Tower (MTT). This is a quotation/contract for the fabrication of the MTT.

Basic Tower Specifications and Pricing of MTT:

- Basic tower on trailer, shore power to hydraulics, solid roof, door and four windows, outriggers and stabilizers, rappelling anchors, vinyl signage (50 letters max and up to $500.00), and freight, delivery, and set-up; $207,500.00
- Standpipe with Siamese or Storz, FD connection and sprinklers on each floor; $2,200.00
- Two additional windows located on second floor (this option gives six windows total); $1,200.00
- 1200 gallon belly mounted water tank in trailer with 4" or 6" inlet; $3,000.00
- Working surface on top with hand railings, gates, trap door, Grip Strut flooring and Ship Ladder to top; $3,000.00
- Diesel generator (Onan 5000W or equivalent); $9,600.00
- Smoke generator (UF-25 smoker or equivalent with adjustable ductwork); $2,500.00
- Electrical package (includes interior lights on each floor, exterior floodlights, ground fault receptacle and switches, main manual generator to shoreline transfer switch); $3,000.00
- Vertical confined space rescue tube; $4,000.00
- Forcible entry door prop; $1,500.00
- All Inclusive Signature Series Mobile Training Tower FOB (includes all above options); $237,500.00
- Detailed Specifications attached

Product Warranty:
Company shall provide a one (1) year warranty from the date of acceptance of the system that covers all components and labor. Diesel generator (Onan 5000W or equivalent) and Smoke Generator (UF-25 smoker or equivalent with adjustable ductwork) provides warranty and will be provided at delivery.
Letter/Contractual Agreement to Eric Hicks, Fire Chief
September 17, 2015
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Taxes:
DeKalb Fire Department is exempt from Federal Excise Taxes and no payment will be made for any taxes
levied on Company’s employee wages. DeKalb Fire Department is exempt from State and Local Sales
and Use Taxes on the services. A Tax Exemption Certificate will be furnished upon request.

Training:
MTT shall provide one (1) day of training on the operation, care and maintenance of the training prop.
The training is to be scheduled at a date and time acceptable to DeKalb Fire Department and within two
(2) weeks of delivery of the MTT. Training shall occur upon at the DeKalb Fire Department. All training
and associated costs shall be included in base unit proposal price.

Delivery:
All freight, delivery, and set-up fees are included in the base price. The MTT shall be delivered to the
DeKalb Fire Department located at 700 Pine Street, DeKalb, Illinois 60115. Delivery must be scheduled
at least 48 hours in advance of the delivery with appropriate staff. The MTT shall be delivered within
approximately 120 Calendar Days from the date of accepted Purchase Order to begin fabrication. All
applicable operational, safety, and add-on equipment manuals will be provided.

Payment Terms/Invoices:
C.O.D.: Due at time of delivery and acceptance.

Again, thank you for the opportunity to work with you and the DeKalb Fire Department. Please let me
know if you have any questions, or if additional information may be helpful to you. We look forward to
working with you.

Thank you,

Fred Joiner
Production Manager
478-783-4539
Fjoiner.rmc@gmail.com

Authorized Signature:

[Signature]
Fred V. Joiner, Jr.
Production Manager
Mobile Training Towers

Authorized Signature:

