

**NOTICE OF OPEN MEETING & VOTE TO  
CLOSE PART OF THE MEETING**

**A G E N D A**

**COUNCIL MEETING**

**City of Moberly**

**City Council Room – Moberly City Hall**

**101 West Reed Street**

**October 18, 2021**

**6:00 PM**

**AMENDED AGENDA**

**Posted:**

**Pledge of Allegiance**

**Roll Call**

**Approval of Agenda**

**Approval of Minutes**

**1. Approval Of Minutes.**

**Recognition of Visitors**

**Communications, Requests, Informational Items**

**2. Request From The YMCA To Hold The 2021 Turkey Trot 5K November 25, 2021.**

**Public Hearing and Receipt of Bids**

**3. Receipt Of Bids For Demolition Of Accessory Building.**

**4. Receipt of Bids for lease-purchase financing for new 2022 Rosenbauer pumper and used 2006 Sutphen aerial (ladder) fire trucks.**

**Ordinances & Resolutions**

**5. An Ordinance Adopting The Recommendation Of The Planning And Zoning Commission To Approve The Re-Zoning Application Of Redhead Properties Family Trust For Property Located At 317 Patton Street.**

**6. A Resolution Accepting The Bid And Authorizing Contracting With Wiedeman Dozing, LLC For Demolition Of Four Accessory Structures.**

**7. A Resolution Authorizing A Lease Termination Agreement And Two Hangar Leases With Graves And Zandra Sanford And Nancy Rivera.**

**8. A Resolution Accepting The Proposal Of Rosenbauer South Dakota, LLC For Rental Of A Fire Pumper Truck And Ratifying The Execution Of A Lease Agreement.**

**9. A Resolution Accepting The Bid Of Moberly Motors For A Fire Command Supervisor Vehicle In The Amount Of \$38,655.00.**

**10. A Resolution Authorizing The Purchase Of A New Engine Pumper For The Moberly Fire Department.**

**11. A Resolution Authorizing The Purchase Of A 2006 Sutphen Aerial Truck For The Moberly Fire Department.**

**12. A Resolution Authorizing The Submission Of A Proposed Ordinance For Pretreatment Modifications To The Missouri Department Of Natural Resources.**

**13. A Resolution Approving A Lease Agreement With Marine Toys For Tots Foundation For Property Located At 218 W Reed Street And Authorizing The City Manager To Execute The Lease.**

**14. A Resolution Authorizing Execution Of An Addendum To The Fuel Card Services Agreement Between Wex Bank And Sourcewell For The State Of Missouri.**

15. A Resolution Appropriating Money Out Of The Treasury Of The City Of Moberly, Missouri.

**Official Reports**

16. Department Head Monthly Reports.

**Anything Else to Come Before the Council**

17. Consideration Of A Motion To Adjourn To A Work Session Followed By A Closed Session To Discuss The Status Of Pending Negotiated Contracts. (Closed Statute 610.021) (12)

**Adjournment**

We invite you to attend virtually by viewing it live on the City of Moberly You Tube Live Channel, Facebook page. A link to the City's Channel can be found on our website's main page at [www.cityofmoberly.com](http://www.cityofmoberly.com). The public is invited to attend the Council meeting. Representatives of the news media may obtain copies of this notice by contacting the City Clerk. If a special accommodation is needed as addressed by the Americans with Disabilities Act, please contact the City Clerk twenty-four (24) hours in advance of the meeting.



September 15, 2021  
City of Moberly, Missouri Council Minutes

Council met in a special session at 1:00 p.m. at the Sugar Creek Lake Ranger Station, 2507 County Road 1310, Moberly, Missouri, with Mayor Jeffrey presiding.

Council Members answering the roll call were: Jerry Jeffrey, Tim Brubaker, John Kimmons, Cole Davis, and Austin Kyser.

Also present were City Manager, Brian Crane; City Attorney, Randall Thompson; and City Clerk, Shannon Hance.

A motion was made by Kyser and seconded by Kimmons to adjourn to a work session. Ayes: Jeffrey, Brubaker, Kimmons, Davis, and Kyser. Nays: none.

A work session of the City Council was held. Goals and objectives were discussed.

September 20, 2021  
City of Moberly, Missouri Council Minutes

Council met in a special session at 5:00 p.m. at the Moberly Municipal Building, 204 North Clark Street, Moberly, Missouri, with Mayor Jeffrey presiding.

Council Members answering the roll call were: Jerry Jeffrey, Tim Brubaker, John Kimmons, and Cole Davis. Absent: Austin Kyser.

Also present were City Manager, Brian Crane; Finance Director, Greg Hodge; Personnel Director, Marva Viley; Community Development/Public Works Director, Tom Sanders; Police Chief, Troy Link; Utilities Director, Dana Ulmer, Parks and Recreation Director, Troy Bock; Fire Chief, Don Ryan; Executive Assistant, Shirley Olney; City Attorney, Randall Thompson; and City Clerk, Shannon Hance. Tim Warren and Jenny McKinzie of Enterprise Fleet Management were in attendance to give a presentation.

City Manager, Crane, and Finance Director, Hodge, introduced Tim Warren and Jenny McKinzie of Enterprise Fleet Management. Warren and McKinzie gave a presentation of Enterprise Fleet Management.

A motion was made by Brubaker and seconded by Davis to adjourn. Ayes: Jeffrey, Brubaker, Kimmons, and Davis. Nays: None. Absent: Kyser.

September 20, 2021  
City of Moberly, Missouri Council Minutes

Council met in regular session at 6:00 p.m. in the City Hall Council Chambers with Mayor Jeffrey presiding.

All stood and recited the pledge of allegiance led by Mayor Jeffrey.

Council Members answering the roll call were: Jerry Jeffrey, Tim Brubaker, John Kimmons, Cole Davis, and Austin Kyser.

A motion was made by Kyser and seconded by Davis to approve the agenda. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

A motion was made by Kyser and seconded by Brubaker to approve the minutes of the September 2, and September 7, 2021, Council meeting as presented. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

A request approving to extend the road closure of the 100 block of 4th Street on September 25, 2021, from 3:00 p.m. until Sunday, September 26, 2021, at 10:00 a.m., and lift Ordinance 6-5 was received from the Moberly High School Classes of 1980 and 1981 for a class reunion. They also request permission to erect a 20' x 40' tent on the street directly in front of the 4th Street Theatre. The reunion committees also request the lifting of Ordinance 6-5, public consumption of alcohol, from 6:00 p.m. September 25, to 12:00 a.m. September 26, for consumption of alcoholic beverages in the tent area and the sidewalk directly between 4th Street Theatre and the tent. The serving of alcohol will be within the 4th Street Theatre only. The lifting of Ordinance 6-5 is only applicable to the sidewalk directly in front of the 4th Street Theatre and the tent area. The Moberly Chamber of Commerce already has approval to close the 100 block of 4th Street for Junk Junction and the JROTC car show on September 25, 2021, until 7:00 p.m. As the street is already closed until 7:00 p.m., this agenda request will be extending the closure of the 100 block of 4th Street until 10:00 a.m. Sunday, September 26, 2021. Megan Schmitt, Executive Director of the Moberly Area Chamber of Commerce, granted permission for the classes of 1980 and 1981 to use the 100 block of N 4th at the conclusion of the JROTC car show. A motion was made by Kimmons and seconded by Davis to approve the request to extend the road closure for 4<sup>th</sup> Street on September 25, 2021, and lift Ordinance 6-5. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

A request was received from Jeremy Kitchen to hold the annual Cowboys for Christmas Parade on November 6, 2021, beginning at 12:00 p.m. at the Lodge in Rothwell Park. This annual event benefits Randolph County area children. The parade route is as follows: travel from the Lodge south on Rothwell Park Road, across the dam to Holman Road, left on Holman Road, north to Concannon Street, right onto Concannon, east to Johnson Street, south to West Rollins Street, right onto West Rollins Street, west to College Avenue, left on College Avenue, south to Fisk Avenue, turn right and travel west on Fisk Avenue to Rothwell Park Road at the maintenance building, turn right and then return to the Lodge on Rothwell Park Road. Approximately 50 units are expected to participate. Those participants will be on horseback or riding in horse drawn conveyances.

Six persons are expected to be available to help with the parade along the route. A motion was made by Brubaker and seconded by Kyser to approve the request to hold the annual Cowboys for Christmas Parade on November 6, 2021. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

The following bids were received for the Police Department Parking Pad Replacement: **Spilman Concrete LLC**, \$8.50 per square yard for a total of \$6,715.00. Local concrete contractors DMC Concrete and Bohm Construction were contacted and asked to bid; however, neither bid the project. A motion was made by Davis and seconded by Kimmons to accept the bids. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none

The following bids were received for the replacement of the Police Department Security Cameras: **Tiger Security** - \$15,080.00; **Road Runner Low Voltage** (Scott Dunwoody) - \$11,396.00; and **The Tech Shop** - \$13,469.00 and \$9,453.00 (16 cameras). A motion was made by Brubaker and seconded by Kyser to accept the bids. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none

Kyser introduced "**A RESOLUTION GRANTING A DRIVEWAY EASEMENT TO THE BOBBY N. BLADES TRUST**" and made a motion for it to be read. Kyser seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Brubaker and seconded by Kimmons to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Brubaker introduced "**A RESOLUTION ACCEPTING THE BID OF SPILLMAN CONCRETE LLC FOR CONCRETE PARKING PAD REPLACEMENT AT THE MOBERLY POLICE DEPARTMENT**" and made a motion for it to be read. Kimmons seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Kimmons and seconded by Davis to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Kimmons introduced "**A RESOLUTION AUTHORIZING STREET CLOSURE AND PUBLIC CONSUMPTION OF ALCOHOL FOR MOBERLY HIGH SCHOOL CLASSES OF 1980 AND 1981 REUNION**" and made a motion for it to be read. Davis seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. Diane Panjada, 1422 E McKinsey Street, Moberly, MO, was present and addressed the Council on behalf of the JROTC Car Show. She requested that the Council allow more time for the owners of cars to move their vehicles since the car show ended at 2:00 p.m. The Council stated the resolution directs closure of the street at 5:00 p.m. and three hours was a reasonable time frame allowing people to move their cars before the street closure. A motion was made by Brubaker and seconded by Kyser to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Davis introduced "**AN RESOLUTION ADOPTING THE RECOMMENDATION OF THE PLANNING AND ZONING COMMISSION TO APPROVE THE GRANTING OF A CONDITIONAL USE PERMIT TO KYLE AND MEGAN EAGAN FOR SHORT TERM HOUSING RENTAL AT 1120 GLENWOOD AVENUE**" and made a motion for it to be read. Kimmons seconded the motion. Ayes: Jeffrey,

Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. Present to speak against the recommendation were Crystal Slusing Hess of 1127 Glenwood Avenue, George Benner of 1110 Fisk Avenue, Blake Beaston of 1126 Glenwood Avenue. Present to speak for the recommendation was Kyle Eagen. The Mayor asked for a motion to adopt the Resolution. No motion was made. The bill died for lack of motion and was not enacted into a Resolution.

Kyser introduced **"A RESOLUTION ACCEPTING A QUIT CLAIM DEED FROM TIMMY L. AND CONNIE L. MORGAN"** and made a motion for it to be read. Brubaker seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Kyser and seconded by Kimmons to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Brubaker introduced **"A RESOLUTION RECORDING THE DESTRUCTION OF CERTAIN LOCAL GOVERNMENT RECORDS"** and made a motion for it to be read. Davis seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Kyser and seconded by Brubaker to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Kimmons introduced **"A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE A SCOPE OF SERVICES AGREEMENT WITH BARR ENGINEERING COMPANY FOR PROFESSIONAL SERVICES"** and made a motion for it to be read. Davis seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Davis and seconded by Brubaker to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Davis introduced **"A RESOLUTION OF THE CITY OF MOBERLY, MISSOURI, ACCEPTING A MISSOURI DEPARTMENT OF NATURAL RESOURCES GRANT FOR A HISTORIC PRESERVATION PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE THE FINANCIAL ASSISTANCE AGREEMENT"** and made a motion for it to be read. Brubaker seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Brubaker and seconded by Kimmons to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Kyser introduced **"A RESOLUTION ACCEPTING PERMANENT SEWER EASEMENTS FROM THE JUNIOR COLLEGE DISTRICT OF MOBERLY AND ROBERT AND BARBARA RILEY"** and made a motion for it to be read. Davis seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Kyser and seconded by Kimmons to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Brubaker introduced **"A RESOLUTION ACCEPTING A 2021 EMERGENCY MANAGEMENT PERFORMANCE GRANT AND AUTHORIZING THE CITY MANAGER TO EXECUTE AN ACKNOWLEDGEMENT**

**OF SAID GRANT AND THE GRANT CONTRACT"** and made a motion for it to be read. Davis seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Kimmons and seconded by Kyser to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Kimmons introduced **"A RESOLUTION ACCEPTING A QUIT CLAIM DEED FROM DAVID AND DARLENE KORB"** and made a motion for it to be read. Brubaker seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Kimmons and seconded by Davis to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Davis introduced **"A RESOLUTION APPROVING A PAVING EXTENSION AGREEMENT WITH SPARTAN SELF STORAGE, LLC"** and made a motion for it to be read. Kimmons seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Kimmons and seconded by Davis to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Kyser introduced **"A RESOLUTION APPROPRIATING MONEY OUT OF THE TREASURY OF THE CITY OF MOBERLY, MISSOURI IN THE AMOUNT OF \$549,209.66"** and made a motion for it to be read. Kimmons seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis (via Zoom), and Kyser. Nays: None. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Kyser and seconded by Davis to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Monthly reports were received from various departments.

Kyser mentioned that 53 percent of our fire department calls are in support of the Randolph County Ambulance District.

Nancy Copenhaver, 1512 Ridgeline Drive, Moberly, Missouri said that she owns 812 Monroe Street and that she requested a trash container in June. She has yet to receive the trash container from Waste Management. Director of Community Development/Public Works, Tom Sanders, said that staff will follow up with Waste Management.

A motion was made by Kyser and seconded by Brubaker to adjourn to a work session followed by a closed session to discuss the status of pending legal actions and negotiated contract. (Closed Statute 610.021) (1,12). Roll call vote: Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Mayor Jeffrey reopened the meeting.

A motion was made by Kyser and seconded by Brubaker to adjourn. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

**Work Session**

The following was discussed at the Work Session:

Discussion Of A Contract With Randolph County For Radio Communication Analysis Contract.

Change Order #1 For An Increase At The Omar N. Bradley Regional Airport, Project #19-034A-1.

A Resolution Accepting The Bid Of (Blue Valley Public Safety, Inc.) Federal Signal Corporation And Authorizing Contracting For Installation Of An Emergency Warning Siren.

Discussion Of An Agreement Between MoDOT And The City Of Moberly To Allow The Pedestrian Flashers In The Right-of-Way.

A Resolution Approving A Mowing And Hold Harmless Agreement Between The City Of Moberly, Missouri And Harold Muehe For Mowing The City Airport Property.

A Resolution Approving a Mowing and Hold Harmless Agreement Between the City of Moberly, Missouri, and Gary Seidel for Mowing the City Lake Property.

Review Of A New Service Agreement With Fusion Technology.

Annual Fire Extinguisher Inspection And Maintenance Service.

October 4, 2021  
City of Moberly, Missouri Council Minutes

Council met in regular session at 6:00 p.m. in the City Hall Council Chambers with Mayor Jeffrey presiding.

All stood and recited the pledge of allegiance led by Mayor Jeffrey.

Council Members answering the roll call were: Jerry Jeffrey, Tim Brubaker, John Kimmons, Cole Davis, and Austin Kyser.

A motion was made by Kyser and seconded by Brubaker to approve the agenda. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Jeff Arp with MIRMA was present and he presented a safety grant award to the Moberly Police Department for a dash camera grant.

Kyser introduced a bill for an ordinance entitled: **"AN ORDINANCE ACCEPTING CHANGE ORDER NO. 1 IN THE AMOUNT OF \$440,531.75 TO THE OMAR N. BRADLEY REGIONAL AIRPORT RUNWAY RECONSTRUCTION PROJECT"** and moved that the bill be read two times by title for passage. Kimmons seconded the motion, and upon said motion the vote was as follows: Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The bill having previously been made available for public inspection was read by title two times. Kimmons moved that the bill be enacted into an ordinance. Davis seconded the motion. The presiding officer having called for a vote on the motion, the vote was as follows: Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Brubaker introduced a bill for an ordinance entitled: **"AN ORDINANCE AUTHORIZING A MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION INSTALLATION OF ROADSIDE FLASHERS FOR SCHOOL OPERATION AGREEMENT AND AUTHORIZING THE CITY MANAGER TO EXECUTE THE AGREEMENT ON BEHALF OF THE CITY OF MOBERLY"** and moved that the bill be read two times by title for passage. Kimmons seconded the motion, and upon said motion the vote was as follows: Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The bill having previously been made available for public inspection was read by title two times. Brubaker moved that the bill be enacted into an ordinance. Kyser seconded the motion. The presiding officer having called for a vote on the motion, the vote was as follows: Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Kimmons introduced a bill for an ordinance entitled: **"AN ORDINANCE APPROVING A COOPERATIVE AGREEMENT WITH RANDOLPH COUNTY FOR SCG CONSULTING SERVICES"** and moved that the bill be read two times by title for passage. Davis seconded the motion, and upon said motion the vote was as follows: Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The bill having previously been made available for public inspection was read by title two times. Brubaker moved that the bill be enacted into an ordinance. Kyser seconded the motion. The presiding officer having called for a vote on the motion, the vote was as follows: Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.



Davis introduced **"A RESOLUTION APPROVING A MOWING AND HOLD HARMLESS AGREEMENT BETWEEN THE CITY OF MOBERLY, MISSOURI AND HAROLD MUEHE FOR MOWING THE CITY AIRPORT PROPERTY"** and made a motion for it to be read. Kimmons seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Kyser and seconded by Kimmons to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Kyser introduced **"A RESOLUTION ACCEPTING THE QUOTATION OF FEDERAL SIGNAL CORPORATION FOR AN EMERGENCY WARNING SIREN AND AUTHORIZING THE CITY MANAGER TO EXECUTE THE SALES AGREEMENT"** and made a motion for it to be read. Kimmons seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Davis and seconded by Kyser to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Brubaker introduced **"A RESOLUTION APPROVING A MOWING AND HOLD HARMLESS AGREEMENT BETWEEN THE CITY OF MOBERLY, MISSOURI AND GARY SEIDEL FOR MOWING THE CITY LAKE PROPERTY"** and made a motion for it to be read. Kimmons seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Kimmons and seconded by Kyser to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Kimmons introduced **"A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE AGREEMENTS WITH ENTERPRISE FLEET MANAGEMENT INC. FOR LEASING AND MAINTAINING CITY VEHICLES"** and made a motion for it to be read. Davis seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Kyser and seconded by Brubaker to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Davis introduced **"A RESOLUTION AUTHORIZING THE CITY MANAGER OF MOBERLY, MISSOURI TO EXECUTE AN AGREEMENT WITH FUSION TECHNOLOGY, LLC TO PROVIDE INFORMATION TECHNOLOGY ADMINISTRATIVE SERVICES"** and made a motion for it to be read. Kyser seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Kimmons and seconded by Kyser to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Kyser introduced **"A RESOLUTION APPROPRIATING MONEY OUT OF THE TREASURY OF THE CITY OF MOBERLY, MISSOURI IN THE AMOUNT OF \$526,425.15"** and made a motion for it to be read. Brubaker seconded the motion. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none. The Resolution bill having previously been made available for public inspection was read by title one time. A motion was made by Kimmons and seconded by Davis to adopt the Resolution. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

A motion was made by Kyser and seconded by Kimmons to adjourn to a work session followed by a closed session to discuss the status of pending negotiated contract. (Closed Statute 610.021) (12). Roll call vote: Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

Mayor Jeffrey reopened the meeting.

A motion was made by Kyser and seconded by Kimmons to adjourn. Ayes: Jeffrey, Brubaker, Kimmons, Davis and Kyser. Nays: none.

### **Work Session**

The following was discussed at the Work Session:

Review Of An Agreement With State Of Missouri Fuel Card Program.

A Request From YMCA To Hold Their Annual 2021 Turkey Trot 5K November 25, 2021.

Receipt of Bids For A Supervisor Vehicle For The Moberly Fire Department.

An application submitted by Redhead Properties Family Trust requesting a zoning change from a R1 (Single-Family Residential District) to an R-3 (Multifamily Dwelling District) for the property located at 317 Patton Street.

A Resolution Approving A Lease Agreement With Marine Toys For Tots Foundation For Property Located At 218 W Reed Street And Authorizing The City Manager To Execute The Lease.

Review Of A Lease Agreement With Rosenbauer South Dakota, LLC For Rental Of A Fire Pumper Truck For The Moberly Fire Department.

Review Of A Financing Proposal For A Rosenbauer Pumper For The Moberly Fire Department.

Review A Purchase Option For A Used Aerial Truck from Shawn Locklear For The Moberly Fire Department.

Discussion of Graves Sandford Airport Leases.

October 7, 2021  
City of Moberly, Missouri Council Minutes

Council met in a special session at 6:00 p.m. at the Moberly Municipal Building, 204 North Clark Street, Moberly, Missouri, with Mayor Jeffrey presiding.

Council Members answering the roll call were: Jerry Jeffrey, Tim Brubaker, John Kimmons, Cole Davis, and Austin Kyser.

A motion was made by Kyser and seconded by Brubaker to adjourn to a work session. Ayes: Jeffrey, Brubaker, Kimmons, Davis, and Kyser. Nays: none.

A joint work session of the City Council and Moberly Area Economic Development Corporation was held. The following was discussed: Local Snapshot; Retail Strategies; Project Green Thumb; Moberly Natural Crush, Project Medical; Project North; Downtown Reinvestment; and Miscellaneous MAEDC Information.

# Direct City of Moberly

## City Council Agenda Summary

Agenda Number: #2.  
 Department: Police  
 Date: October 18, 2021

**Agenda Item:** Request from YMCA to hold the 2021 Turkey Trot 5K November 25, 2021

**Summary:** Request to hold the 2021 Turkey Trot 5K on November 25, 2021. This is a fundraiser for the Randolph County YMCA. Race will begin in the 200 block of N 5<sup>th</sup>. Runners will travel south on 5<sup>th</sup> St to Fisk Ave. Turn west onto Fisk Ave, travel to Rothwell Park Rd and Fisk Ave, turn north into Rothwell Park travel to the James Youth Cabin. Turn right at the James Youth Cabin, and travel east across the dam to Holman Rd at the war memorials. Turn south on Holman Rd, to W Reed St. Turn east on W Reed to Hagood St, cross Hagood onto Adams Street and continue east to Johnson St, cross Johnson St and continue east on W Reed St to 5<sup>th</sup> St, turn north on 5<sup>th</sup> street to the finish line in front of 214 N 5<sup>th</sup> Street. Contact person is Jamie Shirk, 660-263-3600. Expect 150 to 200 participants; expect 15-20 people to assist with the 5K. Registration begins at 7am race begins at 8am.

**Recommended Action** Approve this request.

**Fund Name:**

**Account Number:**

**Available Budget \$:**

### ATTACHMENTS:

<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input checked="" type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input type="checkbox"/> Proposed Resolution
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____

### Roll Call

**Aye** **Nay**

#### Mayor

M\_\_\_ S\_\_\_ **Jeffrey** \_\_\_ \_\_\_

#### Council Member

M\_\_\_ S\_\_\_ **Brubaker** \_\_\_ \_\_\_

M\_\_\_ S\_\_\_ **Kimmons** \_\_\_ \_\_\_

M\_\_\_ S\_\_\_ **Davis** \_\_\_ \_\_\_

M\_\_\_ S\_\_\_ **Kyser** \_\_\_ \_\_\_

Passed Failed

City of

*Moberly!*

#2.

Police Department  
Troy Link  
Interim Chief of Police  
223rd Session FBI Academy

300 N Clark Street  
Moberly, MO 65270  
Phone: 660-263-0346  
Fax: 660-263-8540

### Walk/Run Application Permit

Application Date: 9/20/2021  
(Note: Application Date must be received by staff sixty (60) days prior to the event)

Requested Date of event: 11/25/2021

Purpose of event: Turkey Trot 5K - YMCA Fundraiser

Name of event director: Jamie Shirk

Contact phone, & Address of director: 660 263 3600, 1000 Sheperd Brothers Blvd,  
Moberly, MO 65270

Approximate number of participants: 150-200

Route requested, Begin & End Time: Begin at Sundance Embroidery - 214 N. 5th Street  
downtown. Then South on 5th Street, west on Fisk Ave, north on  
Rothwell Park Dr., turn right at the James Youth Center. South on Holman Rd,  
east on Reed St., north on Hagood St., east on Adams, south on  
Johnson St., east on Reed St., north on 5th St., finish at  
Sundance Embroidery, downtown. Registration begins at 7am with the  
race starting at 8am Thanksgiving morning.  
(Please include a map diagram showing start to finish)

Will the route/streets be marked? Yes: X No: \_\_\_\_\_

Will the organization furnish personnel to assist with the event?

Yes: X No: \_\_\_\_\_ If yes, how many? 15-20

Signature of applicant: Jamie Shirk

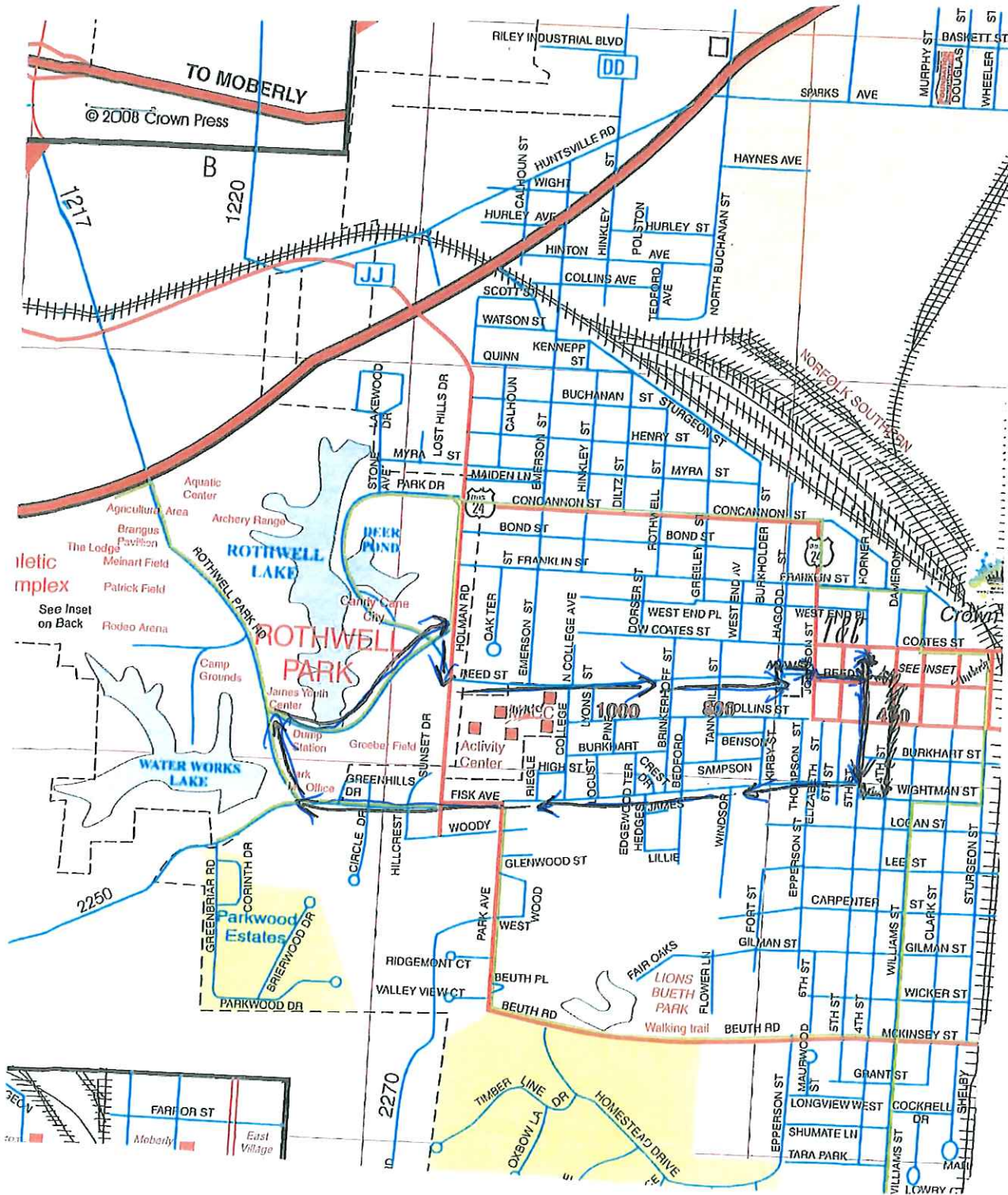
Approved: X Declined: \_\_\_\_\_

Authorizing Official: [Signature] Date: 0927 21

Emergency services assistance to monitor traffic may be provided for a period of time up to one (1) hour after the race begins.

❖ No permanent paint may be used on roads or trails. Only spray chalk or temporary paint with a life of not more than 30 days may be used.





# City of Moberly

## City Council Agenda Summary

Agenda Number: #3.  
 Department: Comm. Dev.  
 Date: October 18, 2021

**Agenda Item:** Receipt of bids for demolition of accessory building.

**Summary:** We advertised for bids on 7 accessory building within the City of Moberly, 3 of those have been repaired or removed. We received 3 bids from Wiedeman Dozing LLC, Wide Open Excavator and Shafer Excavating. Staff recommends accepting Wiedeman Dozing LLC with the low bid.

**Recommended**

**Action:** Accept these bids

**Fund Name:** Structure Demolition & Debris

**Account Number:** 100.005.5418

**Available Budget \$:** 146,421.79

ATTACHMENTS:		Roll Call	Aye	Nay
<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes	<b>Mayor</b>		
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance	M___ S___ <b>Jeffrey</b>	___	___
<input type="checkbox"/> Correspondence	<input type="checkbox"/> Proposed Resolution			
<input checked="" type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report	<b>Council Member</b>		
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition	M___ S___ <b>Brubaker</b>	___	___
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract	M___ S___ <b>Kimmons</b>	___	___
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment	M___ S___ <b>Davis</b>	___	___
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice	M___ S___ <b>Kyser</b>	___	___
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____		Passed	Failed

## Advertisement of Bids

The City of Moberly will receive sealed bids for the demolition of seven (7) residential accessory structures within the City of Moberly. The bids are due by 10:00 AM on October 6, 2021. Please return sealed bids marked “**Accessory Demolition**” to City Clerk’s Office at 101 W Reed St. Requirements and a list of properties for these bids may be obtained at the Community Development Office at City Hall, 101 West Reed Street, Moberly, Missouri 65270. The City of Moberly reserves the right to accept or reject any or all bids. For more information call (660)269-7642.

SUBMITTED BY THOMAS E. SANDERS  
CITY OF MOBERLY  
Director of Community Development



CITY OF MOBERLY

"BID OPENING"

Date: 10-06-2021

Wiederman Dozing LLC  
\_\_\_\_\_  
\_\_\_\_\_

\$ 530 madison - \$1500.00  
127 Collins - \$800.00 / \$6100.00  
325 E. Burnhart - \$1,000.00 /  
\$ 723 Fish Ave - \$2,800.00

Wilde Open Excavation  
\_\_\_\_\_

Shafer Excavating  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\$ 10,500.00  
530 madison - \$14500.00  
\$ 127 Collins - \$14,500.00 / \$64800.00  
325 E. Burnhart - \$17,900.00 /  
\$ 723 Fish - \$17,900.00

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

**City of Moberly**  
**Community Development Department**  
**Demolition Bid Form**

The City of Moberly is requesting sealed bid quotations for the structures listed below. The final bid price shall include all labor to demolish and remove all structure(s) and debris per address, as stipulated in the description of the property, the hauling away of all demolition materials to the landfill (Advanced Disposal of Macon, MO), any hauling of and including appropriate fill materials as required for per site and the final grading of the premises. **Do not include landfill costs.** Direct all inquiries to the Code Enforcement office.

Envelope must be sealed, marked "**ACCESSORY DEMOLITION**", and submitted prior to the deadline specified below. Bids not marked in this manner or submitted after the deadline will not be considered. The City of Moberly reserves the right to reject any or all bids or remove a structure(s) from the bid form for any reason whatsoever.

**Bid due date**                      **October 6, 2021**

**Bid due time**                      **10:00 a.m.**

**Bid submission location**      City Clerk's Office  
Moberly City Hall  
101 West Reed Street  
Moberly, MO 65270

Address	Price if awarded individually	Price if awarded all properties (Optional)
#1- 530 Madison Ave	\$1,500 <sup>00</sup>	
#2- 127 Collins Ave	\$800 <sup>00</sup>	
#3- 325 E Burkhardt St	\$1,000 <sup>00</sup>	
#4- <del>511 Fulton Ave</del>		
#5- <del>511 Monroe Ave</del>		
#6- 723 Fisk Ave	\$2,800 <sup>00</sup>	
#7- 712 S 6th St	\$800 <sup>00</sup>	

*Additional instructions to bidders:*

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I hereby certify that this bid is submitted under the conditions stated on this form and that it shall remain valid for a period of 60 days after the due date specified above.

Wickman Dozy LLC  
Company name (if applicable)

[Signature]  
Signature

20

10-5-21  
Date

**City of Moberly**  
**Community Development Department**  
**Demolition Bid Form**

The City of Moberly is requesting sealed bid quotations for the structures listed below. The final bid price shall include all labor to demolish and remove all structure(s) and debris per address, as stipulated in the description of the property, the hauling away of all demolition materials to the landfill (Advanced Disposal of Macon, MO), any hauling of and including appropriate fill materials as required for per site and the final grading of the premises. **Do not include landfill costs.** Direct all inquiries to the Code Enforcement office.

Envelope must be sealed, marked "**Accessory DEMOLITION**", and submitted prior to the deadline specified below. Bids not marked in this manner or submitted after the deadline will not be considered. The City of Moberly reserves the right to reject any or all bids or remove a structure(s) from the bid form for any reason whatsoever.

**Bid due date**                      **October 6, 2021**

**Bid due time**                      **2:00 p.m.**

**Bid submission location**              City Clerk's Office  
Moberly City Hall  
101 West Reed Street  
Moberly, MO 65270

Address	Price if awarded individually	Price if awarded all properties (Optional)
#1- 530 Madison Ave		
#2- 127 Collins Ave		
#3- 325 E Burkhart St		
<del>#4- 511 Fulton Ave</del> → None		
<del>#5- 511 Monroe Ave</del> → None		
#6- 723 Fisk Ave		
<del>#7- 712 S 6th St</del> → None		
		\$10,500

Additional instructions to bidders:

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I hereby certify that this bid is submitted under the conditions stated on this form and that it shall remain valid for a period of 60 days after the due date specified above.

WIDE OPEN EXCAVATION  
Company name (if applicable)

Signature

21

Date

10-6-21



**City of Moberly**  
**Community Development Department**  
**Demolition Bid Form**

The City of Moberly is requesting sealed bid quotations for the structures listed below. The final bid price shall include all labor to demolish and remove all structure(s) and debris per address, as stipulated in the description of the property, the hauling away of all demolition materials to the landfill (Advanced Disposal of Macon, MO), any hauling of and including appropriate fill materials as required for per site and the final grading of the premises. **Do not include landfill costs.** Direct all inquiries to the Code Enforcement office. Envelope must be sealed, marked "**Accessory DEMOLITION**", and submitted prior to the deadline specified below. Bids not marked in this manner or submitted after the deadline will not be considered. The City of Moberly reserves the right to reject any or all bids or remove a structure(s) from the bid form for any reason whatsoever.

**Bid due date**                      **October 6, 2021**

**Bid due time**                      **2:00 p.m.**

**Bid submission location**      City Clerk's Office  
Moberly City Hall  
101 West Reed Street  
Moberly, MO 65270

Address	Price if awarded individually	Price if awarded all properties (Optional)
#1- 530 Madison Ave	\$ 14,500.00	\$ 13,140.00
#2- 127 Collins Ave	\$ 14,500.00	\$ 13,140.00
#3- 325 E Burkhart St	\$ 17,900.00	\$ 16,540.00
#4- 511 Fulton Ave	\$ 15,800.00	\$ 14,440.00
#5- 511 Monroe Ave	\$ 15,800.00	\$ 14,440.00
#6- 723 Fisk Ave	\$ 17,900.00	\$ 16,540.00
#7- 712 S 6th St	\$ 14,500.00	\$ 13,140.00

*Additional instructions to bidders:*

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I hereby certify that this bid is submitted under the conditions stated on this form and that it shall remain valid for a period of 60 days after the due date specified above.

S. Shafer Excavating Inc.  
Company name (if applicable)  
4212 Sam's Road  
Pontoon Beach, IL. 62040

Signature

618-931-6237

22

Date

10-1-2021

[shaferexcinc@att.net](mailto:shaferexcinc@att.net)

[illegible]

# City of Moberly

## City Council Agenda Summary

Agenda Number: \_\_\_\_\_

#4.

Department: Finance

Date: October 18, 2021

**Agenda Item:** Receipt of Bids for lease-purchase financing for new 2022 Rosenbauer pumper and used 2006 Sutphen aerial (ladder) fire trucks.

**Summary:** Bids for \$815,000 for both 7-year and 10-year financing terms were solicited on October 1<sup>st</sup>, 2021, for the lease-purchase of a new 2022 pumper truck and used 2006 aerial (ladder) truck. Replies were received from five banks: Central Bank, Commerce Bank, County Bank, First State Community Bank and Regional Missouri Bank. A tabulation of which is included here. County Bank submitted the low bid of 1.63% for seven years. Staff recommends accepting this bid. Annual payments will be made in arrears from the General Fund.

After discussions with the City's audit firm and the City attorney, staff proposes to purchase the 2006 aerial (ladder) truck with funds received through the American Rescue Plan Act (ARPA). County bank has agreed to offer the same interest rate for a lease-purchase amount of \$588,000 to finance the 2022 Rosenbauer pumper.

### Recommended

**Action:** Accept the bids.

**Fund Name:** General Fund

**Account Number:** 100.008.5502, Capital Improvement Plan

**Available Budget \$:** Will be added to the 2021-2022 operating budget

### ATTACHMENTS:

<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input type="checkbox"/> Proposed Resolution
<input checked="" type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____

### Roll Call

### Aye

### Nay

### Mayor

M\_\_\_ S\_\_\_ **Jeffrey**

### Council Member

M\_\_\_ S\_\_\_ **Brubaker**

M\_\_\_ S\_\_\_ **Kimmons**

M\_\_\_ S\_\_\_ **Davis**

M\_\_\_ S\_\_\_ **Kyser**

Passed

Failed

**City of Moberly**  
**2022 Rosenbauer Pumper & 2006 Sutphen Aerial (Ladder)**  
**Lease-Purchase Financing Bids**

**7-Year Term (\$815,000 Financed)**

<b>Bidder</b>	<b>Bid</b>	<b>Annual Payment</b>	<b>Other Exepnses</b>	<b>Comments</b>
County Bank	1.63%	\$124,147.00	\$ -	
Commerce Bank/Clayton Holdings	1.74%	\$124,671.75	\$ -	Bid good through 11/11/2021
Regional Missouri Bank	1.75%	\$124,758.19	\$ 250.00	
First State Community Bank	2.28%	\$127,465.58	\$ -	Bid good through 11/25/2021
Central Bank of Moberly	2.29%	\$127,496.21	\$ 500.00	Bid good through 12/3/2021
First Bankers/Heiman Fire	3.28%	\$ 95,423.00	\$ -	Only Financing \$587,518 for the 2022 Rosenbauer Pumper

**10-Year Term (\$815,000 Financed)**

<b>Bidder</b>	<b>Bid</b>	<b>Annual Payment</b>	<b>Other Exepnses</b>	<b>Comments</b>
County Bank	1.82%	\$ 89,883.87	\$ -	
Commerce Bank/Clayton Holdings	1.95%	\$ 90,493.93	\$ -	Bid good through 11/11/2021
Regional Missouri Bank	2.15%	\$ 91,472.70	\$ 250.00	
First State Community Bank	2.45%	\$ 93,064.86	\$ -	Bid good through 11/25/2021
Central Bank of Moberly	2.47%	\$ 93,148.80	\$ 500.00	Bid good through 12/3/2021
First Bankers/Heiman Fire	3.41%	\$ 70,485.00	\$ -	Only Financing \$587,518 for the 2022 Rosenbauer Pumper

# City of Moberly

## City Council Agenda Summary

Agenda Number: #5.  
 Department: Comm. Dev.  
 Date: October 18, 2021

**Agenda Item:** An Ordinance Adopting The Recommendation Of The Planning And Zoning Commission To Approve The Re-Zoning Application Of Redhead Properties Family Trust For Property Located At 317 Patton Street.

**Summary:** The Planning & Zoning Commission recommended approval for the request of the re-zoning of 317 Patton St. Attached is a copy of the staff report, application and a map of the property.

**Recommended**

**Action:** Approve this ordinance.

**Fund Name:** N/A

**Account Number:** N/A

**Available Budget \$:** N/A

ATTACHMENTS:		Roll Call	Aye	Nay
<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes	<b>Mayor</b>		
<input type="checkbox"/> Staff Report	<input checked="" type="checkbox"/> Proposed Ordinance	M___ S___ <b>Jeffrey</b>	___	___
<input type="checkbox"/> Correspondence	<input type="checkbox"/> Proposed Resolution			
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report	<b>Council Member</b>		
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition	M___ S___ <b>Brubaker</b>	___	___
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract	M___ S___ <b>Kimmons</b>	___	___
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment	M___ S___ <b>Davis</b>	___	___
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice	M___ S___ <b>Kyser</b>	___	___
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____		Passed	Failed



BILL NO. \_\_\_\_\_

ORDINANCE NO. \_\_\_\_\_

**AN ORDINANCE ADOPTING THE RECOMMENDATION OF THE PLANNING AND ZONING COMMISSION TO APPROVE THE RE-ZONING APPLICATION OF REDHEAD PROPERTIES FAMILY TRUST FOR PROPERTY LOCATED AT 317 PATTON STREET.**

**WHEREAS**, Redhead Properties Family Trust submitted its Rezoning Application to the Zoning Administrator on August 21, 2021, to rezone property located at 317 Patton Street from R-1 Single-Family Residential District to R-3 Multi-Family Dwelling District; and

**WHEREAS**, after proper Notice a hearing was held before the City of Moberly Planning and Zoning Commission on September 27, 2021, at which time the Commission recommended approval of the rezoning request after having considered all standards listed in the zoning regulations, and all other conditions listed for that use in other sections of the regulations. The Commission found that the proposed use did provide safeguards to assure its compatibility with the surrounding area.

**WHEREAS**, the City Council has considered the rezoning application and the findings, conclusions and conditions of the Planning and Zoning Commission.

**NOW, THEREFORE, BE IT ORDAINED** the Moberly, Missouri, City Council hereby adopts the recommendation of the Planning and Zoning Commission and approves the rezoning application described herein for property located at 317 Patton Street.

**PASSED AND ADOPTED** this 18th day of October 2021, by the Council of the City of Moberly, Missouri.

**ATTEST:**

\_\_\_\_\_  
**Presiding Officer at Meeting**

\_\_\_\_\_  
**City Clerk**

# CITY OF MOBERLY, MISSOURI REZONING APPLICATION

Return Form to:  
Zoning Administrator  
City of Moberly  
101 West Reed Street  
Moberly, MO 65270-1551  
(660) 263-4420  
(660) 263-9398 (fax)

## For Office Use Only

Deposit: \_\_\_\_\_  
Date Advertised: \_\_\_\_\_  
Date Notices Sent: \_\_\_\_\_  
Public Hearing Date: \_\_\_\_\_

### APPLICANT INFORMATION:

Applicant: Redhead Properties Family Trust Phone: 573-289-4634  
Address: 323 Epperson St Zip: 65270  
Owner: Lisa E. Perry Phone: \_\_\_\_\_  
Address: 323 Epperson St Zip: 65270

### PROPERTY INFORMATION:

Street Address or General Location of Property: 317 ~~65270~~ Patton  
Property is Located In (Legal Description): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Present Zoning R1 Requested Zoning: P-3 Acreage: \_\_\_\_\_  
Present Use of Property: Vacant Lot  
Character of the Neighborhood: Business

SURROUNDING LAND USE AND ZONING:

	Land Use	Zoning
North	Residential	R3
South	Commercial	
East	Residential	
West	Commercial	

RELATIONSHIP TO EXISTING ZONING PATTERN:

1.

Would the proposed change create a small, isolated district unrelated to surrounding districts?

Yes ☐ No ☒

If yes, explain:
2.

Are there substantial reasons why the property cannot be used in accordance with existing zoning?

Yes ☐ No ☒

If yes, explain:

CONFORMANCE WITH COMPREHENSIVE PLAN:

1.

Is the proposed change consistent with the goals, objectives and policies set forth in the Comprehensive Plan?

Yes ☒ No ☐
2.

Is the proposed change consistent with the Future Land Use Map?

Yes ☒ No ☐

TRAFFIC CONDITIONS:

1.

Identify the street(s) with access to the property: Patton St
2.

Identify the classification of those street(s) as Arterial, Collector or Local and each Right-of-Way width:

Street Name	Classification	Right-of-Way Width
3.

Will turning movements caused by the proposed use create an undue traffic hazard?

Yes ☐ No ☒

IS PLATTING OR REPLATTING REQUIRED TO PROVIDE FOR:

- |    |                                     |              |                  |
|----|-------------------------------------|--------------|------------------|
| 1. | Appropriately Sized Lots?           | Yes <u>X</u> | No <u>      </u> |
| 2. | Properly Sized Street Right-of-Way? | Yes <u>X</u> | No <u>      </u> |
| 3. | Drainage Easements?                 | Yes <u>X</u> | No <u>      </u> |
| 4. | Utility Easements:                  |              |                  |
|    | Electricity?                        | Yes <u>X</u> | No <u>      </u> |
|    | Gas?                                | Yes <u>X</u> | No <u>      </u> |
|    | Sewers?                             | Yes <u>X</u> | No <u>      </u> |
|    | Water?                              | Yes <u>X</u> | No <u>      </u> |

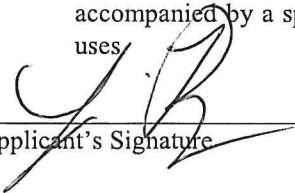
5. Additional Comments: \_\_\_\_\_

UNIQUE CHARACTERISTICS OF PROPERTY AND ADDITIONAL COMMENTS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

THE FOLLOWING MUST ACCOMPANY YOUR APPLICATION:

- 1. One copy of a legal description of the property proposed to be rezoned.
- 2. One copy of a statement describing the impact of the proposed change, including any traffic conditions that may result; any danger from fire hazards; how the proposed change may affect the character of the surrounding properties; and how the proposed change will benefit the City of Moberly.
- 3. Certified list of property owners within:
  - A. 185 feet of the property if the proposed PD is located within the city's municipal boundaries;
  - B. 1,000 feet of the property if the proposed PD is adjacent to the city's corporate limits.
- 4. If the proposed zoning requires a special use permit, the rezoning application shall be accompanied by a special use permit application defining the specifically requested use or list of uses.

  
\_\_\_\_\_  
Applicant's Signature

8/21/21  
\_\_\_\_\_  
Date

# City Zoning

#5.

I wish to build a private storage building at 317 Patton. ~~to~~ to the south and west are commercial buildings and my building would fit into the landscape of the area. I see no traffic impact since it would be used for private storage.





# Moberly, MO

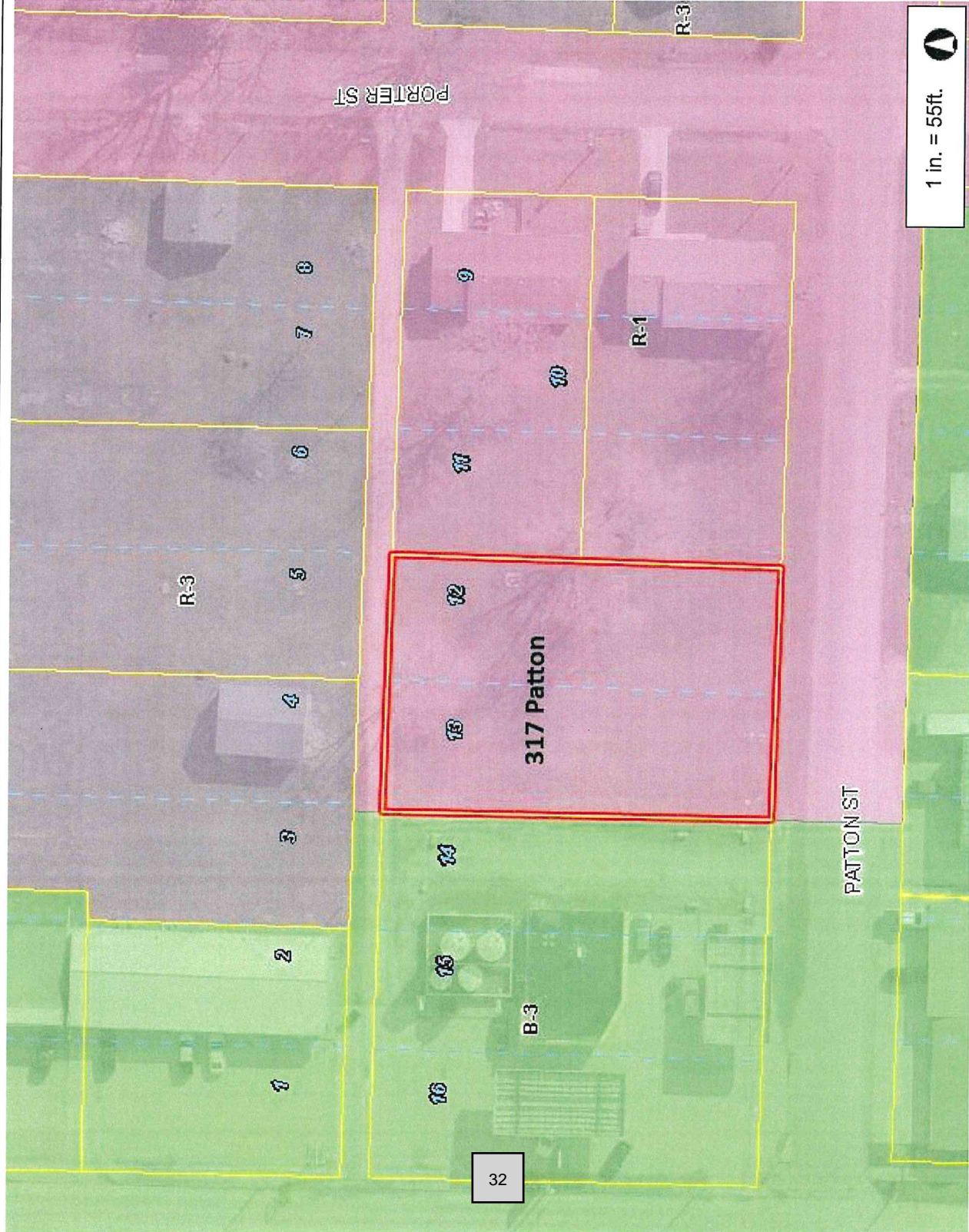


## Legend

- Roads
- Corporate Limit
- Parcel
- Original Lot
- Stream
- Subdivision
- Lots
- South Ridge Lot Line
- City Easement
- Zoning
  - B-1
  - B-2/H
  - B-3
  - B-3(PD)
  - M-1
  - M-P
  - N-1
  - R-1
  - R-1(PD)
  - R-2
  - R-2(PD)
  - R-3
  - R-3(PD)

## Notes

#5.



This Cadastral Map is for informational purposes only. It does not purport to represent a property boundary survey of the parcels shown and shall not be used for conveyances or the establishment of property boundaries.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

110.0 0 55.02 110.0 Feet

1 in. = 55ft.



City of *Moberly!*

**Memorandum**

---

**To:** *Planning and Zoning Commission*

**From:** *Planning Staff*

**Subject:** *AGENDA ITEM NO. 1*

**Meeting:** *September 27, 2021*

---

**Public Hearing to consider:**

Public Hearing for a re-zoning application submitted by Redhead Properties Family Trust for 317 Patton St. from R-1(Single Family Residential District) to R-3 (Multi-family Dwelling District).

**COMMENTS:**

The proposed re-zoning application is requesting that 317 Patton be rezoned from its current R-1 Single Family Residential to R-3 Multi Family Residential as it is surrounded on the West and South by B-3 General Commercial District and on the North by R-3 Multi-family Residential and then also on the East by R-1 Single Family Residential.

The properties that border the east are rear yard property lines for housing that fronts on Porter Street. R-3 Multi Family Residential provides the owner the opportunity to use the property for either family residential or personal private storage. As the owner of the property to the north that is being developed with multi-family residential, the two lots would be in conformance with their adjacent lots that are currently R-3 Multifamily Residential.

R-3 Multi-family residential is often considered a buffer for Commercial to Residential districts. The Comprehensive plan for the City of Moberly lists these lots as R-1 Single Family Residential.

**Staff Comments:**

Staff supports re-zoning of the property from R-1 Single Family Residential to R-3 Multi-family Residential for the lots located at 317 Patton St.

A re-zoning request, when approved by Planning & Zoning Commission **will require the additional approval of the City Council.**

Submitted by  
Aaron Decker

# City of Moberly

## City Council Agenda Summary

Agenda Number: #6.  
 Department: Comm. Dev.  
 Date: October 18, 2021

**Agenda Item:** A Resolution Accepting The Bid And Authorizing Contracting With Wiedeman Dozing, LLC For Demolition Of Four Accessory Structures.

**Summary:** We advertised for bids on 7 accessory building within the City of Moberly, 3 of those have been repaired or removed. We received 3 bids from Wiedeman Dozing LLC, Wide Open Excavator and Shafer Excavating. Staff recommends accepting Wiedeman Dozing LLC with the low bid.

**Recommended**

**Action:** Approve this resolution.

**Fund Name:** Structure Demolition & Debris

**Account Number:** 100.005.5418

**Available Budget \$:** 146,421.79

ATTACHMENTS:		Roll Call	Aye	Nay
<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes	<b>Mayor</b>		
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance	M___ S___ <b>Jeffrey</b>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Correspondence	<input checked="" type="checkbox"/> Proposed Resolution			
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report	<b>Council Member</b>		
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition	M___ S___ <b>Brubaker</b>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract	M___ S___ <b>Kimmons</b>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment	M___ S___ <b>Davis</b>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice	M___ S___ <b>Kyser</b>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____		Passed	Failed



BILL NO. \_\_\_\_\_

RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION ACCEPTING THE BID AND AUTHORIZING CONTRACTING WITH WIEDEMAN DOZING, LLC FOR DEMOLITION OF FOUR ACCESSORY STRUCTURES.**

**WHEREAS**, an advertisement for bids was published for the demolition of four (4) accessory structures; and

**WHEREAS**, the bid opening took place on October 6, 2021 with three bids being received; and

**WHEREAS**, the bid of Wiedeman Dozing, LLC (“Wiedeman”) in the amount of Six Thousand One Hundred Dollars (\$6,100.00) was the lowest responsible bid and staff recommends acceptance of the bid.

**NOW, THEREFORE**, the Moberly, Missouri, City Council accepts the bid of Wiedeman and authorizes the City Manager to contract with Wiedeman for demolition of the 4 accessory structures identified in the bid upon the terms and conditions of the bid advertisement.

**RESOLVED** this 18th day of October, 2021, by the Council of the City of Moberly, Missouri.

\_\_\_\_\_  
Presiding Officer at Meeting

**ATTEST:**

\_\_\_\_\_  
Shannon Hance, City Clerk

CITY OF MOBERLY

"BID OPENING"

Date: 10-06-2021

Wiederman Dozing LLC  
\_\_\_\_\_  
\_\_\_\_\_

\$ 530 madison - \$1500.00  
127 Collins - \$800.00 / \$6100.00  
325 E. Burnhart - \$1,000.00 /  
\$ 723 Fish Ave - \$2,800.00

Wilde Open Excavation  
\_\_\_\_\_

Shafer Excavating  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\$ 10,500.00  
530 madison - \$14500.00  
\$ 127 Collins - \$14,500.00 / \$64800.00  
325 E. Burnhart - \$17,900.00 /  
\$ 723 Fish - \$17,900.00 /

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

**City of Moberly**  
**Community Development Department**  
**Demolition Bid Form**

The City of Moberly is requesting sealed bid quotations for the structures listed below. The final bid price shall include all labor to demolish and remove all structure(s) and debris per address, as stipulated in the description of the property, the hauling away of all demolition materials to the landfill (Advanced Disposal of Macon, MO), any hauling of and including appropriate fill materials as required for per site and the final grading of the premises. **Do not include landfill costs.** Direct all inquiries to the Code Enforcement office.

Envelope must be sealed, marked "**ACCESSORY DEMOLITION**", and submitted prior to the deadline specified below. Bids not marked in this manner or submitted after the deadline will not be considered. The City of Moberly reserves the right to reject any or all bids or remove a structure(s) from the bid form for any reason whatsoever.

**Bid due date**                      **October 6, 2021**

**Bid due time**                      **10:00 a.m.**

**Bid submission location**      City Clerk's Office  
Moberly City Hall  
101 West Reed Street  
Moberly, MO 65270

Address	Price if awarded individually	Price if awarded all properties (Optional)
#1- 530 Madison Ave	\$1,500 <sup>00</sup>	
#2- 127 Collins Ave	\$800 <sup>00</sup>	
#3- 325 E Burkhardt St	\$1,000 <sup>00</sup>	
#4- <del>511 Fulton Ave</del>		
#5- <del>511 Monroe Ave</del>		
#6- 723 Fisk Ave	\$2,800 <sup>00</sup>	
#7- 712 S 6th St	\$800 <sup>00</sup>	

*Additional instructions to bidders:*

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I hereby certify that this bid is submitted under the conditions stated on this form and that it shall remain valid for a period of 60 days after the due date specified above.

Wiekman Dozy LLC  
Company name (if applicable)

[Signature]  
Signature

37

10-5-21  
Date

**City of Moberly**  
**Community Development Department**  
**Demolition Bid Form**

The City of Moberly is requesting sealed bid quotations for the structures listed below. The final bid price shall include all labor to demolish and remove all structure(s) and debris per address, as stipulated in the description of the property, the hauling away of all demolition materials to the landfill (Advanced Disposal of Macon, MO), any hauling of and including appropriate fill materials as required for per site and the final grading of the premises. **Do not include landfill costs.** Direct all inquiries to the Code Enforcement office.

Envelope must be sealed, marked "**Accessory DEMOLITION**", and submitted prior to the deadline specified below. Bids not marked in this manner or submitted after the deadline will not be considered. The City of Moberly reserves the right to reject any or all bids or remove a structure(s) from the bid form for any reason whatsoever.

**Bid due date**                      **October 6, 2021**

**Bid due time**                      **2:00 p.m.**

**Bid submission location**              City Clerk's Office  
Moberly City Hall  
101 West Reed Street  
Moberly, MO 65270

Address	Price if awarded individually	Price if awarded all properties (Optional)
#1- 530 Madison Ave		
#2- 127 Collins Ave		
#3- 325 E Burkhart St		
<del>#4- 511 Fulton Ave</del> → None		
<del>#5- 511 Monroe Ave</del> → None		
#6- 723 Fisk Ave		
<del>#7- 712 S 6th St</del> → None		
		\$10,500

Additional instructions to bidders:

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I hereby certify that this bid is submitted under the conditions stated on this form and that it shall remain valid for a period of 60 days after the due date specified above.

WIDE OPEN EXCAVATION  
Company name (if applicable)

Signature

38

Date

10-6-21



**City of Moberly**  
**Community Development Department**  
**Demolition Bid Form**

The City of Moberly is requesting sealed bid quotations for the structures listed below. The final bid price shall include all labor to demolish and remove all structure(s) and debris per address, as stipulated in the description of the property, the hauling away of all demolition materials to the landfill (Advanced Disposal of Macon, MO), any hauling of and including appropriate fill materials as required for per site and the final grading of the premises. **Do not include landfill costs.** Direct all inquiries to the Code Enforcement office. Envelope must be sealed, marked "**Accessory DEMOLITION**", and submitted prior to the deadline specified below. Bids not marked in this manner or submitted after the deadline will not be considered. The City of Moberly reserves the right to reject any or all bids or remove a structure(s) from the bid form for any reason whatsoever.

**Bid due date**                      **October 6, 2021**

**Bid due time**                      **2:00 p.m.**

**Bid submission location**      City Clerk's Office  
Moberly City Hall  
101 West Reed Street  
Moberly, MO 65270

Address	Price if awarded individually	Price if awarded all properties (Optional)
#1- 530 Madison Ave	\$ 14,500.00	\$ 13,140.00
#2- 127 Collins Ave	\$ 14,500.00	\$ 13,140.00
#3- 325 E Burkhart St	\$ 17,900.00	\$ 16,540.00
#4- 511 Fulton Ave	\$ 15,800.00	\$ 14,440.00
#5- 511 Monroe Ave	\$ 15,800.00	\$ 14,440.00
#6- 723 Fisk Ave	\$ 17,900.00	\$ 16,540.00
#7- 712 S 6th St	\$ 14,500.00	\$ 13,140.00

*Additional instructions to bidders:*

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I hereby certify that this bid is submitted under the conditions stated on this form and that it shall remain valid for a period of 60 days after the due date specified above.

S. Shafer Excavating Inc.  
Company name (if applicable)  
4212 Sam's Road  
Pontoon Beach, IL. 62040

Signature

618-931-6237

39

Date

[shaferexcinc@att.net](mailto:shaferexcinc@att.net)

10-1-2021

[illegible]

# City of Moberly

## City Council Agenda Summary

Agenda Number: #7.  
 Department: Public Works  
 Date: October 18, 2021

**Agenda Item:** A Resolution Authorizing A Lease Termination Agreement And Two Hangar Leases With Graves And Zandra Sanford And Nancy Rivera.

**Summary:** This agreement provides for the termination of the existing hangar lease and surrender of the privately owned hangars to the City of Moberly. In exchange for that the City will provide the occupant with 5 years of exclusive use of the hangars at \$0. The City will also perform the necessary maintenance to the hangars to bring them up to our requirements. At the end of the 5 year proposed lease, the occupant may enter into an annual lease with the City at the current market rate for the hangars

**Recommended**

**Action:** Approve this resolution.

**Fund Name:**

**Account Number:**

**Available Budget \$:**

**ATTACHMENTS:**

<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input checked="" type="checkbox"/> Proposed Resolution
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____

**Roll Call**

**Aye** **Nay**

**Mayor**

M\_\_\_ S\_\_\_ **Jeffrey** ☐ ☐

**Council Member**

M\_\_\_ S\_\_\_ **Brubaker** ☐ ☐

M\_\_\_ S\_\_\_ **Kimmons** ☐ ☐

M\_\_\_ S\_\_\_ **Davis** ☐ ☐

M\_\_\_ S\_\_\_ **Kyser** ☐ ☐

Passed Failed

BILL NO. \_\_\_\_\_

RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION AUTHORIZING A LEASE TERMINATION AGREEMENT AND TWO HANGAR LEASES WITH GRAVES AND ZANDRA SANDFORD AND NANCY RIVERA.**

**WHEREAS**, heretofore the City leased two locations at the Omar N. Bradley Regional Airport to Graves and Zandra Sandford and Nancy Rivera (hereinafter “Graves”) upon which the Graves constructed two airport hangars; and

**WHEREAS**, the Graves now wish to terminate the two leases, convey ownership of the hangars thereon to the city and enter into two new hangar leases for a term of five (5) years each upon the terms and conditions contained in the attached Lease Termination Agreement and two hangar lease agreements; and

**WHEREAS**, the city agrees to make repairs to the hangar buildings being leased to Graves during the term of the five year leases; and

**WHEREAS**, city staff requests that the Council approve the three agreements attached hereto and further authorize the City Manager to execute said Agreements and to take such other and further action to accomplish the purposes of this Resolution.

**NOW, THEREFORE**, the City Council of the City of Moberly hereby approves the attached Lease Termination Agreement and Hangar Leases and further authorizes the City Manager to execute the Agreements on behalf of the City and to take such other and further action to accomplish the purposes of this Resolution.

**RESOLVED** this 18th day of October, 2021, by the Council of the City of Moberly, Missouri.

\_\_\_\_\_  
Presiding Officer at Meeting

**ATTEST:**

\_\_\_\_\_  
Shannon Hance, City Clerk



**LEASE TERMINATION AGREEMENT**

COMES NOW the City of Moberly, Missouri (hereinafter “City”) a municipal corporation and Graves M. Sanford and Zandra A. Sanford, husband and wife and Nancy A. Rivera, (hereinafter “Lessee” and together with City, the “Parties”) and for their LEASE TERMINATION AGREEMENT state as follows:

RECITALS

- A. On or about October 1, 2011, the Parties entered into two Lease agreements (hereinafter the “Leases”), a copies of which are attached hereto and incorporated herein as Exhibits “1” and “2”.
- B. The Leases provided for the rental of real property for purposes of maintaining a Hangar building to house an airplane(s) and related equipment and property for a period of fifteen (15) years from and after the first day of October, 2011.
- C. During the course of time following the creation of the Leases the Lessee erected the hangar building containing approximately 3,900 square feet and acquired the hangar with 4,000 square feet.
- D. The Parties now wish to terminate said Leases upon the following described terms and conditions.

AGREEMENT

- 1. The above state Recitals are true and correct and are incorporated herein and made a part of this Agreement.
- 2. The Parties agree to execute new lease agreements, attached hereto as Exhibit “3” and “4”, contemporaneously with the execution of this Agreement which provide for two five (5) year hangar leases at the same locations as the real estate described in Exhibits “1” and “2”.
- 3. In consideration of the execution of the attached Exhibits “3” and “4” and this Agreement the Lessees hereby sell, assign, transfer and release unto the City all of their right, title and interest to the hangars and other structures affixed to the real estate described in Exhibits “1” and “2”.
- 4. In consideration of the execution of Exhibits “3” and “4” and other good and valuable consideration, the receipt of which is hereby acknowledged, the Lessees and the City hereby agree to terminate and end the current leases attached as Exhibits “1” and “2” and all obligations, responsibilities, rights or liabilities associated therewith. Lessees hereby waive any further interest in the leases, or the hangars located thereon and the leases are mutually terminated as of the execution date of this Agreement.

IN WITNESS WHEREOF, the Parties have set their hands this \_\_\_\_ day of \_\_\_\_\_, 2021.

CITY OF MOBERLY, MISSOURI

\_\_\_\_\_  
By: Brian Crane, City Manager

Attest:

\_\_\_\_\_  
Shannon Hance, City Clerk

LESSEES

\_\_\_\_\_  
Graves M. Sanford

\_\_\_\_\_  
Zandra A. Sanford

\_\_\_\_\_  
Nancy A. Rivera

HANGAR LEASE  
CITY OF MOBERLY, MISSOURI  
OMAR N. BRADLEY REGIONAL AIRPORT

THIS LEASE is made this \_\_\_\_ day of \_\_\_\_\_, 2021, between the City of Moberly, Missouri, (hereinafter “City”) a municipal corporation and Graves M. Sanford and Zandra A. Sanford, husband and wife, the Lessees (hereinafter “Lessee”).

**RECITALS**

- A. City is a Third-Class statutory city duly organized and validly existing under the laws of the State of Missouri with the power to conduct municipal business pursuant to Missouri law and the Ordinances duly enacted by the Moberly City Council.
- B. City is the owner and proprietor of the Omar N. Bradley Regional Airport located in Moberly, Missouri, and is the owner of certain hangar buildings located thereon.
- C. City intends to offer space within its hangar buildings to owners of private airplanes for the storage of permitted aircraft.
- D. Lessee is the owner of private aircraft and desires to hangar such aircraft pursuant to the terms and conditions of this lease agreement.

**AGREEMENT**

**SECTION 1. RECITALS**

The above stated Recitals are true and correct and are incorporated herein and made a part of this Hangar Lease agreement (hereinafter “Agreement”).

**SECTION 2. PREMISES**

City hereby leases to Lessee, and Lessee hereby leases from City the following described property and the hangar located thereon:

Beginning at a point that is 114 feet west of, and 561 feet north of the southeast corner of the northwest One-Quarter of Section 24, Township 54 North, Range 14 West; thence North 45 degrees east 135 feet; thence north 45 degrees west 97.5 feet; thence south 45 degrees West 135 feet; thence South 45 degrees East 97.5 feet, to the point of beginning, being a rectangular tract of land 135 feet by 97.5 feet and containing .302 acres more or less and more commonly known as 3590 East Outer Road, Moberly, Missouri.

Said property is located at the Omar N. Bradley Regional Airport (hereinafter “Premises”) and is leased on the terms and conditions stated herein. Lessee accepts the Premises “As Is,” subject to all applicable municipal, state and federal laws, ordinances, regulations and policies governing and regulating the use of the Premises, and any covenants or restrictions of record. Lessee acknowledges that City has made no representations or warranties as to the physical state of the Premises, or any suitability of the Premises.

**SECTION 3. TERM**

3.1 Five Year Term. The term of this Agreement shall be for a period of five (5) years commencing on the first day of November 2021 and ending on November 1, 2026.

3.2 Renewal. This lease is not eligible for renewal. If the lessee desires to continue leasing the premises after November 1, 2026 then a new lease will be drafted on an annual renewal basis using then current market rates in effect at Omar N. Bradley Regional Airport.

#### **SECTION 4. RENTAL AMOUNT**

4.1 In-Kind. Lessee owned a 3,900 square foot hangar located on the premises prior to terminating its last lease with the city. In exchange for the Lessee transferring ownership of the hangar structure to the City as part of a Lease Termination Agreement, the Lessee shall receive use of the premises for a term of five years. The parties agree that the value of the hangar and the value of five years of rent are equivalent.

#### **SECTION 5. LESSEE'S PERMITTED USE AND ACTIVITY**

5.1 Ownership and Identification of Aircraft. Lessee is the Registered Owner of the following described permitted aircraft which will be housed pursuant to this Agreement:

Make: Cessna

Model: 172A

Year:

Registration No. N9802T

Serial No. 47602

Address of Owner: Graves Sandford PO Box 885, Moberly, MO 65270

Make: Cessna

Model: 150IL

Year:

Registration No. N1262Q

Serial No. 15072562

Address of Owner: Graves M. Sandford & Zandra A. Sandford, PO Box 885, Moberly, MO 65270

Make: Cessna

Model: 182A

Year:

Registration No. N5170D

Serial No. 51270

Address of Owner: Graves Sandford PO Box 885, Moberly, MO 65270

Lessee agrees to notify City of any changes to the above described permitted aircraft information. Failure to notify the City of any changes shall constitute an Event of Default.

5.2 Access and Key. Lessee shall be issued a key to the hangar building and permitted free access for ingress and egress of the permitted aircraft. Lessee shall be charged \$20 to replace a hangar

key. The hangar door shall not be left open or unlocked unless the Lessee or pilot of the permitted aircraft is in the immediate vicinity of the hangar building.

5.3 Use of Premises. Lessee agrees to use the Premises for the storage and housing of the permitted aircraft, for flight training and airplane repairs and all other purposes permitted under his City of Moberly business license but shall not permit any of the following uses:

- a. Use the premises in such a manner as to void or increase the rate of insurance thereon;
- b. Make any alterations, additions, or improvements to the leased Premises without the prior written consent of the City.
- c. Start the aircraft engine inside the Premises.

5.4 Access to Public Areas. Lessee shall have the right to use all public areas of the airport, including runways, taxi-ways, and other airport facilities customarily used by aircraft owners.

**SECTION 5. CITY’S OBLIGATIONS**

6.1 City Inspection. City shall, at all reasonable times, have the full and unrestricted right to enter the Premises for the purpose of inspecting the leased area, for maintenance and to determine compliance with the terms of this Agreement.

6.2 Maintenance. City agrees to maintain the leased Premises in the same condition as when leased, ordinary wear and tear excepted, during the term of this Agreement.

6.3 Trash Disposal. City agrees to provide a location for disposal of trash associated with lessee’s use of the hangar building. Lessee is responsible for disposal of all hazardous materials associated with the operation of the permitted aircraft in designated recycling areas.

6.4 Hangar Repair. City shall begin immediate repair of the hangar structure to meet building code standards and airport building standards. Lessee agrees to cooperate with City in providing access to the hangar for purposes of repair.

**SECTION 6. ASSIGNMENT**

6.1 Lessee shall not assign, hypothecate, or in any manner transfer any interest in this Agreement to any person or entity directly or indirectly, by operation of law or otherwise, without first securing City’s express written approval of such transfer.

**SECTION 7. INDEMNIFICATION**

7.1 Lessee hereby agrees to defend, indemnify, and hold harmless the City, its City Council, boards and commissioners, officers, agents, employees, volunteers and contractors from any and all loss, damage, cost, expense, liability, claims, demands, suits, attorneys’ fees and judgments arising directly or indirectly from or in any manner related to Lessee’s possession, occupancy or use of the Premises, regardless of any active or passive negligence by the City, except as may otherwise be stated herein.

**SECTION 8. INSURANCE**

8.1 Coverage. Prior to the commencement of the term of this Agreement, Lessee shall procure and maintain at Lessee's own cost and expense, for the duration of this Agreement, the following insurance against claims for injuries or death to persons or damages to property that may arise from or in connection with the possession, occupancy, operations and use of the Premises by the Lessee, its agents, representatives, contractors, guests, and invitees.

8.2 Minimum Limits/Scope of Insurance. Lessee shall obtain and maintain **General Liability Insurance** against liability for financial loss resulting from bodily injury, including death or personal injury, and damage to property caused by the ownership, operations and storage arising from or related to this lease Agreement. The policy shall provide limits of no less than \$1,000,000 per occurrence and include coverage for fire damage legal liability at the full \$100,000 policy limit.

8.3 Endorsements. The Aircraft or General Liability Insurance policy shall contain the following provisions:

- a. City of Moberly, Missouri, its City Council, its officers, officials, employees, and volunteers are to be covered as additional insureds with respect to liability arising out of the use of the premises leased to Lessee.
- b. For any claims related to this Agreement, Lessee's insurance coverage shall be primary as respects City of Moberly, Missouri its officers, officials, employees, and volunteers. Any insurance maintained by the City of Moberly, Missouri shall be excess of Lessee's insurance and shall not contribute with it.

8.4 Verification of Coverage. Lessee shall furnish the City with original certificates or endorsements or copies of the applicable policy language providing the insurance coverage required herein. All certificates and endorsements are to be received and approved by the City before this Agreement is executed. However, failure to obtain required documents prior to execution of the Agreement shall not waive Lessee's obligation to provide them. The City reserves the right to require complete certified copies of all required insurance policies, including the endorsements required herein, at any time.

## SECTION 9. DEFAULTS

The occurrence of any one or more of the following events shall constitute a material default and breach of this lease Agreement by Lessee:

- A. The failure by Lessee to make any payment of Rent; or any other payment required to be made by Lessee hereunder, as and when due, where such failure shall continue for a period of ten (10) calendar days after written notice from City to Lessee.
- B. The failure by Lessee to comply with Section 5.3 of this Agreement.
- C. An unapproved or unauthorized transfer of any interest acquired under this Agreement.
- D. The failure to comply with any of the insurance requirements stated in this Agreement.
- E. The occurrence of any other event described as constituting an "Event of Default" elsewhere in this Agreement.
- F. The discovery by City that any material information provided by Lessee related to this Agreement is materially false.

**SECTION 10. REMEDIES**

In the event of any material default or breach by Lessee, City may at any time thereafter, with or without notice or demand and without limiting City in the exercise of any right or remedy which City may have by reason of such default or breach, avail itself of the following remedies, which are cumulative and not exclusive:

- A. City may recover possession of the leased Premises by any lawful means available to it, including self-entry, in which case this lease Agreement shall terminate immediately and Lessee shall immediately remove all personal property, including the aircraft, from the Premises. If Lessee shall fail to remove personal property, including the aircraft, City may remove such property to another location with Lessee assuming any risk of loss or damage to such property.
- B. City shall be entitled to recover from Lessee all damages incurred by City by reason of Lessee’s default, including, but not limited to, the cost of recovering possession of the Premises, amount of delinquent rent, interest at the maximum amounts allowed by law on delinquent rent, and reasonable attorneys’ fees.

**SECTION 11. TERMINATION**

This lease Agreement is terminable by the Lessee upon giving the City thirty (30) days-notice of intent. In the event Lessee should abandon the premises and no longer use the premises for airplane storage then this Lease is terminable by the City upon giving Lessee thirty (30) days-notice of intent to do so. In the event the hangar is destroyed by fire or natural disaster then the city shall replace the structure in commercially reasonable time.

**SECTION 12. NOTICES**

All notices, demands, requests or approvals to be given under this lease Agreement shall be given in writing and shall be by hand delivery, overnight mail service, registered or certified mail, or regular first-class mail. All notices, demands, requests or approvals from Lessee to City shall be addressed to:

Tom Sanders  
Airport Manager

With a copy to:  
Randall D. Thompson  
Moberly City Attorney  
3610 Buttonwood Drive  
Columbia, MO 65201

All notices, demands, requests or approvals from City to Lessee shall be addressed to:

**SECTION 13. MUNICIPAL AUTHORITY**

City may only act through its City Council to approve this Agreement therefore execution of this Agreement is contingent upon approval by the Moberly City Council.

**SECTION 14. GOVERNING LAW**

This lease Agreement has been made and shall be construed and interpreted in accordance with the laws of the State of Missouri. Venue shall be appropriate in the Randolph County Circuit Court.

**SECTION 15. COUNTERPARTS**

This lease Agreement may be executed in several counterparts, each of which is an original, and all of which together constitute but one and the same document.

**IN WITNESS WHEREOF**, the parties have executed this lease Agreement on the date set forth above.

APPROVED AS TO FORM:

CITY OF MOBERLY, MISSOURI

\_\_\_\_\_  
Randall D. Thompson  
City Attorney

By: \_\_\_\_\_  
Brian Crane  
City Administrator

ATTEST:

LESSEE:

\_\_\_\_\_  
City Clerk

\_\_\_\_\_  
  
\_\_\_\_\_



HANGAR LEASE  
CITY OF MOBERLY, MISSOURI  
OMAR N. BRADLEY REGIONAL AIRPORT

THIS LEASE is made this \_\_\_\_ day of \_\_\_\_\_, 2021, between the City of Moberly, Missouri, (hereinafter “City”) a municipal corporation and Graves M. Sanford and Zandra A. Sanford, husband and wife, the Lessees (hereinafter “Lessee”).

**RECITALS**

- A. City is a Third-Class statutory city duly organized and validly existing under the laws of the State of Missouri with the power to conduct municipal business pursuant to Missouri law and the Ordinances duly enacted by the Moberly City Council.
- B. City is the owner and proprietor of the Omar N. Bradley Regional Airport located in Moberly, Missouri, and is the owner of certain hangar buildings located thereon.
- C. City intends to offer space within its hangar buildings to owners of private airplanes for the storage of permitted aircraft.
- D. Lessee is the owner of private aircraft and desires to hangar such aircraft pursuant to the terms and conditions of this lease agreement.

**AGREEMENT**

**SECTION 1. RECITALS**

The above stated Recitals are true and correct and are incorporated herein and made a part of this Hangar Lease agreement (hereinafter “Agreement”).

**SECTION 2. PREMISES**

City hereby leases to Lessee, and Lessee hereby leases from City the following described property and the hangar located thereon:

Beginning at a point that is 114 feet west of, and 561 feet north of the southeast corner of the Northwest Quarter of Section 24, Township 54 North, Range 14 West; thence North 45 degrees west 135 feet; thence South 45 degrees west 135 feet; thence south 45 degrees East 135 feet; thence North 45 degrees East 135 feet, to the point of beginning, being a square tract of land 135 feet by 135 feet and containing .4 acres more or less and more commonly known as 3580 East Outer Road, Moberly, Missouri.

Said property is located at the Omar N. Bradley Regional Airport (hereinafter “Premises”) and is leased on the terms and conditions stated herein. Lessee accepts the Premises “As Is,” subject to all applicable municipal, state and federal laws, ordinances, regulations and policies governing and regulating the use of the Premises, and any covenants or restrictions of record. Lessee acknowledges that City has made no representations or warranties as to the physical state of the Premises, or any suitability of the Premises.

**SECTION 3. TERM**

3.1 Five Year Term. The term of this Agreement shall be for a period of five (5) years commencing on the first day of November 2021 and ending on November 1, 2026.

3.2 Renewal. This lease is not eligible for renewal. If the lessee desires to continue leasing the premises after November 1, 2026, then a new lease will be drafted on an annual renewal basis using then current market rates in effect at Omar N. Bradley Regional Airport.

**SECTION 4. RENTAL AMOUNT**

4.1 In-Kind. Lessee owned a 4,000 square foot hangar located on the premises prior to terminating its last lease with the city. In exchange for the Lessee transferring ownership of the hangar structure to the City as part of a Lease Termination Agreement, the Lessee shall receive use of the premises for a term of five years. The parties agree that the value of the hangar and the value of five years of rent are equivalent.

**SECTION 5. LESSEE’S PERMITTED USE AND ACTIVITY**

5.1 Ownership and Identification of Aircraft. Lessee is the Registered Owner of the following described permitted aircraft which will be housed pursuant to this Agreement:

Make: Cessna  
Model: 172A  
Year:  
Registration No. N9802T  
Serial No. 47602  
Address of Owner: Graves Sandford PO Box 885, Moberly, MO 65270

Make: Cessna  
Model: 150IL  
Year:  
Registration No. N1262Q  
Serial No. 15072562  
Address of Owner: Graves M. Sandford & Zandra A. Sandford, PO Box 885, Moberly, MO 65270

Make: Cessna  
Model: 182A  
Year:  
Registration No. N5170D  
Serial No. 51270  
Address of Owner: Graves Sandford PO Box 885, Moberly, MO 65270

Lessee agrees to notify City of any changes to the above described permitted aircraft information. Failure to notify the City of any changes shall constitute an Event of Default.

5.2 Access and Key. Lessee shall be issued a key to the hangar building and permitted free access for ingress and egress of the permitted aircraft. Lessee shall be charged \$20 to replace a hangar

key. The hangar door shall not be left open or unlocked unless the Lessee or pilot of the permitted aircraft is in the immediate vicinity of the hangar building.

5.3 Use of Premises. Lessee agrees to use the Premises for the storage and housing of the permitted aircraft, for flight training and airplane repairs and all other purposes permitted under his City of Moberly business license but shall not permit any of the following uses:

- a. Use the premises in such a manner as to void or increase the rate of insurance thereon;
- b. Make any alterations, additions, or improvements to the leased Premises without the prior written consent of the City.
- c. Start the aircraft engine inside the Premises.

5.4 Access to Public Areas. Lessee shall have the right to use all public areas of the airport, including runways, taxi-ways, and other airport facilities customarily used by aircraft owners.

## **SECTION 5. CITY'S OBLIGATIONS**

6.1 City Inspection. City shall, at all reasonable times, have the full and unrestricted right to enter the Premises for the purpose of inspecting the leased area, for maintenance and to determine compliance with the terms of this Agreement.

6.2 Maintenance. City agrees to maintain the leased Premises in the same condition as when leased, ordinary wear and tear excepted, during the term of this Agreement.

6.3 Trash Disposal. City agrees to provide a location for disposal of trash associated with lessee's use of the hangar building. Lessee is responsible for disposal of all hazardous materials associated with the operation of the permitted aircraft in designated recycling areas.

6.4 Hangar Repair. City shall begin immediate repair of the hangar structure to meet building code standards and airport building standards. Lessee agrees to cooperate with City in providing access to the hangar for purposes of repair.

## **SECTION 6. ASSIGNMENT**

6.1 Lessee shall not assign, hypothecate, or in any manner transfer any interest in this Agreement to any person or entity directly or indirectly, by operation of law or otherwise, without first securing City's express written approval of such transfer.

## **SECTION 7. INDEMNIFICATION**

7.1 Lessee hereby agrees to defend, indemnify, and hold harmless the City, its City Council, boards and commissioners, officers, agents, employees, volunteers and contractors from any and all loss, damage, cost, expense, liability, claims, demands, suits, attorneys' fees and judgments arising directly or indirectly from or in any manner related to Lessee's possession, occupancy or use of the Premises, regardless of any active or passive negligence by the City, except as may otherwise be stated herein.

## SECTION 8. INSURANCE

8.1 Coverage. Prior to the commencement of the term of this Agreement, Lessee shall procure and maintain at Lessee's own cost and expense, for the duration of this Agreement, the following insurance against claims for injuries or death to persons or damages to property that may arise from or in connection with the possession, occupancy, operations and use of the Premises by the Lessee, its agents, representatives, contractors, guests, and invitees.

8.2 Minimum Limits/Scope of Insurance. Lessee shall obtain and maintain **General Liability Insurance** against liability for financial loss resulting from bodily injury, including death or personal injury, and damage to property caused by the ownership, operations and storage, arising from or related to this lease Agreement. The policy shall provide limits of no less than \$1,000,000 per occurrence and include coverage for fire damage legal liability at the full \$100,000 policy limit.

8.3 Endorsements. The General Liability Insurance policy shall contain the following provisions:

- a. City of Moberly, Missouri, its City Council, its officers, officials, employees, and volunteers are to be covered as additional insureds with respect to liability arising out of the use of the premises leased to Lessee.
- b. For any claims related to this Agreement, Lessee's insurance coverage shall be primary as respects City of Moberly, Missouri its officers, officials, employees, and volunteers. Any insurance maintained by the City of Moberly, Missouri shall be excess of Lessee's insurance and shall not contribute with it.

8.4 Verification of Coverage. Lessee shall furnish the City with original certificates or endorsements or copies of the applicable policy language providing the insurance coverage required herein. All certificates and endorsements are to be received and approved by the City before this Agreement is executed. However, failure to obtain required documents prior to execution of the Agreement shall not waive Lessee's obligation to provide them. The City reserves the right to require complete certified copies of all required insurance policies, including the endorsements required herein, at any time.

## SECTION 9. DEFAULTS

The occurrence of any one or more of the following events shall constitute a material default and breach of this lease Agreement by Lessee:

- A. The failure by Lessee to make any payment of Rent; or any other payment required to be made by Lessee hereunder, as and when due, where such failure shall continue for a period of ten (10) calendar days after written notice from City to Lessee.
- B. The failure by Lessee to comply with Section 5.3 of this Agreement.
- C. An unapproved or unauthorized transfer of any interest acquired under this Agreement.
- D. The failure to comply with any of the insurance requirements stated in this Agreement.
- E. The occurrence of any other event described as constituting an "Event of Default" elsewhere in this Agreement.
- F. The discovery by City that any material information provided by Lessee related to this Agreement is materially false.

**SECTION 10. REMEDIES**

In the event of any material default or breach by Lessee, City may at any time thereafter, with or without notice or demand and without limiting City in the exercise of any right or remedy which City may have by reason of such default or breach, avail itself of the following remedies, which are cumulative and not exclusive:

- A. City may recover possession of the leased Premises by any lawful means available to it, including self-entry, in which case this lease Agreement shall terminate immediately and Lessee shall immediately remove all personal property, including the aircraft, from the Premises. If Lessee shall fail to remove personal property, including the aircraft, City may remove such property to another location with Lessee assuming any risk of loss or damage to such property.
- B. City shall be entitled to recover from Lessee all damages incurred by City by reason of Lessee’s default, including, but not limited to, the cost of recovering possession of the Premises, amount of delinquent rent, interest at the maximum amounts allowed by law on delinquent rent, and reasonable attorneys’ fees.

**SECTION 11. TERMINATION**

This lease Agreement is terminable by the Lessee upon giving the City thirty (30) days-notice of intent. In the event Lessee should abandon the premises and no longer use the premises for airplane storage then this Lease is terminable by the City upon giving Lessee thirty (30) days-notice of intent to do so. In the event the hangar is destroyed by fire or natural disaster then the city shall replace the structure in commercially reasonable time.

**SECTION 12. NOTICES**

All notices, demands, requests or approvals to be given under this lease Agreement shall be given in writing and shall be by hand delivery, overnight mail service, registered or certified mail, or regular first-class mail. All notices, demands, requests or approvals from Lessee to City shall be addressed to:

Tom Sanders  
Airport Manager

With a copy to:  
Randall D. Thompson  
Moberly City Attorney  
3610 Buttonwood Drive  
Columbia, MO 65201

All notices, demands, requests or approvals from City to Lessee shall be addressed to:

**SECTION 13. MUNICIPAL AUTHORITY**

City may only act through its City Council to approve this Agreement therefore execution of this Agreement is contingent upon approval by the Moberly City Council.

**SECTION 14. GOVERNING LAW**

This lease Agreement has been made and shall be construed and interpreted in accordance with the laws of the State of Missouri. Venue shall be appropriate in the Randolph County Circuit Court.

**SECTION 15. COUNTERPARTS**

This lease Agreement may be executed in several counterparts, each of which is an original, and all of which together constitute but one and the same document.

**IN WITNESS WHEREOF**, the parties have executed this lease Agreement on the date set forth above.

APPROVED AS TO FORM:

CITY OF MOBERLY, MISSOURI

\_\_\_\_\_  
Randall D. Thompson  
City Attorney

By: \_\_\_\_\_  
Brian Crane  
City Administrator

ATTEST:

LESSEE:

\_\_\_\_\_  
City Clerk

\_\_\_\_\_  
  
\_\_\_\_\_

# City of Moberly

## City Council Agenda Summary

Agenda Number: #8.  
 Department: Fire Dept  
 Date: October 18, 2021

**Agenda Item:** A Resolution Accepting The Proposal Of Rosenbauer South Dakota, LLC For Rental Of A Fire Pumper Truck And Ratifying The Execution Of A Lease Agreement.

**Summary:** The Moberly Fire Department has had mechanical issues in multiple pumper trucks in the fleet those being Engine 305 and Engine 302. Staff has reviewed the situation and determined the best solution to provide public safety is a rental pumper truck. Rosenbauer South Dakota LLC has provided the attached lease for the rental of \$1,000 per month, (max amount of \$12,000) until staff has a more permanent remedy.

**Recommended Action** Approve This Resolution

**Fund Name:** General Fund

**Account Number:** 100.008.5503

**Available Budget \$:** 0.00

### ATTACHMENTS:

<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input checked="" type="checkbox"/> Proposed Resolution
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____

Roll Call      Aye      Nay

### Mayor

M\_\_\_ S\_\_\_ Jeffrey      \_\_\_      \_\_\_

### Council Member

M\_\_\_ S\_\_\_ Brubaker      \_\_\_      \_\_\_

M\_\_\_ S\_\_\_ Kimmons      \_\_\_      \_\_\_

M\_\_\_ S\_\_\_ Davis      \_\_\_      \_\_\_

M\_\_\_ S\_\_\_ Kyser      \_\_\_      \_\_\_

Passed      Failed

BILL NO. \_\_\_\_\_

RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION ACCEPTING THE PROPOSAL OF ROSENBAUER SOUTH DAKOTA, LLC FOR RENTAL OF A FIRE PUMPER TRUCK AND RATIFYING THE EXECUTION OF A LEASE AGREEMENT.**

**WHEREAS**, the Moberly Fire Chief sought proposals for the rental of a fire pumper until such time as a new replacement pumper can be purchased; and

**WHEREAS**, Rosenbauer South Dakota, LLC (hereinafter “Rosenbauer”) offered a fire pumper at a cost of \$1,000.00 a month for a term of at least twelve months; and

**WHEREAS**, the existing fire pumper became inoperable resulting in the emergency leasing of the Rosenbauer fire pumper by the city manager; and

**WHEREAS**, city staff recommends acceptance of the attached lease agreement and ratification of the city manager’s execution of the agreement.

**NOW, THEREFORE**, the Moberly, Missouri, City Council hereby accepts the lease terms of Rosenbauer for a fire pumper and ratifies the execution of the attached lease agreement of the city manager and further authorizes such other and further actions as may be necessary to carry out the intent of this Resolution.

**RESOLVED** this 18<sup>th</sup> day of October, 2021, by the Council of the City of Moberly, Missouri.

\_\_\_\_\_  
Presiding Officer at Meeting

**ATTEST:**

\_\_\_\_\_  
Shannon Hance, City Clerk





This Agreement dated as of the date listed below, for Equipment bearing Vehicle Identification Number 4S7HR23971C038127, between Rosenbauer South Dakota, LLC, a division of Rosenbauer America herein after referred to as (RSD), and the City of Moberly, 101 W. Reed Street, Moberly, MO 65270-1551, herein after referred to as (COM), is subject to the following terms and conditions:

(COM) shall maintain both casualty and liability insurance at its own expense with respect to the Equipment. All policies must be continuously kept in effect during the period when it is in their care, custody, and control. The policy shall name (RSD) as Additional Insured and Loss Payee. Such insurance policy(s) shall not be cancelled or materially modified without first giving thirty (30) days advance notice to (RSD).

(COM) shall keep the Equipment in good repair and working order and shall be liable for all damage to Equipment, other than normal wear and tear caused by (COM), its employees or its agents. (COM) assumes all risks and liabilities for loss or damage to the Equipment, injury to or death of any person or damage to any property.

(COM) shall not during the term of this Agreement incur or assume any liens or encumbrances with respect to the Equipment.

This Agreement shall be binding upon (COM) and (RSD) and their respective successors and assigns.

This Agreement may be amended, added to, changed or modified only under written agreement duly executed by the (COM) and (RSD).

(COM) shall pay (RSD) the amount of One Thousand Dollars (\$1,000.00) per month, for a maximum payment of Twelve Thousand Dollars (\$12,000.00). The length of lease term shall be 12-16 months or until the new truck is delivered. It shall be the responsibility of (COM) to pick up and return the leased truck. The lease can be terminated at any time upon notice to the Lessor.

Brian C.  
City of Moberly

City Manager  
Title

10-8-21  
Date

[Signature]  
Rosenbauer South Dakota, LLC

President  
Title

9/28/2021  
Date

[www.rosenbaueramerica.com](http://www.rosenbaueramerica.com)

[info@rosenbaueramerica.com](mailto:info@rosenbaueramerica.com)

ROSENBAUER SOUTH DAKOTA, LLC.  
100 THIRD STREET  
LYONS, SOUTH DAKOTA 57041  
P: 605.543.5591

ROSENBAUER MINNESOTA, LLC.  
5181 260TH STREET  
P.O. BOX 549  
WYOMING, MINNESOTA 55092  
P: 651.462.1000

ROSENBAUER MOTORS, LLC.  
5190 260TH STREET  
P.O. BOX 549  
WYOMING, MINNESOTA 55092  
P: 651.462.1000

ROSENBAUER AERIALS, LLC.  
870 SOUTH BROAD STREET  
FREMONT, NEBRASKA 68025  
P: 402.721.7622







# City of Moberly

## City Council Agenda Summary

Agenda Number: #9.

Department: Fire

Date: October 18, 2021

**Agenda Item:** A Resolution Accepting The Bid Of Moberly Motors For A Fire Command Supervisor Vehicle In The Amount Of \$38,655.00.

**Summary:** This fiscal year, the City had budgeted \$37,000.00 for the replacement of a supervisor vehicle in the Fire Department. The Department proceeded to request quotes/bids from multiple dealerships, based on government pricing with specified options. The Department received bids from Moberly Motors, Joe Machens, Jim Butler, Don Brown and Bob McCosh. Thomas Motors was asked to supply a bid and we never received one. The Department recommends going with Moberly Motors for this purchase, with a bid of \$38,655.00. This is a budgeted expense.

**Recommended Action:** Approve This Resolution

**Fund Name:** Capital Improvement Plan

**Account Number:** 100.008.5502

**Available Budget \$:** 37,000.00

### ATTACHMENTS:

<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input checked="" type="checkbox"/> Proposed Resolution
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____

### Roll Call

Aye    Nay

#### Mayor

M\_\_\_ S\_\_\_ Jeffrey    \_\_\_    \_\_\_

#### Council Member

M\_\_\_ S\_\_\_ Brubaker    \_\_\_    \_\_\_

M\_\_\_ S\_\_\_ Kimmons    \_\_\_    \_\_\_

M\_\_\_ S\_\_\_ Davis    \_\_\_    \_\_\_

M\_\_\_ S\_\_\_ Kyser    \_\_\_    \_\_\_

Passed    Failed

BILL NO. \_\_\_\_\_

RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION ACCEPTING THE BID OF MOBERLY MOTORS FOR A FIRE  
COMMAND SUPERVISOR VEHICLE IN THE TOTAL AMOUNT OF \$38,655.00.**

**WHEREAS**, the City of Moberly Fire Department requested bids for a new 4x4 Crew Cab ¾ ton pickup with equipment for use as a command supervisor vehicle; and

**WHEREAS**, five responsive bids were received with the bid of Moberly Motors for a 2022 Ford F250 Crew-Cab 4x4 pickup in the amount of \$38,655.00 being the lowest responsible bid; and

**WHEREAS**, the Moberly Fire Department recommends acceptance of the Moberly Motors bid and authority to immediately purchase the described vehicle.

**THEREFORE**, the Moberly, Missouri, City Council accepts the bid of Moberly Motors and authorizes the City Manager or his designee to purchase the fire command supervisor vehicle described herein for the total price of \$38,655.00 and granting further authority for all actions as may be necessary to carry out the intent of this Resolution.

**RESOLVED** this 18th day of October, 2021, by the Council of the City of Moberly, Missouri.

\_\_\_\_\_  
Presiding Officer at Meeting

**ATTEST:**

\_\_\_\_\_  
Shannon Hance, City Clerk

CITY OF MOBERLY

“BID OPENING”  
Sign-In Sheet

Date: 9.24.2021

Name

Cora Woodin

Don Ryan

Company

City of Moberly

Moberly Fire Dept.

CITY OF MOBERLY

"BID OPENING"

Date: 9-24-2021

Joe Mackens

\$ 36,848.<sup>00</sup> pickup only

moberly motors

\$ 38,655.<sup>00</sup> pickup + equip.

\_\_\_\_\_

\$ \_\_\_\_\_

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**CITY OF MOBERLY, MISSOURI - NEW COMMAND SUPERVISOR VEHICLE  
INVITATION FOR BIDS.**

Sealed bids for the purchasing of a new command supervisor vehicle for the Fire Department will be received by the City Clerk at the Moberly City Hall, 101 W. Reed, Moberly, MO until Friday, September 24, 2021, at 10:00 am., when they will be opened and read. Bid options will be provided by contacting the Moberly Fire Department, 310 N. Clark St., Moberly, MO 65270 and Chief Don Ryan @ 660-269-8705 Ext. 2035 or by emailing Chief Ryan at [ryand@moberlyfd.com](mailto:ryand@moberlyfd.com)

Chief Don Ryan



**Moberly Fire Department  
Command Vehicle –  
Preferred Options**

<b>4x4 Crew Cab Pickup ¾ Ton</b>	<b>10,000# GVWR or higher</b>
<b>Gas (V8 Engine)</b>	<b>Dual Batteries (if required)</b>
<b>Larger Alternator (if required)</b>	<b>Factory A/C</b>
<b>Power Steering</b>	<b>Tilt Steering Column</b>
<b>AM/FM Radio</b>	<b>Driver &amp; Passenger Air Bag System</b>
<b>2 sets of keys</b>	<b>Painted Front &amp; Rear Bumpers</b>
<b>Rear View Camera</b>	<b>6 ¾ ft. Box w/Sprayed Liner</b>
<b>Front Tow hooks</b>	<b>Running Boards</b>
<b>Full Spare Tire &amp; Wheel</b>	<b>Automatic Transmission</b>
<b>Vinyl Interior (Seats &amp; Floor Covering)</b>	<b>40/20/40 Front Bench Seat</b>
<b>Power Brakes 4-wheel Disc w/ABS</b>	<b>LT245/75R x 17E BSW All Season</b>
<b>Class IV Trailer Hitch Receiver 2.5"</b>	<b>4-Pin/7-Pin Wiring Harness</b>
<b>Interval Windshield Wipers</b>	<b>Power Windows</b>
<b>Power Door Locks</b>	<b>Remote Keyless-Entry Fob</b>
<b>Manual-Folding Power Glass Side View Mirrors</b>	<b>Power Tailgate Lock</b>
<b>Electronic Shift-on-the-Fly</b>	<b>Factory Cruise Control</b>
<b>Daytime Running Lights</b>	<b>110V/400W Outlet</b>
<b>Reverse Backup Alarm</b>	<b>Heavy Duty Front Suspension</b>
<b>Trailer Brake Controller</b>	

This is to conform to a governmental bid.

Sealed bids for the purchasing of a new command supervisor vehicle for the Fire Department will be received by the City Clerk at the Moberly City Hall, 101 W. Reed, Moberly, MO until Friday, September 24, 2021, at 10:00 am., when they will be opened and read.

Bid options will be provided by contacting the Moberly Fire Department, 310 N. Clark St., Moberly, MO 65270 and Chief Don Ryan @ 660-269-8705 Ext. 2035 or by emailing Chief Ryan at [ryand@moberlyfd.com](mailto:ryand@moberlyfd.com)

Thank You

Chief Don Ryan



Outfit for Life™

#### Dealer Information

Fletcher's Truck Caps & Accessories  
1270 East Boone Industrial Drive  
Columbia, MO 65202  
Tel: 573-449-4397

#### Model

CX Classic

#### Truck Information

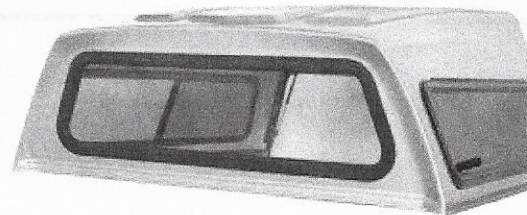
Truck Year: 2022  
Truck Make: Ford  
Truck Model: Super Duty (250/350/450/including Dually)  
Truck Cab: Crew Cab  
Truck Bed: 81.9 in.



#### Options

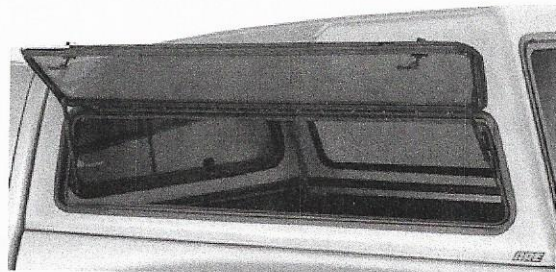
##### Front Cap Option

Aluminum Framed Picture Window



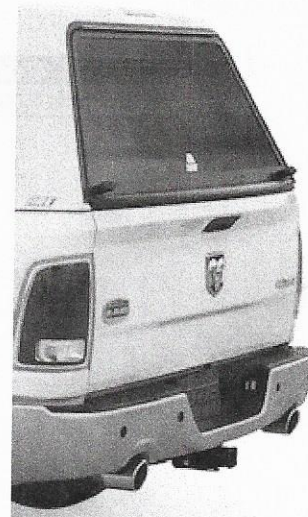
##### Side Window

Glass Windoor



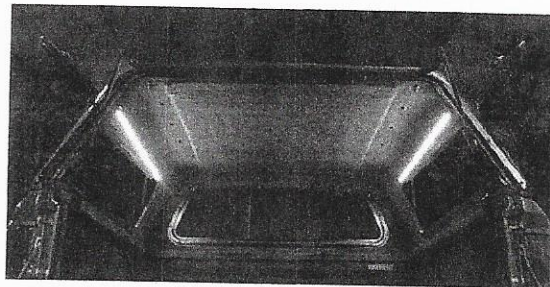
##### Rear Door

Aluminum Framed Double T Door

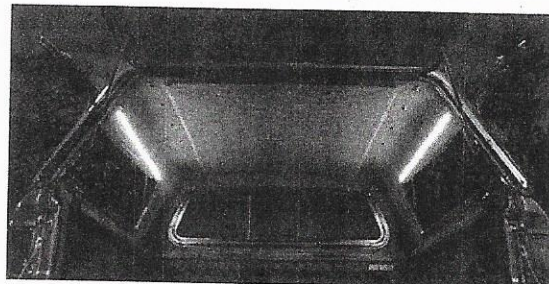




**Interior Light Option**  
12V LED Dome Light & Dual Rope Lights

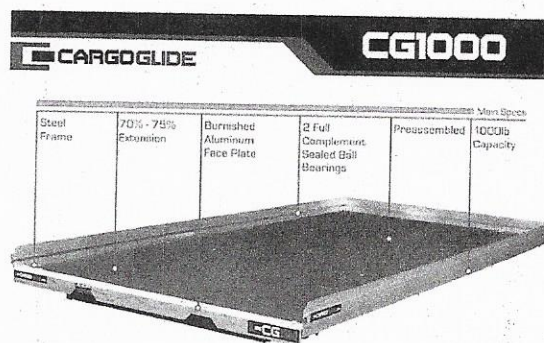


**Prop Switch**  
Prop Switch For 12V LED Dome Light & Dual Rope Lights



**Additional Accessories**

**CargoGlide Option**  
CargoGlide 1000 - 1000 lb Capacity



Disclaimer: Requesting a quote is not an order. Orders will be placed through and by your local A.R.E. dealer. Information provided throughout the build your own can be changed with the A.R.E. dealer you are sending the quote to. Availability of options is subject to change and is specific to truck make and model. Options listed throughout the build your own are not available on all truck makes and models. A.R.E. reserves the right to change options and availability at any time without notice.