[Signature]
John Rey
Mayor
City of DeKalb

[Stamp]
DETAILED SPECIFICATIONS

- Trailer Configuration
  - When collapsed, this unit shall conform to DOT Regulations in order to travel over the roadway;
  - Length, width, height shall be of a nature so it has a minimum of four landings;
  - The chassis/trailer shall have reflective markings and required LED lighting to meet DOT requirements;
  - Overall height – 13'6” (approximate) (unit must be able to fit into building with a standard 14’ door when unit is in transport mode).
  - King pin location – 24” (approximate) – verify with FSTB prior to completion;
  - Coupler Height – 49” (approximate);
  - Landing gear – MK-V Holland (or acceptable alternative) 2 speed landing gear with 12” sandshoe (lift capacity of 62,500 lbs).
  - Axles/brakes – number and capacity of trailer axles shall be sufficient to meet DOT highway transport regulations for trailer/unit fully loaded and configured for training plus 10% weight margin. Brakes shall be sized to meet axle and weight requirements with automatic slack adjusters;
  - Air system-WABCO-1S-2M (or acceptable alternative anti-locking braking system (one axle sensed, one “slaved”));
  - Slack adjusters – HALDEX (or acceptable alternative) automatic slack adjusters c/w “safety brake” visual stroke indicators;
  - Tires – to meet GVWR requirements for trailer;
  - Hub and drum assembly – 8 stud hub piloted wheels;
  - Document holder – tube type in equipment compartment;
  - Conspicuity tape – meets CMVSS and FMVSS 121 law. Installed on main rail, rear door, sill and bumper;
  - A box frame super structure containing the stairwell shall have a hydraulic method of erection for the “travel” to the “operation” configuration;
  - Hydraulic system shall operate under its own power, with optional mounted generator system along with hydraulic pump and reservoir or from shore-line to provide power to hydraulic system;
  - The change from “travel” to “operational” configuration shall be able to be accomplished by one operator from a single control panel;
  - Trailer and tower shall be designed to operate under average wind loads, and shall have out-riggers or other devices as necessary to ensure safety and stability;
Detailed Specifications

- The box frame super structure with bracing shall be attached to the trailer with a pivot point on the opposite end of the trailer from the kingpin;
- Onan model HDKBC/2860, 5000 watt generator (or an acceptable alternative). Generator shall include shore power receptacle;
- All systems shall be reasonably assessable for maintenance, visual inspection and repair.

- Tower Configuration
  - The tower shall be approximately 10’X8’X36’. Within the box frame structure under operational conditions, there shall be four landings and when collapsed under the trailer, shall not exceed the length limitations as established by DOT guidelines for over the road transport. In addition, the system shall be designed as to not exceed established weight loads for standard transport trailers and therefore shall not require special permits;
  - The box frame structure shall be constructed of a material impervious to water and rot, and shall have sufficient strength to perform under heavy and abusive use. (Please note, the box frame is transported to Valmont Coating in Kansas, hot-dipped and galvanized in its entirety);
  - All sides and openings shall be constructed so there are no sharp edges or unsafe conditions and shall be designed for a person to climb on or around the system and not be harmed by such protrusions;
  - All landings and interior stairs shall be able to handle a minimum live load of 1,500 lbs;
  - Each landing above the base shall have headroom of approximately 9’0”;
  - The base landing shall have a standard 3’0”X6’8” solid door constructed of material impervious to water and have sufficient strength to perform under heavy and abusive use. This door shall be on side “C”. The lock shall be constructed so that a person cannot be locked in the tower, but the tower can be locked from the exterior to prevent unauthorized entry. Each shall be keyed the same and four sets of keys shall be included upon delivery. Padlock is acceptable;
  - Each landing above the base shall have a minimum of one 3’0” X 4” window opening. The bottom of the opening shall be of window height from the landing of floor and shall utilize double “dutch-door” type shutter system to close the opening. Each window at individual landings shall be on the side “B or D”.
    - There shall be a locking mechanism in place so that the window shutters can be secured from the inside. The window shutters shall be constructed of a material impervious to water and have sufficient strength to perform under heavy water and abusive use. There shall be a system to secure window shutters in an open position for use. The frame around the openings shall be constructed so there are no sharp edges or unsafe conditions and shall be a primary attachment for rappelling hardware;
  - All steps and landings shall have “Grip Strut Steps” or acceptable alternate to provide a slip free walking surface. Handrails shall be provided as necessary;
Detailed Specifications
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- The upper most level shall have a safety railing constructed of metal and shall be constructed to withstand heavy and abusive use. The height of the railing shall meet applicable codes and regulations, such as OSHA, to protect persons from falling. There shall be gates on all four sides of this railing to allow rappelling access;
- Access to the uppermost landing shall be by means of a “ship ladder” continued from the interior of the structure. The open shall be large enough to allow a fully equipped firefighter to walk up the ship ladder and onto the uppermost landing. There shall be a method of closing this opening. When closed, there shall be a lock, which is securable from the inside and each to access from the ship ladder. When open, the door shall not impede work or movement on the uppermost landing;
- The uppermost landing shall have a minimum of two primary and two secondary attachments for rappelling hardware.