**ATTN: STATE OF CALIFORNIA CONSUMERS**  
**⚠ WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).**

© 2021 A.R.E. Accessories, LLC | 4are.com

## Re: A.R.E. Additional Information Request

A.R.E. Accessories, LLC <contact@4are.com>

Mon 9/13/2021 5:19 PM

To: Donald Ryan <ryand@moberlyfd.com>

### ***Fletcher's Truck Caps & Accessories***

573-449-4397

Hello Donald Ryan,

Thank you for your interest in our premier line of truck accessories. We received your A.R.E. product inquiry. Here is a reminder of those details:

**Your Truck Details:** 2022 • Ford • Super Duty (250/350/450/including Dually) • Crew Cab • 81.9 in.

**A.R.E. Model:** CX Classic

#### **Your Cap Build:**

- Front Window: Aluminum Framed Picture Window
- Light Option: 12V LED Dome Light & Dual Rope Lights
- Prop Switch: Prop Switch For 12V LED Dome Light & Dual Rope Lights
- Side Window: Glass Windoor
- Rear Door: Aluminum Framed Double T Door
- CargoGlide Option: CargoGlide 1000 - 1000 lb Capacity

**Your Comments:** City of Moberly Fire Department is looking to put a topper on the rear of the new command vehicle that we are currently providing specs for with a dealer. I am not sure of the final vehicle color, but it is going to be "white" or "race red" as our final choices - so I didn't know if that would affect pricing.

**Date Received:** September 7, 2021 - 5:43:28 PM EDT

**Your Cost\*:** The shell would be \$2692.00 include professional installation and the CargoGlide is \$1460.00 includes professional installation.

\*This quoted price does not include all associated charges including, but not limited to, freight, installation, and taxes unless otherwise stated. This is not an order. To obtain exact pricing and place an order please contact our team to work through the necessary details.

If you have any additional questions please email, call, or stop in and see us. We look forward to outfitting your truck!

Thank you,  
Russ Fletcher

#### **Fletcher's Truck Caps & Accessories**

1270 East Boone Industrial Drive  
Columbia, MO 65202  
USA

#### **Dealership Phone**

573-449-4397

#### **Dealership Hours**

Mon: 8-5:30  
Tues: 8-5:30  
Wed: 8-5:30  
Thurs: 8-5:30




*Driven by tradition.*

City of Moberly Fire Department  
310 North Clark Street  
Moberly, Mo 65270

September 23, 2021

**RE: Bid for (1) 2022 Ford F250 Crew Cab 4X4 Pickup - (3/4) Ton**

Moberly Motor Company would like to submit the following bid  
Specifications and pricing for your consideration.

**2022 Ford F250 4X4 Crew Cab Pickup - XL Trim Level.**

<b>W2B</b> - 4 Wheel Drive	160" wheelbase - 6 ¾ ft Box
<b>99N</b> - 7.3L V8 Engine	<b>44G</b> - 10-sp Automatic Transmission w/Drive Modes
<b>X35</b> - 3.55 Rear Axle Ratio	10,000# GVWR
<b>600A</b> Pkg - XL Trim Series	\$10.00 Gasoline
<b>Z1</b> - White Exterior Color	<b>AS</b> - 40/20/40 Front Bench Seat - Gray Vinyl
Black Vinyl Floor Covering	Power Brakes 4-Wheel Disc w/ABS
Front Tow Hooks	<b>512</b> - Spare Tire & Wheel
Factory Air Conditioner	<b>TD8</b> - (4) LT245/75R X 17E BSW All Season
Power Steering	TPMS - Tire Pressure Monitoring Sys
Tilt Steering Column	Class IV trailer hitch receiver 2.5"
AM/FM Radio	4-pin/7-pin wiring harness
Dr & Pass Air Bag System	Interval Windshield Wipers
<b>86M</b> - Dual Batteries	<b>90L</b> - Power Equipment Group
<b>67B</b> - 397 Amp Alternator	Power Windows - Power Door Locks
2 Sets of Keys	Remote Keyless-Entry Fob
Painted Front & Rear Bumpers	Manual-folding, Power Glass Side View Mirrors
3 year / 36,000-mile warranty	Power Tailgate Lock
Rear View Camera - Center Stack Screen	Electronic Shift-on-the-Fly (ESOF)
<b>525</b> - Factory Cruise Control	<b>942</b> - Daytime Running Lights
<b>43C</b> - 110V / 400W Outlet	<b>76C</b> - Reverse Backup Alarm System
<b>67H</b> - Heavy Duty Front Suspension	<b>52B</b> - Trailer Brake Controller

**2022 F250 Crew Cab 4X4 Pickup      \$ 34,631**

*Amount due at delivery - Check - No Credit Card*



1520 North Morley, P.O. Box 249, Moberly, MO 65270

T (660) 263.6000 | T (800) 798.6006 | F (660) 263.1871 | [ford@moberlymotors.com](mailto:ford@moberlymotors.com) | [www.moberlymotors.com](http://www.moberlymotors.com)

**Equipment provided and installed by Fletcher's Truck Accessories**

Are Fiberglass Front Cap with Side Opening Access – Driver &amp; Passenger

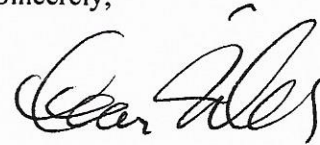
Rear Door Access – included

CargoGlide Shelf – 1,500 lb. capacity

Optional Equipment     **\$4,024** ( no sales tax )**Pickup and Optional Equipment Total Amount     \$ 38,655***Amount due at delivery – Check – No Credit Card***Electronic Shift-on-the-Fly (ESOF)** – The 4X4 system has two (2) available drive settings.**1<sup>st</sup> setting** is the “Automatic” – Electric motor shifts the transfer case into selected drive settings – 2H – 4H or 4L – This is the Electronic Shift-on-the-Fly mode – Front Hubs – (Front HubLock) are in the AUTO Setting letting the Continuous Vacuum Hublock (CVH) engage / disengage the front hubs automatically as needed.**2<sup>nd</sup> setting** is the “LOCK” - Front Hubs are set to “LOCK” allowing the driver to LOCK the hubs in continuously. This setting has more wear on the front drive components. Both methods provide 4 Wheel Drive performance operation of the driveline.

Thank You for the opportunity to give you pricing on the above unit. Please let me know how you would like me to proceed from this point. Warranty is 3 year / 36,000 mile plus Power Train 5 year / 60,000 miles. Build date will be as soon as possible by the manufacture.

Sincerely,

Dean Miller  
Moberly Motor Company



August 24, 2021

State Contract # CC210581002

Moberly Fire

Subject: Joe Machens Proposal on a **2022 Ford F250 Crew Cab 4x4 (full 4 door)**

To: Whom it May Concern;

As per the requested proposal on a 2022 Ford F250, Joe Machens Ford proposes the following. The Ford F250 includes the factory standard options. The Ford F250 includes the State Contract standard options and others as noted below.

**Line #234 Price – Included Equipment**

<b>\$28,433</b> – Line 234 / X2B / 148 – 2022 Ford F250 Super Cab 4x4 (X2B)	
6.2L V8 fuel injected gasoline engine (996)	Speed Control and Tilt wheel (525)
Mfr. std rear end axle ratio	Manual Windows, Locks, Mirrors
Automatic Transmission	Vinyl Flooring
Air conditioning	Cloth Bench type Seat 40/20/40 (1S)
Frontal and Side Impact Air Bags	2 sets of keys
Painted Grey Bumpers	6.75' Short Bed (148)
AM/FM Radio	Daytime Running Lights
Std. GVWR	Shift on the Fly
Std. Receiver Hitch, 4/7 pin wiring	Tow Mirrors
Brakes, 4-wheel ABS	Bluetooth
Std. LT Tires - LT245/75Rx17E BSW A/S (TD8)	Rear Camera
Full spare tire and wheel (512)	

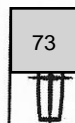
**Added Optional equipment (Price – Dealer Code – Option) (Included in Total below):**

**\$2,990** – Line 248 / W2B / 160 – Crew Cab in lieu of Super Cab  
**\$2,040** – Line 250 / 99N – 7.3L V8 Gas Engine (non FFV) in lieu of 6.2L V8 Gas  
**\$115** – Line 384 / 67B – 397 Amp Alternator (**req'd w/ 7.3L V8**) (7.3L V8 & 6.7L Diesel only)  
**\$210** – Line 384 / 86M – Dual Batteries (**req'd w/ 7.3L V8**)  
**\$1,110** – Line 241B / 90L – Power Windows, Locks, Mirrors and Key Fobs (Crew Cab)  
**\$650** – Line 252 / LNX – Tow Pkg / Spray Liner  
**\$120** – Line 235 / 67H – HD Service Front Suspension  
**\$270** – Line 244 / 52B – Trailer Brake Controller  
**\$440** – Line 253 / 18B – Running Boards (Factory)  
**\$240** – Line 384 / 76R – Reverse Vehicle Aid Sensors  
**\$140** – Line 384 / 76C – Exterior Back up Alarm  
**\$90** – Line 384 / 43C – 110 / 400W Outlet  
**\$0** – PQ – Exterior Color: Race Red  
**\$0** – Line 384 / AS – Interior: Grey Vinyl 40 / 20 / 40 Bench Seat, rear bench in lieu of Cloth  
**\$0** – Line 385 / JMF – Customer pick up...or...\$150 – Delivery per

**Total****\$36,848 per (2022 Ford F250 Crew Cab 4x4) (full 4 door)****(Ordering ends 11/12 and Ford could move up this date without notice)****(More than likely there will NOT be Super Duty's on Contract all of next year either)****Other Options to consider (Add to Total above if desired):**

**\$9,740** – Line 249 / 99T – 6.7L Diesel Engine in lieu of 6.2L V8 Gas  
**\$420** – Line 247 / 176 – 8' Long Bed in lieu of 6.75' Short Bed  
**\$390** – Line 235 / X3E – 3.73 Limited Slip Axle

...continued on following pages...



LINCOLN

1911 W. Worley • Columbia, MO 65203 • (573) 445-4411 • (800) 745-4454 • [www.machens.com](http://www.machens.com)

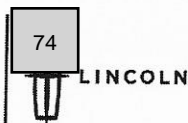
- \$370** – Line 384 / 85G – Tailgate Step
- \$250** – Line 384 / 473 – Snowplow Prep Pkg
- \$1,820** – Line 384 / 17S – STX Appearance Pkg, to incl... (N/A w/ Fog Lamps)
  - Bright Chrome Grille • Bright Hub Covers • Chrome Front and Rear Bumpers
  - 18" Sparkle Silver Painted Cast Aluminum Wheels (648) (F-250/F-350 SRW)
  - Tires: LT275/65Rx18E BSW A/S (TCH)
- \$290** – Line 384 / TDU – LT275/70Rx18E OWL AT in lieu of A/S BSW (Avail with STX only)
- \$450** – Line 237 / 913 – SYNC 3 (Bluetooth w/ 8" screen) (Req's Power Equipment Grp)
- \$640** – Line 238 / 60B – BLIS (Blind Spot Monitors in Mirrors) (Req's Power Equipment Grp)
- \$100** – Line 384 / 41H – Engine Block Heater
- \$90** – Line 384 / 592 – Roof Clearance Lights
- \$180** – Line 245A / TBM – LT245/75Rx17E BSW AT Tires in lieu of AS (N/A w/ STX Pkg)
- \$0** – 1S – Interior: Grey Cloth 40 / 20 / 40 Bench Seat, rear bench
- \$610** – Line 240 / 4S – Interior: Grey Cloth Captains Charis (no center console / seat) rear bench
- \$350** – Line 236 / PTS – 3<sup>rd</sup> Set of Keys or Key FOBS
- \$130** – Line 384 / 61S / 62S – Molded Mud flaps Front and Rear
- \$450** – Line 243 / 595 / 17F – Fog Lights & Chrome Bumpers (N/A w/ STX Pkg)
- \$190** – Line 384 / 924 / 43B – Rear Privacy Glass & Defroster (Req's Power Equipment Grp)
- \$0** – AS – Interior: Grey Vinyl 40 / 20 / 40 Bench Seat, rear bench in lieu of Cloth
- \$610** – Line 384 / 4S – Interior: Grey Cloth Captains Charis (no center console / seat) rear bench  
(Front seats do not have a center console or seat in center section. Space is deleted for upfit of an aftermarket console)
- \$910** – Line 241A / 90L – Power Windows, Locks, Mirrors and Key Fobs (Super Cab)
- \$750** – Line 384 / 53W / 15J – Gooseneck Hitch Prep Pkg & Gooseneck Hitch Kit (Factory)
- \$160** – Line 384 / 66S – Upfitter Switches
- \$460** – Line 245B / TCD – LT265/70Rx17E OWL AT Tires in lieu of AS

Joe Machens Ford appreciates your business and we look forward to servicing your needs in the future. Any questions should be directed to Kelly Sells, Fleet Department Manager.

Thanks,



Kelly Sells, Fleet Manager, Joe Machens Ford, 573-445-4411, [ksells@machens.com](mailto:ksells@machens.com)





Re: Moberly Fire - Topper & Slide Out

KELLY SELLS <ksells@machens.com>

Tue 9/14/2021 8:33 AM

To: Donald Ryan <ryand@moberlyfd.com>

Hi Chief,

Russ Fletcher w/ Fletcher truck caps said he emailed you the quote on the Topper. Could you make sure you add that to my total?

Thank you,

**Kelly Sells**

Fleet Manager

Joe Machens Ford

573-777-1089 (Direct)

573-445-4411 (Office)

---

# City of Moberly

## City Council Agenda Summary

Agenda Number: #10.  
 Department: Fire Dept  
 Date: October 18, 2021

**Agenda Item:** A Resolution Authorizing The Purchase Of A New Engine Pumper For The Moberly Fire Department.

**Summary:** The Moberly Fire Department has been looking to purchase a new fire truck; in conjunction with the recent mechanical issues of the current fleet, the attached proposal for a Rosenbauer Pumper complete with a Rosenbauer Commander chassis in the amount of \$587,054.00 is being presented. This will be leased purchased starting in the next budget year.

**Recommended Action** Approve This Resolution

**Fund Name:** General Fund

**Account Number:**

**Available Budget \$:** 0.00

### ATTACHMENTS:

<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input checked="" type="checkbox"/> Proposed Resolution
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____

### Roll Call

**Aye** **Nay**

### Mayor

M\_\_\_ S\_\_\_ **Jeffrey** \_\_\_\_\_

### Council Member

M\_\_\_ S\_\_\_ **Brubaker** \_\_\_\_\_

M\_\_\_ S\_\_\_ **Kimmons** \_\_\_\_\_

M\_\_\_ S\_\_\_ **Davis** \_\_\_\_\_

M\_\_\_ S\_\_\_ **Kyser** \_\_\_\_\_

Passed Failed

BILL NO. \_\_\_\_\_

RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION AUTHORIZING THE PURCHASE OF A NEW ENGINE PUMPER  
FOR THE MOBERLY FIRE DEPARTMENT.**

**WHEREAS**, the Moberly Fire Department staff has determined that a new engine pumper must be purchased as soon as possible to provide fire protection to the community; and

**WHEREAS**, staff has considered available options for a new pumper and believe the Rosenbauer model would best serve the city; and

**WHEREAS**, Rosenbauer South Dakota, LLC has priced a new Engine Pumper complete with a Rosenbauer Commander Chassis for Five Hundred and Eighty-Seven Thousand and Fifty-Four Dollars (\$587,054.00).

**WHEREAS**, staff recommends purchase of this engine pumper.

**THEREFORE**, the Moberly, Missouri, City Council accepts the offer of Rosenbauer South Dakota, LLC and authorizes the City Manager or his designee to purchase the engine pumper described herein for the total price of \$587,054.00 and granting further authority for all actions as may be necessary to carry out the intent of this Resolution.

**RESOLVED** this 18th day of October, 2021, by the Council of the City of Moberly, Missouri.

---

Presiding Officer at Meeting

**ATTEST:**

---

Shannon Hance, City Clerk

PURCHASER		SUPPLIER	
Purchaser:	City of Moberly	Contract #	Sourcwell Contract #: 022818-RSB
Address 1:	101 W. Reed Street	Supplier:	Rosenbauer South Dakota, LLC
Address 2:		Address 1:	100 3rd Street
City, State, Zip:	Moberly, Moberly 65270-1551	Address 2:	
		City, State, Zip:	Lyons, SD 57041

<b>Purchase Order Number:</b>	100421	<b>Delivery in Calendar Days:</b>	425
<b>Date:</b>	10/4/2021	<b>Member #</b>	94169

Quantity	Description	Price	Price (Extended)
1	One (1) Rosenbauer Pumper, complete with Rosenbauer Commander chassis per attached specifications.	\$587,054.00	\$587,054.00
*Note: If chassis amount of \$271,992.00 is paid upon arrival at our plant in South Dakota, deduct \$10,442.00 each			
<b>TOTAL</b>			\$587,054.00

NOTES:	
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<b>Rosenbauer Dealer :</b>	Heiman Fire Equipment
<b>Salesperson:</b>	Les Hinnen
<b>Signature:</b>	

<b>Purchaser:</b>	City of Moberly
<b>Print Name:</b>	
<b>Title:</b>	
<b>Date</b>	
<b>Signature:</b>	



APPENDIX C  
CHANGE ORDER POLICY

This change order policy is intended to reflect the increased cost of changes which result in delayed deliveries, confused paperwork, poor production flow and increased potential of trucks being built to incorrect specifications. With your cooperation, changes can be kept to a minimum which means we will be able to reduce lead times, increase production and maintain costs which will benefit all of us.

Our objective is accurate, high quality and on-time deliveries exceeding our customer expectations.

Changes any time after the order is received may delay the quoted delivery date. Significant design or component changes will have the largest impact on the schedule and quoted delivery date. Changes that occur later in the process will also have the largest impact on the schedule and quoted delivery date.

All time fences are reference to contract execution date if not otherwise stated.

Change Window #1

All changes will be priced at standard pricing and specials will be priced through our normal process. Significant changes made to the vehicle during this time period may result in a delivery extension.

RBM Chassis	0-60 days
RBA Aerial	0-60 days
Rosenbauer Body	0-60 days

Change Window #2

All changes are subject to a 25% mark-up, as well as a \$250.00 change order processing fee. All changes are subject to factory review and may be denied due to engineering or lead time issues.



RBM Chassis	61-75 days
RBA Aerial	61-75 days
Rosenbauer Body	61-120 days

Change Window #3

All changes are subject to a 50% mark-up, and 50% restocking fee on deleted items, as well as a \$250.00 change order processing fee. All changes are subject to factory review and may be denied due to engineering or lead time issues. No major components can be changed at this time; major components are considered engine, transmission, axles, suspension, cab, frame (wheelbase), seats, water pump and water tank.

RBM Chassis	76-120 days
RBA Aerial	76-120 days
Rosenbauer Body	121-180 days

Change Window #4

Changes are not recommended at this time. Any changes requested will be priced on a time and material basis, as well as a \$500.00 change order processing fee. Any changes requested, and that are quoted to the customer, must be approved by the customer within three days or they will not be valid.

RBM Chassis	After 120 days
RBA Aerial	After 120 days
Rosenbauer Body	After 180 days

*\*Note: Any late change orders that are factory driven will be done at cost and no additional mark up or penalties will apply.*

BUYER INITIALS: \_\_\_\_\_



# Fire Truck Financing Proposal

#10.

**Prepared for:** Moberly  
**Requested by:** Grant Aasen, Heiman Fire  
**Date:** September 29, 2021  
**Prepared by:** John Hill, First Bankers



## **Equipment: Rosenbauer Pumper**

Cost of Equipment: \$ 587,054

Down Payment: \$ 0

Amount Financed: \$ 587,054

## **Initial Financing Proposal:** You requested the following financial terms.

Term (years):	5	7	10
Annual Payment:	\$128,914	\$95,423	\$70,485
Interest Rate:	3.15 %	3.28 %	3.41 %
Total Borrowing Cost:	\$57,518	\$80,908	\$117,803
First Payment Date:	January 2023		
Other Costs and Fees:	None		

*This proposal is not an offer to finance and is subject to credit review and acceptance.  
This proposal is for fire departments who meet IRS rules as qualified tax-exempt borrowers.*

## **Learn what you are missing**

Are you asking all the right questions? Fire Truck financing has more options than a car or house. Get a free, no obligation IDEA Report today **based on your unique situation**. It's just for you.

### **You will get:**

- Money saving ideas that typically lowers total borrowing cost by 22%
- Methods to avoid common fire truck financing mistakes
- Ideas to financially prepare for your next truck



Read the story how one department avoided a major mistake with their IDEA Report :

**“Why bad financing happens to good fire departments”**

Request by email to: [story@firstbankers.net](mailto:story@firstbankers.net)

80

**Call toll-free today: 877-323-1776**

3905 Vincennes Road, Suite 303 | Indianapolis, IN 46268  
[jrhill@firstbankers.net](mailto:jrhill@firstbankers.net) | [FirstBankers.net](http://FirstBankers.net)

**FIRST BANKERS**

*First in ideas. First in service.™*





# One (1) Year

## Bumper to Bumper

### Material and Workmanship

#### **TERMS AND CONDITIONS**

Rosenbauer hereby warrants each new fire apparatus to be free from defects in material and workmanship for a warranty period of one (1) year starting on the date the vehicle is delivered to original purchaser. Under this warranty, Rosenbauer agrees to furnish any item or items to replace those that have been found to be defective in material or workmanship where there is no indication of abuse, neglect or other than normal service. Such an item or items, at the option of Rosenbauer must be made available for our inspection at our request and returned to our factory or another location designated by Rosenbauer. Transportation of such an item or items will be arranged and covered by buyer within thirty (30) days after the date of failure and within one (1) year from the date of delivery of the apparatus to the original purchaser. The inspection must indicate that the failure was attributed to defective material or workmanship. Authorization for repair or item replacement must be sought from Rosenbauer customer service department prior to repair or item replacement occurring.

#### **THIS WARRANTY SHALL NOT APPLY TO OR COVER THE FOLLOWING:**

- Normal maintenance services or adjustments, including but not limited to glass, filters, batteries, screens, lubricants, light bulbs, belts, hoses, wiper blades and other incidentals.
- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer, or in a manner which, at Rosenbauer's discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, exposure to corrosive agents, fire, severe environmental conditions or acts of God.
- Items which are manufactured by a party other than Rosenbauer and which are separately warranted by that party, including but not limited to commercial chassis, engine, transmission, driveline and axles.

#### **EXCLUSIONS OF DAMAGES BOTH INCIDENTAL AND CONSEQUENTIAL.**

At no time shall Rosenbauer be held liable for any incidental, consequential, indirect, special and/or punitive damages whatsoever, whether coming from breach of contract, warranty, tort or equity. Such items shall include the chassis or other items sold by Rosenbauer, or their operation or their failure to operate, or defects herein, or any undertakings, acts or omissions related to, regardless whether Rosenbauer's knowledge of the possibility of any such damage.

Without limitation of the generality of the preceding statements, Rosenbauer categorically disclaims any and all liability for property and personal injury, damages, penalties for lost revenue and/or profit, loss of chassis or products and associated pieces of equipment, the expense of substituting chassis and/or products, or the out of service expenses, resulting from damages and/or delays, that creates down time expenses and/or create economic losses, or any third party claims for damages.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer.

**NOTE:** Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.





# Five (5) Year FX Aluminum Body Structural Warranty

## **TERMS AND CONDITIONS**

Rosenbauer hereby warrants the Rosenbauer FX aluminum body to be structurally sound and will retain its structural integrity for a warranty period of five (5) years starting on the date the vehicle is delivered to original purchaser. Under this warranty, Rosenbauer agrees to furnish any item or items to replace those that have been found to be defective in material or workmanship where there is no indication of abuse, neglect or other than normal service. Such an item or items, at the option of Rosenbauer, must be made available for our inspection at our request and returned to our factory or another location designated by Rosenbauer. Transportation of such an item or items will be arranged and covered by buyer within thirty (30) days after the date of failure and within five (5) years from the date of delivery of the apparatus to the original purchaser. The inspection must indicate that the failure was attributed to defective material or workmanship. Authorization for repair or item replacement must be sought from Rosenbauer customer service department prior to repair or item replacement occurring.

## **THIS WARRANTY SHALL NOT APPLY TO OR COVER THE FOLLOWING:**

- Normal maintenance services or adjustments.
- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer or in a manner which, at Rosenbauer's discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, exposure to corrosive agents, fire, severe environmental conditions or acts of God.
- Items which are manufactured by a party other than Rosenbauer and which are separately warranted by that party.

## **EXCLUSIONS OF DAMAGES BOTH INCIDENTAL AND CONSEQUENTIAL**

At no time shall Rosenbauer be held liable for any incidental, consequential, indirect, special and/or punitive damages whatsoever, whether coming from breach of contract, warranty, tort or equity. Such items shall include the chassis or other items sold by Rosenbauer, or their operation or their failure to operate, or defects herein, or any undertakings, acts or omissions related to, regardless whether Rosenbauer's knowledge of the possibility of any such damage.

Without limitation of the generality of the preceding statements, Rosenbauer categorically disclaims any and all liability for property and personal injury, damages, penalties for lost revenue and/or profit, loss of chassis or products and associated pieces of equipment, the expense of substituting chassis and/or products, or the out of service expenses, resulting from damages and/or delays, that creates down time expenses and/or create economic losses, or any third party claims for damages.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer.

**NOTE:** Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.





# Lifetime

## Hot Dipped Galvanized

### Body Sub Frame

#### **TERMS AND CONDITIONS**

Rosenbauer hereby warrants the hot dipped galvanized body sub frame of each new fire & rescue vehicle to be free from defects in material or workmanship for the life time of the vehicle. This warranty terminates upon transfer of possession or ownership by original purchaser. Under this warranty, Rosenbauer agrees to furnish any item or items to replace those that have been found to be defective in material or workmanship where there is no indication of abuse, neglect or other than normal service. Such an item or items, at the option of Rosenbauer, must be made available for our inspection at our request and returned to our factory or another location designated by Rosenbauer. Transportation of such an item or items will be arranged and covered by buyer within thirty (30) days after the date of failure. The inspection must indicate that the failure was attributed to defective material or workmanship. Authorization for repair or item replacement must be sought from Rosenbauer customer service department prior to repair or item replacement occurring.

#### **THIS WARRANTY SHALL NOT APPLY TO OR COVER THE FOLLOWING:**

- Normal maintenance services or adjustments.
- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer or in a manner which, at Rosenbauer's discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, exposure to corrosive agents, fire, severe environmental conditions or acts of God.
- Items which are manufactured by a party other than Rosenbauer and which are separately warranted by that party.

#### **EXCLUSIONS OF DAMAGES BOTH INCIDENTAL AND CONSEQUENTIAL.**

At no time shall Rosenbauer be held liable for any incidental, consequential, indirect, special and/or punitive damages whatsoever, whether coming from breach of contract, warranty, tort or equity. Such items shall include the chassis or other items sold by Rosenbauer, or their operation or their failure to operate, or defects herein, or any undertakings, acts or omissions related to, regardless whether Rosenbauer's knowledge of the possibility of any such damage.

Without limitation of the generality of the preceding statements, Rosenbauer categorically disclaims any and all liability for property and personal injury, damages, penalties for lost revenue and/or profit, loss of chassis or products and associated pieces of equipment, the expense of substituting chassis and/or products, or the out of service expenses, resulting from damages and/or delays, that creates down time expenses and/or create economic losses, or any third party claims for damages.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer.

**NOTE:** Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.





# Five (5) Year Paint Warranty

## **TERMS AND CONDITIONS**

Rosenbauer hereby warrants the paint on the body of each new fire & rescue vehicle to be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection for a warranty period of five (5) years starting on the date the vehicle is delivered to original purchaser. Under this warranty, Rosenbauer agrees to furnish any item or items to replace those that have been found to be defective in material or workmanship where there is no indication of abuse, neglect or other than normal service. Such an item or items, at the option of Rosenbauer must be made available for our inspection at our request and returned to our factory or another location designated by Rosenbauer. Transportation of such an item or items will be arranged and covered by buyer within thirty (30) days after the date of failure and within five (5) years from the date of delivery of the apparatus to the original purchaser. The inspection must indicate that the failure was attributed to an adhesion defect caused by defective manufacturing methods or paint material selection. Authorization for repair or item replacement must be sought from Rosenbauer customer service department prior to repair or item replacement occurring.

## **THIS WARRANTY SHALL NOT APPLY TO OR COVER THE FOLLOWING:**

- Any item that has been repaired, repainted or altered by a facility not approved in advance by Rosenbauer.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any defect resulting from misuse, negligence, alteration, accident or lack of normal or required maintenance or adjustments, exposure to corrosive agents, fire, severe environmental conditions or acts of God.
- Painted items which are manufactured by a party other than Rosenbauer and which are separately warranted by that party included cabs not manufactured and painted by Rosenbauer .

## **EXCLUSIONS OF DAMAGES BOTH INCIDENTAL AND CONSEQUENTIAL.**

At no time shall Rosenbauer be held liable for any incidental, consequential, indirect, special and/or punitive damages whatsoever, whether coming from breach of contract, warranty, tort or equity. Such items shall include the chassis or other items sold by Rosenbauer, or their operation or their failure to operate, or defects herein, or any undertakings, acts or omissions related to, regardless whether Rosenbauer's knowledge of the possibility of any such damage.

Without limitation of the generality of the preceding statements, Rosenbauer categorically disclaims any and all liability for property and personal injury, damages, penalties for lost revenue and/or profit, loss of chassis or products and associated pieces of equipment, the expense of substituting chassis and/or products, or the out of service expenses, resulting from damages and/or delays, that creates down time expenses and/or create economic losses, or any third party claims for damages.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer.

**NOTE:** Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.





# One (1) Year

## Lettering and Graphics

### **TERMS AND CONDITIONS**

Rosenbauer hereby warrants that the lettering or graphics provided on each new fire apparatus to be free from defects in material and workmanship for a warranty period of one (1) year starting on the date the vehicle is delivered to original purchaser. Under this warranty, Rosenbauer agrees to furnish any item or items to replace those that have been found to be defective in material or workmanship where there is no indication of abuse, neglect or other than normal service. Such an item or items, at the option of Rosenbauer must be made available for our inspection at our request and returned to our factory or another location designated by Rosenbauer. Transportation of such an item or items will be arranged and covered by buyer within thirty (30) days after the date of failure and within one (1) year from the date of delivery of the apparatus to the original purchaser. The inspection must indicate that the failure was attributed to defective material or workmanship. Authorization for repair or item replacement must be sought from Rosenbauer customer service department prior to repair or item replacement occurring.

### **THIS WARRANTY SHALL NOT APPLY TO OR COVER THE FOLLOWING:**

- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident, exposure to corrosive agents, fire, severe environmental conditions or acts of God.

### **EXCLUSIONS OF DAMAGES BOTH INCIDENTAL AND CONSEQUENTIAL.**

At no time shall Rosenbauer be held liable for any incidental, consequential, indirect, special and/or punitive damages whatsoever, whether coming from breach of contract, warranty, tort or equity. Such items shall include the chassis or other items sold by Rosenbauer, or their operation or their failure to operate, or defects herein, or any undertakings, acts or omissions related to, regardless whether Rosenbauer's knowledge of the possibility of any such damage.

Without limitation of the generality of the preceding statements, Rosenbauer categorically disclaims any and all liability for property and personal injury, damages, penalties for lost revenue and/or profit, loss of chassis or products and associated pieces of equipment, the expense of substituting chassis and/or products, or the out of service expenses, resulting from damages and/or delays, that creates down time expenses and/or create economic losses, or any third party claims for damages.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer.

**NOTE:** Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.





# Ten (10) Year

## Stainless Steel Plumbing

### **TERMS AND CONDITIONS**

Rosenbauer hereby warrants the stainless steel plumbing and manifolds of the fire pump assembly of each new fire & rescue vehicle to be free from defects in material or workmanship for a warranty period of ten (10) years starting on the date the vehicle is delivered to original purchaser. Under this warranty, Rosenbauer agrees to furnish any item or items to replace those that have been found to be defective in material or workmanship where there is no indication of abuse, neglect or other than normal service. Such an item or items, at the option of Rosenbauer, must be made available for our inspection at our request and returned to our factory or another location designated by Rosenbauer. Transportation of such an item or items will be arranged and covered by buyer within thirty (30) days after the date of failure and within ten (10) years from the date of delivery of the apparatus to the original purchaser. The inspection must indicate that the failure was attributed to defective material or workmanship. Authorization for repair or item replacement must be sought from Rosenbauer customer service department prior to repair or item replacement occurring.

### **THIS WARRANTY SHALL NOT APPLY TO OR COVER THE FOLLOWING:**

- Normal maintenance services or adjustments.
- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer or in a manner which, at Rosenbauer's discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, exposure to corrosive agents, fire, severe environmental conditions or acts of God.
- Items which are manufactured by a party other than Rosenbauer and which are separately warranted by that party.

### **EXCLUSIONS OF DAMAGES BOTH INCIDENTAL AND CONSEQUENTIAL.**

At no time shall Rosenbauer be held liable for any incidental, consequential, indirect, special and/or punitive damages whatsoever, whether coming from breach of contract, warranty, tort or equity. Such items shall include the chassis or other items sold by Rosenbauer, or their operation or their failure to operate, or defects herein, or any undertakings, acts or omissions related to, regardless whether Rosenbauer's knowledge of the possibility of any such damage.

Without limitation of the generality of the preceding statements, Rosenbauer categorically disclaims any and all liability for property and personal injury, damages, penalties for lost revenue and/or profit, loss of chassis or products and associated pieces of equipment, the expense of substituting chassis and/or products, or the out of service expenses, resulting from damages and/or delays, that creates down time expenses and/or create economic losses, or any third party claims for damages.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer.

**NOTE:** Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.



## **W.S. Darley & Co.**

### **Darley Pump Standard Limited Warranty**

W.S. Darley & Co., herein referred to as "Darley", warrants all truck mounted split shaft midship and PTO Darley Pumps and accessories of its manufacturer to be free from defects in material and workmanship, under normal use and service, for a period of **SIX YEARS** from the date placed into service, **6 1/2 years** from date of manufacturer or **6000 hours** of usage (unless otherwise specified), whichever comes first. Under this warranty, Darley will cover labor charges for a period of three years from the date the pump is placed into service. This warranty applies to any pump shipped after July 1, 2007.

This warranty does not cover any parts or equipment which may be included in a Pump, but which are not manufactured by Darley. Such non-covered items shall carry only such warranties, if any, made by their respective manufacturers and assignable to the Customer. This warranty further excludes any coverage of damage or loss to any equipment or structures in which a Pump is incorporated or to which a Pump may be attached, as well as any damage to or failure of Pump is caused by or related to misuse, accident, failure to maintain or service, abuse, negligence, applications which exceed Darley's recommended limitations, or in the event of Customer's unauthorized or improper modification(s) of a Pump (and regardless of any actual or constructive knowledge Darley may have of such modifications), or in the event a Pump has been repaired, altered, or treated by anyone other than Darley-trained technicians.

The following repairs or replacement expenses are specifically excluded from the scope of this warranty: non-defective parts worn, exhausted or consumed through normal usage; consumable parts subject to routine replacement, including but not limited to pump packing, O-rings, gaskets, intake screens, anodes or filters; and routine maintenance specified in the operator's manual.

Customer shall notify Darley in writing within the Warranty Period of any claim under this Warranty, to Darley's Itasca, Illinois office (except as otherwise directed), and the Customer shall comply with Darley's reasonable claim documentation and processing according to Darley's Returned Goods Authorization form and procedures, which should be requested when making a warranty claim.

Within 30 days of Customer's receipt of a Returned Goods Authorization, Customer shall return the Pump or claimed defective component thereof to Darley F.O.B. Darley's designated plant. Customer shall bear all of its own costs of dismantling, removing, shipping, storing, insuring and reinstalling Pumps or parts thereof which are submitted to Darley for warranty evaluation. Darley shall within a reasonable time examine the returned item and determine whether such item is defective, and at Darley's election, whether to repair, replace, recondition, or refund the price thereof. The amount of any refund shall not exceed Customer's purchase price. No reimbursement or allowance will be made to Customer for Darley's labor costs or other expenses of repairing or replacing defective products or workmanship, all such costs of which shall be billed to Customer. Any repaired Pumps or replacement parts shall also be covered by this limited warranty, subject to the same original Warranty Period (which shall not be extended by reason of any repair or replacement).

This limited warranty shall be Customer's sole & exclusive contractual remedy for any defect or failure of a Pump or component, and as such excludes any remedy or cause of action in tort or contract against Darley or any of its suppliers or distributors for liability to Customer or to any other person for any incidental, consequential, or other damages (including but not limited to personal injury, death; property damage due to fire, water or any other cause; loss of crops, timber or wildlife; loss of time or interruption of operations or related costs; delays; demurrage; lost profits; or indirect or special damages) arising out of or relating to the use (including any malfunction) or inability to use any original, repaired, replaced, or substitute Pump, regardless of the reason for such damage, loss or injury. Under no circumstance will Darley's liability for any claim hereunder, including for breach of warranty or any cause of action related to an alleged breach of this warranty, exceed Customer's purchase price for the Pump or component thereof which is the subject of this warranty.

**THIS LIMITED WARRANTY IS THE ONLY WARRANTY MADE BY DARLEY, AND IS IN LIEU OF ANY OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, ANY OF WHICH ARE DISCLAIMED, INCLUDING NOT LIMITED TO WARRANTIES OF MERCHANTABILITY, OF FITNESS FOR A PARTICULAR PURPOSE, OR FREEDOM FROM THE PATENT INFRINGEMENT. CUSTOMER ASSUMES ALL RISK OF USING ALL PUMPS FOR ALL FORESEEN AND UNFORESEEN PURPOSES. CUSTOMER'S REMEDIES CONTAINED HEREIN ARE EXCLUSIVE.**

All terms of this limited warranty are subject to the standard W.S. Darley & Co. purchase contract standard terms and conditions in effect at the time of sale, and to any written modifications to this standard limited warranty agreed to by Darley and Customer (including but not limited to the Darley Pump Premium Protection Plan). Any bad faith invocation of a warranty claim, or customer's breach of purchase contract (including OEM breaches), will void Darley obligations to Customer hereunder. The scope and operation of this limited warranty shall be interpreted under Illinois law.

W.S. Darley and Company - 325 Spring Lake Drive - Itasca, IL 60143-2072



## **COPOLYMER POLYPROPYLENE TANKS LIMITED LIFETIME SERVICE WARRANTY**



G3 Fire® offers a limited lifetime warranty on all copolymer polypropylene water and foam tanks and guarantees the tank to be free of defects in workmanship and material for the normal service life of the original apparatus in which the tank is installed. All copolymer polypropylene tanks must be installed and operated in accordance with the G3 Fire® installation guidelines and procedures and failure to do so may void the warranty. The warranty extends to the original purchaser only, but may be transferred with prior written approval by G3 Fire®, with the exception that the original apparatus manufacturer may assign the warranty to the first titled owner of the apparatus.

Should a defect in material or workmanship occur under warranty, G3 Fire® will cover the cost of repair and complete the repair in a timely manner after the first written notification to G3 Fire®. G3 Fire® has sole discretion to determine if warranty is void due to improper installed and operation, misuse, modification from its designed use, or abuse. Tanks which have been stored improperly and suffered UV damage will not be covered under warranty. For valid service claims outside of North America, G3 Fire® will compensate for reasonable labor and material necessary for the repair. G3 Fire® is not responsible for any travel costs associated with international repair. Serial numbers must be intact for warranty to have effect.

To ensure the highest rates of quality control, all warranty and repairs shall take place at the G3 Fire® facility, or that of an authorized service center. All service requests must be accompanied by a G3 Fire® Repair Request form. The costs associated with making the tank accessible for repair will be equally prorated for the first 5 years of tank service. During that time G3 Fire® will cover reasonable expenses to make the tank accessible for repair.

Any third party charges must be pre-authorized and approved in writing by G3 Fire® before beginning any service/repairs, and any unauthorized third party alterations, repairs, modifications, or actions may void the warranty.

G3 Fire® has the exclusive rights in determining valid warranty service claims. Under no circumstances will G3 Fire® be accountable for an amount exceeding the original purchase price of the copolymer polypropylene tank at the time of manufacture, for any loss or damage occurring from failure of the product such as loss of contents (water, foam, etc.) or any costs in connection with service repairs of the chassis, sub-frames, body, valves, dumps, hoses, or other components.

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. IN ADDITION, G3 FIRE® SHALL NOT BE LIABLE FOR ANY DIRECT OR INDIRECT LOSS OR DAMAGE ARISING OUT OF BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATION OR LIABILITIES ON THE PART OF G3 FIRE®.

Since some states do not allow limitations on the length of an implied warranty or the exclusion and limitation of incidental or consequential damages, the above limitations may be irrelevant.





## **Rosenbauer Motors, LLC**

### **New Vehicle Limited Warranty**

Rosenbauer Motors, LLC hereby warrants each new fire & rescue vehicle to be free from defects in material and workmanship for a warranty period of one (1) year, starting on the date the vehicle is delivered to original purchaser.

Under this warranty Rosenbauer Motors, LLC agrees to furnish any item or items to replace those that have been found to be defective in material or workmanship where there is no indication of abuse neglect, unusual or other than normal service providing that such item or items are, at the option of Rosenbauer Motors, LLC made available for our inspection at our request, returned to our factory or other location designated by us with transportation prepaid within thirty days after the date of failure or within one year from the date of delivery of the apparatus to the original purchaser, whichever occurs first and inspection indicates the failure was attributed to defective material or workmanship. Written authorization for repair or item replacement must be sought from Rosenbauer Motors, LLC customer service prior to the repair or item replacement occurring.

#### **This warranty shall not apply to or cover:**

- Normal maintenance services or adjustments, including but not limited to: filters, screens, lubricants, light bulbs, belts, hoses, wiper blades and other incidentals.
- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer Motors, LLC or in a manner which, at Rosenbauer Motors, LLC discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments exposure to corrosive agents, fire, severe environmental conditions or acts of God.
- Items which are manufactured by a party other than Rosenbauer Motors, LLC and which are separately warranted by that party, including but not limited to engine, transmission, driveline axles and water pumps.

This warranty is in lieu of all other warranties, expressed or implied and all obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer Motors, LLC, 590 260th Street, Wyoming, MN 55092.



# Ten (10) Year Rosenbauer Cab Structural Warranty

## **TERMS AND CONDITIONS**

Rosenbauer hereby warrants the Rosenbauer cab of each new fire & rescue vehicle to be free from defects in material or workmanship for a warranty period of ten (10) years or 100,000 miles (160,000 kilometers) starting on the date the vehicle is delivered to original purchaser. Under this warranty, Rosenbauer agrees to furnish any item or items to replace those that have been found to be defective in material or workmanship where there is no indication of abuse, neglect or other than normal service. Such an item or items, at the option of Rosenbauer, must be made available for our inspection at our request and returned to our factory or another location designated by Rosenbauer. Transportation of such an item or items will be arranged and covered by buyer within thirty (30) days after the date of failure and within ten (10) years from the date of delivery of the apparatus to the original purchaser. The inspection must indicate that the failure was attributed to defective material or workmanship. Authorization for repair or item replacement must be sought from Rosenbauer customer service department prior to repair or item replacement occurring.

## **THIS WARRANTY SHALL NOT APPLY TO OR COVER THE FOLLOWING:**

- Normal maintenance services or adjustments.
- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer or in a manner which, at Rosenbauer's discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, exposure to corrosive agents, fire, severe environmental conditions or acts of God.
- Items which are manufactured by a party other than Rosenbauer and which are separately warranted by that party.

## **EXCLUSIONS OF DAMAGES BOTH INCIDENTAL AND CONSEQUENTIAL.**

At no time shall Rosenbauer be held liable for any incidental, consequential, indirect, special and/or punitive damages whatsoever, whether coming from breach of contract, warranty, tort or equity. Such items shall include the chassis or other items sold by Rosenbauer, or their operation or their failure to operate, or defects herein, or any undertakings, acts or omissions related to, regardless whether Rosenbauer's knowledge of the possibility of any such damage.

Without limitation of the generality of the preceding statements, Rosenbauer categorically disclaims any and all liability for property and personal injury, damages, penalties for lost revenue and/or profit, loss of chassis or products and associated pieces of equipment, the expense of substituting chassis and/or products, or the out of service expenses, resulting from damages and/or delays, that creates down time expenses and/or create economic losses, or any third party claims for damages.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer.

**NOTE:** Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.





# Lifetime Rosenbauer Frame Rail Warranty

## **TERMS AND CONDITIONS**

Rosenbauer hereby warrants to the original purchaser of a Rosenbauer chassis that the frame and cross members be free of defects in material and workmanship for the lifetime of the frontline service of the chassis. Under this warranty, Rosenbauer agrees to furnish any item or items to replace those that have been found to be defective in material or workmanship where there is no indication of abuse, neglect or other than normal service. Such an item or items, at the option of Rosenbauer, must be made available for our inspection at our request and returned to our factory or another location designated by Rosenbauer. Transportation of such an item or items will be arranged and covered by buyer within thirty (30) days after the date of failure. The inspection must indicate that the failure was attributed to defective material or workmanship. Authorization for repair or item replacement must be sought from Rosenbauer customer service department prior to repair or item replacement occurring.

## **THIS WARRANTY SHALL NOT APPLY TO OR COVER THE FOLLOWING:**

- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer, or in a manner which, at Rosenbauer's discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, exposure to corrosive agents, fire, severe environmental conditions or acts of God.
- Damage caused by corrosion including surface rust that may appear.
- Any cutting, welding, splicing, drilling or other alteration of frame rails or flanges without express written permission from Rosenbauer.

## **EXCLUSIONS OF DAMAGES BOTH INCIDENTAL AND CONSEQUENTIAL.**

At no time shall Rosenbauer be held liable for any incidental, consequential, indirect, special and/or punitive damages whatsoever, whether coming from breach of contract, warranty, tort or equity. Such items shall include the chassis or other items sold by Rosenbauer, or their operation or their failure to operate, or defects herein, or any undertakings, acts or omissions related to, regardless whether Rosenbauer's knowledge of the possibility of any such damage.

Without limitation of the generality of the preceding statements, Rosenbauer categorically disclaims any and all liability for property and personal injury, damages, penalties for lost revenue and/or profit, loss of chassis or products and associated pieces of equipment, the expense of substituting chassis and/or products, or the out of service expenses, resulting from damages and/or delays, that creates down time expenses and/or create economic losses, or any third party claims for damages.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer.

**NOTE:** Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.



## Rosenbauer Motors, LLC

### Limited PPG Paint Warranty

Rosenbauer Motors, LLC hereby warrants the paint on the cab and body of each new fire & rescue vehicle to be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection for a warranty period of 5 years starting on the date the vehicle is delivered to original purchaser.

Under this warranty Rosenbauer Motors, LLC agrees to repair or refinish any painted surface that has been found to have an adhesion defect caused by defective manufacturing methods or paint material selection where there is no indication of abuse, neglect, unusual or other than normal service providing that such item or items are, at the option of Rosenbauer Motors, LLC, made available for our inspection at our request, returned to our factory or other location designated by us with transportation prepaid within thirty days after the date of failure or within five years from the date of delivery of the apparatus to the original purchaser, whichever occurs first, and inspection indicates the failure was attributed to an adhesion defect caused by defective manufacturing methods or paint material selection. Written authorization for repair or item replacement must be sought from Rosenbauer Motors, LLC customer service prior to the repair or item replacement occurring.

#### **This warranty shall not apply to or cover:**

- Normal maintenance services or adjustments, including but not limited to; filters, screens, lubricants, light bulbs, belts, hoses, wiper blades and other incidentals.
- Any item that has been repaired, replaced or altered by a facility not approved in advance by Rosenbauer Motors, LLC, or in a manner which, at Rosenbauer Motors, LLC discretion, may adversely affect the safe operation or durability of the vehicle or item.
- Special, incidental or consequential damages including, but not limited to, loss of time, inconvenience, loss of use, lost profits or transportation fees or charges to or from any facility.
- Any malfunction resulting from misuse, negligence, alteration, accident or lack of operational knowledge, lack of normal or required maintenance or adjustments, exposure to chemicals, UV fade, fire, severe environmental conditions or acts of God.
- Painted Items which are manufactured by a party other than Rosenbauer Motors, LLC and which are separately warranted by that party, including but not limited to engine, transmission, driveline, axles and water pumps, etc.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability or make any alteration to this warranty in connection with the sale of our apparatus unless expressly given in writing by Rosenbauer Motors, LLC, 5190 260<sup>th</sup> St. Wyoming, MN 55092.

**NOTE:** Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.



## NEW PRODUCT WARRANTY



PARTICIPATING OEM SALES  
DISTRIBUTOR SALES

**LIMITED WARRANTY ON NEW ALLISON AUTOMATIC TRANSMISSIONS  
USED IN EMERGENCY VEHICLE APPLICATIONS**

Allison Transmission will provide for repairs or replacement, at its option, during the warranty period of each new Allison transmission listed below that is installed in an Emergency Vehicle in accordance with the following terms, conditions, and limitations.

**WHAT IS COVERED**

- **WARRANTY APPLIES** — This warranty is for new Allison transmission models listed below installed in an Emergency Vehicle and is provided to the original and any subsequent owner(s) of the vehicle during the warranty period.
- **REPAIRS COVERED** — The warranty covers repairs or replacement, at Allison Transmission's option, to correct any transmission malfunction resulting from defects in material or workmanship occurring during the warranty period. Needed repairs or replacements will be performed using the method Allison Transmission determines most appropriate under the circumstances.
- **TOWING** — Towing is covered to the nearest Allison Transmission Distributor or authorized Dealer only when necessary to prevent further damage to your transmission.
- **PAYMENT TERMS** — Warranty repairs, including parts and labor, will be covered per the schedule shown in the chart contained in section "APPLICABLE MODELS, WARRANTY LIMITATIONS, AND ADJUSTMENT SCHEDULE."
- **OBTAINING REPAIRS** — To obtain warranty repairs, take the vehicle to any Allison Transmission Distributor or authorized Dealer within a reasonable amount of time and request the needed repairs. A reasonable amount of time must be allowed for the Distributor or Dealer to perform necessary repairs.
- **TRANSMISSION REMOVAL AND REINSTALLATION** — Labor costs for the removal and re-installation of the transmission, when necessary to make a warranty repair, are covered by this warranty.
- **WARRANTY PERIOD** — The warranty period for all coverages shall begin on the date the transmission is delivered to the first retail purchaser, with the following exception:

**Demonstration Service** - A transmission in a new truck or bus may be demonstrated to a total of 5000 miles (8000 kilometers). If the vehicle is within this limit when sold to a retail purchaser, the warranty start date is the date of purchase. Normal warranty services are applicable to the demonstrating Dealer. Should the truck or bus be sold to a retail purchaser after these limits are reached, the warranty period will begin on the date the vehicle was first placed in demonstration service and the purchaser will be entitled to the remaining warranty.