- Operations: Power
  - Power: The system shall be under its own power and shall have a self-starting generator;
  - Weatherproof outlets providing household current shall be provided and shall be protected from water spray. They shall be installed in accordance with the latest version of the National Electric Code and shall be ground fault circuit interruptible;
  - The main breaker panel shall be provided with a main disconnect. In addition, applicable separate and independent circuits shall be separated and labeled. This shall be independent of readily accessible lighting switches (see lighting section).

- Operations: Lighting
  - The exterior shall be lighted in such fashion so all sides can be illuminated for safety and use during night hours without the aid of any other external lighting;
  - Each landing shall be lighted in such a fashion so travel around the landing or up or down the stairs is illuminated for safety and use during night hours without the aid of any external lighting;
  - Each light group shall be independently controlled without regard to any other (each stairwell group, exterior sides, etc);
  - Lighting shall be installed according to the latest version of the National Electric Code specifications for outdoor/wet area use. Lighting shall be protected from water spray, contact with equipment, or any other foreseeable contact that may cause damage. However, lighting shall be installed in a manner that can be maintained and bulbs or other appliances may be serviced as needed;
  - All exterior/interior lights will be controlled at ground level;
  - All lighting shall have the ability to be switched from generator to an outside source.
Detailed Specifications

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- Operations: Controls
  - The system controls shall be in a single location protected from the elements and installed in accordance with applicable codes. System controls include, but are not limited to: light switches, generator controls, smoke controls, etc. Controls may be grouped for convenience or for necessity.

- Specialized Features: Sprinkler System
  - The system shall have a dry-pipe sprinkler system installed;
  - The parts shall consist of a Fire Department Connection (FDC) with a check valve, a riser, and a cross main feeding an ordinary classification sprinkler head at each landing, and a main drain;
  - The stand pipe system and sprinkler system are combined; both are from 1 FDC Siamese or Storz. There is a connection (2 1/2") on 2nd, 3rd and 4th Floors with individual ball valves to each sprinkler.

- Specialize Features: Standpipe System
  - The system shall have a standpipe system installed;
  - The parts shall be unrelated to the sprinkler system and consist of a FDC, a riser, and a Class 1 connection at a height consistent with applicable code, at each landing except roof. The connections may not interfere with a person's travel along the landing, up or down stairs, or in or out window or door;
  - The standpipe system shall be NFPA 14 compliant. The system shall have a standpipe FDC on the exterior wall of side "B and D" at a height consistent with applicable codes near the sprinkler connection. The FDC shall be for commercial and not residential applications;
  - All connections shall conform to national standard threads.

- Specialized Features: Smoke Generator
  - The system shall have a smoke generator (UF-25 smoke machine – 12,000cfm, or acceptable alternate) with a manual damper fitted outlet on each floor. The smoke generator shall be mounted in a location protected from dust, water or other contaminants, while still accessible for filling the fluid or other routine maintenance;
  - The smoke generator shall have its controls easily accessible and shall be the smoke capable of being piped to any or all of the landings independent of any other.

- Safety:
  - Various internationally recognized symbols and/or language shall be used at hazardous locations on the system. Those notifications will include, but are not limited to, conditions that may cause death or serious injury and injury or damage to equipment, high voltage areas, pinch points or crush zones;
Detailed Specifications
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- Warning signs shall be clearly displayed in all areas that could present a dangerous or unsafe condition;
- The system shall be in compliance with recognized engineering practices along with NFPA, OSHA, national, state, local codes and standards.