**APPLICABLE MODELS, WARRANTY LIMITATIONS, AND ADJUSTMENT SCHEDULE**

APPLICABLE MODELS	WARRANTY LIMITATIONS (Whichever occurs first)		ADJUSTMENT CHARGE TO BE PAID BY THE CUSTOMER	
	Months	Transmission Miles Or Kilometers	Parts	Labor
MT, MD 3000, 3200, 3500, 3700	0-24	No Limit	No Charge	No Charge
HT with Hydraulic Controls	0-24	No Limit	No Charge	No Charge
AT, 1000 Series™, 2000 Series™, 2400 Series™	0-36	No Limit	No Charge	No Charge
HT with Electronic Controls	0-60	No Limit	No Charge	No Charge
HD 1000 EVS, 2100 EVS, 2200 EVS 2350 EVS, 2500 EVS, 2550 EVS, 3000 EVS, 3500 EVS, 4000, 4000 EVS, 4500, 4500 EVS, 4700, 4700 EVS, 4800, 4800 EVS	0-60	No Limit	No Charge	No Charge

## WHAT IS NOT COVERED

- **DAMAGE DUE TO ACCIDENT, MISUSE, or ALTERATION** — Defects and damage caused as the result of any of the following are not covered:
  - Flood, collision, fire, theft, freezing, vandalism, riot, explosion, or objects striking the vehicle;
  - Misuse of the vehicle;
  - Installation into unapproved applications and installations;
  - Alterations or modification of the transmission or the vehicle, and
  - Damage resulting from improper storage (refer to long-term storage procedure outlined in the applicable Allison Service Manual)
  - Anything other than defects in Allison Transmission material or workmanship

**NOTE:** This warranty is void on transmissions used in vehicles currently or previously titled as salvaged, scrapped, junked, or totaled.

- **CHASSIS, BODY, and COMPONENTS** — The chassis and body company (assemblers) and other component and equipment manufacturers are solely responsible for warranties on the chassis, body, component(s), and equipment they provide. Any transmission repair caused by an alteration(s) made to the Allison transmission or the vehicle which allows the transmission to be installed or operated outside of the limits defined in the appropriate Allison Installation Guideline is solely the responsibility of the entity making the alteration(s).
- **DAMAGE CAUSED by LACK of MAINTENANCE or by the USE of TRANSMISSION FLUIDS NOT RECOMMENDED in the OPERATOR'S MANUAL** — Defects and damage caused by any of the following are not covered:
  - Failure to follow the recommendations of the maintenance schedule intervals applicable to the transmission;
  - Failure to use transmission fluids or maintain transmission fluid levels recommended in the Operator's Manual.
- **MAINTENANCE** — Normal maintenance (such as replacement of filters, screens, and transmission fluid) is not covered and is the owner's responsibility.
- **REPAIRS by UNAUTHORIZED DEALERS** — Defects and damage caused by a service outlet that is not an authorized Allison Transmission Distributor or Dealer are not covered.
- **USE of OTHER THAN GENUINE ALLISON TRANSMISSION PARTS** — Defects and damage caused by the use of parts that are not genuine Allison Transmission parts are not covered.
- **EXTRA EXPENSES** — Economic loss and extra expenses are not covered. Examples include but are not limited to: loss of vehicle use; inconvenience; storage; payment for loss of time or pay; vehicle rental expense; lodging; meals; or other travel costs.
- **"DENIED PARTY" OWNERSHIP** — Warranty repair parts and labor costs are not reimbursed to any participating or non-participating OEMs, dealers or distributors who perform warranty work for, or on behalf of, end users identified by the United States as being a "denied party" or who are citizens of sanctioned or embargoed countries as defined by the U.S. Department of Treasury Office of Foreign Assets Control. Furthermore, warranty reimbursements are not guaranteed if the reimbursement would be contrary to any United States export control laws or regulations as defined by the U.S. Department of Commerce, the U.S. Department of State, or the U.S. Department of Treasury.

## OTHER TERMS APPLICABLE TO CONSUMERS AS DEFINED by the MAGNUSON-MOSS WARRANTY ACT

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Allison Transmission does not authorize any person to create for it any other obligation or liability in connection with these transmissions. **ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO THESE TRANSMISSIONS IS LIMITED IN DURATION TO THE DURATION OF THIS WRITTEN WARRANTY. PERFORMANCE OF REPAIRS AND NEEDED ADJUSTMENTS IS THE EXCLUSIVE REMEDY UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (SUCH AS, BUT NOT LIMITED TO, LOST WAGES OR VEHICLE RENTAL EXPENSES) RESULTING FROM BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY.\*\***

\*\* Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

## OTHER TERMS APPLICABLE TO OTHER END-USERS

**THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THE ALLISON TRANSMISSION MODELS LISTED ABOVE AND IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALLISON TRANSMISSION DOES NOT AUTHORIZE ANY PERSON TO CREATE FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SUCH TRANSMISSIONS. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF THIS WARRANTY OR ANY IMPLIED WARRANTY.**

## QUESTIONS

If you have any questions regarding this warranty or the performance of warranty obligations, you may contact any Allison Transmission Distributor or Dealer or write to:

Allison Transmission, Inc.  
P.O. Box 894  
Indianapolis, IN 46206-0894  
Attention: Warranty Administration PF-9

# Cummins Warranty

Worldwide

Fire Apparatus/Crash Trucks





## Coverage

### Products Warranted

This Warranty applies to new diesel Engines sold by Cummins and delivered to the first user on or after April 1, 2007, that are used in fire apparatus truck and crash truck\* applications Worldwide.

### Base Engine Warranty

The Base Engine Warranty covers any failures of the Engine which result, under normal use and service, from a defect in material or factory workmanship (Warrantable Failure). This Coverage begins with the sale of the Engine by Cummins and ends five years or 100,000 miles (160,935 kilometers), whichever occurs first, after the date of delivery of the Engine to the first user.

Engine aftertreatment components included in the Cummins Critical Parts List (CPL) and marked with a Cummins part number are covered under Base Engine Warranty.

Additional Coverage is outlined in the Emission Warranty section.

**These Warranties are made to all Owners in the chain of distribution and Coverage continues to all subsequent Owners until the end of the periods of Coverage.**

### Cummins Responsibilities

Cummins will pay for all parts and labor needed to repair the damage to the Engine resulting from a Warrantable Failure.

Cummins will pay for the lubricating oil, antifreeze, filter elements, belts, hoses and other maintenance items that are not reusable due to the Warrantable Failure.

Cummins will pay for reasonable labor costs for Engine removal and reinstallation when necessary to repair a Warrantable Failure.

Cummins will pay reasonable costs for towing a vehicle disabled by a Warrantable Failure to the nearest authorized repair location. In lieu of the towing expense, Cummins will pay reasonable costs for mechanics to travel to and from the location of the vehicle, including meals, mileage and lodging, when the repair is performed at the site of the failure.

### Owner Responsibilities

Owner is responsible for the operation and maintenance of the Engine as specified in Cummins Operation and Maintenance Manuals. Owner is also responsible for providing proof that all recommended maintenance has been performed.

Before the expiration of the applicable Warranty, Owner must notify a Cummins distributor, authorized dealer or other repair location approved by Cummins of any Warrantable Failure and make the Engine available for repair by such facility. Except for Engines disabled by a

Warrantable Failure, Owner must also deliver the Engine to the repair facility.

Service locations are listed on the Cummins Worldwide Service Locator at [cummins.com](http://cummins.com).

Owner is responsible for the cost of lubricating oil, antifreeze, filter elements and other maintenance items provided during Warranty repairs unless such items are not reusable due to the Warrantable Failure.

Owner is responsible for communication expenses, meals, lodging and similar costs incurred as a result of a Warrantable Failure.

Owner is responsible for non-Engine repairs and for "downtime" expenses, cargo damage, fines, all applicable taxes, all business costs and other losses resulting from a Warrantable Failure.

Owner is responsible for a \$100 (U.S. Dollars) deductible per each service visit under this plan in the 3rd, 4th and 5th years of Base Engine Warranty. The deductible will not be charged during the first 2 years of the Base Engine Warranty.

### Limitations

Engines with an emissions certification listed below must be operated using only diesel fuel having no more than the corresponding maximum sulfur content. Failure to use the specified fuel (see also Cummins Fuel Bulletin #3379001) can damage the Engine and aftertreatment system within a short period of time. This damage could cause the Engine to become inoperable and failures attributable to the use of incorrect fuels will be denied Warranty Coverage.

#### Maximum sulfur levels by emissions certification level as listed on the Engine's dataplate are:

EPA 2007/2010/2013	max. 15 parts per million
EPA Tier 4 Interim / Final	max. 15 parts per million
EU Stage IIIB 2011	max. 15 parts per million
Euro 4/5	max. 50 parts per million
Euro 6	max. 10 parts per million

Cummins is not responsible for failures or damage resulting from what Cummins determines to be abuse or neglect, including, but not limited to: operation without adequate coolants or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or intake systems; improper storage, starting, warm-up, run-in or shutdown practices; unauthorized modifications of the Engine.

Any unauthorized modifications to the aftertreatment system could negatively effect emissions certification and void the Warranty.

Cummins is also not responsible for failures caused by incorrect oil, fuel or diesel exhaust fluid or by water, dirt or other contaminants in the fuel, oil or diesel exhaust fluid.

This Warranty does not apply to accessories supplied by Cummins which bear the name of another company.



Such non-warranted accessories include, but are not limited to: alternators, starters, fans, air conditioning compressors, clutches, filters, transmissions, torque converters, vacuum pumps, power steering pumps, fan drives and air compressors. Cummins branded alternators and starters are covered for the first two years from the date of delivery of the Engine to the first user, or the expiration of the Base Engine Warranty, whichever occurs first.

Failures resulting in excessive oil consumption are not covered beyond the duration of the Coverage or 100,000 miles (160,935 kilometers) or 7,000 hours from the date of delivery of the Engine to the first user, whichever of the three occurs first. Before a claim for excessive oil consumption will be considered, Owner must submit adequate documentation to show that consumption exceeds Cummins published standards.

Failures of belts and hoses supplied by Cummins are not covered beyond the first year from the date of delivery of the Engine to the first user or the duration of the Warranty, whichever occurs first.

Parts used to repair a Warrantable Failure may be new Cummins parts, Cummins approved rebuilt parts or repaired parts. Cummins is not responsible for failures resulting from the use of parts not approved by Cummins.

A new Cummins or Cummins approved rebuilt part used to repair a Warrantable Failure assumes the identity of the part it replaced and is entitled to the remaining Coverage hereunder.

Cummins Inc. reserves the right to interrogate Electronic Control Module (ECM) data for purposes of failure analysis.

**CUMMINS DOES NOT COVER WEAR OR WEAROUT OF COVERED PARTS.**

**CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

**THIS WARRANTY AND THE EMISSION WARRANTY SET FORTH HEREINAFTER ARE THE SOLE WARRANTIES MADE BY CUMMINS IN REGARD TO THESE ENGINES. CUMMINS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

## Emission Warranty

### Products Warranted

This Emission Warranty applies to new Engines marketed by Cummins that are used in the United States\*\* or Canada in vehicles designed for transporting persons or property on a street or highway. This Warranty applies to engines delivered to the first user on or after September 1, 1992.

### Coverage

Cummins warrants to the first user and each subsequent purchaser that the Engine is designed, built and equipped so as to conform at the time of sale by Cummins with all U.S. federal emission regulations applicable at the time of manufacture and that it is free from defects in material or factory workmanship which would cause it not to meet these regulations within the longer of the following periods: (A) Five years or 100,000 miles (160,935 kilometers) of operation, whichever occurs first, as measured from the date of delivery of the Engine to the first user or (B) The Base Engine Warranty.

If the vehicle in which the Engine is installed is registered in the state of California, a separate California Emission Warranty also applies.

### Limitations

Engines with an emissions certification listed below must be operated using only diesel fuel having no more than the corresponding maximum sulfur content. Failure to use the specified fuel (see also Cummins Fuel Bulletin #3379001) can damage the Engine and aftertreatment system within a short period of time. This damage could cause the Engine to become inoperable and failures attributable to the use of incorrect fuels will be denied Warranty Coverage.

**Maximum sulfur levels by emissions certification level as listed on the Engine's dataplate are:**

EPA 2007/2010/2013	max. 15 parts per million
EPA Tier 4 Interim / Final	max. 15 parts per million
EU Stage IIIB 2011	max. 15 parts per million
Euro 4/5	max. 50 parts per million
Euro 6	max. 10 parts per million

Failures, other than those resulting from defects in material or factory workmanship, are not covered by this Warranty.

Cummins is not responsible for failures or damage resulting from what Cummins determines to be abuse or neglect, including, but not limited to: operation without adequate coolants or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or intake systems; improper storage, starting, warm-up, run-in or shutdown practices; unauthorized modifications of the Engine.

Any unauthorized modifications to the aftertreatment system could negatively effect emissions certification and void the Warranty.

Cummins is also not responsible for failures caused by incorrect oil, fuel or diesel exhaust fluid or by water, dirt or other contaminants in the fuel, oil or diesel exhaust fluid.

Cummins is not responsible for non-Engine repairs, "downtime" expenses, cargo damage, fines, all applicable taxes, all business costs or other losses resulting from a Warrantable Failure.

**CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL  
OR CONSEQUENTIAL DAMAGES.**

\* Airport operated crash trucks and fire department operated trucks employed to respond to fires, hazardous material releases, rescue and other emergency-type situations.

\*\* United States includes American Samoa, the Commonwealth of Northern Mariana Islands, Guam, Puerto Rico and the U.S. Virgin Islands.



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**HENDRICKSON TRUCK COMMERCIAL VEHICLE SYSTEMS  
STEERTEK NXT WITH INTEGRATED SUSPENSION  
LIMITED WARRANTY STATEMENT FOR ROSENBAUER MINNESOTA, LLC**

This Hendrickson Truck Commercial Vehicle Systems (“Hendrickson”) warranty to Rosenbauer Minnesota, LLC (“Rosenbauer”) covers (1) STEERTEK NXT axles and (2) applicable integrated suspension components equipped on approved Rosenbauer vehicles built after June 1, 2017, when (i) properly installed and assembled by Rosenbauer on new production vehicles, (ii) properly maintained in compliance with all applicable Hendrickson and Rosenbauer publications and instructions, and (iii) used in recommended or approved applications in the United States and/or Canada and within the rated capacities as described in all applicable Hendrickson and Rosenbauer publications and instructions.

**STEERTEK NXT Axles Warranty**

Further details regarding the warranty for the above-referenced STEERTEK NXT axles are set forth in Hendrickson’s STEERTEK NXT / STEERTEK Axle Limited Warranty Statement, Lit No. 45745-271, Revision F (as attached in **Appendix A**).

**Integrated Suspension Components Warranty**

Further details regarding the warranty to Rosenbauer for the above-referenced integrated suspension components are set forth below.

The Hendrickson Warranty Period for the applicable integrated suspension components begins when the vehicle is put into service and ends in two (2) years or two hundred fifty thousand (250,000) miles thereafter, whichever occurs first.

Hendrickson warrants to Rosenbauer that the applicable integrated suspension components shall be free from defects in material and workmanship during the Hendrickson Warranty Period for such components.

This warranty to Rosenbauer covers 100% of the cost of applicable repair/replacement parts and labor allowances as may be authorized by Hendrickson, and is subject to the conditions, exclusions and limitations herein.

The **integrated suspension components covered** under this warranty to Rosenbauer are strictly limited to:

- Front Frame Hanger Assemblies
- Rear Shackle Assemblies
- Jounce Stop Assemblies
- Clamp Group Assemblies
- Rear Frame Hanger Assemblies
- Shock Absorber Brackets
- Leaf Spring Assemblies



This warranty to Rosenbauer **excludes coverage** on all other integrated suspension components and adjacent parts, including but not limited to the following:

- Components not supplied by Hendrickson

In addition, Hendrickson warrants to Rosenbauer that any brake and wheel end components installed by Hendrickson on the above-referenced STEERTEK NXT axles shall be free from defects in installation, subject to the conditions, exclusions and limitations listed below and elsewhere in this document. However, any and all other defects (including, but not limited to, those regarding material and workmanship) associated with such brake and wheel end components are the sole responsibility of the respective manufacturers of such components.

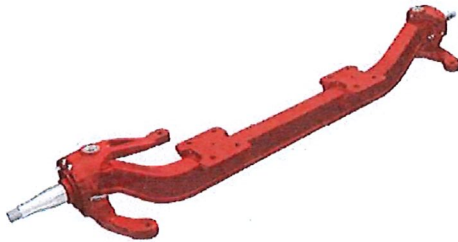
All non-recommended integrated suspension applications must receive written approval from Hendrickson in order to be covered under this warranty to Rosenbauer.

NOTE: The terms and coverages in this warranty document to Rosenbauer **APPLY ONLY** to applicable integrated suspension components operated within the United States and/or Canada.

This warranty to Rosenbauer is also subject to the conditions, exclusions and limitations listed below and elsewhere in this document.

The following sections of STEERTEK NXT / STEERTEK Axle Limited Warranty Statement, Lit No. 45745-271, Revision F (as attached in **Appendix A**) shall also apply to the warranty to Rosenbauer for the applicable integrated suspension components:

- OTHER WARRANTY EXCLUSIONS
- WARRANTY CLAIM PROCESS
- FILING WARRANTY CLAIMS
- WARRANTY DISCLAIMER
- LIMITATION OF WARRANTY



## **WARRANTY**

### **STEERTEK NXT / STEERTEK Axle Limited Warranty Statement**

LIT NO: 45745-271

DATE: February 2017 REVISION: F

#### **STEERTEK NXT / STEERTEK AXLE LIMITED WARRANTY**

This Hendrickson Truck Commercial Vehicle Systems ("Hendrickson") warranty covers 1) STEERTEK NXT / STEERTEK axles (with rated capacity of up to 14,600 pounds) equipped on approved vehicles built after January 1, 2010; and 2) STEERTEK NXT axles (with rated capacity of 16,000 pounds or more) equipped on approved vehicles built after February 1, 2017, when (i) properly installed and assembled by the subject vehicle original equipment manufacturer ("OEM") on new production vehicles, (ii) properly maintained in compliance with all applicable Hendrickson and vehicle OEM publications and instructions, and (iii) used in recommended or approved applications in the United States and/or Canada and within the rated capacities as described in all applicable Hendrickson and vehicle OEM publications and instructions.

The Hendrickson Warranty Period for the respective groups of axles is as follows:

- **STEERTEK NXT and STEERTEK axles (with rated capacity of up to 14,600 pounds)** — The Hendrickson warranty coverage begins when the vehicle is put into service and ends in ten (10) years or one million (1,000,000) miles thereafter, whichever occurs first.
- **STEERTEK NXT axles (with rated capacity of 16,000 pounds or more)** — The Hendrickson warranty coverage begins when the vehicle is put into service and ends in five (5) years or five hundred thousand (500,000) miles thereafter, whichever occurs first.

Hendrickson warrants that STEERTEK NXT and STEERTEK (collectively 'STEERTEK NXT / STEERTEK') axles will be free from defects in material and workmanship during the Hendrickson Warranty Period. This Hendrickson warranty coverage is transferable.

This warranty covers 100% of the cost of applicable repair/replacement parts and labor allowances as may be authorized by Hendrickson, and is subject to the conditions, exclusions and limitations herein.

The STEERTEK NXT / STEERTEK components covered under this warranty are strictly limited to:

- Axle and kingpin assembly
- Steering arm assembly
- Upper and lower steering knuckle assembly

This warranty **excludes** coverage on all other STEERTEK NXT / STEERTEK components and adjacent parts, including but not limited to the following:

- |                    |  |
|--------------------|--|
| ■ Kingpin bushings | ■ Tie rod and tie rod ends                 |
| ■ Kingpin wear     | ■ The wheel ends and suspension components |
| ■ Thrust bearings  |  |

All non-recommended STEERTEK NXT / STEERTEK applications must receive written approval from Hendrickson in order to be covered under this warranty.

#### **NOTE**

The terms and coverages in this warranty document **APPLY ONLY** to applicable STEERTEK NXT / STEERTEK axles operated within the United States and/or Canada.

This warranty is also subject to the conditions, exclusions and limitations listed below and elsewhere in this document.

 **HENDRICKSON**  
*The World Rides On Us®*





## STEERTEK NXT / STEERTEK AXLE – Limited Warranty Statement



### OTHER WARRANTY EXCLUSIONS

This warranty does not cover normal wear and deterioration or extend to any STEERTEK NXT / STEERTEK axles or Hendrickson-authorized repair or replacement components that have been:

- Used in any application not intended by or contrary to written recommendations or specifications from Hendrickson and the vehicle OEM
- Improperly installed, serviced, maintained or repaired
- Modified without written authorization from Hendrickson
- Involved in an accident, fire or other casualty
- Misused, abused or neglected
- Operated beyond the rated load capacity or capability of the STEERTEK NXT / STEERTEK axle or the respective suspension system or vehicle
- Operated with component parts, (repair, replacement or otherwise) that are not manufactured, distributed, or authorized by Hendrickson
- Subjected to abnormal operating conditions
- Subjected to any damage or failure caused by or otherwise attributed to any vehicle components, systems or equipment that are not manufactured or distributed by Hendrickson

Hendrickson shall not be responsible for:

- Any repairs performed by any unauthorized parties
- Any costs associated with towing, downtime, or miscellaneous shop charges
- Other applicable damages, losses or costs as listed in LIMITATION OF WARRANTY or elsewhere in this document

### WARRANTY CLAIM PROCESS

Warranty claims regarding STEERTEK NXT / STEERTEK component alleged problems occurring within the time and mileage limits of the vehicle OEM's published components warranty shall be directed to the vehicle OEM by the OEM dealer. Warranty claims regarding STEERTEK NXT / STEERTEK component alleged problems occurring beyond the OEM's warranty period, but within the above-referenced Hendrickson Warranty Period, shall be directed to Hendrickson. The Hendrickson warranty department must authorize all repairs and services associated with any potential warranty claims before such repairs and services are performed. Failure to obtain such prior authorization may result in partial or complete rejection of the warranty claim. For a warranty repair/service authorization number, please contact:



Toll-free U.S. and Canada  
1.866.755.5968

Outside U.S. and Canada  
1.630.910.2800



1.630.910.2847



[www.hendrickson-intl.com](http://www.hendrickson-intl.com)



[truckwarranty@hendrickson-intl.com](mailto:truckwarranty@hendrickson-intl.com)



Hendrickson Truck Commercial Vehicle Systems  
ATTN: Warranty  
800 South Frontage Road,  
Woodridge, Illinois 60517-4904

- **Warranty claims must include all required information**, such as customer name, in-service date, date of alleged problem, mileage and vehicle identification number. Failure to supply this information may result in partial or complete rejection of the warranty claim, (see FILING WARRANTY CLAIMS for complete procedure).
- **The applicable OEM dealer or repair facility** shall be responsible for retaining all warranty claim-related parts and material until each warranty claim is settled. Failure to retain all warranty parts and material or return the parts and material to Hendrickson upon request may result in partial or complete rejection of the warranty claim.



## STEERTEK NXT / STEERTEK AXLE – Limited Warranty Statement

- **When authorizing repairs or services**, the Hendrickson warranty administrator will determine the costs and procedures. For those warranty claims it authorizes, Hendrickson will pay a specified labor allowance, determined by the Hendrickson warranty department, for the associated repair or replacement of a defective Hendrickson component. Hendrickson shall not be responsible for any additional costs that may be incurred when replacement parts or materials are not acquired through Hendrickson.
- **Hendrickson has the sole discretion** and authority to approve or disapprove a warranty claim, and authorize the repair or replacement of defective or non-functioning parts.
- **Parts to be returned under a warranty claim**
  - Must be accompanied by an RGA (returned goods authorization) or the warranty claim number issued by the Hendrickson warranty department.
  - Must be sent prepaid. Hendrickson will reimburse the customer for the freight charges if the returned parts are confirmed by Hendrickson to be defective or non-functioning.
  - **DO NOT** destroy the parts being considered for warranty without Hendrickson's authorization. All parts in question are subject to return to Hendrickson for evaluation. Failure to return such parts may result in partial or complete rejection of the warranty claim.
- **Only genuine Hendrickson parts**, or parts sold through Hendrickson, may be used to repair Hendrickson suspension systems. This warranty also applies to genuine Hendrickson parts installed under a warranty claim authorized by Hendrickson. All such genuine Hendrickson parts shall be covered under the remaining, unexpired portion of the original Hendrickson Warranty Period for the particular STEERTEK NXT / STEERTEK axle.
- **System problems or parts failures** that result from improper installation are the responsibility of the installer of the suspension. These are not warranted by Hendrickson.
- **"Shop supply" reimbursement maximum**. The maximum amount to be considered for miscellaneous supply, shop supply, or job supply reimbursement is four percent (4%) of invoiced labor charges, up to a maximum of twenty dollars (\$20).

### FILING WARRANTY CLAIMS

1. Review the applicable Hendrickson warranty coverage for the component(s). If the component falls within the stated Hendrickson Warranty Period, continue with **Step Two**.
2. Locate and record the following information:
  - Hendrickson equipment serial number
  - Type of vehicle, name of vehicle manufacturer and VIN (vehicle identification number)
  - Approximate number of vehicle miles
  - Vehicle's in-service date
  - Description of the system problem and the part number(s) of the subject part(s)
  - Special application approval documentation (if applicable)
3. Contact the appropriate party, depending upon whether you are an end user (owner), OEM dealer, or repair facility:
  - **END USERS (OWNERS)**: Report the warranty claim and associated problem to the OEM dealer. If the problem is not related to installation, the OEM dealer will determine whether to contact Hendrickson regarding the warranty claim.
  - **REPAIR FACILITY**: Report the warranty claim and associated problem to the Hendrickson Truck Commercial Vehicle Systems warranty department Toll-free at 1.866.755.5968 (U.S. and Canada), or e-mail truckwarranty@hendrickson-intl.com and provide the information recorded in **Step 2**. The warranty department will determine whether to issue a returned goods authorization (RGA) and/or warranty claim number for each submitted warranty claim. All parts to be returned to Hendrickson or its vendors must be labeled with the applicable RGA and/or warranty claim number and shipped **within 60 days** for timely processing of the warranty claim.





## STEERTEK NXT / STEERTEK AXLE - Limited Warranty Statement



4. Submit a work order job description with your RGA and/or warranty claim number describing what is to be repaired or replaced. This work order job description should be as itemized and detailed as possible for prompt processing and maximum consideration.

### WARRANTY DISCLAIMER

THIS WARRANTY IS EXPRESSLY IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OR CONDITIONS, EXPRESSED, IMPLIED OR STATUTORY, WHETHER WRITTEN OR ORAL, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

### LIMITATION OF WARRANTY

THE LIABILITY OF HENDRICKSON UNDER THIS WARRANTY SHALL BE LIMITED SOLELY TO THE ABOVE-REFERENCED COSTS ASSOCIATED WITH THE REPAIR OR REPLACEMENT, BY AN AUTHORIZED PARTY, OF APPLICABLE HENDRICKSON PARTS THAT ARE DETERMINED BY HENDRICKSON TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP. HENDRICKSON SHALL NOT BE LIABLE FOR (a) ANY REPAIRS PERFORMED BY ANY UNAUTHORIZED PARTIES, OR (b) ANY INCIDENTAL, SPECIAL, PUNITIVE, INDIRECT, CONSEQUENTIAL OR OTHER DAMAGES, INCLUDING, BUT NOT LIMITED TO, TOWING EXPENSES, DOWNTIME EXPENSES, LOST PRODUCTIVITY, ECONOMIC LOSS, LOST REVENUE, LOST PROFITS, CARGO DAMAGE, LOSS OF USE OR DAMAGE TO OTHER PROPERTY, OR ANY OTHER LOSSES OR COSTS RESULTING FROM A HENDRICKSON DEFECTIVE PART COVERED UNDER THIS WARRANTY.

[www.hendrickson-intl.com](http://www.hendrickson-intl.com)



Truck Commercial Vehicle Systems  
800 South Frontage Road  
Woodridge, IL 60517-4904 USA

1.866.755.5968 (Toll-free U.S. and Canada)  
630.910.2800 (Outside U.S. and Canada)  
Fax 630.910.2899



## QUOTATION

## Heiman Fire Equipment

Moberly Fire Department  
 Don Ryan  
 310 N. Clark Street  
 Moberly, Missouri 65270  
 660-269-8705  
 ryand@moberlyfd.com

*Apparatus*

Exp. Date: 10/22/2021  
 Quote No: 10631-0003  
 09/29/2021

Page 1

PART NO	S	DESCRIPTION	QTY	PG
00-00-0120		-- CONFIGURATION ID: 2021B-XXXXX	1	
00-00-1300	S	Fire Department Name	1	1
00-00-1500	S	MAXIMUM OVERALL HEIGHT NTE 12'	1	1
00-00-1510	S	MAXIMUM OVERALL LENGTH NTE 34'	1	1
00-00-1519		Overall Width Restriction, NONE	1	1
00-00-1529		Wheelbase Restriction, NONE	1	1
00-00-1539		Angle of Approach, NFPA Minimum, 8 Degrees	1	1
00-00-1549		Angle of Departure, NFPA Minimum, 8 Degrees	1	1
00-00-1610		NFPA Pumper Equipment Allowance 2500#	1	2
00-00-3220		Contract Change Notice	1	2
00-12-1100		Financial Stability Response	1	3
01-06-0500		Calculated Center of Gravity	1	4
01-07-0060		-- Technical Drawings, Representative Drawings (3-View) (Left/Right/Rear)	1	4
01-07-1100		Change Orders	1	5
02-13-5030		Delivery	1	5
02-13-7400		Toll Free Service Number	1	5
01-16-0150		-- Warranty, Apparatus, Body Warranty, 1 Year	1	6
01-19-0250		-- Warranty, Bdy, Alum, 5 Years	1	7
01-19-2800		-- Warranty, Subframe, Lifetime Galv	1	8
01-20-1005		-- Warranty, Paint, AkzoNobel, 5 Years	1	8
01-21-0150		-- Warranty, Lettering and Striping, 1 Year	1	9
01-17-0150		-- Pump Warranty, Darley, 6 Years	1	9
01-17-1050		-- Plmbg Warranty, Stnls Stl, 10 Years	1	9
01-18-0050		-- Warranty, Foam Tank, G3	1	10
01-18-0900		-- Warranty, Water Tank, G3	1	10
01-33-3100	S	-- S.O.R. / Mnls, Bdy Complete, 1 Set Printed	1	10
02-90-0500		Chassis, Commander Cstm	1	10
56-01-1600		-- Siren, Elect, Whelen 295SLSA1	1	11
56-02-1600		-- Spkr, F-S Dynamax, ES100C 100 Watt	1	11
56-02-1650		-- Spkr Grille, Stnls Stl, "R"	1	11
56-03-1800		-- Spkr Lctn, To Be Determined by Body Mfg	1	11
56-06-0300		-- Siren, F-S, Q2B, Mech, Pedestal Mnted Q2B-01PSD	1	11
56-07-1300		-- Siren Cntrl, F-S, Q2B, Driver's Side Foot Switch	1	11
56-07-1500		-- Siren Cntrl, F-S, Q2B, Dash Button, Officer's Side	1	11
56-07-1100		-- Siren Brake, F-S, Q2B, Driver's Side	1	12
57-02-1250		-- Lt Bar, Whelen, Ultra Freedom IV, #F4N7QLED, LED, 72"	1	12
57-10-0600		-- Lightbar Cntrl, with Master Warning Switch	1	12
58-71-1720		-- Wrn Lts, Whelen, Upper Rr (2) #900 S-LED	1	12
57-20-7010		-- Wrn Lt, Drvr, Whelen, 900 Red LED, Color Lens, Ea	1	12
57-20-7011		-- Wrn Lt, Offcr, Whelen, 900 Red LED, Color Lens, Ea	1	12
58-01-2280		-- Flange, Chrome, Wrn Lt, Whln, 900, Ea	2	12
58-61-1720		-- Wrn Lts, Whelen, Upper Side Rr (2) #900 S-LED	1	13
57-20-7010		-- Wrn Lt, Drvr, Whelen, 900 Red LED, Color Lens, Ea	1	13
57-20-7011		-- Wrn Lt, Offcr, Whelen, 900 Red LED, Color Lens, Ea	1	13

PART NO	S	DESCRIPTION	QTY	PG
58-01-2280		-- Flange, Chrome, Wrn Lt, Whln, 900, Ea	2	13
58-03-6400		-- Wrn Lts, Whelen, Upper Wing, (2) #600 LED	1	13
57-20-4010		-- Wrn Lt, Drvr, Whelen, 600 Red LED, Color Lens, Ea	1	13
57-20-4011		-- Wrn Lt, Offcr, Whelen, 600 Red LED, Color Lens, Ea	1	13
58-03-7310		-- Wrn Lts, Whelen, Inbrd Warn Lt, (2) #600 LED	1	13
57-20-4010		-- Wrn Lt, Drvr, Whelen, 600 Red LED, Color Lens, Ea	1	13
57-20-4011		-- Wrn Lt, Offcr, Whelen, 600 Red LED, Color Lens, Ea	1	14
58-09-1520		-- Wrn Lts, Whelen, Intrsct (2) #600 S-LED	1	14
57-20-4010		-- Wrn Lt, Drvr, Whelen, 600 Red LED, Color Lens, Ea	1	14
57-20-4011		-- Wrn Lt, Offcr, Whelen, 600 Red LED, Color Lens, Ea	1	14
58-01-2240		-- Flange, Chrome, Wrn Lt, Whln, 600, Ea	2	14
58-26-2400		-- Wrn Lts, Whelen, Low Mid Bdy (2) M2 LED, in Rub Rail	1	14
57-20-1000		-- Wrn Lt, Drvr, Whelen, M2, Red LED, Color Lens, Ea	1	14
57-20-1001		-- Wrn Lt, Offcr, Whelen, M2, Red LED, Color Lens, Ea	1	14
58-01-2100		-- Flange, Chrome, Wrn Lt, Whln, M2, Ea	2	14
58-36-2400		-- Wrn Lts, Whelen, Low Rr Side (2) M2 LED, in Rub Rail	1	14
57-20-1000		-- Wrn Lt, Drvr, Whelen, M2, Red LED, Color Lens, Ea	1	15
57-20-1001		-- Wrn Lt, Offcr, Whelen, M2, Red LED, Color Lens, Ea	1	15
58-01-2100		-- Flange, Chrome, Wrn Lt, Whln, M2, Ea	2	15
58-81-1520		-- Wrn Lts, Whelen, Low Rr (2) #600 S-LED	1	15
57-20-4010		-- Wrn Lt, Drvr, Whelen, 600 Red LED, Color Lens, Ea	1	15
57-20-4011		-- Wrn Lt, Offcr, Whelen, 600 Red LED, Color Lens, Ea	1	15
58-01-2240		-- Flange, Chrome, Wrn Lt, Whln, 600, Ea	2	15
50-03-1000		Elecal, Base, Standard, W/O Load Mgmt	1	15
50-05-1510		-- Electrical Jct Box, Weather Resistant	1	19
50-12-1090		Swth Panel, Dash, Chassis Supplied	1	19
50-15-5100		Battery Chrgr, Chs Supl'd	1	
50-41-3000		Air Horns, (2) Rcstd, One Ea Side Bumper, 24.5" Stuttertone, Chrome	1	19
50-43-2000		-- Air Horn Cntrl, Driver, Horn Ring, Air/Elec	1	19
50-43-2300		-- Air Horn Cntrl, Officer, Sgle Dash Swth	1	19
51-05-6400		Lt, Pump Cmpt, 12 Volt LED With Swth	1	20
51-05-9000		-- Switch on Light Head	1	20
51-16-5020		-- Fldlt, Fire Tech, FT-B-46-ML3-W, 18,000 Lmns, 46" Light Bar Mnt, White	1	20
51-20-3100		-- Fldlt, Mntg Lctn, Front Edge Of Cab Roof	1	20
54-15-6100		-- Scene Lt Swth , Cab Switch Panel	1	20
52-01-1100		Back Up Alarm, w/Chassis	1	
52-02-4250		Back Up Camera, FRC InView 360, SNB100-C00-MSO With Monitor	1	20
52-10-2724		Intercom System, David Clark, 6-Position, Wireless Driver & Officer	1	22
52-20-1100	S	S.O.R. / Refrigerator Only, 3.0 Cubic Ft., 12-24VDC/120VAC, Norcold DE-0788	1	22
53-01-1200		Marker Lts, LED, DOT Requirements	1	23
53-02-1200		License Plate Brkt, Stainless w/ LED Lt, Rr,	1	23
53-03-0060		Whelen Rr DOT LED Ltng Pkg (4x6) 600's	1	
53-03-2600		-- Tail/Brake Lts, Whelen, 600's 4"x6" (Pair)	1	23
53-04-2600		-- Turn Signals, Whelen, 600's LED w/ Arrow, 4"x6" (Pair)	1	23
53-06-3500		-- Backup Lts, Whelen, 600's LED, 4"x6" (Pair)	1	23
53-07-1400		-- Tail Lt Flanges, Individual, Chrome, Whln 4x6, (3) 600's	1	23
53-05-1802		Turn Signals, Mid Bdy, LED Marker Lt TechNiq S17-AA2G0-1 (Pair)	1	23
54-03-1280		-- Ground Lts, Pump Panel , LED, TecNiq Pair	1	23
54-03-1680		-- Ground Lts, Rear Step , LED, TecNiq Pair	1	24
54-04-1999		-- Lt Swth , Ground Lts w/ Park Brake	1	24
54-10-1450		Step Lt, Rr Tailboard, LED, Ea	2	24
54-11-2100		Lt Swth , Step/Wlkwy Lts Wired Park Brake Swth	1	24
54-12-1918		Deck Lts, Rr Of Hosebed	1	24
54-12-1320		-- Deck Lts, Code 3, LED, 1-Spot #CW2450 & 1-Flood #CW2451, Black	1	24
54-12-3010		-- Deck Lt Swth , Wired Park Brake Swth	1	24
54-15-1380		-- Scene Lt, Whelen, 900 S-LED	7	24
54-15-5100		-- Scene Lt Lctn, Left Side Of Cab	1	24
54-15-5200		-- Scene Lt Lctn, Right Side Of Cab	1	25
54-15-5500		-- Scene Lt Lctn, Left Side Of Bdy	2	25
54-15-5600		-- Scene Lt Lctn, Right Side Of Bdy	2	25

PART NO	S	DESCRIPTION	QTY	PG
54-15-5700		-- Scene Lt Lctn, Rr Of Bdy	1	25
54-15-6400		-- Scene Lt Swtch , Left Scene Lts, Cab Switch Panel	1	25
54-15-6500		-- Scene Lt Swtch , Right Scene Lts, Cab Switch Panel	1	25
54-15-6600		-- Scene Lt Swtch , Rr Scene Lts, Cab Switch Panel	1	25
54-15-6700		-- Scene Lt Swtch , Rr Scene Lts, Auto w/ Reverse	1	25
55-11-1100		Dr Open/Hazard Wrn Lt, w/Chassis	1	
58-91-1700		Traffic Arrow Lt, Whelen, 46.82" 500 Series 5MM LED, TAL85	1	26
58-95-1500		Traffic Arrow Lt Mtg, Surface Mt, w/ Alum Guard, Rr Bdy	1	26
10-02-1100		-- Label, Data, Fluid Levels	1	26
10-02-1200		-- Label, Data, Height x Length, Weight	1	26
10-02-1300		-- Label, Data, "No Ride" Rr Step	1	26
10-02-2100		-- Label, Indicating Number of Seats	1	27
10-02-2500		-- Label, "Caution: Do Not Wear Helmet While Seated"	1	27
10-03-6000		-- Tow Plates (2), Rr Frame Rail, Under Step	1	27
80-43-2400		-- Painting, Tow Plates, Blk	1	27
10-04-0430		-- Front Bumpers, 4000, Max Force 12"H, Max Force Wings	1	
10-05-4324		-- Frnt Bmpr, 4000, Max Force 12"H, T/P Apron, M/F Wings, 24" Extnsn	1	27
10-04-2720		-- Bumper Cmpt, Center, Hosewell Cmpt	1	27
10-04-3160		-- Bumper Cmpt Door, Alum T/P, Raised Style	1	28
10-04-3200		-- Bumper Cmpt Lt, Auto, w/Dr Opn Indctr, Ea	1	28
10-04-3460		-- Bumper Cmpt Door Gas Shock	1	28
10-04-3190	S	-- S.O.R. / Hosewell Cross Divider	1	28
10-05-9120		-- Tow Hooks Painted Below Forward Mount (pair)	1	28
10-06-1110		-- Whl Trim, S/S Hub/Lug Cvr, Front/Rr, Sngl Axle	1	28
10-06-1602		-- Tire Pressure Indicator, Sngl Axle, Commander RWTG1235, EXT	1	28
10-07-0100		-- Exhaust, Horizontal Supplied With Chassis	1	
10-07-1500		-- Exhaust Heat Shield, Under Bdy Compts	1	29
10-08-2100		-- Mud Flaps, Rr Whls, Blk, w/ Bdy	1	29
10-09-1100		-- Tire Chains, Supl'd w/ Chassis	1	
10-09-1930		-- Tire Chain Activation, Supl'd w/ Chassis	1	
10-19-3010		-- Air Auto-Eject, Inlet, Cab Exterior, Left Step #091-28	1	29
20-02-2200		-- Pump, Darley, PSM, 1 Stage, Midship	1	29
20-02-2130		-- Pump Flow Rtng, Darley, PSM, 1500 GPM	1	31
22-24-1600		-- Intk, Gtd, 6" NST, Mnl, Bttrfly, LH Side, Bhnd Pnl	1	31
21-01-2500		-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn	1	31
22-41-5700		-- Cap, 6", Chrome Long Hndl	1	31
22-24-3600		-- Intk, Gtd, 6" NST, Mnl, Bttrfly, RH Side, Bhnd Pnl	1	31
21-01-2500		-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn	1	32
22-41-5700		-- Cap, 6", Chrome Long Hndl	1	32
20-05-2400		-- Pump Seal, Mech, Darley PSM	1	32
20-05-3100		-- Pump Shift, Darley, Elec/Pneumatic, Midship	1	32
20-29-1200		-- Primer, Trident Air Primer, Automatic	1	33
20-29-1252		-- Primer Control - Main Pump Manual Push Button	1	33
27-10-3100		-- Pressure Gvrnr, FRC, Pump Boss 400 Series, w/Bdy	1	33
		<b>STAINLESS STEEL PUMP PLUMBING *</b>	1	
21-00-2000		-- Screens/Anodes, Pump	1	35
21-00-3300		-- Piping, Stnls Stl - 1250 GPM & Up	1	35
21-01-0200		-- Pump Drain, Master, Manifold, Push Pull Type	1	35
21-01-5500		-- Intk Manifold, Stnls Stl	1	35
21-01-6500		-- Dschg Manifold, Stnls Stl	1	36
21-01-7100		-- Painting, Pump & Piping, Silver	1	36
21-01-8100		-- Threads, National Hose (NST)	1	36
22-51-5210		-- Tank-To-Pump, Water Tank, 3" Vlv/4" Piping, Midship, Pmpr/Tnkr	1	36
22-50-0100		-- Single Tank to Pump Control - Pump Operator's Panel	1	36
24-62-1300		-- Vlv Mfgr, AKR, 8000, (3")	1	36
22-55-4012		-- Intk Vlv Cntrl, Pull Rod, 1/4 Turn, AKR - IC	1	37
23-02-1300		-- Tank Fill/Cooling Line, Water Tank, 2"	1	37
24-62-1200		-- Vlv Mfgr, AKR, 8000, (2")	1	37
22-55-4012		-- Intk Vlv Cntrl, Pull Rod, 1/4 Turn, AKR - IC	1	37
20-30-3100		-- Pump Instln, Midship Split-Shaft, By Bdy Bldr	1	37

PART NO	S	DESCRIPTION	QTY	PG
20-31-3600		Dump-Relief Vlv, Suction Side, TFT A18	1	37
20-31-4100		Pump Cooler, Bypass-To-Tank, 3/8"	1	37
20-31-5100		Heat Exchanger, Engine, Hook-Up Only	1	38
20-31-1000		-- Fire Pump Testing - Pumpers/Tankers	1	
20-31-1100		-- Pump Test, Pumper, UL	1	38
20-31-1500		-- Pump Test, Label	1	38
22-23-1200		-- Intk, Gtd, 6" NST, 5" Air Oprtd Vlv, 5" Pipe, Front RH Bmpr	1	38
21-01-2500		-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn	1	39
22-23-2600		-- Intk, Frnt, RH Vert, Abv Bumper, Stl Pipe (Cstm)	1	39
22-40-1400		-- Elbow, 90 Deg Swivel, 6", Chrome Pltd Brass, Trident #01.013.0	1	39
22-41-5700		-- Cap, 6", Chrome Long Hndl	1	39
22-12-1100		Intk, Aux, Gtd, 2-1/2", NST, Left Side	1	39
21-01-2502		-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn - Spec Only	1	40
22-41-1100		-- Plug, 2-1/2", Chrome Rocker Lug, w/Chain	1	40
24-62-1250		-- Vlv Mfger, AKR, 8000, (2-1/2")	1	40
22-55-4050		-- Intk Vlv Cntrl, AKR, Mnl Swing Type-Adjacent	1	40
22-12-3100		Intk, Aux, Gtd, 2-1/2", NST, Right Side	1	40
21-01-2502		-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn - Spec Only	1	40
22-41-1100		-- Plug, 2-1/2", Chrome Rocker Lug, w/Chain	1	41
24-62-1250		-- Vlv Mfger, AKR, 8000, (2-1/2")	1	41
22-55-4050		-- Intk Vlv Cntrl, AKR, Mnl Swing Type-Adjacent	1	41
23-05-3200		-- Dschg, 2" x 1-1/2" Front Center Bumper, Swivel, NST Brass Swivel	1	41
21-01-2200		-- Drain/Bleeder, Class 1, Automatic	1	41
23-05-9100		-- Hose Connection, Frnt Bmpr, Inside Hosewell, Swivel	1	41
24-61-1200		-- Vlv Mfger, AKR, 8000, (2")	1	41
24-53-0020		-- Dschg Vlv Cntrl, Pull Rod, 1/4 Turn, SM, AKR - IC w/Gauge	1	41
27-02-1500		-- Gauge, Dschg, IC, 2-1/2" 400#, WF	1	42
23-08-1200		-- Speedlay Dschgs, (2) 1-1/2", Ahead Pump Panel, NST 200-ft x 1-3/4-in each	1	42
21-01-2202		-- Drain/Bleeder, Class 1, Automatic - Spec Only	2	42
24-61-1200		-- Vlv Mfger, AKR, 8000, (2")	2	42
24-53-0020		-- Dschg Vlv Cntrl, Pull Rod, 1/4 Turn, SM, AKR - IC w/Gauge	2	42
27-02-1500		-- Gauge, Dschg, IC, 2-1/2" 400#, WF	2	42
23-08-2100		-- Speedlay Dschg, (1) 2-1/2", Ahead Pump Panel, NST 150 ft of 2-1/2-in	1	42
21-01-2202		-- Drain/Bleeder, Class 1, Automatic - Spec Only	1	43
24-61-1250		-- Vlv Mfger, AKR, 8000, (2-1/2")	1	43
24-53-0020		-- Dschg Vlv Cntrl, Pull Rod, 1/4 Turn, SM, AKR - IC w/Gauge	1	43
27-02-1500		-- Gauge, Dschg, IC, 2-1/2" 400#, WF	1	43
23-08-4630		-- Speedlay Trim, Alum Angle, Both Sides	1	43
23-08-8200		-- Speedlay, 2-1/2", Removable Hose Tray, Alum w/Retaining Device	2	43
23-08-8100		-- Speedlay, 1-3/4", Removable Hose Tray, Alum w/Retaining Device	4	44
23-09-4100		Dschg, 2-1/2", Left Side, Pump Panel, NST	2	44
21-01-2502		-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn - Spec Only	2	44
24-02-1200		-- Elbow, 2-1/2"F x 2-1/2" NST M, Chrome	2	44
24-03-1400		-- Cap, 2-1/2", NST Chrome, Rocker Lug, w/Chain	2	44
24-61-1250		-- Vlv Mfger, AKR, 8000, (2-1/2")	2	44
24-53-0020		-- Dschg Vlv Cntrl, Pull Rod, 1/4 Turn, SM, AKR - IC w/Gauge	2	44
27-02-1500		-- Gauge, Dschg, IC, 2-1/2" 400#, WF	2	45
23-10-4100		Dschg, 2-1/2", Right Side, Pump Panel, NST	1	45
21-01-2502		-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn - Spec Only	1	45
24-02-1200		-- Elbow, 2-1/2"F x 2-1/2" NST M, Chrome	1	45
24-03-1400		-- Cap, 2-1/2", NST Chrome, Rocker Lug, w/Chain	1	45
24-61-1250		-- Vlv Mfger, AKR, 8000, (2-1/2")	1	45
24-53-0020		-- Dschg Vlv Cntrl, Pull Rod, 1/4 Turn, SM, AKR - IC w/Gauge	1	45
27-02-1500		-- Gauge, Dschg, IC, 2-1/2" 400#, WF	1	46
23-10-6100		Dschg, 4", Right Side, Pump Panel, NST	1	46
21-01-2502		-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn - Spec Only	1	46
24-02-2300		-- Elbow, LW Alum, 4" Storz x 4"F	1	46
24-03-2100		-- Cap, LW Alum, 4" Storz, w/Cable	1	46
24-61-1400		-- Vlv Mfger, AKR, 8000, (4"), Gear	1	46
24-53-1300		-- Dschrg Vlv Cntrl, AKR, 4", Handwheel	1	46



PART NO	S	DESCRIPTION	QTY	PG
27-02-1500		-- Gauge, Dschg, IC, 2-1/2" 400#, WF	1	46
23-13-3100		Dschg, 2-1/2", Left Rr, NST	1	46
21-01-2502		-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn - Spec Only	1	47
24-02-1200		-- Elbow, 2-1/2" F x 2-1/2" NST M, Chrome	1	47
24-03-1400		-- Cap, 2-1/2", NST Chrome, Rocker Lug, w/Chain	1	47
24-61-1250		-- Vlv Mfger, AKR, 8000, (2-1/2")	1	47
24-53-0020		-- Dschg Vlv Cntrl, Pull Rod, 1/4 Turn, SM, AKR - IC w/Gauge	1	47
27-02-1500		-- Gauge, Dschg, IC, 2-1/2" 400#, WF	1	47
24-11-3200		Monitor Dschg, 3", Over Midship Pump Enclsr, NPT	1	47
21-01-2500		-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn	1	48
24-61-1300		-- Vlv Mfger, AKR, 8000, (3")	1	48
24-53-0300		-- Dschg Vlv Cntrl, Pull Rod, 1/4 Turn, SM, AKR Slow Close - IC w/Gauge	1	48
27-02-1500		-- Gauge, Dschg, IC, 2-1/2" 400#, WF	1	48
24-17-1200		-- Mntr, TFT, Hurricane, RC, Alum, 3" RLM x 2.5" M NH, No Nzl XFIH-EL1A	1	48
24-17-1610		-- Mntr, Pump Panel Operator Station, Panel Mount, TFT Y4E-RP	1	49
24-18-7100		-- Stacked Tips, TFT, w/Stream Shaper, 2.5" NH MST-4NJ	1	49
24-18-8400		-- Mntr, Tele Ext, 18", TFT, Elec, 3", Vic x RLM, #XGA38VL-RL	1	49
24-30-3100		-- Hose Reel, HAN, Elec, Mt Abv Pump, Stl Pntd	1	50
24-31-2100		-- Hose Reel, Rwnd Cntrl, Weatherproof Push Button	1	50
24-32-1200		-- Dschg, Hose Reel, 1"	1	50
21-01-2500		-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn	1	50
24-32-1700		-- Dschg, Hose Reel, Plmbd to Normal Pressure	1	50
24-61-1100		-- Vlv Mfger, AKR, 8000, (1")	1	51
24-53-0020		-- Dschg Vlv Cntrl, Pull Rod, 1/4 Turn, SM, AKR - IC w/Gauge	1	51
27-02-1500		-- Gauge, Dschg, IC, 2-1/2" 400#, WF	1	51
24-33-1600		-- Hose, Water, 800#, 1-in x 100-ft	1	51
24-33-9100		-- Roller, Hose Reel, LH Side	1	51
80-43-1600		-- Painting, Hose Reel, Silver Grey	1	51
25-06-1100		-- Foam Sys, F/PRO 1600, Cls A, 1.7G, 12V, 2"NPT	1	51
25-20-1200		-- Foam Plmbg, Sngl Class A Tank, 1" Mnl Vlv	1	54
25-21-1500		-- Foam Tank, Intgrl Poly, 30 Gal, Class A	1	54
25-22-9100	S	-- S.O.R. / Foam Tank, G3	1	55
25-23-1000		-- Foam Tank Drain, 1" Gate Vlv, Under Tank	1	55
27-36-2000		-- Foam Tank Gauge, Class 1, Intelli-Tank, Pump Panel	1	55
25-19-9000		-- Foam System, NFPA #1901, Install Standards	1	55
26-02-2300		Pump Enc, Side Mt, Extrd Alum, 50-59"W, Crslys	1	57
26-30-1100		Rng Brd, LH Pump Panel, Alum T/P, SM	1	58
26-30-5000		-- Hosewell, Rning Brd, Pump Panel, LH	1	58
26-30-6200		-- Hosewell, Rning Brd, Velcro Straps,	1	58
26-30-1150		Rng Brd, RH Pump Panel, Alum T/P, SM	1	58
26-30-5200		-- Hosewell, Rning Brd, Pump Panel, RH	1	59
26-30-6200		-- Hosewell, Rning Brd, Velcro Straps,	1	59
26-31-1300		Pump Side Access Door, Upper RH, S/S	1	59
26-35-5100		Pump Panel, Line X, LH/RH, SM	1	59
26-35-1300		-- Pump Panel, Hngd, LH	1	59
26-35-1400		-- Pump Panel, Hngd, RH	1	59
26-36-1050		Side Mt Pump Panel, Pntd Roll Up Enclsr Door, LH Side	1	60
55-01-3380		-- Cmpt Lt, Wall, OSS Access, 36" LED Tube Lt, (2) Ea Cmpt	1	60
55-06-1400		-- Cmpt Lt, Dr Swtch, Magnetic, Ea	1	60
26-36-2050		Side Mt Pump Panel, Pntd Roll Up Enclsr Door, RH Side	1	60
55-01-3380		-- Cmpt Lt, Wall, OSS Access, 36" LED Tube Lt, (2) Ea Cmpt	1	60
55-06-1400		-- Cmpt Lt, Dr Swtch, Magnetic, Ea	1	60
26-36-5100		Trim Panels, Stnls Stl, Intks and Dschgs	1	61
26-55-1100		Labels, Test Data and Safety Placards	1	61
26-55-2400		Labels, Innovative Controls Color Coded	1	61
26-56-1125		Pump Panel LED Lts, (3) Tecniq E10-W0001-1, Midship LH w/ Sw on Pmp Oprtr's Pnl	1	61
26-56-1225		Pump Panel LED Lts (2), Midship RH, Tecniq E10-W0001-1	1	61
26-56-2000		Pump Panel Lt (1), Actuated w/Pump Engagement	1	62
27-01-1200		-- Mstr Gauges, Class 1, 4-1/2" PSI, WF, Pr	1	62
27-01-4100		Gauge, Test Taps	1	62

PART NO	S	DESCRIPTION	QTY	PG
27-35-2000		Water Tank Gauge, Class 1, Intelli-Tank, Pump Panel	1	62
27-35-5122		-- Water Tank Gauge, Fed Sig Commander LED, Level Lts, (3 Lts), Cls 1	1	63
47-01-0500		G3 Water Tank, Base Specs	1	63
47-01-1000		-- Water Tank, 1000 Gallon	1	64
47-01-1900		-- Water Tank, "T" Tank	1	64
29-10-1000		Hosebed, Grating, Extrd Alum, <180" Long	1	64
29-10-5100		-- Hosebed, Strge Cpcty, 55 Cubic Feet, Minimum	1	65
29-10-5600		-- Hosebed, Strge Cpcty 2.5" DJ Hose (50-ft Lngth)	6	65
29-10-5900		-- Hosebed, Strge Cpcty 4" LDH SJ Rubber (100-ft)	13	65
29-10-8100		Hosebed, Divider, 1/4" Alum	1	65
29-20-6500		Hosebed Cvr, Alum T/P, >180" L, 49-74" W, Ctr Open (Non NFPA Walking Surface)	1	65
29-10-8160		-- (1) Main Hosebed Divider (Stationary)	1	66
29-20-6650		-- Mnl Operation, Hosebed Cvr, Alum T/P	1	66
29-20-7800		-- Rr Vinyl Flaps for Alum Cvr	1	66
29-20-5600		-- Vinyl Cover, Color, RED	1	66
30-00-0299		Raw Material Surcharge - Single Axle	1	
30-01-1800		Bdy Const - Rosenbauer FX - 1/8" Alum - Sngl Axl Pmpr/Tnkr	1	66
30-02-2100		-- Alum Treadplate Compt Floors	1	67
30-10-1100		-- Sub Frame, Hot-Dip Galv	1	68
31-01-1300		-- Bdy, Frmd Alum, Pmpr/Tnkr, Up to 220"	1	68
44-06-2200		-- Whl Well Panel, Alum Pntd, Sngl Axle - Alum	1	69
44-06-4100		-- Fenderette, Polished Aluminum	1	69
31-01-2135		102" OAW, 13-26" Half Dpth Both Sides, SA HL/HR	1	69
29-00-1300		-- Hosebed, Pmpr, <180" L, 74" Wide	1	69
32-03-0063		-- Cmpt Height, 63" High Left	1	69
32-03-1063		-- Cmpt Height, 63" High Right	1	69
32-04-1330		Pntd Roll Up, HL/HR	1	
30-02-1150		-- Roll-Up Drs - ROM Mfg	9	70
32-05-1125		-- Ahd Rr Whls - Full Ht Comp't - Roll Up Door - Painted	1	70
44-40-1100		-- Vents, Compts, Louvers, Includes Filters (Ea)	1	70
45-01-1050		-- Shelving Tracks, (2) Unistrut, Alum	1	71
55-01-1150		-- Cmpt Lt, Wall, ROM, V3 LED Track Lt, (1) Ea Cmpt	1	71
55-06-1400		-- Cmpt Lt, Dr Swtch, Magnetic, Ea	1	71
32-05-1360		-- Upr Hgh Sde - Sgle Comp't - Roll Up Door - Painted	1	71
44-40-1100		-- Vents, Compts, Louvers, Includes Filters (Ea)	1	71
45-01-1050		-- Shelving Tracks, (2) Unistrut, Alum	1	71
55-01-1150		-- Cmpt Lt, Wall, ROM, V3 LED Track Lt, (1) Ea Cmpt	1	71
55-06-1400		-- Cmpt Lt, Dr Swtch, Magnetic, Ea	1	72
32-05-1725		-- Bhnd Rr Whls - Full Ht Comp't - Roll Up Door - Painted	1	72
44-40-1100		-- Vents, Compts, Louvers, Includes Filters (Ea)	1	72
45-01-1050		-- Shelving Tracks, (2) Unistrut, Alum	1	72
55-01-1150		-- Cmpt Lt, Wall, ROM, V3 LED Track Lt, (1) Ea Cmpt	1	72
55-06-1400		-- Cmpt Lt, Dr Swtch, Magnetic, Ea	1	72
32-06-1125		-- Ahd Rr Whls - Full Ht Comp't - Roll Up Door - Painted	1	72
44-40-1100		-- Vents, Compts, Louvers, Includes Filters (Ea)	1	73
45-01-1050		-- Shelving Tracks, (2) Unistrut, Alum	1	73
55-01-1150		-- Cmpt Lt, Wall, ROM, V3 LED Track Lt, (1) Ea Cmpt	1	73
55-06-1400		-- Cmpt Lt, Dr Swtch, Magnetic, Ea	1	73
32-06-1460		-- Upr Hgh Sde - Sgle Comp't - Roll Up Door - Painted	1	73
44-40-1100		-- Vents, Compts, Louvers, Includes Filters (Ea)	1	73
45-01-1050		-- Shelving Tracks, (2) Unistrut, Alum	1	73
55-01-1150		-- Cmpt Lt, Wall, ROM, V3 LED Track Lt, (1) Ea Cmpt	1	73
55-06-1400		-- Cmpt Lt, Dr Swtch, Magnetic, Ea	1	74
32-06-1725		-- Bhnd Rr Whls - Full Ht Comp't - Roll Up Door - Painted	1	74
44-40-1100		-- Vents, Compts, Louvers, Includes Filters (Ea)	1	74
45-01-1050		-- Shelving Tracks, (2) Unistrut, Alum	1	74
55-01-1150		-- Cmpt Lt, Wall, ROM, V3 LED Track Lt, (1) Ea Cmpt	1	74
55-06-1400		-- Cmpt Lt, Dr Swtch, Magnetic, Ea	1	74
33-60-1100		Rr Bdy, Flat Back	1	74
32-08-0210		-- Rr Cntr Comp't - Full Ht Roll Up/Trans- Natural Finish	1	75

PART NO	S	DESCRIPTION	QTY	PG
44-40-1100		-- Vents, Compts, Louvers, Includes Filters (Ea)	1	75
45-01-1050		-- Shelving Tracks, (2) Unistrut, Alum	1	75
55-01-1150		-- Cmpt Lt, Wall, ROM, V3 LED Track Lt, (1) Ea Cmpt	1	75
55-06-1400		-- Cmpt Lt, Dr Swtch, Magnetic, Ea	1	75
33-61-1400		-- Rr Step, Pmpr-Tnkr Bdy, Bolt-On, 14"	1	75
45-02-1200		-- Shelf, Adjust, Alum 1/8"	8	76
45-05-1100		-- Slide Tray, 250#, Alum 1/8", Full Extension	2	76
90-02-3500		Ladder Strge, Vrtcl Slide In, Right Rr Bdy	1	76
90-02-2920		-- Cmpt Door, Smooth, With Chevron	1	76
90-02-5310		Ladder Mtg, Fldg Attic, Internal	1	76
90-03-0225		Ladders, Ground, Provd'd By Bdy Bldr, SD	1	76
90-16-5400		Pike Pole Mtg, In Ladder Tunnel, Ea	2	77
90-16-6115		Pike Pole Provd'd By, Bdy Bldr SD	1	77
44-01-1450		-- Bdy Trim, Frnt Cmpt, Ht of Side Cmpts, Alum T/P	1	77
44-01-6020		-- Catwalks Top of Side Cmpts, Painted	1	77
44-01-4000		-- Bdy Trim, Entire Rr Bdy, Smooth for Chevron Stripe	1	77
38-90-2050		-- Access Ladder, Rosenbauer EZ Climb, Left Rr	1	77
33-70-1500		-- Handrails, Rr Step, Vert, 48", Three (3) - (2) on EZ Climb & (1) Opposite Side	1	78
33-70-2100		-- Handrails, Pmpr, Below Hosebed, Horz, 48"	1	78
44-02-1100		-- Rub Rails, Lwr Bdy, Extrd Alum	1	78
44-02-2000		-- Rub Rails, Spacers, Nylon	1	78
44-11-5100		Whl Well Prvsns, Ahd of Whls Left Side	1	78
44-10-3020		-- Whl Well Cmpt, Four (4) SCBA Tube, Brshd S/S Dr	1	78
44-10-6000		-- Whl Well Cmpt, SCBA Cmpt Straps	4	79
44-11-5300		Whl Well Prvsns, Bhnd Whls Left Side	1	79
44-07-1200		-- Fuel Fill Cap, LH Whl Well Panel-Open	1	79
44-10-8000		-- Whl Well Cmpt, Floor Dry, Brshd S/S Dr	1	79
44-11-5500		Whl Well Prvsns, Ahd of Whls Right Side	1	79
44-10-3020		-- Whl Well Cmpt, Four (4) SCBA Tube, Brshd S/S Dr	1	79
44-10-6000		-- Whl Well Cmpt, SCBA Cmpt Straps	4	80
44-11-5700		Whl Well Prvsns, Bhnd Whls Right Side	1	80
44-10-4100		-- Whl Well Cmpt, Extngrshr, Brshd S/S Dr	1	80
44-10-6000		-- Whl Well Cmpt, SCBA Cmpt Straps	1	80
44-15-1700		-- Roof Cmpt, Left Side, 12 to 20"D x <90"L	2	80
44-22-0020		-- Roof Compartment Exterior Finish - Painted Smooth Aluminum	2	80
55-01-3000		-- Cmpt Lt, Wall, LED, (1) Ea Cmpt	2	81
55-06-1100		-- Cmpt Lt, Dr Swtch, Auto, Ea	2	81
44-18-1300		-- Roof Cmpt, Right Side, 12 to 20"D x <90"L	2	81
44-22-0020		-- Roof Compartment Exterior Finish - Painted Smooth Aluminum	2	81
55-01-3000		-- Cmpt Lt, Wall, LED, (1) Ea Cmpt	2	81
55-06-1100		-- Cmpt Lt, Dr Swtch, Auto, Ea	2	81
44-30-2100		-- Roof Access, Open Rr Walkway Btwn Roof Cmpts	1	81
44-30-2200		-- Roof Access, Open Landing Area In Frt Of Access Ladder, 24"	1	82
44-30-2400		-- Roof Access, Grab Rail, At Top Of Roof Area Access	1	82
60-26-1100		Rcptcls (Shoreline Wired)	1	82
60-25-2000		-- Rcptcl, 120V, 20 Amp, L5-20, Twst Lck	2	82
60-30-2370		-- Rcptcl Lctn, Left Side, Bhnd Rr Whls Cmpt, Ea	1	82
60-30-2400		-- Rcptcl Lctn, Right Side, Ahd Rr Whls Cmpt, Ea	1	82
80-22-2414		Bdy Paint, Sngl Axle, Pmpr/Tnkr, Two-Tone	1	82
80-30-1300		Cmpt Finish, Spatter Coat, Up to 10 Cmpts	1	85
80-40-1100		Whls, Alum, By the Chassis Manufacturer	1	
80-42-1600		Bdy Paint, Touch Up, 2 oz. Bttl, Two Color	1	85
80-50-1700		Lettering, 4" Mylar Gold Leaf, 50 Letters	1	85
80-70-1300		Stripe, Sngl Reflective, 4", Straight Design	1	85
80-75-1600		-- Reflective Stripe Material, White	1	85
80-72-1100		Stripe, Reflective 3M, Chevron Pattern Entire Rr Red/Yellow	1	85
30-72-1800		Stripe, Reflect, Chevron Pattern, Rear Roll Up Door, Red/ Yellow	1	86
80-79-1000		NFPA Standing / Walking Surfaces Yellow Safety Tape (NFPA 15.7.1.6)	1	86
90-03-3400	S	-- S.O.R. / Ladder, Roof, Duo-Safety, 16' Alum 875-DR	1	86
90-06-4600		-- Ladder, Ext, Duo-Safety, 24' Alum, 2 Sect 900-A	1	86

Pad #10.

PART NO	S	DESCRIPTION	QTY	PG
90-08-2600		-- Ladder, Attic, Duo-Safety, 10' Alum, Fold 585-A	1	86
90-16-2800		-- Pike Pole, 10' Fbgls, Round Hndl	2	86

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## Moberly Fire Department

One (1)  
00-00-1300

# Moberly Fire Department

## BID SPECIFICATIONS FOR A

## ROSENBAUER CUSTOM PUMPER

One (1)  
00-00-1500

### MAX HEIGHT

The maximum height of the apparatus shall not exceed 12'.

One (1)  
00-00-1510

### MAX LENGTH

The maximum length of the apparatus shall not exceed 34'.

One (1)  
00-00-1519

### OVERALL WIDTH

An overall width restriction has not been specified for this apparatus.

One (1)  
00-00-1529

### WHEELBASE

A wheelbase restriction has not been specified for this apparatus.

One (1)  
00-00-1539

### ANGLE OF APPROACH

The angle of approach for the apparatus shall not be less than eight (8) degrees as specified by the current edition of NFPA 1901.

One (1)  
00-00-1549

### ANGLE OF DEPARTURE

The angle of departure for the apparatus shall not be less than eight (8) degrees as specified by the current edition of NFPA 1901.

One (1)

# Moberly Fire Department

00-00-1610

## **NFPA PUMPER EQUIPMENT ALLOWANCE**

In compliance with NFPA #1901 standards, the apparatus shall be engineered to provide an allow of 2500 pounds of fire department provided loose equipment.

One (1)

00-00-3220

## **CONTRACT CHANGE NOTICE**

The quoted delivery time is based upon our receipt of the specified materials required to produce the apparatus in a timely manner. "Delivery" means the date company is prepared to make physical possession of vehicle available to customer.

The Company shall not be responsible nor deemed to be in default on account of delays in performance due to causes which are beyond the Company's control which make the Company's performance impracticable, including but not limited to civil wars, insurrections, strikes, riots, fires, storms, floods, other acts of nature, explosions, earthquakes, accidents, any act of government, delays in transportation, inability to obtain necessary labor supplies or manufacturing facilities, allocation regulations or orders affecting materials, equipment, facilities or completed products, failure to obtain any required license or certificates, acts of God or the public enemy or terrorism, failure of transportation, epidemics, quarantine restrictions, failure of vendors (due to causes similar to those within the scope of this clause) to perform their contracts or labor troubles causing cessation, slowdown, or interruption of work.

After execution and acceptance of this Purchase Process, the Buyer may request that the Company incorporate a change to the Products or the Specifications for the Products by delivering a Change Order to the Company; provided, however, that any such Change Order must be in writing and include a description of the proposed change sufficient to permit the Company to evaluate the feasibility of such Change Order. Within seven (7) working days of receipt of a Change Order, the Company will inform the Buyer in writing of the feasibility of the Change Order, the earliest possible implementation date for the Change Order, of any increase or decrease in the Purchase Price resulting from such Change Order, and of any effect on production scheduling or delivery resulting from such Change Order. The Company shall not be liable to the Buyer for any delay in performance or delivery arising from any such Change Order. Purchase Price may be modified only by mutual written agreement of the Parties because of changes to the Apparatus required or requested by the Buyer during the construction process pursuant to Appendix C, Change Order Policy. Any changes in the Purchase Price resulting from changes to the Apparatus required or requested by the Buyer during the construction process shall be stated in the Change Order signed by both parties. Additional Changes: If various state or federal regulatory agencies (e.g. NFPA, DOT, EPA) require changes to the specification and/or the product that result in a cost increase to comply therewith this cost will be added to the Purchase Price to be paid by the customer.

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# Moberly Fire Department

One (1)  
00-12-1100

## FINANCIAL STABILITY SPECIFICATIONS

With high-profile instances of fire apparatus manufacturers encountering financial difficulties, it is imperative that fire departments be diligent in evaluating the financial position of the companies they solicit to build on their emergency response vehicles. A contract entered into with a company on shaky ground is a dangerous prospect, since conducting business with a manufacturer in such condition could open the department to monumental problems.

Take, for instance, the growing theme of manufacturers *requiring* as opposed to *offering* pre-payment and progressive payment options with a corresponding discount off the price of a vehicle. Such offers are made with an ulterior motive in mind, as it can be generally inferred that manufacturers requiring pre-payments and progressive payments do so because they need your cash *today* to fund production of other vehicles already in the backlog.

Should problems arise, as has been the case in situations too numerous to mention, your department risks losing any down payments already made or even the entire cost of a piece of equipment should certain pre-pay discount situations go awry.

While pre-payment discounts may be enticing, it is important to know just how stable the manufacturer seeking your funds is before you make that commitment. If you enter into one of these agreements and the manufacturer hits a rough patch, it is you that will be hurting, because your funds may not be recoverable. However, if you enter into a contract with a financially sound manufacturer, you will reap all of the benefits of a well-built truck at a lower cost. You may equally, by taking advantage of the time-value of money, be able to afford more truck than initially thought, because funds saved by leveraging pre-payment options could allow you get some added features that you might not necessarily have been able to afford.

With this in mind, it must be noted that Rosenbauer is a company with rock-solid financial stability. This is a statement not made lightly, as we can prove it to you. We can provide language that you can insert into your bid specifications that stipulates that in order for bids to be accepted by a fire department, the company bidding must meet several fiscal criteria.

The first criteria call for the successful bidder to meet a debt-to-equity ratio not exceeding a 2.0 rating. Rosenbauer presently stands at a 1.51 rating, which is well-below the accepted rating. This low number results from Rosenbauer owning more assets with a marginal debt service. This means we are not using lenders to fund our operations, nor our growth.

The second requirement is that the debt coverage ratio of the successful body builder exceeds a 100 rating. The higher the number, the better able a company is to meet its payment obligations with banks and creditors. Rosenbauer's number is at 279.6, which is nearly three times the

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# Moberly Fire Department

required amount. The higher the debt coverage ratio, the easily and more fluidly a company is positioned to pay its monthly obligations and operating costs.

The third criteria require that the equity ratio of the successful bidder must exceed .30 rating. A higher equity ratio indicates that the body builder has increased flexibility to meet its financial obligations which translates into greater financial stability. Rosenbauer currently has an equity ratio of .387 which is well above the accepted rating and an excellent indicator of financial strength.

When exploring and evaluating various manufacturers to consider for building your apparatus, there is little doubt you will find one that stands on as firmly a financial ground as Rosenbauer. While others are experiencing stressful issues that raise doubts as to the company's long-term viability, Rosenbauer continues to demonstrate a strengthening of its financial position in the apparatus manufacturing industry. Because Rosenbauer meets and exceeds all the above-stated financial bid requirements, we are best positioned to ensure customers of a strong relationship with the company, which cannot be claimed by most of our competitors in this volatile market.

The Rosenbauer America Dun and Bradstreet number is 02-447-3584. To acquire a Dun and Bradstreet report, telephone them at 1-800-234-3867 (in Canada 800-463-6362) or visit their web site address at [www.dnb.com](http://www.dnb.com). Dun and Bradstreet is nationally-recognized, independent financial analysis company.

One (1)  
01-06-0500

## **CENTER OF GRAVITY**

The apparatus, prior to acceptance, will be required to meet the vehicle stability of the applicable NFPA Automotive Fire Apparatus Standard.

A calculated center of gravity shall be provided. The calculated or measured center of gravity (CG) shall be no higher than 80-percent of the rear axle track width.

One (1)  
01-07-0060

## **ENGINEERING BLUEPRINTS**

**ROSENBAUER** has submitted "proposal" blueprints which are "representative" of the vehicle being proposed and these have been generated on computer-aided-design (CAD) equipment.

The blueprints are provided as follows:

Sheet No. 1:

- Left side exterior view
- Right side exterior view
- Rear exterior view



# Moberly Fire Department

**ROSENBAUER** shall be provide construction drawings for approval prior to actual construction of the vehicle.

The design of the equipment is in accordance with the best engineering practices. The equipment design and accessory installation shall permit accessibility for use, maintenance and service. All components and assemblies shall be free of hazardous protrusions, sharp edges, cracks or other elements, which might cause injury to personnel or equipment.

All oil, hydraulic, and air tubing lines and electrical wiring shall be located in protective positions properly attached to the frame or body structure and shall have protective loom or grommets at each point where they pass through structural members, except where a through-frame connector is necessary.

Parts and components will be located or positioned for rapid and simple inspection and recognition of excessive wear or potential failure. Whenever functional layout of operating components determines that physical or visual interference between items cannot be avoided, the item predicted to require the most maintenance shall be located for best accessibility.

One (1)  
01-07-1100

## **CHANGE ORDERS**

To ensure the proper engineering and construction of the purchaser's custom fire apparatus in a timely manner, the contractor shall consider the order final and complete after any changes made during the pre-construction conference are mutually approved. Change orders requested after the pre-construction conference are discouraged. It shall be understood and agreed that any changes, if approved, after the order has been released to Engineering, shall constitute a valid cause for production delay and without penalty to the contractor.

One (1)  
02-13-5030

## **DELIVERY**

The apparatus shall be delivered complete and ready for operation. The apparatus, to insure proper break-in of all components, shall be delivered under its own power - rail or truck freight is not acceptable.

One (1)  
02-13-7400

## **TOLL FREE SERVICE NUMBER**

Due to the nature of emergency fire and rescue services being subject to respond at any time of the day or night, the municipality requires that this also applies to the selling Dealer and the manufacturer.

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On a typical day to day basis the request for service is expected to be requested from the selling Dealer. However, if the Dealer's service center is not readily available the municipality needs assurance that the OEM (Original Equipment Manufacturer) can be reached for assistance.

With that said, each bidder shall supply a toll-free telephone number that provides OEM emergency service assistance. This number, when called, shall be directed to a call center, then to an OEM service technician, 24 hours a day, 365 days a year.

There shall be a minimum of ten (10) OEM service technicians at any time in the queue to answer an incoming emergency service call. One of which shall be the OEM's National Service Manager.

In the interest of providing the minimum level of acceptable service for the new apparatus this shall be considered a requirement of the successful bidder/proposal.

One (1)  
01-16-0150

## **BODY WARRANTY**

We warrant each new motorized fire apparatus manufactured by ROSENBAUER AMERICA, LLC for a period of ONE YEAR from the date of delivery, except for chassis and other components noted herein.

Under this warranty we agree to furnish any parts to replace those that have failed due to defective material or workmanship where there is no indication of abuse, neglect, unusual or other than normal service providing that such parts are, at the option of ROSENBAUER AMERICA, LLC, made available for our inspection at our request, returned to our factory or other location designated by us with transportation prepaid within thirty days after the date of failure or within one year from the date of delivery of the apparatus to the original purchaser, whichever occurs first, and inspection indicates the failure was attributed to defective material or workmanship.

The warranty on the chassis and chassis supplied components, storage batteries, generators, electrical lamps and other devices subject to deterioration is limited to the warranty of the manufacturer thereof and adjustments for the same are to be made directly with the manufacturer by the customer.

This warranty will not apply to any fire apparatus that has been repaired or altered outside our factory in any way, which in our opinion might affect its stability or reliability.

This warranty shall not apply to those items that are usually considered normal maintenance and upkeep services: including, but not limited to, normal lubrication or proper adjustment of minor auxiliary pumps or reels.

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This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability in connection with the sales of our apparatus unless made in writing by ROSENBAUER AMERICA, LLC.

One (1)  
01-19-0250

## **ALUMINUM BODY WARRANTY - FIVE YEAR**

Rosenbauer America, LLC warrants to the original purchaser only, that the all aluminum body, fabricated by Rosenbauer America, LLC, under normal use and with reasonable maintenance, be structurally sound and will remain free from corrosion perforation for a period of FIVE (5) years.

This warranty does not apply to the following items that are covered by a separate warranty: paint finish, hardware, moldings, and other accessories attached to this body. In addition, this warranty does not apply to any part or accessory manufactured by others and attached to this body.

ROSENBAUER AMERICA, LLC MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THE ALUMINUM BODY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND HEREBY DISCLAIMED.

Rosenbauer America, LLC will replace without charge, repair or make a fair allowance for any defect in material or workmanship demonstrated to its satisfaction to have existed at the time of delivery or not due to misuse, negligence, or accident. If Rosenbauer America, LLC elects to repair this body, the extent of such repair shall be determined solely by Rosenbauer America, LLC, and shall be performed solely at the Rosenbauer America, LLC factory, or at an approved facility. The expense of any transportation to or from such repair facility shall be borne by the purchaser and is not an item covered under this warranty.

Rosenbauer America, LLC will not be liable for damages and under no circumstances will its liability exceed the price for a defective body. The remedies set forth herein are exclusive and in substitution for all other remedies to which the purchaser would otherwise be entitled.

Rosenbauer America, LLC will be given a reasonable opportunity to investigate all claims. The purchaser must commence any action arising out of, based upon or relating to agreement or the breach hereof, within twelve months from the date the cause of the action occurred.

Note: Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

One (1)  
01-19-2800

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# Moberly Fire Department

## **GALVANIZED SUBFRAME WARRANTY**

Subject to the provisions, limitations and conditions set forth in this warranty, Rosenbauer America, LLC (hereby referred to as "seller"), hereby warrants to each original purchaser only that each new hot dip galvanized body subframe (exclusive of paint finish and hardware) is structurally sound and free of all structural defects of both material and workmanship and further warrants that it will maintain such structural integrity for the duration of ownership by the original purchaser. This warranty terminates upon transfer of possession or ownership by original purchaser.

This warranty is conditioned upon normal use and reasonable maintenance of such subframe; prompt written notice of all defects to seller or one of the seller's then authorized dealers in the area; no repair or additions there to except by seller or authorized by it; said defect not resulting from misuse, negligence, accident, remount, overloading beyond applicable weight rating by customer or third parties. If any such conditions are not complied with, this warranty shall become void and unenforceable.

Should repairs become necessary under the terms or the warranty, the extent of that repair shall be determined solely by the seller and shall be performed solely at Rosenbauer America, LLC or a repair facility designated by the seller. The expense of any transportation to or from such repair facility shall be that of the purchaser and is not an item covered by this warranty.

Seller reserves the unrestricted right at any time from time to time to make changes in the design of and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

EXCLUSIONS AND LIMITATIONS: THIS MANUFACTURER'S WARRANTY IS PROVIDED IN PLACE OF ANY AND ALL OTHER REPRESENTATIONS OR IMPLIED WARRANTIES. NO PERSON IS AUTHORIZED TO MAKE ANY REPRESENTATIONS OR WARRANTY ON BEHALF OF ROSENBAUER AMERICA, LLC OR ANY OF ITS DISTRIBUTORS OTHER THAN SET FORTH IN THIS MANUFACTURER'S WARRANTY. YOUR RIGHT TO SERVICE AND REPLACEMENT OF PARTS ON THE TERMS EXPRESSLY SET FORTH HERIN ARE YOUR EXCLUSIVE REMEDIES AND NEITHER THE MANUFACTURER NOR ANY OF ITS DISTRIBUTORS SHALL BE LIABLE FOR DAMAGES, WHETHER ORDINARY, INCIDENTAL OR CONSEQUENTIAL.

Note: Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

One (1)  
01-20-1005

## **PAINT WARRANTY FIVE YEAR**

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# Moberly Fire Department

The AkzoNobel paint performance guarantee will cover the areas of the vehicle finished with the specified product for a period of FIVE (5) year beginning the day the vehicle is delivered to the purchaser.

The full apparatus body, manufactured and painted by Rosenbauer America, LLC, shall be covered for the following paint failures as outlined on the guarantee certificate:

- Peeling or delaminating of the topcoat and/or other layers of paint.
- Cracking or checking.
- Loss of gloss caused by cracking, checking, or hazing.
- Any paint failure caused by defective AkzoNobel finishes, which are covered by this guarantee.

All guarantee exclusions, limitations, and methods of claims are covered in the full certificate provided to the original purchaser.

Note: Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

One (1)  
01-21-0150

## **LETTERING WARRANTY**

Rosenbauer America, LLC warrants to the original purchaser only, that the lettering and striping, installed by Rosenbauer America, LLC, will remain free from defects for a period of one (1) year under normal use.

Rosenbauer America, LLC will replace without charge, repair or make a fair allowance for any defect in material or workmanship demonstrated to its satisfaction to have existed at the time of delivery or not due to misuse, negligence, or accident. If Rosenbauer America, LLC elects to repair this item, the extent of such repair shall be determined solely by Rosenbauer America, LLC, and shall be performed solely at the Rosenbauer America, LLC factory, or at an approved facility. The expense of any transportation to or from such repair facility shall be borne by the purchaser and is not an item covered under this warranty.

One (1)  
01-17-0150

## **FIRE PUMP WARRANTY**

A six (6) year warranty for the Darley fire pump shall be provided.

One (1)  
01-17-1050

## **STAINLESS STEEL PLUMBING WARRANTY**

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# Moberly Fire Department

The manufacturer shall provide a ten (10) year warranty on the stainless steel plumbing components and installation. The manufacturer shall supply details of their warranty information with their bid submission.

One (1)  
01-18-0050

## **FOAM TANK WARRANTY**

The manufacturer shall provide a warranty for the G3 foam tank. The manufacturer shall supply details of their warranty information with their bid submission.

One (1)  
01-18-0900

## **WATER TANK WARRANTY**

The manufacturer shall provide a warranty for the G3 water tank. The manufacturer shall supply details of their warranty information with their bid submission.

One (1)  
01-33-3100

## **BODY MANUAL - PRINTED**

Rosenbauer shall provide with the vehicle upon delivery, one (1) complete delivery manual. This manual shall be in a notebook type binder, with reference tabs for each section of the vehicle.

Within each section shall be:

- Individual component manufacturer instruction and parts manuals
- Warranty forms for the body
- Warranty forms for all major components
- Warranty instructions and format to be used in compliance with warranty obligations
- Wiring diagrams
- Installation instruction and drawings for major parts
- Visual graphics and electronic photos for the installation of major parts
- Necessary normal routine service forms, publications and components of the body portion of the apparatus
- Technical publications for training and instruction on major body components
- Warning and safety related notices for personnel protection
- Cab and chassis manuals on parts, service and maintenance shall be provided

One (1)  
02-90-0500

## **ROSENBAUER CUSTOM CHASSIS**

A Rosenbauer Commander custom fire truck chassis shall be furnished with the following apparatus body and equipment. See attached specifications for exact chassis configuration.

One (1)  
6-01-1600

# Moberly Fire Department

## **ELECTRIC SIREN AND CONTROL**

One (1) Whelen model #295SLSA1 electronic siren shall be mounted in the cab. This unit shall feature an electronic air horn, wail, yelp, hi-lo and shall have a hard wired PA microphone.

One (1)  
56-02-1600

## **SPEAKER**

One (1) Federal Signal DynaMax 100-watt speaker, Model #ES100C, shall be installed. The speaker shall feature a Neodymium driver and a high strength composite housing that is chemical resistant and maintains rigidity at high temperatures.

One (1)  
56-02-1650

## **SPEAKER**

One (1) stainless steel grille shall be installed on the speaker.

One (1)  
56-03-1800

## **SPEAKER LOCATION**

The siren speaker shall be installed on the apparatus bumper extension, as determined by the body manufacturer.

One (1)  
56-06-0300

## **FEDERAL MECHANICAL SIREN**

One (1) Federal Signal Q2B mechanical siren, model Q2B-01PSD, shall be pedestal mounted onto the front bumper. The "Q" siren shall feature a highly polished chrome body and grille. The siren's distinctive mechanical wail sound shall produce 123 db at 10'. The siren control switch(es) shall be installed in the cab.

One (1)  
56-07-1300

## **SIREN CONTROL**

One (1) foot switch shall be provided on the driver's side of the cab floor to activate the Federal Signal Q2B siren.

One (1)  
56-07-1500

## **SIREN CONTROL**

One (1) push button switch shall be installed on the officer's side of the cab dash to activate the Federal Signal Q2B siren.

One (1)

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56-07-1100

## **SIREN BRAKE**

One (1) push button siren brake to silence the Federal Signal Q2B siren shall be provided on the driver's side dash.

One (1)  
57-02-1250

## **LIGHTBAR**

One (1) Whelen Ultra Freedom IV light bar shall be included with the apparatus cab. The light bar shall be a model F4N7QLED and shall be mounted on the roof of the cab, towards the front, above the windshield.

The light bar shall feature:

- A 72" light bar designed for high performance
- Two (2) red Linear Super LED corner modules
- Two (2) red 400 series Linear Super LED endcap lights
- Two (2) red 400 series Linear Super LED lights
- Two (2) white 400 series Linear Super LED lights with clear optic lenses
- Clear hard coated lenses to provide extended life/luster protection against UV & chemical stresses
- Designed in accordance with NFPA Zone A requirements

One (1)  
57-10-0600

## **LIGHTBAR ACTIVATION**

The front upper light bar shall be activated through the master warning switch.

One (1)  
58-71-1720

## **UPPER REAR WARNING LIGHTS**

One (1) pair of Whelen model #900 Super LED warning lights shall be installed, one each side on the upper rear of the apparatus body. The dimensions of the lights shall be 7" x 9".

One (1)  
57-20-7010

The driver side warning light shall be a Whelen Model 90RR5FRR red-LED with a red lens.

One (1)  
57-20-7011

The officer side warning light shall be a Whelen Model 90RR5FRR red-LED with a red lens.

Two (2)  
58-01-2280

Each light shall be mounted with a Whelen Model 900 chrome flange.

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One (1)  
58-61-1720

## **UPPER SIDE REAR WARNING LIGHTS**

One (1) pair of Whelen model #900 Super LED warning lights shall be installed, one each side on the upper portion of the body side, towards the rear of the body. The dimensions of the lights shall be 7" x 9".

One (1)  
57-20-7010

The driver side warning light shall be a Whelen Model 90RR5FRR red-LED with a red lens.

One (1)  
57-20-7011

The officer side warning light shall be a Whelen Model 90RR5FRR red-LED with a red lens.

Two (2)  
58-01-2280

Each light shall be mounted with a Whelen Model 900 chrome flange.

One (1)  
58-03-6400

## **UPPER WING FRONT WARNING LIGHTS**

One (1) pair of Whelen model #600 Super LED warning lights shall be installed, one each side one the front of the chassis cab, upper wing area. The dimensions of the lights shall be 4" x 6".

One (1)  
57-20-4010

The driver side warning light shall be a Whelen Model 60R02FRR red-LED with a red lens.

One (1)  
57-20-4011

The officer side warning light shall be a Whelen Model 60R02FRR red-LED with a red lens.

One (1)  
58-03-7310

## **INBOARD WARNING LIGHTS**

One (1) pair of Whelen model 600 super LED's warning lights shall be installed, one each side one the front of the chassis cab, in the inboard warning light position. The dimensions of the lights shall be 4" x 6".

One (1)  
57-20-4010

The driver side warning light shall be a Whelen Model 60R02FRR red-LED with a red lens.

One (1)  
57-20-4011

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The officer side warning light shall be a Whelen Model 60R02FRR red-LED with a red lens.

One (1)  
58-09-1520

## **INTERSECTION WARNING LIGHTS**

One (1) pair of Whelen model #600 red Super LED warning lights shall be installed one each side of the chassis cab. The dimensions of the lights shall be 4" x 6".

One (1)  
57-20-4010

The driver side warning light shall be a Whelen Model 60R02FRR red-LED with a red lens.

One (1)  
57-20-4011

The officer side warning light shall be a Whelen Model 60R02FRR red-LED with a red lens.

Two (2)  
58-01-2240

Each light shall be mounted with a Whelen Model 600 chrome flange.

One (1)  
58-26-2400

## **LOWER MID-BODY WARNING LIGHTS**

One (1) pair of Whelen model M2 LED warning lights, model M2WR, shall be installed, one each side of the apparatus, mid-body in the rub rail. The dimensions of the lights shall be 4-1/4" x 2-11/16".

Will only fit in EXT rub rail WITHOUT bezel

One (1)  
57-20-1000

The driver side warning light shall be a Whelen Model M2WR wide-angle red Super-LED™ with color lens.

One (1)  
57-20-1001

The officer side warning light shall be a Whelen Model M2WR wide-angle red Super-LED™ with color lens.

Two (2)  
58-01-2100

Each light shall be mounted with a Whelen Model M2FC chrome flange.

One (1)  
58-36-2400

## **LOWER REAR SIDE WARNING LIGHTS**

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One (1) pair of Whelen model M2 LED warning lights shall be installed , one each side of the apparatus, towards the rear of the body, in the rub rail. The dimensions of the lights shall be 4-1/4" x 2-11/16".

Will only fit in EXT rub rail WITHOUT bezel

One (1)  
57-20-1000

The driver side warning light shall be a Whelen Model M2WR wide-angle red Super-LED™ with color lens.

One (1)  
57-20-1001

The officer side warning light shall be a Whelen Model M2WR wide-angle red Super-LED™ with color lens.

Two (2)  
58-01-2100

Each light shall be mounted with a Whelen Model M2FC chrome flange.

One (1)  
58-81-1520

## **LOWER REAR WARNING LIGHTS**

One (1)pair of Whelen model #600 Super LED warning lights shall be installed, one each side on the lower rear of the apparatus body. The dimensions of the lights shall be 4" x 6".

One (1)  
57-20-4010

The driver side warning light shall be a Whelen Model 60R02FRR red-LED with a red lens.

One (1)  
57-20-4011

The officer side warning light shall be a Whelen Model 60R02FRR red-LED with a red lens.

Two (2)  
58-01-2240

Each light shall be mounted with a Whelen Model 600 chrome flange.

One (1)  
50-03-1000

## **LOW VOLTAGE ELECTRICAL SYSTEM SPECIFICATIONS**

The electrical system shall include all panels, electrical components, switches and relays, wiring harnesses and other electrical components. The electrical equipment installed by the apparatus manufacturer shall conform to current automotive electrical system standards, the latest Federal DOT standards, and the requirements of the applicable NFPA standards.

All wiring shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for the protected circuit. Voltage drops in all wiring from the

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power source to the using device shall not exceed 10 percent. The wiring and wiring harness and insulation shall be in conformance to applicable SAE and NFPA standards. The wiring harness shall conform to SAE J-1128 with GXL temperature properties. All exposed wiring shall be protected in a loom with a minimum 289 degree Fahrenheit rating. All wiring looms shall be properly supported and attached to body members. The electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction.

The wiring connections and terminations shall use a method that provides a positive mechanical and electrical connection and shall be installed in accordance with the device manufacturer's instructions. Electrical connections shall be with mechanical type fasteners and large rubber grommets where wiring passes through metal panels.

The wiring between the cab and body shall be joined using Deutsche type connectors or an enclosed in a terminal junction panel area. This system will permit body removal with minimal impact on the apparatus electrical system. All connections shall be crimp-type with insulated shanks to resist moisture and foreign debris such as grease and road grime. Weather-resistant connectors shall be provided throughout to ensure the integrity of the electrical system.

Any electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. In addition, the main body junction panel shall house the automatic reset breakers and relays where required.

There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless they are enclosed in a junction box or covered with a removable electrical panel. The wiring shall be secured in place and protected against heat, liquid contaminants and damage. Wiring shall be uniquely identified every three-inches (3") by color coding or permanent marking with a circuit function code and identified on a reference chart or electrical wiring schematic per requirements of applicable NFPA #1901 standards.

The electrical circuits shall be provided with low voltage overcurrent protective devices. Such devices shall be accessible and located in required terminal connection locations or weather resistant enclosures. The overcurrent protection shall be suitable for electrical equipment and shall be automatic reset type and meet SAE standards. All electrical equipment, switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. The system shall have electro-magnetic interference suppression provided as required in applicable SAE standards.

The electrical system shall include the following:

- Electrical terminals in weather exposed areas shall have a non-conductive grease or spray applied. A corrosion preventative compound shall be applicable to all terminal plugs located

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outside of the cab or body.

- The electrical wiring shall be harnessed or be placed in a protective loom.
- Holes made in the roof shall be caulked with silicone. Large fender washers shall be used when fastening equipment to the underside of the cab roof.
- Any electrical component that is installed in an exposed area shall be mounted in a manner that will not allow moisture to accumulate in it.
- A coil of wire must be provided behind an electrical appliance to allow them to be pulled away from mounting area for inspection and service work.
- All lights that have their sockets in a weather exposed area shall have corrosion preventative compound added to the socket terminal area.

The warning lights shall be switched in the chassis cab with labeled switches in an accessible location. Individual rocker switches shall be provided only for warning lights provided over the minimum level of warning lights in either the stationary or moving modes. All electrical equipment switches shall be mounted on a switch panel mounted in the cab convenient to the operator. The warning light switches shall be of the rocker type. For easy nighttime operation, an integral indicator light shall be provided to indicate when the circuit is energized. All switches shall be appropriately identified as to their function.

A single warning light switch shall activate all required warning lights. This switch will allow the vehicle to respond to an emergency and "call for the right of way". When the parking brake is applied, a "blocking right of way" system shall automatically activate per requirements of the applicable NFPA standards. All "clear" warning lights shall be automatically turned off upon application of the parking brake.

## **NFPA REQUIRED TESTING OF ELECTRICAL SYSTEM**

The apparatus shall be electrically tested upon completion of the vehicle and prior to delivery. The electrical testing, certifications, and test results shall be submitted with delivery documentation per requirements of the applicable NFPA standards. The following minimum testing shall be completed by the apparatus manufacturer:

### 1. Reserve capacity test:

The engine shall be started and kept running until the engine and engine compartment temperatures are stabilized at normal operating temperatures and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for ten (10) minutes. All electrical loads shall be turned off prior to attempting to restart



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the engine. The battery system shall then be capable of restarting the engine. Failure to restart the engine shall be considered a failed test.

## 2. Alternator performance test at idle:

The minimum continuous electrical load shall be activated with the engine running at idle speed. The engine temperature shall be stabilized at normal operating temperature. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure.

## 3. Alternator performance test at full load:

The total continuous electrical load shall be activated with the engine running up to the engine manufacturer's governed speed. The test duration shall be a minimum of two (2) hours. Activation of the load management system is permitted during this test. However, if an alarm sounds due to excessive battery discharge, as detected by the system requirements in the NFPA standards, or a system voltage of less than 11.7 volts dc for more than 120 seconds is present, the test has failed.

## 4. Low voltage alarm test:

Following the completion of the above tests, the engine shall be shut off. The total continuous electrical load shall be activated and shall continue to be applied until the excessive battery discharge alarm activates. The battery voltage shall be measured at the battery terminals. With the load still applied, a reading of less than 11.7 volts dc for a 12 volt system shall be considered a test failure. The battery system shall then be able to restart the engine. Failure to restart the engine shall be considered a test failure.

## NFPA REQUIRED DOCUMENTATION

The following documentation shall be provided on delivery of the apparatus:

- a. Documentation of the electrical system performance tests required above.
- b. A written load analysis, including:
  1. The nameplate rating of the alternator.
  2. The alternator rating under the conditions.
  3. Each specified component load.

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## 4. Individual intermittent loads.

One (1)  
50-05-1510

### **WEATHER RESISTANT ELECTRICAL JUNCTION BOX**

The electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. In addition, the main body junction panel shall house the automatic reset breakers and relays where required. The main body junction panel shall be located in the pump compartment.

One (1)  
50-12-1090

### **DASH MOUNTED EMERGENCY ELECTRICAL SWITCH PANEL**

An electrical switch panel shall be designed and mounted in the cab dash area as furnished with the chassis. All switches shall be provided with backlighted snap-in legend inserts.

### **SWITCHES**

All emergency light switches shall be lighted, rocker style. Switches shall be internally lit when the switch circuit is in the on position. A plug-in identification label is to be provided and installed adjacent to each rocker switch with backlighting provided behind the label.

An internally lighted switch shall be provided and wired through a heavy-duty relay to activate power to the emergency lights. The emergency lights shall be activated by a single "MASTER SWITCH" on the electrical console.

One (1)  
50-41-3000

### **AIR HORNS**

Two (2) 24.5" Stuttertone chrome plated air horns shall be recess mounted into the front bumper with one positioned on each side. An air protection valve shall be provided in the air horn piping that will not allow the chassis air brake system to drop below 90 PSI.

One (1)  
50-43-2000

### **ELECTRIC TRAFFIC HORN AND AIR HORN SELECTOR SWITCH**

One (1) selector switch shall be provided on the cab's dash that will allow the chassis steering wheel horn button to activate either the electric traffic horn or air horn system.

One (1)  
50-43-2300

### **AIR HORN SWITCH**

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One (1) switch shall be installed to activate the air horn system on the officer's side of the cab dash.

One (1)  
51-05-6400

## **PUMP ENCLOSURE LIGHTS**

One (1) LED work light shall be provided in the pump enclosure.

One (1)  
51-05-9000

The control switch shall be mounted on the light head.

One (1)  
51-16-5020

## **LED SCENE LIGHT**

A Fire Tech FT-B-46-ML3-W 46" brow light shall be provided and installed below the light bar. The light shall produce 18,000 lumens and be powder coated white.

One (1)  
51-20-3100

## **LIGHT MOUNTING LOCATION**

The mounting location for the specified light shall be on the front edge of the chassis cab roof.

One (1)  
51-15-6100

## **SCENE LIGHT SWITCHING**

One (1) scene light switch with indicator shall be installed on the cab main switch panel to control all scene light(s). The switch shall be labeled "SCENE LIGHTS".

One (1)  
52-02-4250

## **FIRE RESEARCH INVIEW 360™ VIDEO SYSTEM KIT - WITH MONITOR**

An FRC, powered by SEON, model SNB100-C00-MSO inView™ 360 Video system kit shall include (4) four cameras, an Electronic Control Unit (ECU), required harnesses and a manual camera switch. The system kit shall provide split video feed with bird's-eye view and individual camera views. It shall be capable of integrating with an existing vehicle system for an automatic camera view, which seamlessly switches from front/left/right/rear views based on turn signal and reverse activation. It shall also feature a switch module that allows the operator to override the default camera view.

## **INVIEW 360™ SAV-MON, AVM 7.4" In Cab Video Monitor**

A FRC, powered by SEON, model InView™ 360 SAV-MON, AVM 7.4" In Cab Video Monitor shall include a 7" diagonal color LCD TV display monitor with viewing dimensions of 6.06" W

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x 3.42" H. The monitor shall be a TFT Active Matrix System display with an 800 x 480 resolution and a display format of 16:9 (aspect ratio).

It shall operate from 12 VDC, and the connection terminals shall include a composite video in and power in. The monitor shall weigh 0.9 lbs., and it shall have dimensions of 5.5" H x 2.75" W x 11" H.

**Location of the InView™ 360 SAV-MON, AVM 7.4" In Cab Video Monitor shall be determined by the purchaser.**

## **INVIEW 360 SYSTEM FEATURES:**

### **Operational Requirements:**

- 1 The camera (4 x cameras) shall have dimensions of 2.4" L X 2.0" H X 1.7" D. They shall have a 190-degree horizontal lens view angle, a relative aperture (F-stop) 2.0, shall have a resolution of 720 x 480 at 30 FPS (frames per second), shall output a NTSC signal and an input operating voltage 4V – 6V when connected to the ECU (Electronic Control Unit).
- 2 The ECU (Electronic Control Unit) shall feature NTSC video inputs, and also have NTSC, CVBS (SD) 2-channel view output. The ECU shall have dimensions of 4.54" L x 6.24" H X 1.34" D. The system operating range shall be from 9 to 36 VDC, and shall consume no more than 15 watts of power when all 4 cameras are connected.
- 3 The systems shall support (8) eight different view modes per (2) two defined configuration groups; Normal (NT) Group shall support 6 different view and Separate Top (ST) View shall support (2) two different views.
- 4 Configure & customize set up shall be supported via monitor and IR remote control
- 5 Shall support configurable on-screen parking markers
- 6 Complete package shall weigh less than 8 lbs.

### **Environmental Requirements:**

Operating temperatures shall be between -22°F (-30°C) and 158°F (70°C), and storage temperatures shall be between -40°F (-40°C) and 185°F (85°C), Relative Humidity: 0–85%, non-condensing. The indoor/outdoor camera housing shall be waterproof, rated to IP67.

### **Systems Hardware:**

1 X ECU (Electronic Control Unit), 1 X ECU Mounting Bracket w/ 4X screw, 1 x Power & Interface Harness, 1 x Reverse Signal Wire, 2 x In-Line Fuses (1x Button Extension Cable & 1 x Driver Button, 1 x Left & 1 x Right Signal Wires, 1 x Video Harness, 2 x Video Output Extension Cables, 4 x Cameras Mounting kit, 4 x Camera Extension Cables, 4 x Drilling Template & 8 x Screw Covers.

### **Manufactures Support:**

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Fire Research Corporation Guarantee shall be (2) two years from the vehicle in-service date under normal use and service. Fire Research Corporation shall provide technical assistance as required.

One (1)  
52-10-2724

## **INTERCOM SYSTEM**

The vehicle shall be equipped with a 3800-9900 David Clark six (6) position intercom system. The driver's and officer's positions shall be wireless, with the four (4) rear crew positions being wired.

Along with the required wiring, junction boxes, power cords, etc, the intercom system shall include the following:

- One (1) U3800 master station shall be supplied with the system. The U3800 is the heart of the intercom system, providing power to the complete intercom system.
- Two (2) H9940 Behind the Head, wireless headsets shall be supplied, one (1) for the driver's position and one (1) for the officer's position. The mic has "ON-OFF" button. When "ON" the mic is always live for intercom communication. The headsets shall be equipped with a U9910-BSW VOX belt station.
- One (1) A99-14CRG battery charger shall be supplied for the recharging of the battery packs for the driver's and officer's wireless headsets.
- Four (4) H3442 Under-The-Helmet Headset shall be supplied for the crew members. The mic has "ON-OFF" button. When "ON" the mic is always live for intercom communication.

Note: Wired positions to be for the officers seat and the rear rear seating positions.

Note: Department will be responsible for interfacing the intercom system with their communication radio system.

One (1)  
52-20-1100

## **REFRIGERATOR**

One (1) 3.0 cubic foot Nova Kool compact AC/DC Refrigerator Only shall be provided and installed. The unit shall be secured within the apparatus for highway travel. The refrigerator shall be powered by a combination 12 volt or 24 volt or 120 volt system, which shall operate from the generator or shore power receptacle. The refrigerator shall be equipped with a convenient, adjustable temperature control. A full-width freezer compartment and a reversible black door with adjustable tall container storage. The unit shall be approximately 28-3/8" high by 16-3/4" wide by 18-1/2" deep.

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One (1)  
53-01-1200

## **MARKER LIGHTS**

LED marker lights shall be installed on the vehicle in conformance to the Department of Transportation requirements.

One (1)  
53-02-1200

## **LICENSE PLATE BRACKET**

One (1) stainless steel license plate bracket shall be provided at the rear of the apparatus. The bracket shall have a LED light.

One (1)  
53-03-2600

## **TAIL LIGHTS**

One (1) pair of Whelen 60BTT LED tail/brake lights shall be provided on the rear of the apparatus. The rectangular lights shall be 4" x 6" LED with a red lens.

One (1)  
53-04-2600

## **TURN SIGNALS**

One (1) pair of Whelen, 60A00TAR turn signals with populated arrow shape shall be provided. The rectangular LED lights shall be 4" x 6" in dimension and shall have an amber lens.

One (1)  
53-06-3500

## **BACKUP LIGHTS**

One (1) pair of Whelen LED backup lights shall be installed on the rear of the apparatus body. The dimensions shall be 4" x 6" and the lens color shall be clear.

One (1)  
53-07-1400

## **TAIL LIGHT FLANGES**

Individual chrome tail light flanges shall be supplied for mounting the rear stop, turn signal, and back-up lights located at the lower rear corners of the body on each side.

One (1)  
53-05-1802

## **MID BODY LED TURN SIGNALS**

One (1) pair of TechNiq S17 amber mid body LED marker / turn signals shall be provided. The location of the turn lights shall be at mid-body near the rear wheel axle.

One (1)  
54-03-1280

## **PUMP PANEL GROUND LIGHTS**

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Two (2) TecNiq LED #LED E10 ground lights shall be installed under the pump panel running boards. One (1) light shall be located on the driver's side and one (1) light located on the officer's side of the apparatus.

One (1)  
54-03-1680

## **REAR STEP GROUND LIGHTS**

Two (2) TecNiq LED #LED E10 ground lights shall be installed under the rear step. One (1) light shall be located on the driver's side and one (1) light located on the officer's side of the apparatus.

One (1)  
54-04-1999

The ground lights shall automatically activate when the parking brake is applied.

Two (2)  
54-10-1450

## **REAR TAILBOARD LIGHTS**

Two (2) LED step lights with clear lens shall be installed to illuminate the step surfaces at the rear of the apparatus body.

One (1)  
54-11-2100

The step/walkway light switch shall be installed and wired to the parking brake.

One (1)  
54-12-1918

## **DECK LIGHTS - REAR**

The deck lights shall be installed at the rear of the hose bed.

One (1)  
54-12-1320

One (1) 12 volt Code 3 Model CW2450 spotlight and one (1) 12 volt Code 3 Model CW2451 floodlight, each with nine (9) LED's, shall be installed. The lights shall have an "on-off" switch, handle and swivel base.

One (1)  
54-12-3010

A deck light switch shall be installed and wired to the parking brake.

Seven (7)  
54-15-1380

## **SCENE LIGHT**

Seven (7) Whelen Series 900 LED 8" x 10" scene light shall be installed.

One (1)  
54-15-5100

## **SCENE LIGHT LOCATION**

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One (1)  
54-15-5200

One (1) scene light shall be located on the left side of the cab.

## SCENE LIGHT LOCATION

Two (2)  
54-15-5500

One (1) scene light shall be located on the right side of the cab.

## SCENE LIGHT LOCATION

Two (2)  
54-15-5600

Two (2) scene light shall be located on the left side of the apparatus body.

## SCENE LIGHT LOCATION

One (1)  
54-15-5700

Two (2) scene light shall be located on the right side of the apparatus body.

## SCENE LIGHT LOCATION

One (1)  
54-15-6400

One (1) scene light shall be located on the rear of the apparatus body.

## SCENE LIGHT SWITCHING

One (1)  
54-15-6500

One (1) scene light switch with indicator shall be installed on the cab main switch panel to control the left side scene light(s). The switch shall be labeled "LEFT SCENE".

## SCENE LIGHT SWITCHING

One (1)  
54-15-6600

One (1) scene light switch with indicator shall be installed on the cab main switch panel to control the right side scene light(s). The switch shall be labeled "RIGHT SCENE".

## SCENE LIGHT SWITCHING

One (1)  
54-15-6700

One (1) scene light switch with indicator shall be installed on the cab main switch panel to control the rear scene light(s). The switch shall be labeled "REAR SCENE".

## SCENE LIGHT SWITCHING

One (1)

The rear scene lights shall activate automatically upon placing the transmission into reverse.

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58-91-1700

## **TRAFFIC ARROW LIGHT**

One (1) Whelen Model #TAL85 Traffic Advisor shall be installed. The light shall be equipped with eight (8) LED lights measuring 46" in length. The unit shall be mounted at the rear of the apparatus body. The Traffic Advisor control head shall be mounted inside the cab and be accessible by the driver and officer.

One (1)  
58-95-1500

The traffic arrow light shall be surface mounted at the rear of the apparatus body and shall have a fabricated aluminum guard protecting the light unit.

One (1)  
10-02-1100

## **FLUID DATA PLAQUE**

One (1) fluid data plaque containing required information shall be provided based on the applicable components for this apparatus, compliant with NFPA Standards:

- Engine oil
- Engine coolant
- Chassis transmission fluid
- Drive axle lubricant
- Power steering fluid
- Pump transmission lubrication fluid
- Other NFPA applicable fluid levels or data as required

Location shall be in the driver's compartment or on driver's door.

One (1)  
10-02-1200

## **DATA & WARNING LABELS**

### **HEIGHT LENGTH & WEIGHT**

A highly visible label indicating the overall height, length, and weight of the vehicle shall be installed in the cab dash area.

One (1)  
10-02-1300

### **NO RIDE LABEL**

One (1) "NO RIDERS" label shall be applied on the vehicle at the rear step area or other applicable areas. The label shall warn personnel that riding in or on these areas, while the vehicle is in motion is prohibited.

One (1)  
10-02-2100

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## CAB SEATING POSITION LIMITS

One (1) label shall be installed in the cab to indicate seating positions for firefighters. A weight allowance of 250 pounds for each shall be factored into the gross vehicle weight rating of the chassis.

One (1)  
10-02-2500

## HELMET WARNING TAG

One (1) label shall be installed in the cab, visible from each seating position. The label shall read "CAUTION: DO NOT WEAR HELMET WHILE SEATED." Helmets must be properly stowed while the vehicle is in motion according to the current edition of NFPA 1901.

One (1)  
10-03-6000

## REAR TOWING PROVISIONS

There shall be two tow eyes furnished under the rear of the body and attached directly to the chassis frame rails. There shall be a reinforcement spreader bar connecting the two tow eyes. Tow eyes are to be constructed of 3/8" plate steel with a 4" I.D. hole, large enough for passing through a tow chain end hook.

One (1)  
10-43-2400

The tow plates shall be painted black.

One (1)  
10-05-4324

## BUMPER

The chassis shall feature a heavy duty bumper constructed from ASTM A36, 1/4" thick steel and painted primary job color. The bumper shall be 12" high by 102" wide with two inch (2") flanges and chamfered corners.

Integral heavy duty steel bumper "wings" shall extend from the bumper to the cab.

The bumper shall be mounted to a twenty-four inch (24") long chassis frame extension.

A contoured apron / gravel shield fabricated from NFPA compliant, slip-resistant polished aluminum shall enclose the area between the bumper and the cab.

One (1)  
10-04-2720

## FRONT BUMPER COMPARTMENT

One (1) recessed fire hose compartment constructed from smooth aluminum shall be installed in the center of the front bumper extension. Water drain holes shall be drilled in the bottom.

One (1)



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10-04-3160

## **BUMPER COMPARTMENT DOOR**

One (1) raised aluminum tread plate door for the front bumper compartment shall be supplied. The door shall have a minimum 1" lips on all sides surrounding the entire compartment opening, a stainless steel hinge at the rear and a latch to secure the compartment.

One (1)

10-04-3200

## **BUMPER COMPARTMENT LIGHT**

One (1) compartment light(s) shall be provided to illuminate the front bumper compartment(s). The light shall activate automatically when the compartment door is opened. The light switch shall activate the "Do Not Move Apparatus" warning light in the cab indicating that the bumper compartment door is not secure.

One (1)

10-04-3460

## **BUMPER COMPARTMENT DOOR SHOCK**

A gas shock shall be supplied to hold the front bumper compartment door in the open position.

One (1)

10-04-3190

## **HOSEWELL DIVIDER**

The hosewell shall be provided with a bolt-in cross divider. Forward of this divider will be storage area for 25' of 4" pre-connected soft suction hose. Rearward of this divider will be storage area for 100' of 1-3/4" preconnected discharge hose.

One (1)

10-05-9120

## **TOW HOOKS**

Two (2) tow hooks shall be mounted to the bumper extension under the bumper towards the forward section of the extension. The tow hooks shall be steel and shall be painted black.

One (1)

10-06-1110

## **HUB AND LUG NUT COVERS**

The apparatus shall have chrome or stainless steel hub and lug nut covers on the front and single rear axles.

One (1)

10-06-1602

## **TIRE PRESSURE INDICATOR**

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There shall be a tire pressure indicator, p/n RWTG1235, at each tire's valve stem on the vehicle that shall indicate if there is insufficient pressure in the specific tire.

One (1)  
10-07-1500

## **EXHAUST HEAT SHIELD**

A heat shield shall be installed under the body in the areas where the exhaust system is routed.

One (1)  
10-08-2100

## **REAR MUD FLAPS**

One (1) pair of black mud flaps shall be installed behind the rear wheels.

One (1)  
10-19-3010

## **AIR SHORELINE EJECT**

One (1) Kussmaul automatic "Air Eject", part number 091-28, shall be provided for connection to an external air source to maintain the pressure in the chassis air brake system. The unit shall automatically activate when the engine is started, disconnecting the airline from the vehicle.

The Kussmaul automatic "Air Eject" shall be located in the driver's side step or door area.

One (1)  
20-02-2200

## **DARLEY PSM SINGLE STAGE PUMP**

A Darley model PSM single stage split-drive shaft driven fire pump shall be provided and installed.

The pump shall be midship mounted and designed to operate through an integral transmission, including a means for power selectivity to the driving axle or to the pump. The pump shall be driven by a driveline from the chassis transmission. The engine, transmission and driveline components shall provide sufficient horsepower and RPM to enable the pump to meet and exceed its rated performance.

The pump shall contain a cored heating jacket feature that, if selected, can be connected into the vehicle antifreeze system to protect the pump from freezing in cold climates, and to help reject engine heat from engine coolant, providing longer life for the engine.

## **PUMP SHAFT**

The pump shaft shall be precision ground stainless steel with long wearing Chromium Oxide hard coating under the packing glands with a hardness level of Rockwell C72. The shaft shall be

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splined to receive broached impeller hubs, for greater resistance to wear, torsion vibration, and torque imposed by engine, as well as ease of maintenance and repair.

The bearings provided shall be heavy duty, deep groove, radial type ball bearings. Sleeve bearings on any portion of the pump or transmission shall be prohibited due to wear, deflection, and alignment concerns. The bearings shall be protected at all openings from road dirt and water splash with oil seals and water slingers.

## IMPELLER

The impeller shall be a high strength bronze alloy of mixed flow design, splined to the pump shaft for precision fit, durability, and ease of maintenance. Impeller shall be vacuum cast designed for maximum lift and highest capacity. The seal rings shall be renewable, double labyrinth, wrap around bronze type.

Impeller shaft oil seals shall be constructed to be free from steel components except for the internal lip spring. The impeller shaft oil seals shall carry a lifetime warranty against damage from corrosion from water and other fire-fighting fluids.

## PUMP TRANSMISSION

The transmission case shall be heavy duty cast iron. A magnetic drain plug shall be provided. Transmission case shall include a dip stick for checking oil level. Transmission case interior shall be powder coated to reduce oil contamination. Transmission case shall be equipped with a removable plate for quick inspection of gears, shafts, and bearings inside the transmission.

The pump drive shaft shall be precision ground, heat treated alloy steel, with a minimum 2-1/2" x 10" spline. The net through-torque rating of the gearbox shall exceed 19,000 foot pounds. Gears shall be helical design, and shall be precision ground for quiet operation and extended life. The gears shall be manufactured from alloy steel and carburized for surface hardness and strength.

The pump clutch gear shall be a heat treated alloy-steel splined spur gear to engage either the pump drive gear or the truck drive shaft gear, and shall have bullet-nosed teeth to reduce the possibility of a butt-tooth condition. The pump clutch gear shall be separate from the main drive gear in order to maintain the greatest precision for driving the pump gear train. The pump transmission shall require no further lubrication beyond that provided by the intrinsic action of the gears, to reduce the likelihood of failure due to loss of auxiliary lubrication.

## DRIVELINE INSTALLATION

The chassis drivelines shall be sized for intended application and torque requirements. The installation shall comply with driveline manufacturer's guidelines.

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## MANUALS

Two (2) manuals covering the fire pump transmission and fire pump shall be provided with the apparatus.

One (1)  
20-02-2130

## 1500 GPM FIRE PUMP SPECIFICATIONS

The centrifugal type fire pump shall be a Darley model PSM midship mounted with a rated capacity of 1500 GPM. The pump shall meet NFPA 1901 requirements.

The pump shall be certified to meet the following deliveries:

1500 GPM @ 150 PSI  
1500 GPM @ 165 PSI  
1050 GPM @ 200 PSI  
750 GPM @ 250 PSI

One (1)  
22-24-1600

## GATED 6" INTAKE -- LEFT SIDE

One (1) 6" gated suction intake shall be installed behind the left side pump panel to supply the fire pump from an external water supply. A manually operated butterfly valve with built in adjustable relief valve shall be provided on the intake. The valve shall be manually operated with a hand wheel control located adjacent to the intake connection.

The intake shall be provided with manual drain valves. An inlet fitting with 6" NST thread shall be provided, complete with a removable strainer screen.

One (1)  
21-01-2500

An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.

One (1)  
22-41-5700

One (1) 6" chrome plated cap shall be provided. The threads shall be NST and the cap shall be equipped long handles.

One (1)  
22-24-3600

## GATED 6" INTAKE -- RIGHT SIDE

One (1) 6" gated suction intake shall be installed behind the right side pump panel to supply the

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fire pump from an external water supply. A manually operated butterfly valve with built in adjustable relief valve shall be provided on the intake. The valve shall be manually operated with a hand wheel control located adjacent to the intake connection.

The intake shall be provided with manual drain valves. An inlet fitting with 6" NST thread shall be provided, complete with a removable strainer screen.

One (1)  
21-01-2500

An Innovative Controls 3/4" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.

One (1)  
22-41-5700

One (1) 6" chrome plated cap shall be provided. The threads shall be NST and the cap shall be equipped long handles.

One (1)  
20-05-2400

## **MECHANICAL SEAL SPECIFICATIONS**

The mechanical seal shall be formed from silicon carbide with welded springs. The stationary face of the mechanical seals shall be made from silicon carbide, an extremely hard and heat dissipative material, which resists wear and dry running damage.

One (1)  
20-05-3100

## **ELECTRIC/PNEUMATIC PUMP SHIFT SPECIFICATIONS**

An air powered pump shift shall be installed in the cab driver's area where not subject to accidental engagement. The pump shift shall be air operated and shall incorporate an air cylinder with an electric actuated switch to shift from road to pump and back. The apparatus pump shift shall be engaged only when apparatus is in a stationary position and the parking brake is engaged.

The following indicator lights shall be included with pump shift.

1. A green indicator light, labeled "PUMP ENGAGED" shall indicate pump shift has successfully been completed.
2. A green indicator light, labeled "OK TO PUMP" shall indicate the chassis transmission is in pump gear and parking brake is engaged.
3. Pump shift and interlocks shall comply with applicable sections of NFPA standards.



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4. The pump shift shall have an instruction label and nameplate to indicate function and proper operation.

One (1)  
20-29-1200

## **TRIDENT PRIMER – AUTOMATIC**

An automatic fire pump priming system shall be provided and installed. The system shall be oil-less type and environmentally safe. Once engaged, the system shall be fully automatic and not require any action from the pump operator/engineer when pump draft is lost. This feature provides an additional safety margin by maintaining pump flow from the available water source automatically during drafting operations. When air is introduced during a drafting operation from conditions such as whirlpools or turbulence from porta-tank refill operations, the priming system shall automatically engage to remove the air and stabilize water flow and pump pressure. For additional safety, the entire system shall operate at less than 70dBA of ambient noise.

The priming system shall engage automatically whenever the pump discharge falls below five (5) psi and shall remain engaged until a pump prime has been achieved. The priming system shall automatically disengage when a positive pump discharge pressure has been established. The electrical current draw from the chassis batteries shall not exceed four (4) amps at any given time of operation and allow for unlimited run time without causing an overheat condition for of any of the system components.

A single engagement switch shall be provided on the pump control panel that will allow the operator to engage the automatic pump priming system. There shall be a light provided on the pump control panel to indicate when the system is engaged. The pump shall be capable of taking suction and discharging water with a lift of 10 feet in not more than 30 seconds with the pump dry, through 20 feet of suction hose of appropriate size. The priming system shall comply with applicable sections of NFPA standards.

One (1)  
20-29-1252

## **PRIMER CONTROL**

A manual push button shall be provided on the pump operator's panel, for the manually priming the main pump.

One (1)  
27-10-3100

## **PRESSURE GOVERNOR AND MONITORING DISPLAY**

One (1) Fire Research PumpBoss model PBA400-A00 pressure governor and monitoring display kit shall be provided on the pump panel. The kit shall include a control module, pressure sensor, and cables. The control module case shall be waterproof and have dimensions not to exceed 6

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3/4" high by 4 5/8" wide by 1 3/4" deep. Inputs for monitored information shall be from a J1939 databus or independent sensors. Outputs for engine control shall be on the J1939 databus or engine specific wiring.

The following continuous displays shall be provided:

- CHECK ENGINE and STOP ENGINE warning LEDs
- Engine RPM; shown with four daylight bright LED digits more than 1/2" high
- Engine OIL PRESSURE; shown on an LED bar graph display in 10 psi increments
- Engine TEMPERATURE; shown on an LED bar graph display in 10 degree increments
- BATTERY VOLTAGE; shown on an LED bar graph display in 0.5 volt increments
- PSI / RPM setting; shown on a dot matrix message display
- PSI and RPM mode LEDs
- THROTTLE READY LED.

A dot-matrix message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. The brightness of the displays shall be automatically adjusted for day or night viewing.

The program shall store the accumulated operating hours for the pump and engine, previous incident hours, and current incident hours in a non-volatile memory. Stored elapsed hours shall be displayed at the push of a button. It shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High Engine RPM
- Pump Overheat
- High Transmission Temperature
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)
- High Battery Voltage
- Low Engine Oil Pressure
- High Engine Coolant Temperature

The governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A control knob that uses optical technology shall adjust pressure or RPM settings. It shall be 2" in diameter with no mechanical stops, a serrated grip, and have a red idle push button in the center.

A throttle ready LED shall light when the interlock signal is recognized. The governor shall start in pressure mode and set the engine RPM to idle. In pressure mode the governor shall automatically regulate the discharge pressure at the level set by the operator. In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a

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discharge pressure increase. The governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 psi. Other safety features shall include recognition of no water conditions with an automatic programmed response and a push button to return the engine to idle.

One (1)  
21-00-2000

## **PUMP ANODES**

There shall be sacrificial, zinc anodes in the pump steamer ports which shall protect the pump and piping from electrolysis. These anodes shall also act as screens.

One (1)  
21-00-3300

## **PUMP PLUMBING SYSTEM**

The fire pump plumbing system shall be of rigid stainless steel pipe or flexible piping with stainless steel fittings. Mechanical grooved couplings shall be installed to permit flexing of the plumbing system and allow for quick removal of piping or valves for service. Flexible hose couplings shall be threaded stainless steel or mechanical grooved coupling connections.

The fire pump and plumbing shall be hydrostatically tested in compliance to applicable sections of NFPA standards. The test results shall be included in the delivery documentation.

One (1)  
21-01-0200

## **FIRE PUMP MASTER DRAIN**

The fire pump plumbing system and fire pump shall be piped to a single push-pull type master pump drain assembly.

## **ADDITIONAL LOW POINT DRAINS**

The plumbing system shall be equipped with additional low point manually operated drain valves to allow total draining of the fire pump plumbing system. These valves shall be accessible from the side of the vehicle and labeled.

One (1)  
21-01-5500

## **STAINLESS STEEL INTAKE MANIFOLD**

The suction manifold assembly shall be fabricated with Schedule #10 type 304 stainless steel. All threaded fittings shall be a minimum of Schedule 10 stainless steel. The suction manifold assembly shall have radiused sweep elbows to minimize water turbulence into the suction volute. The suction manifold shall be welded and pressure tested prior to installation. The stainless steel manifold assembly shall be attached to the pump intake volute with a heavy-duty, flexible Victaulic coupling.

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The stainless steel manifold assembly shall have a ten (10) year warranty.

One (1)  
21-01-6500

## **STAINLESS STEEL DISCHARGE MANIFOLD**

The discharge manifold assembly shall be fabricated with minimum of Schedule #10 Type 304 stainless steel. All threaded fittings shall be a minimum of Schedule #40 stainless steel. The discharge manifold assembly shall have radiused sweep elbows to minimize water turbulence. The manifold shall be welded and pressure tested prior to installation. The stainless steel manifold inlet shall be attached to the pump discharge and have additional brackets as required to support the discharge manifold, valves and related components.

The stainless steel manifold assembly shall have a ten (10) year warranty.

One (1)  
21-01-7100

## **FIRE PUMP & PLUMBING SYSTEM PAINTING**

The fire pump and plumbing system shall be painted by the fire apparatus manufacturer. The fire pump and the plumbing shall be painted metallic silver.

One (1)  
21-01-8100

## **HOSE THREADS**

The hose threads shall be National Standard Thread (NST) on all base threads on the apparatus intakes and discharges.

One (1)  
22-51-5210

## **WATER TANK TO PUMP LINE**

One (1) 3" water tank to the rear mounted fire pump line shall be provided with a full flow quarter turn ball valve, 4" piping, and with flex hose and stainless steel hose clamps. The tank to pump line shall be equipped with a check valve to prevent pressurization of the water tank.

The line shall be flow tested during the fire pump testing and shall meet applicable requirements of NFPA standards.

One (1)  
22-50-0100

The tank to pump valve shall be controlled at the pump operator's panel.

One (1)  
24-62-1300

The valve shall be an Akron 8000 Series three-inch (3") valve with a stainless ball.

One (1)  
22-55-4012

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One (1) Akron valve equipped with a manually operated pull rod, with quarter-turn locking feature shall be provided on the intake. The handle shall be equipped with a color-coded name plate.

One (1)  
23-02-1300

## **FIRE PUMP TO WATER TANK FILL LINE**

One (1) 2" fire pump to water tank refill and pump bypass cooler line shall be provided. The valve shall be a full flow quarter turn ball valve with 2" piping and flex hose to tank. The valve control handle shall have a nameplate located near the valve control.

One (1)  
24-62-1200

The valve shall be an Akron 8000 Series two-inch (2") valve with a stainless ball.

One (1)  
22-55-4012

One (1) Akron valve equipped with a manually operated pull rod, with quarter-turn locking feature shall be provided on the intake. The handle shall be equipped with a color-coded name plate.

One (1)  
20-30-3100

## **FIRE PUMP SPLIT SHAFT DRIVESHAFTS AND INSTALLATION**

The mid-ship split shaft fire pump shall be installed and shall include installation of the fire pump, modification and/or fabrication of new drivelines and all pump-mounting brackets. The drive shaft(s) shall be spin balanced prior to final installation.

One (1)  
20-31-3600

## **INTAKE RELIEF/DUMP VALVE**

One (1) TFT A18 series, 2-1/2" intake relief/dump valve preset at 125 psi shall be permanently installed on the suction side of the fire pump. The valve shall have an adjustment range of 75 psi to 250 psi, and shall be designed to automatically self-restore to a non-relieving position when excessive pressure is no longer present.

Discharge side of the intake relief valve shall be plumbed away from the pump operator.

One (1)  
20-31-4100

## **FIRE PUMP COOLING**

The fire pump shall be equipped with 3/8" cooling line from the pump to the water tank. This re-circulation line shall be controlled by a pump panel control valve with nameplate label noting it as the "fire pump bypass cooler". There shall be a check valve installed in the pump cooler line to prevent tank water from back flowing into the pump when it is not in use.

One (1)



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20-31-5100

## **CHASSIS ENGINE HEAT EXCHANGER COOLING SYSTEM**

The apparatus shall be equipped with a heat exchanger for supplementary chassis engine cooling during fire pump operations. A manually opened valve, mounted at the operator's panel, shall direct water from the fire pump to the heat exchanger that is mounted in the engine radiator cooling hose. The system shall provide cooling water from the fire pump to circulate around the engine radiator coolant without mixing or coming in direct contact with the engine coolant.

A nameplate label shall be installed on the pump panel noting "engine cooling system" with "on-off" opening directions noted.

One (1)  
20-31-1100

## **UNDERWRITERS LABORATORIES FIRE PUMP TEST**

The pump shall undergo an Underwriters Laboratories Incorporated test per applicable sections of NFPA standards, prior to delivery of the completed apparatus.

The UL acceptance certificate shall be furnished with the apparatus on delivery.

One (1)  
20-31-1500

## **FIRE PUMP TEST LABEL**

A fire pump performance and rating label shall be installed on the fire apparatus pump panel. The label shall denote levels of pump performance and testing completed at factory. These shall include GPM at net pump pressure, RPM at such level, and other pertinent data as required by applicable NFPA standards. In addition, the pressure control device, tank to pump flow tests, and other required testing shall be completed.

In addition, the entire pump, suction and discharge passages shall be hydrostatically tested to a pressure as required by applicable NFPA standards. The pump shall be fully tested at the pump manufacturer's factory to the performance specifications as outlined by applicable NFPA standards. Pump shall be free from objectionable pulsation and vibration.

If applicable, the fire pump shall be tested and rated as follows:

- 100% of rated capacity at 150 pounds net pressure.
- 70% of rated capacity at 200 pounds net pressure.
- 50% of rated capacity at 250 pounds net pressure.
- 100% or rated capacity at 165 pounds net pressure.

One (1)  
22-23-1200

## **GATED 6" INTAKE -- FRONT RIGHT BUMPER**

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One (1) front right side bumper gated suction intake with 5" piping shall be provided. Intake pipe shall be provided with drain valves mounted at all low points of plumbing.

Intake shall be gated with an air operated 5" butterfly valve, with control at the pump operator's panel. The valve operating mechanism shall prevent movement of the valve from the fully closed position to the fully open position or vice versa, in less than three seconds. The valve control shall have a colored identification label.

A pressure dump/relief valve shall be included that is factory preset at 125 PSI and field adjustable from 75 to 250 PSI. The pressure dump/relief valve shall provide over-pressure protection for the suction hose even when the intake valve is closed. The outlet of the dump/relief valve shall be 2.5" in diameter to allow directing the discharge flow away from the pump operator's position.

An inlet fitting with 5" IPT x 6" NST thread shall be provided, complete with a removable strainer screen. The front intake plumbing shall be bolted to the pump and be assembled with Victaulic type couplings.

One (1)  
21-01-2500

An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.

One (1)  
22-23-2600

## **FRONT RIGHT SIDE INTAKE -- VERTICAL ABOVE BUMPER**

The front suction 5" piping shall extend vertical, then straight-forward above the bumper level. The piping shall be Schedule 40 steel with Victaulic couplings installed.

One (1)  
22-40-1400

## **90 DEGREE SWIVEL 6" ELBOW**

The front intake shall be equipped with a 6" chrome plated swivel elbow, Trident #01.013.0. The unit shall be equipped with 5" NPT female thread x 6" NST male thread.

One (1)  
22-41-5700

One (1) 6" chrome plated cap shall be provided. The threads shall be NST and the cap shall be equipped long handles.

One (1)  
22-12-1100

## **LEFT SIDE -- 2-1/2" GATED INTAKE**

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One (1) 2-1/2" gated suction intake shall be installed on left side pump panel to supply the fire pump from an external water supply. The control valve shall be a quarter turn ball valve and shall have 2-1/2" NST female thread of chrome plated brass.

The intake shall be equipped with a 3/4" drain and bleeder valve. A nameplate label and removable screen shall be installed.

One (1)  
21-01-2502

An Innovative Controls 3/4" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift to open and push down to close.

One (1)  
22-41-1100

One (1) 2-1/2" chrome plated plug shall be provided. The threads shall be NST and the plug shall be equipped rocker lugs and chain or cable securement.

One (1)  
24-62-1250

The valve shall be an Akron 8000 Series two and one half-inch (2-1/2") valve with a stainless ball.

One (1)  
22-55-4050

The valve shall be equipped with one (1) manually operated, swing-type manual control located adjacent the intake. The valve shall be equipped with a color-coded name plate.

One (1)  
22-12-3100

## **RIGHT SIDE -- 2-1/2" GATED INTAKE**

One (1) 2-1/2" gated suction intake shall be installed on right side pump panel to supply the fire pump from an external water supply. The control valve shall be a quarter turn ball valve and shall have 2-1/2" NST female thread of chrome plated brass.

The intake shall be equipped with a 3/4" drain and bleeder valve. A nameplate and removable screen shall be installed.

One (1)  
21-01-2502

An Innovative Controls 3/4" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift to open and push down to close.

One (1)

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22-41-1100

One (1) 2-1/2" chrome plated plug shall be provided. The threads shall be NST and the plug shall be equipped rocker lugs and chain or cable securement.

One (1)

24-62-1250

The valve shall be an Akron 8000 Series two and one half-inch (2-1/2") valve with a stainless ball.

One (1)

22-55-4050

The valve shall be equipped with one (1) manually operated, swing-type manual control located adjacent the intake. The valve shall be equipped with a color-coded name plate.

One (1)

23-05-3200

## **2" DISCHARGE FRONT CENTER BUMPER**

One (1) 2" discharge shall be installed at front center bumper area with brass swivel outlet with 1-1/2" NST male threads. The valve control shall be on pump panel and a nameplate label provided at valve control area.

The plumbing shall be flexible hose with abrasion resistant support mountings. Auxiliary low point drains shall be provided on the discharge line.

One (1)

21-01-2200

A Class 1 automatic type 3/4" bleeder valve shall be installed.

One (1)

23-05-9100

The hose connection for the front discharge shall be swivel type located inside the front bumper hosewell.

One (1)

24-61-1200

The specified valve shall be an Akron 8000 Series two-inch (2") valve with a stainless ball.

One (1)

24-53-0020

For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed color-coded label.

One (1)

27-02-1500

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One (1) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

One (1)  
23-08-1200

## **TWO (2) 1-1/2" SPEEDLAY DISCHARGES**

Two (2) 1-3/4" pre-connect hose speedlays shall be installed ahead of the front of body or pump enclosure, controlled with quarter turn 2" diameter ball valves. The outlets shall be equipped 2" NPT female swivel x 1-1/2" male NST hose threads.

The hosebed decking shall be constructed with slots integrated into the hosebed floor.

The hose bed shall provide a minimum capacity of 200 feet of 1-3/4" diameter double jacket hose with hose and nozzle provided by fire department.

Note: Locate in pump compartment, behind the roll-up door.

Two (2)  
21-01-2202

A Class 1 automatic type 3/4" bleeder valve shall be installed.

Two (2)  
24-61-1200

The specified valve shall be an Akron 8000 Series two-inch (2") valve with a stainless ball.

Two (2)  
24-53-0020

For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed color-coded label.

Two (2)  
27-02-1500

Two (2) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

One (1)  
23-08-2100

## **2-1/2" SPEEDLAY DISCHARGE**



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One (1) 2-1/2" pre-connect hose speedlay shall be installed ahead of the front of body or pump enclosure, controlled with quarter turn 2-1/2" diameter ball valve. The outlet shall be equipped 2-1/2" NPT female swivel x 2-1/2" male NST hose threads.

The hosebed decking shall be constructed with slots integrated into the hosebed floor.

The hosebed shall provide a minimum capacity of 150 feet of 2-1/2" diameter double jacket hose with hose and nozzle provided by fire department.

Note: Locate in pump compartment, behind the roll-up door.

One (1)  
21-01-2202

A Class 1 automatic type 3/4" bleeder valve shall be installed.

One (1)  
24-61-1250

The specified valve shall be an Akron 8000 Series two and one half-inch (2-1/2") valve with a stainless ball.

One (1)  
24-53-0020

For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed color-coded label.

One (1)  
27-02-1500

One (1) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

One (1)  
23-08-4630

## **SPEEDLAY HOSE BED TRIM**

The pre-connect speedlay hosebed shall be equipped with anodized aluminum angles, on each end of the hosebed.

Two (2)  
23-08-8200

## **REMOVABLE TRAY FOR PRE-CONNECTED HOSE BEDS**

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The 2-1/2" pre-connect hosebed(s) shall be equipped with a "U" shaped aluminum hose tray. The unit shall be equipped with pull out hand holes and retaining devices to secure the tray, nozzle, and hose in transit.

Four (4)  
23-08-8100

## **REMOVABLE TRAY FOR PRE-CONNECTED HOSE BEDS**

The 1-3/4" pre-connect hosebed(s) shall be equipped with a "U" shaped aluminum hose tray. The unit shall be equipped with pull out hand holes and retaining devices to secure the tray, nozzle, and hose in transit.

Two (2)  
23-09-4100

## **LEFT SIDE PUMP PANEL -- 2-1/2" DISCHARGE**

Two (2) 2-1/2" discharge shall be installed on the left side pump panel area and shall be controlled by a quarter turn ball valve. The discharge shall have 2-1/2" NST male hose threads. A color coded nameplate label shall be provided adjacent the control handle.

Two (2)  
21-01-2502

An Innovative Controls 3/4" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift to open and push down to close.

Two (2)  
24-02-1200

Two (2) chrome plated elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" NST male hose threads.

Two (2)  
24-03-1400

Two (2) 2-1/2" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.

Two (2)  
24-61-1250

The specified valve shall be an Akron 8000 Series two and one half-inch (2-1/2") valve with a stainless ball.

Two (2)  
24-53-0020

For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

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The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed color-coded label.

Two (2)  
27-02-1500

Two (2) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

One (1)  
23-10-4100

## **RIGHT SIDE PUMP PANEL -- 2-1/2" DISCHARGE**

One (1) 2-1/2" discharge shall be installed on the right side pump panel area and shall be controlled by a quarter turn ball valve. The discharge shall have 2-1/2" NST male hose threads. A color coded nameplate label shall be provided adjacent the control handle.

One (1)  
21-01-2502

An Innovative Controls 3/4" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift to open and push down to close.

One (1)  
24-02-1200

One (1) chrome plated elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" NST male hose threads.

One (1)  
24-03-1400

One (1) 2-1/2" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.

One (1)  
24-61-1250

The specified valve shall be an Akron 8000 Series two and one half-inch (2-1/2") valve with a stainless ball.

One (1)  
24-53-0020

For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with

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recessed color-coded label.

One (1)  
27-02-1500

One (1) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

One (1)  
23-10-6100

## **RIGHT SIDE PUMP PANEL -- 4" DISCHARGE**

One (1) 4" discharge shall be installed on the right side pump panel area and shall be controlled by a full flow 4" slow-close quarter turn ball valve. The discharge shall have 4" NST male hose threads. A color coded nameplate label shall be provided adjacent the control handle.

One (1)  
21-01-2502

An Innovative Controls 3/4" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift to open and push down to close.

One (1)  
4-02-2300

One (1) lightweight aluminum elbow with 30 degree slant shall be provided. Threads shall be 4" Storz with lugs and manual locks x 4" female swivel NST with rocker lugs.

One (1)  
24-03-2100

One (1) 4" lightweight aluminum Storz cap with cable or chain securement shall be provided.

One (1)  
24-61-1400

The specified valve shall be an Akron 8000 Series four-inch (4") valve.

One (1)  
24-53-1300

One (1) Akron valve equipped with an Akron manually operated hand wheel control with dial type position indicator shall be provided on the specified 4" discharge. A color-coded name plate installed over the valve control.

One (1)  
27-02-1500

One (1) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

One (1)  
23-13-3100

## **REAR LEFT SIDE -- 2-1/2" DISCHARGE**

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One (1) 2-1/2" discharge shall be installed on the left side rear panel of the apparatus body and shall be controlled by a quarter turn ball valve on the pump panel. The discharge shall have 2-1/2" NPT x 2-1/2" NST male hose threads. The outlet shall be equipped with an engraved nameplate label shall be installed adjacent the valve control handle.

One (1)  
21-01-2502

An Innovative Controls 3/4" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift to open and push down to close.

One (1)  
24-02-1200

One (1) chrome plated elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" NST male hose threads.

One (1)  
24-03-1400

One (1) 2-1/2" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.

One (1)  
24-61-1250

The specified valve shall be an Akron 8000 Series two and one half-inch (2-1/2") valve with a stainless ball.

One (1)  
24-53-0020

For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed color-coded label.

One (1)  
27-02-1500

One (1) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

One (1)  
24-11-3200

## **3" MONITOR DISCHARGE**

One (1) 3" discharge shall be piped to the area over the pump enclosure with 3" NPT male



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threads provided. The pipe shall be equipped with Victaulic couplings (if necessary) and shall be properly secured to prevent movement when a monitor or deck gun is attached. The quarter turn ball valve shall be controlled on pump panel.

A color coded nameplate label shall be provided adjacent the valve control handle.

One (1)  
21-01-2500

An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.

One (1)  
24-61-1300

The specified valve shall be an Akron 8000 Series three-inch (3") valve with a stainless ball.

One (1)  
24-53-0300

One (1) Akron valve equipped with a manually operated pull rod, with quarter-turn locking feature and a manual slow-close device shall be provided on the specified discharge. The handle shall be equipped with color-coded name plate.

One (1)  
27-02-1500

One (1) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

One (1)  
24-17-1200

## **1250 GPM REMOTE CONTROLLED MONITOR**

One (1) Task Force Tips Hurricane RC, model # XFIH-EL1A remote controlled monitor shall be provided. The monitor shall be controlled by a monitor mounted switch panel with functions that control rotation, elevation and nozzle patterns. A Y4E-RP panel mount control shall be supplied for the pump operator's panel.

The monitor shall have the following travel capabilities:

- Full horizontal rotation with travel 225 degrees left and right of center
- A full 180 degrees of vertical travel with stops at straight up and straight down
- Field changeable rotation stops shall be provided at 45, 90 and 135 degrees left and right of center
- Flow capability of 1250 GPM
- Maximum operating pressure of 200 PSI

The electrical controls for the monitor shall be waterproof and utilize current limiting and position encoders to protect the drive train at the ends of travel. Thirty feet of ultra flex robotic

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power cable shall be pre-wired to the monitor and include a unique cable guide for the motors. An electrical connection for a TFT remote control nozzle shall be provided. The monitor shall be equipped with large manual override handles for use in the event of power failure.

For resistance to corrosion the monitor shall be constructed from hardcoat anodized aluminum with a silver powder coat interior and exterior finish. A built in automatic drain designed to protect the monitor from freezing and a threaded port for an optional pressure gauge shall be provided.

The monitor shall be configured with a TFT Code RLF inlet and 2-1/2" male NH outlet.

One (1)  
24-17-1610

## **PANEL MOUNT MONITOR OPERATOR STATION**

Task Force Tips model # Y4E-RP panel mount operator station for Monsoon, Hurricane, Typhoon, and Tornado series remote control monitors shall be installed. The operator station shall be designed for flush panel mounting from front of panel using 4 fasteners. The unit shall have membrane switches to control horizontal rotation, vertical elevation and nozzle stream pattern, oscillate and park, auxiliary 1 and auxiliary 2. The control station shall be capable of connection of control circuits from other control devices. The interface accepts 12 or 24 volt DC positive signals, and is field changeable to accept ground inputs. The control station shall also include a circuit board to communicate with the Task Force Tips remote control monitor. Internally mounted switches shall be included for the ability to choose which control station shall be dominant. Relay connections for "At Park" indication shall be provided.

Installation location: Manufacturer's Recommendation

One (1)  
24-18-7100

## **STACKED TIPS**

One (1) Task Force Tips model #MST-4NJ smooth bore stacked tip set, with stream shaper #AT-XF-SS05, shall be provided. For corrosion resistance the tip set shall be constructed from hardcoat anodized aluminum alloy. The set shall consist of four (4) tips with the base tip having a 2-1/2" female NH swivel inlet and 2" outlet. The other tip sizes shall be 1-3/4", 1-1/2" and 1-3/8". Each tip shall be laser engraved with a flow/pressure chart, orifice size, and thread size.

One (1)  
24-18-8400

## **REMOTE CONTROL TELESCOPING MONITOR PIPE**

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Task Force Tips model # XGA38VL-RL 3" electrically telescoping waterway shall be installed. The waterway shall be capable of being lowered to deck level (or into a monitor well) for storage and transportation and shall be capable of being raised to an extended height of 18" using panel mounted switches. These switches shall control a 12 volt motor and be capable of moving the waterway in either the raised or lowered position while maintaining the ability to horizontally rotate the monitor device 360 degrees. The motor shall be weatherproof in design and have an accessible manual override control for use in the event power failure occurs.

A sensor shall be located on the waterway that signals a 12 volt indicator light installed in the cab to illuminate to indicate that the monitor is raised.

The aluminum riser shall have a 3" waterway; hardcoat anodized finish and be furnished with a 3" Victaulic inlet coupling and a TFT Code RLM male connection for a TFT remote control monitor with TFT Code RLF female inlet.

One (1)  
24-30-3100

## **ELECTRIC REWIND HOSE REEL**

One (1) Hannay painted steel hose reel with leak proof ball bearing swing joint, adjustable friction brake, electric rewind shall be installed. The reel shall be plumbed with wire reinforced, high-pressure hose coupled. The reel shall be bolted to a mounting system for easy service or removal.

The hose reel is to be mounted in the area above the pump.

One (1)  
24-31-2100

A push button hose reel rewind switch shall be installed to control the electric rewind hose reel. The exact location shall be determined at construction.

One (1)  
24-32-1200

One (1) 1" discharge shall be provided and piped from the fire pump to the hose reel with flexible high pressure hose. The quarter turn ball valve shall be controlled on pump panel. A color-coded nameplate label shall be provided near the valve control handle.

One (1)  
21-01-2500

An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.

One (1)  
24-32-1700

The specified hose reel shall be piped to the normal pressure side of the fire pump.

One (1)

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24-61-1100

One (1) Akron 8000 Series one-inch (1") valve with a stainless ball shall be supplied.

One (1)  
24-53-0020

For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for color coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed color-coded label.

One (1)  
27-02-1500

One (1) 2-1/2" IC discharge pressure gauges (0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

One (1)  
24-33-1600

100' foot length(s) of 1" water hose with pin lug couplings and 800 PSI working pressure shall be provided and mounted on the specified hose reel.

One (1)  
24-33-9100

One (1) stainless steel roller assembly shall be provided on the left side hose reel.

One (1)  
80-43-1600

## **HOSE REEL PAINTING**

The hose reel(s) shall be painted silver grey.

One (1)  
25-06-1100

## **FOAM PRO FOAM SYSTEM**

One (1) FoamPro part number S107-1600/2.0 electronic foam system shall be provided. The system shall be designed for use with Class A foam concentrate. The foam proportioning operation shall be designed for direct measurement of water flows and shall remain consistent within the specified flows and pressures. The system shall be capable of accurately delivering foam solution as required by applicable sections of the NFPA standards.

The system shall be equipped with a control module suitable for installation on the pump panel. There shall be a microprocessor incorporated within the motor driver that shall receive input from the system's flowmeter, while also monitoring the foam concentrate pump output. The microprocessor shall compare the values to ensure that the desired amount of foam concentrate is

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injected onto the discharge side of the fire pump. A "foam capable" paddlewheel-type flowmeter shall be installed in the discharge side of the piping system.

The control module shall enable the pump operator to:

- Activate the foam proportioning system
- Select the proportioning rates from 0.1% to 1.0%
- See a "low concentrate" warning light flash when the foam tank level becomes low and in two (2) minutes, if the foam concentrate has not been added to the tank, the foam concentrate pump shall be capable of shutting down.

A 12-volt electric motor driven positive displacement plunger pump shall be provided. The pump capacity range shall be 0.1 to 1.7 GPM (6.4L/min) at 200 PSI (1400 kPa) with a maximum operating pressure up to 400 PSI (2750 kPa). The system shall draw a maximum of 30 amps at 12 volts. The motor shall be controlled by the microprocessor which shall be mounted to the base of the pump. It shall receive signals from the control module and power the 1/3 horsepower (.25 Kw) electric motor in a variable speed duty cycle to ensure that the correct proportion of concentrate is injected into the water stream.

A full flow check valve shall be provided in the discharge piping to prevent foam contamination of the fire pump and water tank. A 5 PSI (35 kPa) opening pressure check valve shall be provided in concentrate line.

Components of the complete proportioning system as described above shall include:

- Operator control module
- Paddlewheel flowmeter
- Pump and electric motor/motor driver
- Wiring harnesses
- Low level tank switch
- Foam tank
- Foam injection check valve
- Main waterway check valve
- Flowmeter and tee with 2" male NPT threads.

The foam system shall be installed and calibrated to manufacturer's requirements. In addition the system shall be tested and certified by the apparatus manufacturer to meet applicable NFPA standards.

The foam system design shall be tested and pass environmental testing in accordance to SAE standards. The system shall be third party tested to certify compliance with RFI/EMI emissions per MIL-STD-416E.



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An installation and operation manual shall be provided for the unit. The system shall have a one (1) year limited warranty by the foam system manufacturer.

## **CONTROL CONNECTION CABLE -- FOAM SYSTEM**

The FoamPro 1600 Series foam system shall be provided with a twelve (12) foot control cable from the controller to the foam pump assembly.

## **PUMP PANEL CONTROL -- FOAM SYSTEM**

The FoamPro 1600 Series foam system shall be provided with a standard pump panel mounted FoamPro control head.

## **FLOWMETER AND TEE -- FOAM SYSTEM**

A FoamPro brass flowmeter shall be provided. The flowmeter shall be installed in the "foam capable" discharge line. The flowmeter shall have maximum accuracy between the flow range of 10 GPM and 320 GPM and be capable of operation between 3 GPM to 380 GPM. The tee shall have 1-1/2" NPT and 2" Victaulic inlet and outlets connections.

## **LOW-LEVEL TANK SENSOR FOAM TANK**

A FoamPro low-level foam tank sensor shall be provided. The sensor shall be capable of mounting side of foam tank that shall interface with the microprocessor. The unit shall have a 1/8" NPT thread size.

## **MAIN WATERWAY CHECK VALVE -- FOAM SYSTEM**

A FoamPro full-flow check valve shall be provided. The valve shall prevent foam contamination of the fire pump and water tank or water contamination of the foam tank. The unit shall have a nickel-electro plated body with stainless steel components. The valve shall have 2" NPT threads with an injection and drain port size of 1/2" NPT.

## **FOAM SYSTEM -- INJECTOR FITTING**

A Foam Pro injector fitting shall be provided with the foam system.

## **INSTRUCTION AND RATING LABEL -- FOAM SYSTEM**

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A FoamPro part number 6032-0018 instruction and system rating label shall be provided. The label shall display information for a FoamPro 1600 Series foam system and shall meet applicable sections of the NFPA standards.

## **SCHEMATIC LABEL -- FOAM SYSTEM**

A FoamPro part number 6032-0015 foam system schematic label shall be provided shall be installed on the pump panel near foam controls. The label shall be a diagram of a single tank foam system layout and shall meet applicable sections of the NFPA standards.

One (1)  
25-20-1200

## **1" FOAM TANK CONTROL -- CLASS A**

One (1) Class A foam tank shall be plumbed with 1" valve and corrosion resistant hose from the foam tank to the foam inlet of the foam system. The manually opened valve shall be provided behind the pump panel with a label.

One (1)  
25-21-1500

## **INTEGRAL CLASS A FOAM TANK -- 30 GALLON**

One (1) thirty (30) gallon Class A foam tank shall be installed within the water tank. The non-corrosive foam tank shall meet applicable sections of NFPA standards. The foam concentrate tank shall be provided with sufficient wash partitions so that the maximum dimension perpendicular to the plane of any partition shall not exceed 36 inches. The swash partition(s) shall extend from wall to wall and cover at least 75 percent of the area of the plane of the partition.

The foam concentrate tank shall be provided with a fill tower or expansion compartment having a minimum area of 12 square inches and having a volume of not less than 2 percent of the total tank volume. The fill tower opening shall be protected by a completely sealed air-tight cover. The cover shall be attached to the fill tower by mechanical means. The fill opening shall be designed to incorporate a 1/4 inch removable screen and shall be located so that foam concentrate from a five (5) gallon container can be dumped directly to the bottom of the tank to minimize aeration without the use of funnels or other special devices.

The foam tank fill tower shall be equipped with a pressure/vacuum vent that enables the tank to compensate for changes in pressure or vacuum when filling or withdrawing foam concentrate from the tank. The pressure/vacuum vent shall not allow atmospheric air to enter the foam tank except during operation or to compensate for thermal fluctuations. The vent shall be protected to

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prevent foam concentrate from escaping or directly contacting the vent at any time. The vent shall be of sufficient size to prevent tank damage during filling or foam withdrawal.

A color coded label or visible permanent marking that reads "FOAM TANK FILL" shall be placed at or near any foam concentrate tank fills opening. A label shall be placed at or near any foam concentrate tank fill opening that specifies the type of foam concentrate the system is designed to use. Any restrictions on the types of foam concentrate that can be used with the system shall also be stated, and a warning message that reads "WARNING: DO NOT MIX BRANDS AND TYPES OF FOAM."

The foam concentrate tank outlet connection shall be designed and located to prevent aeration of the foam concentrate and shall allow withdrawal of 80 percent of the foam concentrate tank storage capacity under all operating conditions with the vehicle level.

One (1)  
25-22-9100

S.O.R. / Foam Tank, G3

One (1)  
25-23-1000

## **FOAM TANK DRAIN -- UNDER TANK**

The foam tank shall have one (1) 1" gate valve drain provision installed.

One (1)  
27-36-2000

## **FOAM TANK GAUGE**

The apparatus shall be equipped with one (1) Class1 "Intelli-Tank" foam tank level gauge and shall be installed on the pump panel. The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/8 of a tank.

Each tank level gauge system shall include:

- A pressure transducer mounted on the outside of the tank in an easily accessible area. Sealed foam tanks will require zero pressure vacuum vents.
- Super bright LED 4-light display with a visual indication at nine accurate levels.

Weather resistant connectors to connect to the digital display, to the pressure transducer and to the apparatus power.

One (1)  
25-19-9000

## **FOAM SYSTEM DESIGN AND PERFORMANCE REQUIREMENTS**

The proportioning system shall be capable of proportioning foam concentrate in accordance with the foam concentrate manufacturer's recommendations for the type of foam concentrate used in

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the system over the system's design range of flow and pressures. The foam proportioning system water flow characteristics and the range of proportioning ratio shall be specified as noted herein. The latest foam system shall be in compliance with applicable NFPA standards as it relates to this specified system

## Plumbing and Strainer

The foam concentrate supply line shall be non-collapsible. A means shall be provided to prevent water back flow into the foam proportioning system and the foam concentrate storage tank.

A strainer or filter shall be provided on the foam concentrate supply side of the foam proportioner to prevent any debris that might affect the operation of the foam proportioning system from entering the system. The strainer assembly shall consist of a removable straining element, housing, and retainer. The strainer assembly shall allow full flow capacity of the foam supply line.

## Foam System Controls

The foam proportioning system operating controls shall be located at or near the pump operator's position and shall be clearly identified. Foam proportioning system shall be provided with accessible controls to completely flush the system with water according to the manufacturer's instructions.

## Labels and Instructions

An instruction plate shall be provided for the foam proportioning system that include, at a minimum, piping schematic of the system and basic operating instructions. Labels that are marked clearly with the identification and function shall be provided for each control, gauge, and indicator related to the foam proportioning system.

A label shall be provided on the pump operator's panel that identifies the type of foam concentrate that the foam proportioning system is designed to use. It shall also state the minimum/maximum foam proportioning rate at the minimum/maximum foam proportioning rated system flow and pressure.

Two (2) copies of an operations and maintenance manual shall be provided. They shall include a complete diagram of the system together with operating instructions and details outlining all recommended maintenance procedures.

## Foam System Testing

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The accuracy of the foam proportioning system shall be certified by the foam equipment manufacturer and also tested by the installer prior to delivery of the apparatus in compliance to NFPA standards.

One (1)  
26-02-2300

## **SIDE MOUNT PUMP ENCLOSURE**

The side mount pump enclosure shall be removable and supported from the chassis frame rails. This enclosure will allow independent flexing of the pump enclosure from the body and allow for quick removal. The support structure shall be constructed of extruded aluminum tubing and angle.

All pump suction and discharge controls are to be mounted on the driver side pump operator's panel so as to permit operation of the pump from a central location. The fire pump, valves and controls shall be accessible for service and maintenance as required by applicable sections of NFPA standards.

The "master" gauges shall be suitably enclosed and mounted on a full pump compartment width "hinged" gauge panel constructed of the same material as the pump operators control panel, allowing access to the backside of all gauges and gauge lines. The individual gauges shall be mounted inline with the control handle or adjacent to the control handle. Panel is to include a stainless steel piano hinge, flush mounted chrome plated trigger latch, and stainless steel cable end stops. Electrical wiring and all gauge lines shall be properly tie wrapped to prevent kinking or cutting of the lines when the panel is opened.

The following controls and equipment as specified in the specifications, shall be provided on the pump panel or within the pump enclosure:

- Primer.
- Pump and plumbing area service lights.
- Pressure control device and throttle control.
- Fire pump and engine instruments.
- Pump intakes and discharge controls.
- Master intake and discharge gauges.
- Tank fill control.
- Tank suction control.
- Water tank level gauge.
- Pump panel lights.

## **Crosslay Installation**

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The area atop the pump enclosure shall be notched for the installation of a crosslay hose bed. The hosebed shall have smooth sides and a perforated floor to allow for drainage. Provisions shall be provided to secure hose and equipment per requirements of applicable NFPA standards.

One (1)  
26-30-1100

## **LEFT SIDE RUNNING BOARD -- SIDE MOUNT PANEL**

The left side mount pump panel shall be equipped with side running board. The running board will extend along the width of the pump enclosure from the forward end of the body module to behind the chassis cab.

The running board shall be constructed of aluminum tread plate, bolted in place with stainless steel fasteners. The step surfaces shall be in compliance with applicable sections of NFPA requirements.

One (1)  
26-30-5000

## **HOSEWELL COMPARTMENT -- LEFT SIDE RUNNING BOARD**

One (1) hosewell shall be recessed in the left side running board of the apparatus pump panel. The hosewell shall be constructed of aluminum material and shall be provided with drain holes drilled in each bottom corner with plastic grating on the floor.

The hose and couplings shall be secured in compliance to applicable NFPA standards.

Capacity for the following purchaser supplied hose:

One (1)  
26-30-6200

## **HOSE WELL SECUREMENT**

There shall be two (2) Velcro straps provided for the securement of the hose in the running board hose well.

One (1)  
26-30-1150

## **RIGHT SIDE RUNNING BOARD -- SIDE MOUNT PANEL**

The right side mount pump panel shall be equipped with side running board. The running board will extend along the width of the pump enclosure from the forward end of the body module to behind the chassis cab.

The running board shall be constructed of aluminum tread plate, bolted in place with stainless steel fasteners. The step surfaces shall be in compliance with applicable sections of NFPA requirements.

One (1)  
6-30-5200



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## **HOSEWELL COMPARTMENT -- RIGHTSIDE RUNNING BOARD**

One (1) hosewell shall be recessed in the right side running board of the apparatus pump panel. The hosewell shall be constructed of aluminum material and shall be provided with drain holes drilled in each bottom corner with plastic grating on the floor.

The hose and couplings shall be secured in compliance to applicable NFPA standards.

Capacity for the following purchaser supplied hose:

One (1)  
26-30-6200

## **HOSE WELL SECUREMENT**

There shall be two (2) Velcro straps provided for the securement of the hose in the running board hose well.

One (1)  
26-31-1300

## **PUMP ENCLOSURE ACCESS DOOR -- RIGHT SIDE UPPER**

A pump panel access door shall be provided on the upper right side of the side mount pump enclosure. The door shall be constructed of 14 gauge #304 brushed stainless steel with push button type latches.

One (1)  
26-35-5100

## **PUMP PANEL -- SIDE MOUNT**

The pump operator's panel, along with the lower left hand and right hand pump panels shall be constructed of Line-X aluminum material and be fastened to the pump enclosure with 1/4" stainless steel bolts.

The instrument area shall have a stainless steel continuous hinge that shall swing for easy access to gauges.

One (1)  
26-35-1300

## **HINGED PUMP PANEL -- LEFT SIDE**

The pump panel installed on the on the left hand side of the pump enclosure shall be hinged with push-button latches.

One (1)  
26-35-1400

## **HINGED PUMP PANEL -- RIGHT SIDE**

The pump panel installed on the on the right hand side of the pump enclosure shall be hinged with push-button latches.

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One (1)  
26-36-1050

## **ROLL UP PUMP PANEL DOOR -- LEFT SIDE**

The left side pump panel shall have be enclosure with a roll-up style compartment door. The door shall be constructed of anodized aluminum slats, painted to match the body.

One (1)  
55-01-3380

## COMPARTMENT LIGHTS

Two (2) 36" long OnScene Solutions Access LED lights shall be installed, one on each side of the door opening. The lights shall contain 24 LEDs per light producing approximately 120 lumens (six LEDs and 30 lumens every 9"). The light stick shall be rated at 100,000 hours of service and shall be provided with a 5 year free replacement warranty. The light shall have a 5/8" LEXAN™ polycarbonate tube enclosure for severe duty applications.

The light stick shall be waterproof and be connectible via a jumper wire to add additional lights in series if required.

One (1)  
55-06-1400

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

One (1)  
26-36-2050

## **ROLL UP PUMP PANEL DOOR -- RIGHT SIDE**

The right side pump panel shall have be enclosure with a roll-up style compartment door. The door shall be constructed of anodized aluminum slats, painted to match the body.

One (1)  
55-01-3380

## COMPARTMENT LIGHTS

Two (2) 36" long OnScene Solutions Access LED lights shall be installed, one on each side of the door opening. The lights shall contain 24 LEDs per light producing approximately 120 lumens (six LEDs and 30 lumens every 9"). The light stick shall be rated at 100,000 hours of service and shall be provided with a 5 year free replacement warranty. The light shall have a 5/8" LEXAN™ polycarbonate tube enclosure for severe duty applications.

The light stick shall be waterproof and be connectible via a jumper wire to add additional lights in series if required.

One (1)  
55-06-1400

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

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One (1)  
26-36-5100

## **PUMP PANEL STAINLESS STEEL TRIM PANELS**

Stainless steel intake and discharge trim rings shall be installed to the apparatus with mounting bolts. These assemblies will be used to identify intake and discharge ports with color and verbiage, using separate identification tags protected by chrome plated bezels. These trim rings are designed and manufactured to withstand the environment and shall be backed by a warranty equal to that of the exterior paint and finish. All labels shall be backed with 3M permanent adhesive (200MP), which meets UL969 and NFPA standards.

One (1)  
26-55-1100

## **LABELS**

Safety, information, data, and instruction labels for apparatus shall be provided and installed at the operator's instrument panel.

The labels shall include rated capacities, pressure ratings, and engine speeds as determined by the certification tests. The no-load governed speed of the engine, as stated by the engine manufacturer, shall also be included.

The labels shall be provided with all information and be attached to the apparatus prior to delivery.

One (1)  
26-55-2400

## **COLOR CODED PUMP PANEL LABELING AND NAMEPLATES**

Discharge and intake valve controls shall be color coded in compliance to guidelines of applicable sections of NFPA standards.

Innovative Controls permanent type nameplates and instruction panels shall be installed on the pump panel for safe operation of the pumping equipment and controls.

One (1)  
26-56-1125

## **MIDSHIP PUMP PANEL LIGHTS -- LEFT SIDE**

Three (3) Techiq E10-W0001-1 or equal LED lights with clear lenses shall be installed under an instrument panel light hood on the left side pump panel. The lights shall be controlled by a switch located on the operator's instrument panel.

One (1)  
26-56-1225

## **MIDSHIP PUMP PANEL LIGHTS -- RIGHT SIDE**

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Two (2) Tecniq E10-W0001-1 or equal LED lights with clear lenses shall be installed under an instrument panel light hood on the right side pump panel. The lights shall be controlled by a switch located on the operator's instrument panel.

One (1)  
26-56-2000

## **PUMP ENGAGED LIGHT**

One (1) pump panel light shall be illuminated at the time the fire pump is engaged into operation. The remaining lights shall be controlled by a switch located on the operator's instrument panel.

One (1)  
27-01-1200

## **MASTER DISCHARGE AND INTAKE GAUGES**

Two (2) 4-1/2" diameter Class 1 discharge pressure and intake gauges (30"-0-600 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

The master gauges shall be fully filled with pulse and vibration dampening interlube to lubricate the internal mechanisms. This shall prevent lens condensation and will insure proper operation to minus 40 degrees F. The case shall be temperature compensated with an internal breathing diaphragm to permit filled cases and to allow a rigid lens with a distortion free viewing area. To prevent internal freezing and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature material and be sealed from the water system using an isolation Sub-Z diaphragm located in the stem. A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

One (1)  
27-01-4100

## **TEST TAPS**

Test taps for pump intake and pump pressure shall be provided on the pump instrument panel and be properly labeled.

One (1)  
27-35-2000

## **WATER TANK GAUGE**

The apparatus shall be equipped with one (1) Class1 "Intelli-Tank" water tank level gauge system. The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/8 of a tank.

Each tank level gauge system shall include:

- A pressure transducer mounted on the outside of the tank in an easily accessible area.
- A super bright LED 4-light displays with a visual indication at nine accurate levels.

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- Weather resistant connectors to connect to the digital display, to the pressure transducer and to the apparatus power.

The primary water tank level gauge shall be installed at the pump panel.

One (1)  
27-35-5122

## **WATER TANK LEVEL LIGHTS**

Three (3) Federal Signal Commander 10" vertically mounted LED lights, model COMSTL-TANK shall be installed one each side of the apparatus and one (1) on the rear to allow for monitoring the water tank level from a distance.

They shall be configured as follows:

- GREEN - Position 1 indicates FULL
- BLUE - Position 2 indicates 3/4
- AMBER - Position 3 indicates 1/2
- RED - Position 4 indicates 1/4

Each light shall remain illuminated until the water level drops below full 3/4, 1/2, or 1/4 levels. When the level drops below 1/4 the RED light will flash to indicate an empty tank. The Federal Signal water tank level lights shall be controlled with a Class 1 Intelli-tank remote driver.

One (1)  
47-01-0500

## **BOOSTER TANK**

Booster Tank shall be constructed to meet and or exceed the requirements set forth in the NFPA pamphlet 1901, 2009 edition. Booster tanks shall be constructed of ½" thick UV stabilized Copolymer Polypropylene virgin grade sheet stock. All material used, seen and unseen, shall be a minimum of ½" non-corrosive UV stabilized stress relieved Copolymer Polypropylene thermoplastic, black in color and UV stabilized for maximum protection. The booster and or foam tank shall be a specific configuration and so designed to be completely independent of the body compartments. All baffles and structural components shall have rabbet and dado joint construction to gain mechanical advantage. All components must be extrusion welded on all sides, walls, gussets, baffles, top and bottom to add structural support. After all components are extrusion welded, they must be visually, electronically and hydraulically tested to insure maximum strength and integrity. The top of the booster tank must be fitted with removable lifting eyes to facilitate easy removal. All swash partitions (Transverse and Longitudinal) must be manufactured from ½" UV Stabilized Copolymer Polypropylene. All partitions must be designed and equipped with proper venting and passage ways to allow movement of air and water through the compartments. All partitions must be designed to provide maximum water

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flow. All longitudinal and transverse partitions must be interlocked and extrusion welded to each other as well as the walls of the tank.

Tank to have a **Lifetime Warranty**.

The tank shall have a combination vent and manual fill tower. The fill tower shall be constructed of ½" Copolymer Polypropylene with a minimum dimension of 12"x 8". The tower shall be located in the front corner, unless otherwise specified. The tank shall have a ½" thick removable Copolymer Polypropylene screen and hinged cover. Located inside the cover shall be a combination vent and overflow pipe. The minimum I.D of 4" schedule 40 Copolymer polypropylene pipe shall run inside the tank to behind the rear wheels, to maximize the traction.

The tank lid shall be constructed of UV Stabilized ½" Copolymer Polypropylene. The tank must have a removable lid to allow for complete inside inspection and cleaning, per NFPA 1901 A.18.2.2. All mechanical fasteners used to hold the lid shall be stainless steel, utilizing bolts and locking nuts. The tank must be designed in such a way to keep the fasteners from contact with the contents of the tank. A minimum of two lifting dowels must be incorporated into the tank to facilitate installation and removal of the tank.

There shall be one sump standard per tank. The sump shall be located in the front quarter of the tank, unless otherwise specified. On all tanks that require a front suction, a 3" schedule 40 Copolymer pipe shall be installed that will incorporate a dip tube from the front of the tank to pump location. The sump shall be a minimum of 10"x10"x5" The sump shall have a minimum of a 3" n.p.t. machined outlet. The sump shall be used as a combination clean out and drain. All tanks shall have anti-swirl plate located above the sump.

One (1)  
47-01-1000

## **WATER TANK - 1000 GALLON**

The apparatus shall be equipped with a one-thousand (1000) gallon polypropylene water tank.

One (1)  
47-01-1900

## **WATER TANK**

The booster tank shall be a TEE shape and design to allow for maximum compartmentation, and a lower center of gravity.

One (1)  
29-10-1000

## **HOSEBED SINGLE AXLE**



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The hose bed compartment deck shall be constructed entirely from maintenance-free, extruded aluminum slats. The slats shall have an anodized, radiused ribbed top surface. The slats shall be of widths approximately 3/4" high x 6" wide and shall be welded into a one-piece grid system to prevent the accumulation of water and allow ventilation to assist in drying hose.

The apparatus hose body shall be properly reinforced without the use of angles or structural shapes and free from all projections that might injure the fire hose.

The main apparatus hose body shall run the full length of the apparatus body from behind the pump panel area to the rear face of the body.

The upper rear interior of the hose body on the right and left sides shall be overlaid with brushed stainless steel to protect the painted surface from damage by hose couplings.

One (1)  
29-10-5100

## **HOSE BED STORAGE CAPACITY**

The hose bed shall be designed to have a storage capacity for a minimum of 55 cubic feet of fire department supplied fire hose.

Six (6)  
29-10-5600

The hose bed shall be designed to have storage capacity for six (6) 50-ft lengths of 2.5" Double Jacket fire hose.

Thirteen (13)  
29-10-5900

The hose bed shall be designed to have storage capacity for thirteen (13) 100-ft lengths of 4" LDH Single Jacket rubber fire hose.

One (1)  
29-10-8100

## **ALUMINUM HOSEBED DIVIDER**

One (1) adjustable hosebed divider constructed of .250" aluminum shall be installed on the apparatus.

One (1)  
29-20-6500

## **ALUMINUM HOSEBED COVER**

The hosebed shall be equipped with a reinforced hinged .125" aluminum diamond plate cover. The covers shall be of the sloped design for proper water runoff. Positive hold-open devices shall be provided to hold the door in the open position.

The cover, approximately 49" to 74" wide with a center opening, shall be installed the full length of the hose bed.

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One (1)  
29-10-8160

The hosebed cover shall be labeled, "Not a Standing or Walking Surface", per NFPA.

## **MAIN HOSEBED DIVIDER**

One (1) stationary hosebed divider shall be provided in the main hosebed.

The hosebed divider shall be fabricated of 1/4" smooth aluminum sheet stock, pressed into a "T" shaped aluminum extrusion for added strength along the bottom and front edges of the divider.

Divider shall be bolted in place, front and rear, to allow for ease of removal or relocation.

One (1)  
29-20-6650

## **MANUALLY OPERATED ALUMINUM HOSEBED COVER**

The polished aluminum treadplate hosebed covers extending the full-length and width of the main hosebed shall have lift up handles installed on each hose cover to manually open the hosebed covers.

One (1)  
29-20-7800

## **REAR VINYL FLAPS FOR ALUMINUM COVER**

There shall be a vinyl flaps attached to each aluminum hosebed cover. The vinyl flaps shall cover the area on the rear of the hosebed from top to bottom. The flaps shall be independent of each other but attachable with velcro in the center. The bottom edge of the flap shall be secured utilizing a hook and loop fastening system.

One (1)  
29-20-5600

The vinyl cover shall be red in color.

One (1)  
30-00-0000

## **BODY CONSTRUCTION**

One (1)  
30-01-1800

## **1/8" ALUMINUM BODY**

The body shall be fabricated of aluminum extrusions, smooth aluminum sheet and aluminum treadplate.

The aluminum extrusion alloy shall be 6061 with a temper rating of T6, and have a tensile strength of 45,000 PSI and yield strength of 40,000 pounds. The aluminum extrusions shall 3" x 3" aluminum tubing, 1-3/4" x 3" aluminum tubing and 3" x 3" aluminum angle and specially designed extrusions, up to .250" wall thickness where applicable.

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The smooth aluminum sheet material alloy shall be 5052 with a temper rating of H32, and have a tensile strength of 33,000 PSI and yield strength of 28,000 pounds.

The aluminum treadplate alloy shall be 3003 with a temper rating of H22, and have a tensile strength of 30,000 PSI and yield strength of 28,000 pounds.

The extrusions shall be designed as structural-framing members with the smooth aluminum and treadplate fabricated to form compartments, hosebeds, and floors. All aluminum material shall be welded together using the latest mig spray pulse arc welding system.

Compartment floors shall be of the sweep out design with the floor higher than the compartment door lip and to be water and dust proof. All compartments shall be made to the maximum practical dimensions to provide maximum storage capacity. To ensure maximum storage space, the apparatus shall be constructed without any void spaces between the body and the compartment walls. Double wall construction does not meet this requirement.

All exterior compartments shall have polished aluminum drip moldings installed above the doors where necessary to prevent water from entering the compartments.

Wheel well panels shall be formed aluminum that is welded in place. There shall be no visible bolt heads, retention nuts or fasteners on the exterior surface of the panel. To fully protect the wheel well area from road debris and to aid in cleaning, a full depth radius wheel well liner shall be provided. The frame side of the wheel well area on each side of the opening shall be attached to the frame side of the front and rear compartments. All seams on the frame side of the body shall be welded and caulked to prevent moisture from entering the compartments.

The rear wheel wells shall be radius cut for a streamlined appearance. A fenderette shall be furnished at each rear wheel well opening, held in place with stainless steel fasteners.

## FASTENERS

All aluminum and stainless steel components shall be attached using stainless steel fasteners.

Compartment door hinges, handrails and running boards shall be attached using minimum 1/4" diameter machine bolt fasteners.

3/16" diameter fasteners shall only be used in nonstructural areas such as; door handles, trim moldings, gauge mounting, etc.

## COMPARTMENT FLOORS

One (1)  
30-02-2100

09/29/21

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One (1)  
30-10-1100

The compartment floors shall be constructed of aluminum treadplate material.

## **GALVANIZED SUB-FRAME**

The apparatus body subframe shall be constructed entirely of heavy steel structural channel material.

Two full frame lengths, three-inch (3") 3.4 pound per foot longitudinal steel channels shall form the sides of the body subframe and sides of the water tank cradle. Subframe crossmembers shall be fabricated with three inch (3") 3.4 pound per foot heavy steel channel cross members welded to the longitudinal body subframe sides and the full length frame pads.

Two full frame length 1/2" x 3" flat steel frame pads shall be attached to the body subframe and rest on top of the chassis frame rails for proper frame weight distribution.

The steel frame pads, longitudinal steel channels and subframe crossmembers shall be attached to the chassis frame rails using heavy "U" bolt fasteners to allow removal of the subframe and body assembly from the chassis. There shall be a barrier provided between the subframe and body to prevent electrolysis.

The rear subframe and lower body platform support members shall be of the "two piece" design, fabricated of 3.4 lb. Per foot heavy channel and welded to the full length subframe channel liners at the rear.

A minimum of two rear platform support channels shall be provided and constructed of 3.4 lb. Per foot heavy steel material. Each support channel shall have welded in gusset where the support meets the rear subframe rails.

After fabrication the entire subframe assembly shall be hot dip galvanized to prevent corrosion. The hot dip galvanized subframe shall have a lifetime warranty against failure due to corrosion.

This steel subframe shall carry the weight of the apparatus body, tank, water and equipment. This method of apparatus construction gives an excellent strength/weight ratio.

One (1)  
31-01-1300

## **BODY CONFIGURATION**

The aluminum apparatus body shall be up to 220" long, reference the drawing for actual body length.

One (1)  
14-06-2200

09/29/21

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## **SINGLE AXLE WHEEL AREA**

For ease of accessibility and maintenance, wheel well panels shall be double break formed painted smooth plate that is welded in place.

To fully protect the wheel well area from road debris and to aid in cleaning, a full depth (minimum of 25") radius wheel well liner shall be provided. Wheel well liner shall be smooth aluminum to prevent corrosion.

One (1)  
44-06-4100

## **FENDERETTES**

The rear wheel wells shall be radius cut for a streamlined appearance. A polished aluminum fenderette shall be furnished at each rear wheel well opening, held in place with concealed stainless steel fasteners.

One (1)  
31-01-2135

## **BODY WIDTH**

The overall width of the pumper body shall not exceed 102".

## **COMPARTMENT DEPTH**

The side compartments on the pumper body shall have the following dimensions:

Lower portion depth of 26"

Upper portion depth of 13"

One (1)  
29-00-1300

## **HOSEBED WIDTH**

The width of the pumper body hosebed shall be 74".

One (1)  
32-03-0063

## **COMPARTMENT HEIGHT**

The left side body compartments shall be 63" high.

One (1)  
32-03-1063

## **COMPARTMENT HEIGHT**

The right side body compartments shall be 63" high.

Nine (9)  
30-02-1150

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## **ROLL UP DOOR CONSTRUCTION**

The roll up door(s) shall be fabricated from aluminum extrusions and be manufactured and assembled in the United States.

The door slats shall be double-wall extrusions with dimensions of 1.366" high x .315" thick. The exterior surface shall be flat and the interior surface concave to deflect loose equipment to prevent the door from jamming. Each slat shall have interlocking end shoes to prevent the slat from moving side to side resulting in binding of the door. Each slat shall be separated by a co-extruded PVC and rubber inner seal to prevent metal to metal contact and minimize dirt and moisture from entering the compartment. The inner seal shall not be visible from the exterior to maintain a clean appearance of door. The slats shall have interlocking joints with a folding locking flange to provide security and prevent penetration by sharp objects.

The track shall be a one (1) piece aluminum assembly that has an attaching flange and finishing flange incorporated into the design that facilitates installation and provides a finished look to the door without additional trim or caulking. A low profile side seal shall be utilized to maximize usable compartment space.

A drip rail designed to prevent water from dripping into the compartment shall be provided. The drip rail shall have a built in replaceable non-contacting seal to eliminate scratching of the surface of the door.

Bottom rail extrusion must have smooth back to prevent loose equipment from jamming the door and have "V" shaped double seal to prevent water and debris from entering the compartment. The door latch system shall be a full width one (1) piece lift bar that enables the user to operate with one hand.

The roll mechanism shall have a clip system that connects the curtain slats to the operator drum to allow for easy tension adjustment without tools. A four (4) inch diameter counterbalanced operator drum to shall be incorporated to assist in lifting the door.

One (1)  
32-05-1125

## **LEFT FRONT COMPARTMENT**

There shall be one (1) full height compartment located ahead of the rear wheels. The compartment shall be equipped with a full height single painted roll up door.

The compartment shall be equipped with the following:

One (1)  
44-40-1100

One (1) louver with filter shall be installed in the compartment.

One (1)



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45-01-1050

## ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

One (1)  
55-01-1150

## COMPARTMENT LIGHT

One (1) ROM vertically mounted roll-up compartment LED V3 door light shall be installed on one side of the door opening. The compartment light shall be integrated into the roll-up door track with the light actuation with the door opening.

The light shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

One (1)  
55-06-1400

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

One (1)  
32-05-1360

## LEFT OVERWHEEL COMPARTMENT

There shall be one (1) compartment above the rear wheels. The compartment shall be equipped with a single painted roll up door.

The compartment shall be equipped with the following:

One (1)  
44-40-1100

One (1) louver with filter shall be installed in the compartment.

One (1)  
45-01-1050

## ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

One (1)  
55-01-1150

## COMPARTMENT LIGHT

One (1) ROM vertically mounted roll-up compartment LED V3 door light shall be installed on one side of the door opening. The compartment light shall be integrated into the roll-up door track with the light actuation with the door opening.

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The light shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

One (1)  
55-06-1400

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

One (1)  
32-05-1725

## **LEFT REAR COMPARTMENT**

There shall be one (1) full height compartment located behind the rear wheels. The compartment shall be equipped with a full height single painted roll up door.

The compartment shall be equipped with the following:

One (1)  
44-40-1100

One (1) louver with filter shall be installed in the compartment.

One (1)  
45-01-1050

## **ADJUSTABLE SHELVING TRACKS**

The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

One (1)  
55-01-1150

## **COMPARTMENT LIGHT**

One (1) ROM vertically mounted roll-up compartment LED V3 door light shall be installed on one side of the door opening. The compartment light shall be integrated into the roll-up door track with the light actuation with the door opening.

The light shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

One (1)  
55-06-1400

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

One (1)  
32-06-1125

## **RIGHT FRONT COMPARTMENT**

There shall be one (1) full height compartment located ahead of the rear wheels. The compartment shall be equipped with a full height single painted roll up door.

The compartment shall be equipped with the following:

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One (1)  
44-40-1100

One (1) louver with filter shall be installed in the compartment.

One (1)  
45-01-1050

## ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

One (1)  
55-01-1150

## COMPARTMENT LIGHT

One (1) ROM vertically mounted roll-up compartment LED V3 door light shall be installed on one side of the door opening. The compartment light shall be integrated into the roll-up door track with the light actuation with the door opening.

The light shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

One (1)  
55-06-1400

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

One (1)  
32-06-1460

## **RIGHT HIGH SIDE COMPARTMENTS**

There shall be one (1) compartment above the rear wheels. The compartment shall be equipped with a single painted roll up door.

The compartment shall be equipped with the following:

One (1)  
44-40-1100

One (1) louver with filter shall be installed in the compartment.

One (1)  
45-01-1050

## ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

One (1)  
55-01-1150

## COMPARTMENT LIGHT

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One (1) ROM vertically mounted roll-up compartment LED V3 door light shall be installed on one side of the door opening. The compartment light shall be integrated into the roll-up door track with the light actuation with the door opening.

The light shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

One (1)  
55-06-1400

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

One (1)  
32-06-1725

## **RIGHT REAR COMPARTMENT**

There shall be one (1) full height compartment located behind the rear wheels. The compartment shall be equipped with a full height single painted roll up door.

The compartment shall be equipped with the following:

One (1)  
44-40-1100

One (1) louver with filter shall be installed in the compartment.

One (1)  
45-01-1050

## **ADJUSTABLE SHELVING TRACKS**

The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

One (1)  
55-01-1150

## **COMPARTMENT LIGHT**

One (1) ROM vertically mounted roll-up compartment LED V3 door light shall be installed on one side of the door opening. The compartment light shall be integrated into the roll-up door track with the light actuation with the door opening.

The light shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

One (1)  
55-06-1400

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

One (1)  
33-60-1100

## **REAR BODY CONFIGURATION**

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The rear of the apparatus body shall be of the flat back design.

One (1)  
32-08-0210

## **REAR CENTER COMPARTMENT**

There shall be one (1) full height compartment located at the rear of the apparatus. The compartment shall be equipped with a full height natural finish roll up door. The compartment shall be open to the rear side compartments, providing a transverse compartment at the rear of the truck.

The compartment shall be equipped with the following:

One (1)  
44-40-1100

One (1) louver with filter shall be installed in the compartment.

One (1)  
45-01-1050

## **ADJUSTABLE SHELVING TRACKS**

The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

One (1)  
55-01-1150

## **COMPARTMENT LIGHT**

One (1) ROM vertically mounted roll-up compartment LED V3 door light shall be installed on one side of the door opening. The compartment light shall be integrated into the roll-up door track with the light actuation with the door opening.

The light shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

One (1)  
55-06-1400

The compartment light will be controlled by a magnetic "On-Off" switch located on each compartment door.

One (1)  
33-61-1400

## **REAR STEP - 14" BOLT-ON**

A 14" deep step surface shall be provided at the rear of the apparatus body, bolted in place and easily removable for replacement or repair. The tailboard shall be constructed of .188" aluminum diamond plate or equal non-slip surface in compliance with NFPA #1901 standards.

# Moberly Fire Department

A label shall be provided warning personnel that riding on the rear step while the apparatus is in motion is prohibited.

Eight (8)  
45-02-1200

## ADJUSTABLE SHELF

Eight (8) adjustable shelf shall be constructed of .125" smooth aluminum plate with 1.5" formed vertical lip front & back. Shelf supports on each side to be constructed of .188" aluminum and bolted to an aluminum extrusion (mounted vertically) by use of 3/8" bolts and spring-loaded cam locks. If shelf is longer than 40" a reinforcement by aluminum gusset is to be placed full-length on bottom of shelf.

Two (2)  
45-05-1100

## 250# ROLLOUT TRAY

Two (2) roll-out equipment tray shall be installed in a standard depth compartment. The tray with telescoping slides and roller bearings shall be rated to a maximum load of 250 lbs. Tray shall be of a closed-in design, formed of .125" smooth aluminum plate, fabricated with two (2) inch sides.

The tray unit shall roll out to full extension of the compartment, with latching mechanism to hold tray in both fully-extended and stored positions.

One (1)  
90-02-3500

## SLIDE OUT VERTICAL LADDER MOUNTINGS

The ladder shall slide into the right rear of the apparatus, through the right side of the body. The vertically mounted slide in assembly shall be an integral part of the body and accessible through a hinged door.

One (1)  
90-02-2920

The hinged door shall be constructed of smooth material, with chevron striping applied to match the rear of the apparatus body.

One (1)  
90-02-5310

## INTERNAL FOLDING ATTIC LADDER MOUNTING

An internal mounting shall be provided for the specified folding attic ladder.

One (1)  
90-03-0225

## LADDER SOURCE

New ground ladders shall be provided by the body builder.

Two (2)



# Moberly Fire Department

90-16-5400

## **PIKE POLE MOUNTING BRACKET**

Two (2) tube shall be provided for pike pole mounting. The tube shall have a 2" interior diameter and shall be mounted in the ladder tunnel.

One (1)  
90-16-6115

## **PIKE POLE SOURCE**

The pike poles shall be provided by the body builder.

One (1)  
44-01-1450

## **FRONT BODY PROTECTION PANELS**

Aluminum tread plate overlays and panels shall be installed on the front of the body compartment from the lower edge to the top of the compartment doors.

One (1)  
44-01-6020

## **CATWALKS**

Painted catwalks shall be installed on the top of the compartments.

One (1)  
44-01-4000

## **REAR BODY PROTECTION PANELS**

The rear body panels of the body shall be a smooth material, to allow for the proper application and installation of a "Chevron" stripe on the rear.

One (1)  
38-90-2050

## **ACCESS LADDER EZ CLIMB - LEFT REAR**

There shall be a swing out and down access ladder supplied and installed on the apparatus, for accessing the top of the apparatus. It shall be of an all aluminum design and shall incorporate treads six (6") inches deep and no more than eighteen (18") inches apart. The ground to the first step dimension, on level ground, shall be no more than twenty-four (24") inches.

The access ladder shall have integrated hand holds in the steps, to aid in the ascent/descent of the ladder.

When in the deployed position the ladder shall have an angle of approximately 75-degrees to facilitate ascending and descending the ladder. The ladder shall be retained in the stowed and deployed position by two (2) gas cylinders and shall not require the use of latches to hold it in position.

One (1)

09/29/21

# Moberly Fire Department

33-70-1500

## **HANDRAIL REAR STEP**

Two (2) extruded aluminum non-slip handrails, approximately 48" in length, shall be provided and vertically mounted on the rear access ladder, one (1) on each side.

One (1) extruded aluminum non-slip handrail, approximately 48" in length, shall be installed on the rear of the apparatus body, on the opposite side from the rear access ladder.

One (1)

33-70-2100

## **HANDRAIL BELOW HOSEBED**

One (1) extruded aluminum non-slip handrail, approximately 48" in length, shall be provided and horizontally mounted below the hosebed on the rear of the apparatus.

One (1)

44-02-1100

## **EXTRUDED ALUMINUM RUB RAILS**

Full body length polished aluminum rub rails shall be bolted in place on the lower right and left body sides. The side rub rails shall be a heavy extruded aluminum "C" channel.

One (1)

4-02-2000

## **NYLON SPACERS FOR RUB RAILS**

There shall be nylon spacers provided between the rub rail and the body. This shall allow wash out and replacement in the event of damage.

One (1)

44-11-5100

## **WHEEL WELL PROVISION LOCATION**

The wheel well provisions shall be located on the left side of the apparatus, ahead of the rear wheels.

One (1)

44-10-3020

One (1) breathing air cylinder storage compartment for four (4) SCBA cylinders (not supplied) shall be provided and located in the rear wheel well of the apparatus body.

The cylinder storage compartment shall be constructed entirely of aluminum. The door assemblies shall be provided with a gasket between door and body side, bolted in-place and removable for repair or replacement.

The compartment shall be provided with SCBA cylinder scuff protection. A brushed stainless steel door shall be provided.

Four (4)

09/29/21

# Moberly Fire Department

44-10-6000

Four (4) one-inch (1") wide loop of black webbing shall be installed in each SCBA compartment to prevent the bottle from sliding out of the compartment in case of door failure. The loop shall be mounted, centered in the compartment and shall hang within one-inch (1") of the compartment floor to allow the bottle to pass by the strap when the bottle is placed in the compartment. The strap shall loop over the valve.

One (1)

44-11-5300

## **WHEEL WELL PROVISION LOCATION**

The wheel well provisions shall be located on the left side of the apparatus, behind of the rear wheels.

One (1)

44-07-1200

## **FUEL PIPING AND FILL CAP**

There shall be a fuel fill cap provided in the recessed area of the left side rear wheel well clearly marked, "DIESEL FUEL ONLY". The fill shall be piped to the fuel tank.

One (1)

44-10-8000

One (1) storage compartment for floor dry shall be provided and located in the rear wheel well of the apparatus body. The storage compartment shall be constructed of aluminum, mounted on slides, to allowing the compartment to pull out for filling. The door assembly shall be provided with a gasket between the door and the body side, bolted in place and removable for repair or replacement. A brushed stainless steel door, with D-ring, shall be provided.

One (1)

44-11-5500

## **WHEEL WELL PROVISION LOCATION**

The wheel well provisions shall be located on the right side of the apparatus, ahead of the rear wheels.

One (1)

44-10-3020

One (1) breathing air cylinder storage compartment for four (4) SCBA cylinders (not supplied) shall be provided and located in the rear wheel well of the apparatus body.

The cylinder storage compartment shall be constructed entirely of aluminum. The door assemblies shall be provided with a gasket between door and body side, bolted in-place and removable for repair or replacement.

The compartment shall be provided with SCBA cylinder scuff protection. A brushed stainless steel door shall be provided.

Four (4)

44-10-6000

09/29/21

# Moberly Fire Department

Four (4) one-inch (1") wide loop of black webbing shall be installed in each SCBA compartment to prevent the bottle from sliding out of the compartment in case of door failure. The loop shall be mounted, centered in the compartment and shall hang within one-inch (1") of the compartment floor to allow the bottle to pass by the strap when the bottle is placed in the compartment. The strap shall loop over the valve.

One (1)  
44-11-5700

## **WHEEL WELL PROVISION LOCATION**

The wheel well provisions shall be located on the right side of the apparatus, behind of the rear wheels.

One (1)  
44-10-4100

One (1) fire extinguisher storage compartment shall be provided in the rear wheel well area. The compartment shall be designed with ample room for the specified extinguisher. A brushed stainless steel door shall be installed.

One (1)  
44-10-6000

One (1) one-inch (1") wide loop of black webbing shall be installed in each SCBA compartment to prevent the bottle from sliding out of the compartment in case of door failure. The loop shall be mounted, centered in the compartment and shall hang within one-inch (1") of the compartment floor to allow the bottle to pass by the strap when the bottle is placed in the compartment. The strap shall loop over the valve.

Two (2)  
44-15-1700

## **UPPER BODY SIDE COMPARTMENT**

Two (2) upper body compartment shall be provided top of body with dimensions of approximately 90" and 12" to 20" deep.

The compartment shall have a lift-up door installed, constructed of 1/8" aluminum tread plate. The door shall have a stainless steel hinge and dual gas openers. The door opening shall be flanged upward 1" to prevent water from running into compartments when the door is closed. Two (2) heavy duty socket and plunger latches shall be installed to hold the door along with a heavy duty chrome grab handle to lift the door.

The compartment shall be located on the left side of the body.

Two (2)  
44-22-0020

## **COMPARTMENT EXTERIOR FINISH**

The roof compartments shall be constructed from smooth aluminum painted to match the apparatus body.

Two (2)

# Moberly Fire Department

55-01-3000

## COMPARTMENT LIGHT

One (1) LED light fixture shall be installed on the wall of the compartment. The light shall have a clear lens.

Two (2)

55-06-1100

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

Two (2)

44-18-1300

## UPPER BODY SIDE COMPARTMENT

Two (2) upper body compartment shall be provided top of body with dimensions of approximately 90" and 12" to 20" deep.

The compartment shall have a lift-up door installed, constructed of 1/8" aluminum tread plate. The door shall have a stainless steel hinge and dual gas openers. The door opening shall be flanged upward 1" to prevent water from running into compartments when the door is closed. Two (2) heavy duty socket and plunger latches shall be installed to hold the door along with a heavy duty chrome grab handle to lift the door.

The compartment shall be located on the right side of the body.

Two (2)

44-22-0020

## COMPARTMENT EXTERIOR FINISH

The roof compartments shall be constructed from smooth aluminum painted to match the apparatus body.

Two (2)

55-01-3000

## COMPARTMENT LIGHT

One (1) LED light fixture shall be installed on the wall of the compartment. The light shall have a clear lens.

Two (2)

55-06-1100

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

One (1)

44-30-2100

## UPPER BODY WALKWAY

The walkway area on top of the apparatus body shall be constructed of polished aluminum tread

# Moberly Fire Department

plate and shall have continuously welded seams to prevent the entry of moisture. The non-slip surface shall comply with applicable NFPA standards. The deck area, between the roof top compartments shall be reinforced with rectangular tubing or hat sections so that the walkway will support several firefighters without damage or deflection.

One (1)  
44-30-2200

## **UPPER BODY WALKWAY LANDING**

A 2' x 2' landing area at the top of the access ladder shall be provided for entry into the walkway. The landing area shall be constructed of polished aluminum tread plate and shall have continuously welded seams to prevent the entry of moisture. The non-slip surface shall comply with applicable NFPA standards.

One (1)  
44-30-2400

## **ROOF ACCESS GRAB RAIL**

One (1) grab rail shall be positioned near the upper portion of the roof access ladder to assist with the transition of going from the ladder to the walkway.

One (1)  
60-26-1100

## **SHORELINE RECEPTACLES**

The following receptacles shall be wired to the shoreline power.

Two (2)  
60-25-2000

## **120V ELECTRIC RECEPTACLE -- TWIST LOCK**

Two (2) 120-volt 20 amp twist lock (NEMA L5-20) receptacle with spring loaded weatherproof cover shall be provided.

One (1)  
60-30-2370

The electric receptacle shall be located inside the left side exterior body compartment behind the rear wheels.

One (1)  
60-30-2400

The electric receptacle shall be located inside the right side exterior body compartment ahead of the rear wheels.

One (1)  
80-22-2414

## **TWO TONE BODY PAINT PROCESS**

### **Facility Certification**

The paint facility shall be in current compliance with 40 CFR (code of federal regulations) part

09/29/21



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63 subpart HHHHHH national emission standards for hazardous air pollutants: Paint stripping and miscellaneous surface coating operations at area sources (6H-NESHAP). Spray guns shall also be compliant certified by paint gun manufacturer.

## Cab / Module Prep

Prior to assembly, all joints and seams are to be mechanically etched. All welds shall be ground smooth prior to priming. The bare substrate of the module is first cleaned with a strong surface cleaner to remove fabrication and pneumatic tool oils. *The reason? Cleaning the surface prior to sanding prevents oils and contaminants from being imbedded into the substrate.* After sanding process, a mild surface cleaner removes any sanding dust residue along with pneumatic tool oil. A waterborne surface cleaner is available in case substrate was touched with bare hands or skin.

The following steps must be followed in sequence to properly apply paint to the Fire truck cab, chassis or module.

## SURFACE PREP

- Clean entire modular body with Sikkens OTO using the two-cloth method, wipe on wet, wipe dry. *Reason: Wiping our surface cleaners on wet, contaminants loosen and float to the top. Those floating contaminants then get wiped off with an absorbent towel.*
- Using an orbital sander, (where polyester filler will be applied) 80-grit is used to provide a mechanical tooth for optimal adhesion. 180-grit is then used surrounding the 80-grit area. Sikkens M600 surface cleaner is then used to remove sanding dust and pneumatic tool oil. If bare hands or skin accidentally touched the surface, Sikkens Autoprep waterborne cleaner is used to remove natural oils. *Again: All surface cleaners are applied wet with one towel and wiped dry with another.*
- Rosenbauer approved polyester body filler is then applied over the 80-grit ground areas to cover the imperfections from welds. When body filler dries, it's first sanded with 80-grit then finish sanded with 180-grit to remove all 80-grit sand scratches. Blow off surface dust using approved air wand.
- After body work has been completed, the rest of the aluminum substrate on module gets sanded with 80-grit sandpaper until the surface is bright and sand scratches are consistent. Module gets blown off again to remove all sanding dust.
- Step 1 is essential in achieving proper adhesion.

## EPOXY PRIMER and HIGH BUILD primer surfacer APPLICATION PROCESS:

- First, if sanded aluminum substrate has not been primed within 8 hours, aluminum substrate gets re-abraded to remove oxidation that may have begun on aluminum surface. Aluminum substrate gets cleaned with Sikkens M600 surface cleaner using the 2-towel method. Surface cleaners do not get applied over body filler due to polyester filler being absorbent.
- One (1) coat of AkzoNobel LV262 Epoxy primer is applied. This epoxy primer slows down

# Moberly Fire Department

corrosion from happening if in case the unit (once out in the field) has stone chips or scratches down to aluminum. This product is a 2-component epoxy primer meaning it mixes with a hardener. Paint technicians are trained to properly apply this product to achieve a minimum of 1 mil DFT (Dry film thickness) required by AkzoNobel. A blank module schematic showing specific areas to measure dry film thickness is completed on each module /unit.

- Allow LV262 25 minutes minimum dry time prior to applying AkzoNobel LV650 primer surfacer. Apply two to three wet coats of AkzoNobel LV650 two component low VOC high build primer surfacer. A dry film thickness of up to 8 mils can be achieved prior to sanding. Minimum flash between coats is 30 seconds to 5 minutes. LV650 surfacer dries 3 different ways. 8 hour dry without accelerator, bake for 1 hour at 140-degrees or accelerate which allows technicians to sand in 45 minutes @70-degrees.

## **SANDING:**

- Block sand entire module with 320-grit sandpaper minimizing any accidental cut throughs on edges. Blow off body with air gun and move module into paint booth.

## **PRE TOPCOAT PREPARATION**

- Clean areas where Rosenbauer approved seam sealer is applied with Sikkens M600 surface cleaner. If by accident, bare hands or skin touched surface on cab or module, Autoprep waterborne cleaner is used on these areas prior to using M600 cleaner. Both cleaners are used with the 2-towel method.
- Seam seal with Rosenbauer approved non-shrinking moisture cured urethane seam sealer. Technicians follow seam sealer technical data sheets pertaining to application and dry times prior to applying AkzoNobel BT650 basecoat or 650 Topcoat single stage paint.
- Clean module with M600 surface cleaner. If by accident, bare hands or skin touched surface on module, Autoprep waterborne cleaner is used on these areas prior to using M600 cleaner. Both cleaners are used with the 2-towel method.
- If there are any visible cut throughs, paint techs first use a pre-treatment Alodine wipe followed by one coat of reduced LV262 epoxy primer over these areas and give a 20-minute flash prior to applying BT650 basecoat or Topcoat.
- Tack rag unit to remove any lint or dust that could have landed on surface.

## **TOPCOAT PROCEDURE**

- Mix BT650 basecoat or Topcoat (single stage) polyurethane paint.
- Fluid and spray pattern checks are done prior to applying BT650 base, Topcoat and Clear coat.
- Apply BT650 basecoat until complete coverage is achieved. If Topcoat is applied, a minimum of 1.8 mils is recommended after cut and buff procedure. Note: Topcoat doesn't get clear coated.
- Allow solid color BT650 basecoat to flash 20 minutes prior to applying 3 coats Sikkens LV651 Glamour Clear coat.
- If a metallic color, allow BT650 basecoat to flash 45 minutes prior to applying 3 coats LV651 Glamour Clear coat. Bake body for 45 minutes once surface temp has reached 140-degrees.
- The mil thicknesses are as follows:

# Moberly Fire Department

- Autocoat BT LV262 Epoxy Primer 1.0 to 1.5 mils
- Autocoat BT LV650 2K Primer Surfacer 1.0 to 3.0 mils
- Autocoat BT LV650 Basecoat color 1.0 to 1.8 mils
- Autocoat LV651 Clearcoat 2.0 to 3.0 mils
- Combined total: 5.0 to 9.3 mils

One (1)  
80-30-1300

## **INTERIOR COMPARTMENT FINISH**

Ten (10) apparatus side compartment interiors are to be painted with a spatter finish material. The compartments shall be cleaned with a grease remover, and then the surface sanded and prepared for painting. The compartment shall be provided with two (2) coats of white epoxy. The compartments are then coated with a splatter paint top coat.

One (1)  
80-42-1600

## **TOUCH-UP PAINT**

Two (2) two (2) ounce bottles of touch-up paint (one for each color) shall be furnished with the completed truck at final delivery.

One (1)  
80-50-1700

## **SIMULATED GOLD LEAF LETTERING**

The lettering shall be applied in simulated gold leaf material, shaded in black and encapsulated in clear Mylar.

A quantity of fifty (50), four (4) inch letters are to be placed on the cab and on the body as directed by fire department.

One (1)  
80-70-1300

## **CAB AND BODY STRIPE**

A straight Scotchlite reflective stripe, 4" minimum in width, shall be applied horizontally around the cab and body in compliance with applicable NFPA 1901 standards. The purchaser shall specify the color and location of the stripe.

One (1)  
80-75-1600

## **COLOR OF STRIPING MATERIAL**

The color of the 3M brand striping material shall be white.

One (1)  
80-72-1100

## **CHEVRON STRIPING**

# Moberly Fire Department

The entire rear portion of the body shall have 3M reflective red and yellow striping installed. The chevron style striping shall be applied at a 45-degree upward angle pointing towards the center upper portion of the rear panel.

One (1)  
80-72-1800

## **CHEVRON STRIPING**

The rear door shall have 3M reflective red and yellow striping installed. The chevron style striping shall be applied at a 45-degree upward angle pointing towards the center on the rear roll up door.

One (1)  
80-79-1000

## **YELLOW SAFETY TAPE - STANDING & WALKING SURFACES**

The apparatus shall be NFPA standard 15.7.1.6 designating any horizontal standing or walking surface higher than 48-in (1220 mm) from the ground and not guarded by railing or structure at least 12-in (300 mm) high shall have at least a 1-in (25 mm) wide safety yellow line delineation that contrasts with the background to mark the outside perimeter of the designated standing or walking surface area, excluding steps and ladders.

One (1)  
90-03-3400

## **ROOF LADDER**

One (1) Duo Safety Model 875-DR, 16 foot aluminum roof ladder with folding steel roof hooks on BOTH ends and steel spikes on one end shall be provided on the apparatus. The ladder shall meet or exceed all latest NFPA Standards.

One (1)  
90-06-4600

## **EXTENSION LADDER**

One (1) Duo-Safety Model 900-A, 24 foot two (2) section aluminum extension ladder shall be provided on the apparatus. The ladder shall meet or exceed all the latest NFPA standards.

One (1)  
90-08-2600

## **FOLDING LADDER**

One (1) Duo Safety Model 585-A, 10 foot folding aluminum ladder shall be provided on the apparatus. The ladder shall meet or exceed all the latest NFPA Standards.

Two (2)  
90-16-2800

## **PIKE POLE**

Two (2) 10' pike pole with round handle shall be provided. The pike pole shall be of fiberglass construction.

# Moberly Fire Department

#10.

## Approximate Center of Gravity Calculated

City Name: **MOBERLY, MO2**

Chassis Vertical Center of Gravity From Ground		
Tilt Table		From Manufacture
Chassis Track Width-	0.00	41
Degree to Tip Over-	1.00	
Chassis CG (inches)-	0.00	

Ground to Top of Frame-	41
Rear Axle Track Width-	72

	Overall Height of Load	Top of Frame Rails to Bottom of Load	CG Above Frame	Weight	Vertical Moment (Inch Lbs)
Tank & Water (& Foam)- Lower	12	1.5	7.5	2756	20671.77273
Tank & Water (& Foam)- Upper	30.75	13.5	28.875	6617	191059.05
Hose	20.50	46.00	56.25	1325	74531.25
Pump	18	10	19	2700	51300
Body	83.5	-17	24.75	3696	91476
Ground Ladders	28	13.5	27.5	123	3382.5
Chassis	See Above		0.00	19487	0
Personnel (If 0 included in Chassis Weight)	56	4	32	1250	40000
Equipment	83.5	-16.5	25.25	5200	131300
Aerial Device	See Drawing			0	0
		Total	13.99	43154	603720.5727

CG Above Ground **54.99**

Verticle Center Of Gravity  
Height Compared To Track  
Width **76.37%**  
(To Be Less Than 80%)

Horizontal Center of Gravity  
(From Rear Axle) **86.67**



**Rosenbauer- South Dakota**

DEPARTMENT: MOBERLY, MO2

Wheel Base	199
C A	134
Cab to Pump Compartment	3
Pump Compartment	50
Tank Length Lower	138
Tank Length Upper	138
Body Length	168
Total Tank Capacity	1030
Aerial Size	0



Percent of Weight to Front Axle		
Water (& Foam) Lower	Body	Pump
4.52%	-2.01%	53.27%
Water (& Foam) Upper	Aerial	Hose
4.52%	NA	4.02%

	TOTAL WT	FRONT WT	REAR WT
Water (& Foam) Lower	2,756	125	2,632
Water (& Foam) Upper	6,617	299	6,318
Body	3,696	-74	3,770
Pump	2,700	1,438	1,262
Aerial	NA	0	0
<b>SUB TOTAL</b>	<b>15,769</b>	<b>1,788</b>	<b>13,981</b>
Chassis	19,487	14,947	4,540
<b>SUB TOTAL</b>	<b>35,256</b>	<b>16,735</b>	<b>18,521</b>
Miscellaneous Equipment	2,700	929	1,771
NFPA 1901 Equipment Allowance	2,500	-169	2,669
NFPA Personnel Load (Included in Chassis if 0)	1,250	1,250	0
Hose Load	1,325	53	1,272
Ground Ladders	123	-2	125
	0	0	0
<b>TOTAL</b>	<b>43,154</b>	<b>18,796</b>	<b>24,358</b>
		<b>43.56%</b>	<b>56.44%</b>

NOTE: Weights shown are approximate

Proposed chassis information:	Brand:	ROSENBEARU	Crew Doors:	4	
		2 Wheel Drive			GVWR
Axle Capacities:	Front:	20,000	Rear:	27,000	47,000
Estimated Chassis Weight: (includes +5% variance)	Front:	14947	Rear:	4540	

**NOTE:** Chassis weights **MUST BE VERIFIED** by the DEALER. Dealer will be responsible for confirming the axles are adequate for the proposed apparatus. 1000# extra capacity per axle is recommended.

## QUOTATION

## Heiman Fire Equipment

Moberly Fire Department  
 Don Ryan  
 310 North Clark Street  
 Moberly, Missouri 65270  
 660-269-8705  
 ryand@moberlyfd.com

*Chassis*

Exp. Date: 10/22/2021  
 Quote No: 10630-0002  
 09/29/2021

Page 1

PART NO	S	DESCRIPTION	QTY	PG
03-00-0002		=== CONFIGURATION ID: 2021C-XXXXX ===	1	1
03-00-001B		-- NO PRICE PROTECTION - AUGUST 2021 RELEASE	1	
03-00-0023		-- === Pricing as of Rosenbauer QW Release 08-24-21 Price Good Until 12-31-21	1	
		=====		
03-00-0030		-- Aluminum Surcharge	1	
03-00-0031		-- Frame Surcharge	1	
03-00-0101		-- Certification - NFPA	1	1
08-09-0100		-- Cab Paint Warranty Five Years	1	1
08-09-0104		-- Cab Structural Warranty Ten Years	1	2
08-09-0105		-- Transmission Warranty Allison Five Years	1	2
08-09-0106		-- Engine Warranty Cummins Five Years	1	2
08-09-0107		-- Frame Warranty Lifetime	1	2
08-09-0109		-- Front Axle Warranty Hendrickson	1	2
08-09-010A		-- Rear Axle Warranty Meritor - 5 Year	1	2
08-09-0110		-- Warranty - Cab and Chassis One Year	1	2
08-09-0301		-- Cab Test Information Static Load Seat Test	1	3
08-09-0302		-- Cab Test Information Crash Test ECE-29	1	3
08-09-0303		-- Cab Test Information SAE J2420; J2422	1	3
08-09-0304		-- Cab Test Information Roof Crush, Side & Frontal Impact	1	3
08-09-0501		-- Operation & Parts List Manuals (2) Sets, CD	1	4
08-09-0503		-- Engine & Transmission Operation Manuals (1) Set	1	4
08-09-0530		-- As Built Wiring w/Plumbing Diagram (1) Set	1	4
08-09-0540		-- On Board USB Manual Storage	1	5
08-80-0200		-- DOT KIT	1	5
		VEHICLE TYPE	1	
03-00-0124		Pumper	1	
03-00-0143		-- Additional Crossmembers RSD bodies	1	5
07-03-0102		-- Midship Pump Jackshaft Only	1	
03-00-0150	S	MAXIMUM OVERALL HEIGHT RESTRICTION NTE 12'	1	5
		CAB	1	6
03-00-0744		65" Cab Length 11" Roof	1	6
03-05-0622		-- Driver EMS Compt 26" Interior Height 16"x26"	1	9
03-05-0645		-- Driver Exterior Access - Hinged Door	1	9
03-05-0650		-- Black Door Handle - EMS Compt	1	9
03-05-0652		-- Manual Locks - EMS Compartment	1	10
03-05-0709		-- Interior Driver EMS Compt Access 18.75" W x 22" H -Sweep Out	1	10
03-05-0747		-- Interior Access Driver EMS Compt Hinged Door - 26"	1	10
03-05-0770		-- Driver's Side Interior EMS Door Hinge Location Outboard	1	10
03-05-9000		-- Compartment Shelf	1	10
05-01-1800		-- Driver EMS Compartment Interior Finish DA Sand	1	10
08-00-0713		-- Driver Mid EMS Compt Lighting LED Strip 18"	1	10
03-05-0822		-- Officer EMS Compt 26" Interior Height 16"x26"	1	11

PART NO	S	DESCRIPTION	QTY	PG
03-05-0845		-- Officer Exterior Access - Hinged Door	1	11
03-05-0850		-- Black Door Handle - EMS Compt	1	11
03-05-0852		-- Manual Locks - EMS Compartment	1	11
03-05-0909		-- Interior Officer EMS Compt Access 18.75" W x 22" H - Sweep Out	1	11
03-05-0947		-- Interior Access Officer EMS Compt Hinged Door - 26"	1	12
03-05-0970		-- Officer's Side Interior EMS Door Hinge Location Outboard	1	12
03-05-9000		-- Compartment Shelf	1	12
05-01-1810		-- Officer EMS Compartment Interior Finish DA Sand	1	12
08-00-0715		-- Officer Mid EMS Compt Lighting LED Strip 18"	1	12
		<b>CAB STEPS</b>	<b>1</b>	
03-06-0002		-- Stainless Steel	1	12
03-06-0014		-- SS Steps w/Round Hole and Star Extrusion Lwr, Treadplate Middle	1	12
		<b>CAB DOORS</b>	<b>1</b>	
03-06-1015		-- Cab Entry Doors	1	13
03-06-1025		-- Full Length Cab Entry Doors	1	14
03-06-1500		-- No Lower Door Kick Panel (No Overlay)	1	14
03-06-1110		-- Cab Door Hardware Black (4)	1	14
03-06-1120		-- Cab Door Locks Manual	1	14
03-06-1135		-- Interior 1-Piece Door Panel Type Aluminum	1	14
03-06-1201		-- Door Panel Finish Gray Polyurethane	1	15
04-05-0105		-- Interior Handle Front Door Grab Handles - Black Powder Coat	1	15
04-05-0150		-- Interior Grab Handle Rear Door Chicago Style 34" Black Powder Coat	1	15
		<b>CAB GLASS</b>	<b>1</b>	
03-08-0101		-- Windshield One Piece - COMMANDER	1	16
03-08-0102		-- Windshield Wiper System Single Motor (2) Wipers - 3D Grille	1	16
08-02-0135		-- Windshield Wiper Activation Switch on Driver Panel	1	16
03-08-0115		-- Window Driver w/Manual Regulator	1	16
03-08-0117		-- Window Officer w/Manual Regulator	1	17
03-08-0200		-- Window Driver Crew Door w/Manual Regulator	1	17
03-08-0240		-- Window Officer Crew Door w/ Manual Regulator	1	17
03-08-0300		-- Window Side Middle Driver Fixed 15.5W" x 21.5"H	1	17
		<b>CAB INTERIOR AND TRIM</b>	<b>1</b>	<b>18</b>
04-01-0104		-- ===11 Raised Cab 65" Interior Trim ===	1	
03-09-8010		-- Cab Insulation Interior Ceiling	1	18
03-09-8015		-- Cab Insulation Engine Tunnel	1	18
03-09-8020		-- Cab Insulation Cab Damping	1	19
04-01-1120		-- Interior Trim Color Gray Rear Wall 11" Roof	1	19
04-01-3004		-- Interior Trim Color Gray, 65" -11" Roof	1	19
04-02-1002		-- Suspended Throttle and Brake Pedals	1	19
04-02-1110		-- Interior Floor Covering Color Gray, 65"	1	20
04-02-1702		-- Interior Trim Sun Visor Tinted	1	20
04-02-1798		-- Cab Coating Interior Color	1	20
05-01-1055		-- Cab Coating Interior Gray Polyurethane	1	20
		<b>CAB DASH AND ENGINE TUNNEL - 65" LONG</b>	<b>1</b>	<b>20</b>
04-03-1050		-- Cab Dash & Engine Tunnel Alum Dash - Overhead HVAC	1	20
04-03-1010		-- Cab Dash & Engine Tunnel Coating Gray Polyurethane	1	22
04-04-1360		-- Cup Holders	1	22
08-01-0144		-- Instrumentation Panel Inlay - Powder Coat Black	1	23
		<b>CAB EXTERIOR - 65"</b>	<b>1</b>	
		<b>CAB HEADER - HEAT AND AC</b>	<b>1</b>	<b>23</b>
03-08-4000		Cab Header / Heating and AC	1	23
05-02-0012		-- Heating w/ Air Conditioning, Overhead, 12V DC	1	23
05-01-6010		-- Cab Paint A/C Condenser on Roof	1	26
05-02-0047		-- Heater Hose - Silicone	1	26
05-02-0054		-- Advanced Wiring Rear Crew Controls	1	26
05-02-0200		-- A/C Condenser Location Roof Mount Mid Center	1	26
08-02-0120		-- Heat & A/C Activation Manual Drvr Panel Mounted & Rear Crew Controls	1	26
08-02-0100		-- Rear Crew Controls Manual - Located Overhead Center	1	26
		<b>SEATS</b>	<b>1</b>	
03-09-0100		-- Seat Color Gray/Red Seat Belt	1	27

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PART NO	S	DESCRIPTION	QTY	PG
03-09-01X1		-- Seat Driver 911 Seats Inc XL 4-Way Air ABTS	1	27
03-09-000A		-- Single Retractor Seat Belt - Seats Inc	1	27
03-09-0121		-- Seat Back Non-SCBA	1	27
03-09-02X2		-- Seat Mounting Driver Air XL - Seats Inc	1	27
03-09-0906		-- Seat Material Endurance Vinyl	1	27
03-09-0920		-- Seat Logo Rosenbauer	1	28
03-09-3010		-- Driver Seat Box Storage Compartment	1	28
03-09-3236		-- Seat Box Driver & Officer Storage Access Doors (2) Driver/Officer	1	28
03-09-024A		-- Seat Officer 911 XL Seats Inc Fixed ABTS	1	28
03-09-000A		-- Single Retractor Seat Belt - Seats Inc	1	29
03-09-011A		-- Seat Back SCBA Halo Center Cushion Release	1	29
03-09-02X5		-- Seat Mounting Officer Fixed XL Seats Inc	1	29
03-09-0906		-- Seat Material Endurance Vinyl	1	29
03-09-0920		-- Seat Logo Rosenbauer	1	29
03-09-3020		-- Officer Seat Box Storage Compartment	1	29
03-09-041B		-- Three (3) Forward Facing Seats - XL	1	
03-09-048B		-- Seat Crew Forward Facing Outer XL Seats Inc Flip-Up	2	29
03-09-000A		-- Single Retractor Seat Belt - Seats Inc	2	30
03-09-011A		-- Seat Back SCBA Halo Center Cushion Release	2	30
03-09-051A		-- Seat Mounting Forward Facing - XL	2	
03-09-0906		-- Seat Material Endurance Vinyl	2	30
03-09-0920		-- Seat Logo Rosenbauer	2	30
03-09-055B		-- Seat Crew Forward Facing Center 911 Seats Inc XL Flip-up	1	31
03-09-000A		-- Single Retractor Seat Belt - Seats Inc	1	31
03-09-011A		-- Seat Back SCBA Halo Center Cushion Release	1	31
03-09-057A		-- Seat Mounting Forward Facing Center - XL	1	31
03-09-0906		-- Seat Material Endurance Vinyl	1	32
03-09-0920		-- Seat Logo Rosenbauer	1	32
03-09-3102		-- Seat Box Three (3) Forward Facing Seats	1	32
03-09-3200		-- Seat Box (60/54) Forward Facing Storage Access Cutout (1) Center Forward	1	32
03-09-4001		-- Seat Box Finish - Match Cab Interior Coating	1	32
04-05-1900		-- Exterior Grab Handles 18" Aluminum	1	32
04-05-1910		-- Exterior Grab Handles Bare Aluminum	1	32
04-05-0200		-- Exterior Grab Handles Aluminum with Stanchions 18"	4	32
		<b>CAB FRONT FASCIA</b>	1	
04-08-0010		===== Traditional Front with Rectangular Headlamp Bezels =====	1	33
04-08-0140		-- Front Grille, 3D Stainless Steel	1	33
04-08-0022		-- Wing Light Bezel - Stainless	1	33
04-08-0052		-- Department Name Laser Cut Center Grille Bar	1	33
04-08-0053		-- Grille Back Lighting - Red	1	34
08-01-1500		-- Backlit Grille Bar Activation - P2P	1	34
04-08-0072		-- Front Grille Inlay - Commander - Painted American Flag	1	34
06-03-2010		-- Fluid Checks & Fills at Grille L9	1	34
08-00-0503		-- Headlights, Quad, with Rectangular Bezel	1	34
08-00-0540		-- Headlight Location - Upper Bucket	1	35
08-00-0602		-- Front Turn Signals Whelen 600 LED (2)	1	35
08-00-0630		-- Turn Signal Located Below Headlights	1	35
08-00-0608		-- Front Marker Lamps Face Mounted LED (Center 3 Lightings, 2 Corner)	1	35
08-00-061C		-- Side Marker Light LED - Chrome (2)	1	35
08-01-0303		-- Headlight & Marker Light Activated Rocker Switch Driver Panel	1	35
04-08-0151		Cab Fender Stainless Steel	1	35
04-09-0300		Logo, Commander, Cab Sides	1	36
04-10-0351		Mud Flaps Front	1	36
		<b>CAB TILT</b>	1	
05-00-0221		Cab Tilt System - Heavy Duty w/ Manual Back Up	1	36

PART NO	S	DESCRIPTION	QTY	PG
05-00-0021		-- Cab Tilt Limit Switch	1	37
05-00-0045		-- Cab Tilt Lock Down Indicator	1	37
05-00-0100		-- Cab Tilt Control Receptacle Temp	1	
		<b>REARVIEW MIRRORS</b>	<b>1</b>	<b>38</b>
05-00-5005		Bus Style Mirrors	1	38
05-00-7002		-- Ramco-Bus-Drv Cwl Mt (1352-A18PHCHR)-Off Cwl Mt (1352-A18PHCHR)-H&R,H&R(LWR)CVX	1	38
08-01-0821		-- Rearview Mirror Remote & Heat Switch Driver Panel	1	38
		<b>EXTERIOR CAB PAINT</b>	<b>1</b>	
05-01-5015		Cab Paint Exterior Two Tone	1	38
05-01-5020		-- Cab Paint Upper / Secondary	1	39
05-01-5021		-- Cab Paint Lower / Primary	1	39
05-01-5025		-- Cab Paint Exterior Breakline - Standard	1	39
05-01-6051		-- Cab Undercoating	1	39
05-01-7000		-- Paint Spray Out	2	39
		<b>FRONT AXLE</b>	<b>1</b>	
07-05-010B		Front Axle Hendrickson SteerTek 20000#	1	40
07-05-0120		-- Front Wheel Bearing Lube Oil	1	40
07-05-0272		-- Front Suspension Hendrickson Parabolic Spring 20K	1	40
07-05-0341		-- Power Steering Gear TRW TAS 85 w/Assist- 20K and up - L9 Steertek Axle	1	41
07-06-0420		-- Chassis Alignment	1	41
07-06-0522		-- Front Cramp Angle 45 Degrees	1	41
07-07-014A		-- (2) Steer Tires 385/65R 22.5 Michelin X Multiway HD XZE "L"	1	41
07-06-0436		-- Counter Acting Balancing Beads	2	42
07-07-0720		-- (2) Front Wheels Alcoa Polished 22.5 x 12.25 Aluminum	1	42
07-08-0201		-- Front Brakes S-Cam Drum 16.5" x 6"	1	42
07-05-0314		4 Spoke Steering Wheel Tilt/Telescopic 18"	1	43
		<b>REAR AXLE</b>	<b>1</b>	
07-06-0102		Rear Axle, Single, 27000# Meritor RS-25-160	1	43
07-06-0251		-- Rear Suspension Reyco 79KB Spring 27000# Conventional RS-25-160	1	44
07-08-0251		-- Rear Brakes S-Cam Drum 16.5" x 7"	1	44
07-06-0300		-- Rear Shock Absorbers	1	44
07-06-1100		-- Tire Chains, Auto, On-Spot 6 Strand	1	44
07-07-0326		-- (4) Rear Tires 12R 22.5 Michelin XDN2 "H"	1	45
07-06-0436		-- Counter Acting Balancing Beads	4	45
07-07-0784		-- (4) Rear Wheels Alcoa Polished 22.5 x 8.25 Aluminum	1	45
07-07-0610		-- Valve Stem Extension - Single Axle	1	45
07-07-0996		-- Vehicle Top Speed 68	1	46
07-08-0101		-- Antilock Braking System Single Axle	1	46
07-08-0189		-- Air Tank Brackets - Hot Dipped Galvanized	1	46
07-08-0301		-- Park Brake Rear Wheels Only	1	47
08-02-0130		-- Park Brake Control Driver Dash	1	47
07-08-0410		-- Wabco System Saver 1200	1	47
07-08-0558		-- Moisture Ejectors Auto Heated	1	48
07-08-0570		-- Air Supply Lines Nylon	1	48
07-09-001B		Frame Double Channel 35" Frame Width	1	48
07-09-0035		-- Wheelbase Range 190" - 199"	1	
07-09-0071		-- Rear Overhang	1	
07-09-0130		-- Frame Paint Powder Coat Black	1	51
07-13-0116		-- Front Suction - Universal Frame	1	51
07-13-0110		-- Front Bumper Suction 5" Officer Behind Front of Cab	1	51
		<b>ENGINE</b>	<b>1</b>	
06-00-0050		-- Engine Placement	1	51
06-00-1610		-- Engine, Cummins L9, Base Spec, 2021- Commander	1	51
06-00-0051		-- Cummins L9 Surcharge	1	53
06-00-1621		-- 400HP Cummins L9 - 2021	1	53
06-02-1110		-- Fan Clutch - L9	1	53
06-04-3000		-- Fan Clutch Programming - Standard	1	53
06-02-1526		-- Auxiliary Engine Brake Compression Brake (JAKE)	1	53
08-01-0204		-- Auxiliary Engine Brake Control On/Off & Low/Med/High Switch Driver Panel	1	54

PART NO	S	DESCRIPTION	QTY	PG
06-02-2003		-- AC Compressor - L9	1	
06-03-1010		-- Engine High Idle Speed 1250 RPM	1	54
06-03-1025		-- Engine High Idle Control Manual & Automatic w/o Load Mng	1	54
06-05-3010		-- Engine Air Intake Filtration and Restriction L9	1	54
06-06-3745		-- Engine Exhaust System One Piece Officer Side, L9, 2021	1	55
06-06-4006		-- DEF Tank - Commander	1	56
06-06-4100		-- DEF Tank Access Fill Door	1	56
06-08-0100		-- Engine Exh Acc Temp Mitigation	1	56
06-08-0200		-- Engine Exhaust Wrap	1	56
08-02-0140		-- DPF Control Regeneration Switch & Inhibit Switch Covered	1	56
06-04-2002		-- Engine Cooling System- L9	1	57
06-04-4010		-- Coolant Valve Shut Off Valve w/Connection - For Additional Heater	1	58
06-05-1002		-- Engine Pump Heat Exchanger L9	1	58
<b>TRANSMISSION</b>			1	
07-01-0100		-- Transmission Allison 3000 EVS	1	58
07-01-0500		-- Transmission Fluid - Standard	1	59
07-02-0008		-- Transmission GEN V-E Push Button Key Pad	1	59
07-02-0052		-- Transmission Mode Programming 5th Startup/5th Mode	1	60
07-02-0066		-- Transmission Feature Programming I/O Package 198/Pumper	1	60
07-02-0251		-- Driveline Spicer 1710 HD	1	60
07-04-0120		-- Fuel Filter/Water Separator Cummins FS1098	1	61
07-04-0310		-- Fuel Tank 50 Gal/189 Liter, Dual Fill	1	61
07-04-0216		-- Fuel Lines Aramid Braid	1	62
07-04-0225		-- Fuel Shutoff Valve (2) at Filter	1	62
07-04-0230		-- Fuel Cooler Rearward of Battery Box	1	62
08-00-0403		-- Alternator Delco Remy 275 Amp	1	62
<b>ELECTRICAL SYSTEM</b>			1	
08-00-0101		Electrical System 12V DC	1	63
04-04-1312		-- (1) Power Point & (1) Dual USB 12V Power Point - Driver's Side	1	67
04-04-1332		-- (1) Power Point & (1) Dual USB 12V Power Point - Officer's Side	1	67
08-01-0075		-- Driver Panel / Controls & Switches - 12V DC	1	67
08-01-0240		-- Master Warning Switch on Driver Panel	1	67
08-02-0511		-- Aux Pwr & Gnd Stud 40A Mstr Sw	2	68
08-04-1000		-- Radio WB/AM/FM - Console Mount	1	68
08-04-2100		-- Four (4) Speakers	1	68
08-02-0612		-- Class 1 VDR/Seat Belt Warn	1	68
08-01-001A		-- Commander Analog Gauge Aluminum Dash	1	69
08-01-0010		-- Instrumentation Standard Gauge Panel	1	69
08-01-0125		-- Instrumentation Backlighting Red	1	73
08-00-0341		4 Battery System	1	73
08-00-0326		-- Batteries (4) Group 31	1	73
08-00-023E		-- Battery Box Driver/Officer Side Hot Dipped Galvanized Steel w/Covers	1	73
08-00-0249		-- Battery Cables (4)	1	73
08-00-0251		-- Battery Jumper Studs Front Driver Lower Step	1	74
08-01-0034		-- 2 Position Battery Master - Driver's Kick Plate	1	74
08-01-0036		-- Ignition Switch	1	
08-01-0040		-- Power & Ground Stud 40A Batt Direct / 15A Ignition	1	74
08-00-072D		-- Ground Lights LED Whelen 3SC0CDCR	4	74
08-01-0751		-- Ground Lights Activation with Park Brake	4	75
08-00-0735		-- Cab Step Lights LED (1 Per Step)	4	75
08-01-0753		-- Step Lights Activated Respective Side	4	75
08-00-0783		-- Engine Compartment Work Light LED (2)	1	75
08-00-0791		-- Interior Overhead LED Lighting - Red/Clear	1	75
08-00-4090		Dr Open/Hazard Wrn Lt, Flash, Whelen 3SR00FRR LED Rnd (Do Not Move Appar	1	75
08-01-2010		Back-Up Alarm Ecco 575	1	76
08-02-0770		-- HAAS Alert System, HA-5	1	76
08-02-0775		-- HAAS - 5 Year Subscription	1	77
08-08-KM13		Battery Chrg, KUSS, Autocharge 1200 w/ Integrated Display with Auto Eject Only	1	77
08-08-0005		-- Battery Charger Location - On Top of Driver's EMS Compartment	1	77
08-08-0195		-- Automatic Shoreline - 20 Amp Cover with Digital Display	1	77



#10.

PART NO	S	DESCRIPTION	QTY	PG
08-08-2125		-- Super Auto Eject, 20A, Yellow, 40 Amp Charger, Integrated Digital Display	1	78
08-08-06SF		-- Shoreline Location Driver's Front Stepwell	1	78

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# Moberly Fire Department

One (1)  
03-00-0002

=== CONFIGURATION ID: 2021C-XXXXX ===

One (1)  
03-00-0101

## **NFPA 2016 STANDARDS**

This unit shall comply with the NFPA standards effective January 1, 2016.

Certification of slip resistance of all stepping, standing and walking surfaces shall be supplied with delivery of the apparatus.

A plate that is highly visible to the driver while seated shall be provided which states the overall height, length, and gross vehicle weight rating.

The manufacturer shall have programs in place for training, proficiency testing and performance for any staff involved with certifications.

An official of the company shall designate, in writing, which is qualified to witness and certify test results.

One (1)  
8-09-0100

## **PAINT WARRANTY FIVE YEAR**

The AKZO paint performance guarantee will cover the areas of the vehicle finished with the specified product for a period of FIVE (5) years beginning the day the vehicle is delivered to the purchaser.

The full apparatus chassis, manufactured and painted by Rosenbauer Motors, LLC, shall be covered for the following paint failures as outlined on the guarantee certificate:

- Peeling or delaminating of the topcoat and/or other layers of paint.
- Cracking or checking.
- Loss of gloss caused by cracking, checking, or hazing.
- Any paint failure caused by defective AKZO Fleet Finishes, which are covered by this guarantee.

All guarantee exclusions, limitations, and methods of claims are covered in the full certificate provided to the original purchaser.

Note: Surety bond, if required, will cover standard one-year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

One (1)  
08-09-0104

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## **CAB STRUCTURE WARRANTY**

The cab structure shall be warranted for a period of ten (10) years with the complete detail of the warranty outlined in a document provided upon request.

One (1)  
08-09-0105

## **TRANSMISSION WARRANTY**

The Allison EVS transmission shall be warranted for a period of five (5) years with the complete detail of the warranty outlined in a document provided upon request.

One (1)  
08-09-0106

## **ENGINE WARRANTY**

The Cummins engine shall be warranted for a period of five (5) years or 100,000 miles, whichever comes first, with the complete detail of the warranty outlined in a document provided upon request.

One (1)  
08-09-0107

## **FRAME WARRANTY**

The frame and cross members shall carry a lifetime warranty with the complete detail of the warranty outlined in a document provided upon request.

One (1)  
08-09-0109

## **FRONT AXLE WARRANTY**

The front axle shall be warranted by Hendrickson for five (5) years or 500,000 miles, whichever comes first, under the general service application.

One (1)  
08-09-010A

## **REAR AXLE WARRANTY**

The rear axle(s) shall be warranted by Meritor for five (5) years with unlimited miles under the general service application.

One (1)  
08-09-0110

## **CAB AND CHASSIS WARRANTY**

The cab and chassis shall carry a twelve (12) month warranty providing limited parts and labor from the date the complete apparatus is delivered to the end user. The complete detail of the warranty shall be outlined in a document provided upon request.

One (1)

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08-09-0301

## **STATIC LOAD SEAT TEST INFORMATION**

This model of seat shall have successfully completed the static load tests set forth by FMVSS 207/210. This testing shall include a simultaneous forward load of 3000 pounds each on the lap and shoulder belts and twenty (20) times the weight through the center of gravity. This model of seat installed in the cab model, as specified, shall have successfully completed the dynamic sled testing using FMVSS 208 as a guide with the following accommodations. In order to reflect the larger size outfitted firefighters, the test dummy used shall be a 95th percentile hybrid III male weighing 225 pounds rather than the 50th percentile male dummy weighing 165 pounds as referenced in FMVSS 208.

The materials used in construction of the seat shall also have successfully completed testing with regard to the flammability of materials used in the occupant compartments of motor vehicles as outlined in FMVSS 302, of which dictates the allowable burning rate of materials in the occupant compartments of motor vehicles.

One (1)  
08-09-0302

## **CAB TEST INFORMATION**

The cab as built shall have successfully completed the pre-load side impact, static roof load application and frontal impact without encroachment to the occupant survival space when tested in accordance with Section 4 of SAE J2420 COE Frontal Strength Evaluation Dynamic Loading Heavy Trucks, Section 5 of SAE J2422 Cab Roof Strength Evaluation Quasi –Static Loading Heavy Trucks and ECE R29 Uniform Provisions Concerning the Approval of Vehicles with regard to the Protection of the Occupants of the Cab of a Commercial Vehicles Annex 3 Paragraph 5.

The above tests shall have been witnessed by and attested to by an independent third party. The test results shall have been recorded using cameras, high speed imagers, accelerometers and strain gauges.

Documentation of the testing shall be provided upon request.

One (1)  
08-09-0303

## **CAB INTEGRITY CERTIFICATION**

The manufacturer shall provide a cab crash test certification with this proposal including SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading for Heavy Trucks and SAE J2420 COE Frontal Strength Evaluation - Dynamic Load for Heavy Trucks.

One (1)  
08-09-0304

## **CAB TEST INFORMATION**

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## Roof Crush

The cab shall be subjected to a roof crush test of 120,000-pounds exceeding the requirements of ECE 29 criteria. The 120,000-pound requirement is important to ensure to most structurally sound and safe cab in the event of a crash or roll over.

## Side Impact

The cab shall be subjected to dynamic moving barrier slammed into the side of the cab at 7.5 mph, striking with an impact of 15,157-foot pounds of energy. This test will closely represent the forces a cab would incur in a rollover incident.

## Frontal Impact

The cab shall withstand a frontal force produced from a moving barrier slammed into the front of the cab traveling at 10.5 mph, striking with an impact of 42,587-foot pounds of energy.

The same cab shall withstand all tests without any measurable intrusion into the survival space of the occupant area.

One (1)  
08-09-0501

## **OPERATION AND PARTS LIST MANUALS**

Each cab and chassis shall include two (2) electronic copies of the operation manuals and parts listings. The manuals shall include information specific to the components included on the apparatus.

One (1)  
08-09-0503

## **ENGINE AND TRANSMISSION MANUALS**

One (1) paper copy of the specific engine and transmission manuals shall accompany each cab and chassis.

One (1)  
08-09-0530

## **AS BUILT WIRING DIAGRAMS**

Each cab and chassis shall include one (1) digital copy of the wiring schematics and component wiring. The wiring schematics shall be developed on a software program such as VeSys Design or equal that provides continuity in files and diagram. The software shall allow you to trace through the design schematics to identify cross referenced items such as in-line connectors and wires. The software shall be interactive which allows you to view one electrical assembly

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drawing, click on a wire routing and the program will take you to the related circuit assembly or termination point. The software shall also provide a searchable function allowing you to view multiple diagrams using readily available pdf viewers. The digital copy of the wiring schematics shall be compatible with hand held devices such as I-Pads.

One (1)  
08-09-0540

## **USB STORAGE**

For ease of service the chassis shall come with an on-board USB flash drive. The flash drive shall have a minimum of 8 GB of storage capacity; and shall be located behind the access panel on the driver side kick panel, next to the data port for the engine.

The following items shall be stored on the Flash Drive. No Exception.

- As built wiring diagrams
- Plumbing diagram
- Chassis, body and aerial manuals

The USB shall be accessible through a 3 foot (3') USB-A to USB-B cable.

One (1)  
08-80-0200

## **ROAD SAFETY KIT**

One (1) 2-1/2# ABC DOT Approved fire extinguisher shall be provided. The fire extinguisher shall be shipped loose with the chassis.

One (1) set of DOT approved hazard triangles shall be supplied with the chassis. They shall be stored in a plastic case and shipped loose with the chassis.

One (1) first aid kit

One (1)  
03-00-0143

Additional Crossmembers RSD bodies

One (1)  
03-00-0150

## **MAX HEIGHT**

The maximum height of the apparatus shall not exceed 12'.

144"

One (1)  
03-00-0500



# Moberly Fire Department

CAB

One (1)  
03-00-0744

## **CAB CUSTOM STYLE**

The cab shall be a custom, cab over engine style, with the driver and officer positions ahead of the engine and front axle. The cab shall be specifically designed and manufactured for the fire service industry.

The cab shall be designed by manufacturer's Engineering to meet the unique, Heavy-duty construction specifications. The raw cab will be fabricated to meet the exacting demand of the fire industry and shall be manufactured by a company with no less than 50 years of experience in building custom cabs. All aspects of the cab will be quality checked by manufacturer's personnel. All cab and chassis customization and assembly will take place on the manufacturers premises. The cab shall be of a totally enclosed full tilt design, with the interior area completely open to improve visibility and verbal communication between the occupants. The cab shall be capable of tilting 45-degrees, allowing the chassis engine to be removed, if required, without tilting the cab beyond 45-degrees. No Exceptions.

The cab shall include a four (4)-point rubber isolated cab pivot and mounting system. The rear histic mounts shall be isolated from the chassis frame to reduce the transfer of road vibrations and frame torque into the cab, while providing superior handling characteristics. No solid mounted rear lock downs shall be acceptable. No Exceptions.

The front cab pivot assemblies shall be 1/2" A36 steel plate with a .31" thick 2-1/2" diameter tube cross member mechanically attached to the cab and frame. There shall be two (2) greaseable rubber isolated engineered bushings to reduce the transfer of road vibrations into the cab.

The cab shall be locked down by a two (2)-point automatic spring-loaded hook mechanism that actuates after the cab has been lowered.

The cab super-structure shall be designed with high strength 6061-T6 Aluminum extrusions and 3/16" 5052-H32 Aluminum plate. This shall include the "A", "B", "C" and "D" extruded pillars, triple wall front end reinforced by 3/16" thick x 2"x3" extrusion tubes, 3/16" side walls and rear wall. This shall offer superior occupant protection in the event of vehicle impact.

The extrusions shall provide adequate space for routing of wiring and hoses which will provide service accessibility. Routing of harnessing which requires pulling of wires through tubes will not be allowed. No Exceptions.

09/29/21

# Moberly Fire Department

The "A" pillar shall be of a closed section, one-piece extrusion extending from the cab header to the bottom of the cab. This design shall ensure strength and superior resistance to buckling in the event of a frontal impact.

The cabs front corners shall be constructed of 5052-H32 stamped Aluminum to provide a consistent material composition. The stamping process alleviates the high tendency of fractures through the fusing of dissimilar metal composition as appears with a casting process.

Cast cab components, including cab corners, "A" pillars and front fascia components shall not be acceptable due to the high tendency of fractures. No Exceptions.

Additional cab strength shall be obtained through closed section, dual extrusions in the construction of the "D" pillars.

The front façade shall be constructed with dual wall .19" thick 5052-H32 Aluminum plates which make up the front bulkhead, reinforced by .19" thick 6061-T6 Aluminum extrusion (box-sections), though-out the inner and outer perimeter of the front end / façade. The reinforcing third wall / barrier is .13" thick 5052-H32 work hardened Aluminum façade panels. All panels shall be welded, no adhesive.

The cab side wall of the cab shall be 3/16" thick 5052-H32 Aluminum plate. The cab side plate shall wrap the corner of the cab b pillar and slam post. The cab rear wall plates shall be reinforced with a minimum of two (2) 3/16 x 3" Aluminum sections; the cab side reinforcements shall be a minimum of 28" apart and span from the cab B pillar and cab C pillar.

The rear wall of the cab shall be 3/16" thick 5052-H32 Aluminum plate. The rear cab plate shall wrap the corner of the cab and attach to the cab D pillar and slam post. The cab rear wall plates shall be reinforced with four horizontal and dual vertical support sections; the dual vertical support structure shall consist of 1/8" thick x 2" 6061-T6 Aluminum tubes and the horizontal hat sections shall consist of 1/8" thick x 4" 5052-H32 Aluminum. The dual vertical support sections shall be 40" a-part, and the cab shall contain a minimum of four (4) 4" hat section horizontal supports.

Additionally, the rear edge of the floor shall include a 3/16" 6061-T6 Aluminum tube extrusion (under the floor) and a 7" 5052-H32 Aluminum cab floor support section (above the floor)

The outside cab width shall measure 99" across. The interior cab shall have a width of 93".

The cab length shall measure 77.3" from the center of the front axle to the front cab skin and 65" from center of the front axle to the back of the cab, for a total cab length of 142.3".

# Moberly Fire Department

The cab shall also feature ample driver and officer foot room, a total of 3.7 square feet for the driver and 4.45 square feet of floor space at the officer's feet. (No exceptions)

The crew floor shall feature a complete flat floor design, including provisions for a one o'clock PTO inclusion, while still offering an uninterrupted 25 total square feet of space.

The leading edge of the cab floor from the steps shall meet NFPA 15.7.4 slip resistance requirements on both the front and rear cab doors. No Exceptions.

The cab shall meet or exceed cab impact test (SAE J-2420, cab rollover test (SAE J2422), and cab seating requirements (FMVSS 210, and FMVSS 208).

The cab shall include 4 doors. They shall have a front two (2) cab doors shall have a minimum clear opening of 42.5" wide by 81" high measured from the top of the lower cab step to the top of the door opening.; and the rear two (2) crew doors shall be a minimum clear door opening of 38.5" wide by 91.5" high measured from the top of the lower cab step to the top of the door opening. The length of the door will vary depending on door type.

## **ROOF STYLE - 11" RAISED**

The cab roof design shall incorporate an angled front roof, transitioning into a rolled extrusion for a swept back design.

The roof height shall feature an 11" raise starting over the driver and officer positions and continuing back to the roof and rear wall joint. Raised roof designs that do not include a raised portion over the driver and officer positions will not be acceptable. No Exceptions.

The roof of the cab shall feature dual .25" thick interlocked structural member extrusions running the entire width of the cab defending against buckling in the event of a rollover.

The cab header shall feature dual 6061-T6 Aluminum extrusions which shall offer superior rigidity and strength.

The raised roof shall offer a crew head height area of 66-1/2" from the floor to the ceiling in the crew areas for optimum headroom.

The crew roof super structure shall include a reinforcement hat-section structure 1/8" thick 5052-H32 Aluminum bracing. The for-aft support braces will be 24" on center apart, the side to side support braces will stretch from cab side to cab side and centered between the dual 3/16" extruded and plate reinforced roll-cage section.

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The forward cab roof section shall include a combination of 1/8" 6061-T6 extruded tube reinforcements and a hat-section structure 1/8" thick 5052-H32 Aluminum bracing. The bracing shall wrap the entire perimeter of the cab forward roof, and the condenser support structure.

The condenser support structure shall include 1/8" triple sections, supporting the outer perimeter and center of the condenser mounting pad.

Additionally, the entire roof super structure is reinforced by a .25" thick roof edge corner extrusion around the entire cab perimeter.

A drip rail shall be provided along the top radius of each cab side. The drip rails shall help prevent water from the cab roof running down the cab side.

One (1)  
03-05-0622

## **DRIVER SIDE EMS COMPARTMENT**

The driver side of the cab shall feature a compartment which is designed for housing emergency medical equipment. The compartment shall be located immediately behind the driver's seat and the interior shall measure 23" wide x 26" tall x 24" deep.

- The compartment shall feature an opening on the exterior and/or interior of the cab.
- The compartment shall have a minimum of 8 cubic feet of storage. No Exceptions

One (1)  
03-05-0645

## **DRIVER SIDE EMS COMPARTMENT – Exterior Hinged Door**

The EMS compartment shall feature:

- A hinged box pan style exterior compartment door
- A hidden, piano style Stainless-steel door hinge which shall be mounted inside the panel of the door prohibiting dirt and debris from becoming trapped in the hinge.
- A clear door opening of approximately 17.5" wide x approximately 25.5" tall
- The door shall open as far as possible without contacting the side of the cab or interfere with the opening or closing of the officer's door.
- The compartment floor shall be a sweep out design

One (1)  
03-05-0650

## **EMS COMPARTMENT HANDLE**

The EMS compartment handle shall be a die cast steel, black door handle.

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One (1)  
03-05-0652

## **EMS COMPARTMENT LOCKS**

The door handle shall include an integral manual door lock, which may be unlocked from the exterior with a key.

One (1)  
03-05-0709

## **INTERIOR DRIVER EMS COMPARTMENT ACCESS**

The interior Driver EMS compartment shall have an opening 18.75" W x 22" H. The compartment shall have a sweep out design. Compartment with a lip along the bottom shall not be accepted. No exception.

One (1)  
03-05-0747

## **EMS COMPARTMENT INTERIOR ACCESS**

The driver EMS compartment shall feature interior access through a hinged door towards the rear of the cab.

One (1)  
03-05-0770

## **HINGE LOCATION**

The driver's interior EMS compartment hinged door shall have the hinge located on the outboard side of the compartment. (Near the Cab Exterior)

Hinge to be located by the cab exterior

One (1)  
03-05-9000

## **COMPARTMENT SHELF**

One (1) adjustable shelf shall be installed in the interior cab compartment. The shelf shall be constructed from aluminum.

One (1)  
05-01-1800

## **DRIVER EMS COMPARTMENT INTERIOR FINISH**

The interior of the driver side EMS compartment shall have a DA sanded finish.

One (1)  
08-00-0713

## **DRIVER EMS CAB COMPARTMENT LIGHTING**

09/29/21

# Moberly Fire Department

The driver's side EMS compartment shall include one (1) 18" strip of LED lighting and shall be located in the inside front corner of the compartment near the door.

One (1)  
03-05-0822

## **OFFICER SIDE EMS COMPARTMENT**

The officer side of the cab shall feature a compartment which is designed for housing emergency medical equipment. The compartment shall be located immediately behind the officer's seat and the interior shall measure 18.5" wide x 26" tall x 23" deep.

- The compartment shall feature an opening on the exterior and/or interior of the cab.
- The compartment shall have a minimum of 6 cubic feet of storage. No Exceptions

One (1)  
03-05-0845

## **OFFICER SIDE EMS COMPARTMENT – Exterior Hinged Door**

The EMS compartment shall feature:

- A hinged box pan style exterior compartment door
- A hidden, piano style Stainless-steel door hinge which shall be mounted inside the panel of the door prohibiting dirt and debris from becoming trapped in the hinge.
- A clear door opening of approximately 14.5" wide x approximately 25.5" tall
- The door shall open as far as possible without contacting the side of the cab or interfere with the opening or closing of the officer's door.
- The compartment floor shall be a sweep out design

One (1)  
03-05-0850

## **EMS COMPARTMENT HANDLE**

The EMS compartment handle shall be a die cast steel, black door handle.

One (1)  
03-05-0852

## **EMS COMPARTMENT LOCKS**

The door handle shall include an integral manual door lock, which may be unlocked from the exterior with a key.

One (1)  
03-05-0909

## **INTERIOR OFFICER EMS COMPARTMENT ACCESS**



# Moberly Fire Department

- The interior Officers EMS compartment shall have an opening of 18.75"W and 22" H. The compartment shall have a sweep out design. Compartment with a lip along the bottom shall be not accepted. No Exceptions.

One (1)  
03-05-0947

## **EMS COMPARTMENT INTERIOR ACCESS**

The officer EMS compartment shall feature interior access through a hinged door towards the rear of the cab.

One (1)  
03-05-0970

## **HINGE LOCATION**

The officer's interior EMS compartment hinged door shall have the hinge located on the outboard side of the compartment. (Near the Cab Exterior)

Hinge to be located by the Cab Exterior

One (1)  
03-05-9000

## **COMPARTMENT SHELF**

One (1) adjustable shelf shall be installed in the interior cab compartment. The shelf shall be constructed from aluminum.

One (1)  
05-01-1810

## **OFFICER EMS COMPARTMENT INTERIOR FINISH**

The interior of the officer side EMS compartment shall have a DA sanded finish.

One (1)  
08-00-0715

## **OFFICER EMS CAB COMPARTMENT LIGHTING**

The officer's side EMS compartment shall include one (1) 18" strip of LED lighting and shall be located in the inside front corner of the compartment near the door.

One (1)  
03-06-0002

Stainless Steel

One (1)  
03-06-0014

## **CAB STEPS**

The cab steps shall meet NFPA 13-7.3 in size and slip resistance requirements.

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The cab shall incorporate a two-step design at each door, with a first step height of approximately 22" from the ground. The leading edge of the first step shall be 5" further outboard than the second step to provide a staircase design for safer egress.

The front cab first step shall measure a minimum of 33" wide x 10" deep. The front cab intermediate step shall measure a minimum 31" wide x 8" deep.

The crew cab first step shall measure a minimum of 26" wide x 10" deep. The crew cab intermediate step shall measure a minimum 28" wide x 9" deep.

The top crew step shall incorporate an angle approximately midway from the rear wall to the crew door hinge extending out the flooring under the rear facing outer seat positions, offering foot placement for safety while seated in this position.

## **CAB STEP TRIM**

The cab steps shall include a .80 gauge stainless steel construction on the first step, the step closest to the ground. The stainless steel finish shall be a number 7 mirror. The step shall include a frame which is integral with the construction of the cab for rigidity and strength. The Round Hole pattern shall allow water and other debris to flow through rather than becoming packed under the step. The middle step shall be integral with the cab in construction and shall be trimmed in 3003-H22 embossed aluminum tread plate which is 0.100" thick.

One (1)  
03-06-1015

## **CAB DOORS**

The cab shall include a total of four (4) doors, two (2) forward and two (2) rear crew doors.

The forward cab doors shall be a minimum of 45" wide, and have a cab structure opening of 42.5" wide; and the rear crew doors shall be a minimum of 41" wide, and a cab structure opening of 38.5" wide to provide enhanced entry and egress of the cab.

Each cab door shall feature:

- Superior strength and rigidity from 3/16" closed section extruded door frames
- Damping inside each door for a solid feel and minimized reverberation when closed
- A rolled rubber bulb seal style gasket shall be utilized around the door ensuring a weather tight fit

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- Integrated, mechanical door stop
- A full length, hidden piano style 10 gauge stainless steel door hinge with a 3/8" pin, which shall be mounted inside the panel of the door prohibiting dirt and debris from becoming trapped in the hinge
- An integrated one-piece inner door assembly that includes a glass track, mounting provisions for window regulator, door handle and door panel shall be utilized. The inner door assembly shall be easily removed with nut inserts. Self-tapping screws shall not be acceptable.

One (1)  
03-06-1025

## **FULL LENGTH DOORS**

All doors shall be full length from the roof of the cab extending down to cover and protect the entrance step areas.

One (1)  
03-06-1500

No Lower Door Kick Panel (No Overlay)

One (1)  
03-06-1110

## **DOOR HANDLES**

The exterior door handles shall be constructed of die-cast steel. They shall feature heavy duty pull style handles which are extended out and suitable for easy grasping with a gloved hand.

The handles shall be complimentary to the cab exterior and shall be black in color.

The interior door handle shall be a paddle style which shall be chrome in color. The paddle shall be hinged towards the rear of the cab.

One (1)  
03-06-1120

## **CAB DOOR LOCKS**

All cab doors shall include manual door locks with keys. The door lock shall include a toggle and shall be an integral part of the interior door handle which is red in color. The exterior door lock is integral with the door latch. The cab doors may be unlocked from the exterior with a key or through a thumb turn from inside the cab.

One (1)  
03-06-1135

## **INTERIOR CAB DOORS**

All cab doors shall consist of a one-piece formed and stamped aluminum interior panel. The panel shall include a formed collar around the interior door latch. The door panels shall be attached to the door with nuts. ABS material shall not be acceptable. No Exceptions.

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One (1)  
03-06-1201

## **INTERIOR CAB DOOR FINISH**

All cab doors shall be finished with a Polyurethane coating for durability. The finish shall be gray in color.

One (1)  
04-05-0105

## **INTERIOR FRONT DOOR PULL**

The interior driver and officer cab doors shall each include one (1) customized cast Aluminum single piece door grab pull designed specifically for the fire service.

The single piece door pull shall have a curved designed in an "L" formation to provide multiple points for grasping with a gloved hand. The horizontal dimension shall be a minimum of 28" and the vertical dimension shall be a minimum of 20". The door pulls shall have an ergonomic curve making them easier to grasp when entering and exiting the cab. No Exceptions.

The door pull shall feature secure mounting in three separate locations of the pull utilizing Stainless-steel fasteners with nut inserts in each location. Self-tapping screws or other mounting techniques shall not be allowed for interior door pulls or grab handles.

Each handle shall be constructed of A356 Aluminum casting and shall feature a black powder coated finish.

One (1)  
04-05-0150

## **INTERIOR GRAB HANDLE REAR DOOR**

A black powder coated cast Aluminum grab handle shall be provided on the inside of each rear crew door. The handle shall extend horizontally the width of the window just above the windowsill. The handle shall assist with entry and egress from the crew area of the vehicle.

The interior driver and officer rear cab crew doors shall include one (1) customized cast Aluminum single piece door grab pull designed specifically for the fire service.

The door pull shall have an ergonomic curve making them easier to grasp when entering and exiting the cab. No Exceptions.

The door pull shall feature secure mounting with Stainless-steel fasteners with nut inserts in each location. Self-tapping screws or other mounting techniques shall not be allowed for interior door pulls or grab handles.

# Moberly Fire Department

Each handle shall be constructed of A356 Aluminum casting and shall feature a black powder coated finish.

One (1)  
03-08-0101

## **WINDSHIELD**

A one (1)-piece, safety glass full width windshield with more than 3,228 square inches of area will be provided. No Exceptions.

The windshield shall feature:

- A completely uninterrupted view from both the driver and officer positions
- The windshield will consist of three (3) layers; the outer layer, the middle safety laminate, and the inner layer. The .114" thick outer light layer will provide superior chip resistance. The middle safety laminate layer will prevent the windshield glass pieces from detaching in the event of breakage.
- Economical replacement readily available from auto glass supplier
- Easily removable for replacement using standard automotive techniques
- A frit band will be provided along with an outer trim seal on the outside perimeter of the windshield for a finished automotive appearance.

One (1)  
03-08-0102

## **WINDSHIELD WIPER SYSTEM**

A single windshield wiper system shall be incorporated in conformance with FMVSS and SAE requirements. Two (2) 22" windshield wiper arms shall be mounted below the windshield. Each arm shall include a 26" long wiper to provide optimum windshield clearing.

The windshield wiper fluid reservoir can be filled without raising the cab.

One (1)  
08-02-0135

## **WINDSHIELD WIPER ACTIVATION**

The windshield wipers shall be activated through a switch on the driver's panel, with intermittent control.

One (1)  
03-08-0115

## **WINDOW -DRIVER'S DOOR**

# Moberly Fire Department

The driver's door shall include a window which measures a minimum of 23.5" wide x 29" high, measured from the midpoints left to right and top to bottom. The window shall have a minimum clear viewing area of 681 square inches. The glass shall include a standard automotive tint and through the use of a manual crank style handle shall roll completely into the door housing.

The window shall be trimmed in a black anodized aluminum ring and rubber seal to keep water from entering the cab when closed.

One (1)  
03-08-0117

## **WINDOW- OFFICER'S DOOR**

The officer's door shall include a window which measures a minimum of 23.5" wide x 29" high, measured from the midpoints left to right and top to bottom. The window shall have a minimum clear viewing area of 681 square inches. The glass shall include a standard automotive tint and through the use of a manual crank style handle shall roll completely into the door housing.

The window shall be trimmed in a black anodized aluminum ring and rubber seal to keep water from entering the cab when closed.

One (1)  
03-08-0200

## **REAR DRIVER SIDE CREW WINDOW**

The rear driver's side crew door shall include a window measuring 22.5" wide x 27" high, measured from the midpoints left to right and top to bottom. The window shall have a minimum clear viewing area of 607 square inches. The glass shall include a standard automotive tint and through the use of a manual crank style handle shall roll completely into the door housing.

One (1)  
03-08-0240

## **REAR OFFICER SIDE CREW WINDOW**

The rear officer's side crew door shall include a window measuring 22.5" wide x 27" high, measured from the midpoints left to right and top to bottom. The window shall have a minimum clear viewing area of 607 square inches. The glass shall include standard automotive tint and through the use of a crank style handle shall roll completely into the door housing.

One (1)  
03-08-0300

## **DRIVER CANOPY SIDE WINDOW**

The cab shall include a fixed driver's side window glass which shall be located between the cab front and rear doors. The fritted glass shall have a clear viewing area of 15.5" wide x 21.5" high and shall include a standard automotive tint. To eliminate the possibility of corrosion rubber gasket rings shall not be used in the installation of the window, the window shall be glued in.

One (1)  
1-00-0000



# Moberly Fire Department

One (1)  
03-09-8010

## CAB INTERIOR AND TRIM

### **CAB INSULATION**

The cab shall be insulated from road and vehicle resonance, exterior sound and thermal intrusion.

The cab insulation system shall be comprised of three separate components each designed to assure optimal thermal and acoustic properties are achieved. Two layers of insulation material shall be utilized.

A minimum of .8" of SCbond Polyurethane Foam insulation shall be applied as an additional insulation between the cab skin and all interior ceiling surfaces. The insulation shall have a density of 10 lb/ft<sup>3</sup> +/- .5 providing better thermal properties and acoustic reduction properties.

A layer of 1/8" barrier bubble film laminated between two layers of reflective metalized film shall be provided in the roof to minimize the effects of radiant heat. The barrier shall be mold and mildew resistant and have a Class A/Class 1 fire rating. The barrier shall have a minimum of a R-5.6 rating. No Exception

The interior cab insulation system shall meet NFPA 1901 14.1.6 standards and ensure that no seated position within the cab exceeds 90dB. This decibel rating shall be measured with the apparatus traveling 45 mph with climate control settings off.

All insulation used in the construction of the cab shall be marine grade featuring longevity and resistance to degradation.

The interior of the cab including the rear wall, side walls and ceiling panels shall be insulated.

Use of open cell material as the primary insulation will not be acceptable. No exceptions.

One (1)  
03-09-8015

### **ENGINE TUNNEL INSULATION**

The engine tunnel shall include an insulated barrier from noise on the underside of each tunnel surface. This barrier shall be engineered for surrounding engines.

The insulation barrier shall provide an acceptable decibel level within the cab meeting or exceeding the recommendations of NFPA 1901.

The thickness of the engine tunnel insulation shall be 1" thick. The insulating material shall be open cell polyether based foam with a textured surface, specifically designed for acoustic absorption.

09/29/21

# Moberly Fire Department

Use of aluminized faced material on the engine tunnel shall not be acceptable. No exceptions.

The engine tunnel insulation shall be precisely cut and sealed to fit each segment on the underside of the tunnel surface. The insulation shall then be affixed by a pressure sensitive adhesive.

The insulation shall meet or exceed FMVSS 302 flammability testing.

One (1)  
03-09-8020

## **DAMPING INSULATION**

The entire cab, including the ceiling and walls shall include additional insulation reducing structure borne noise from vibration, impact and resonance within the cab.

One (1)  
04-01-1120

## **REAR WALL INTERIOR MATERIAL**

The rear wall of the cab shall be covered in gray 31 oz. marine grade vinyl for a more pleasing appearance.

One (1)  
4-01-3004

## **INTERIOR TRIM MATERIAL**

The interior trim shall feature a 31 oz. marine grade vinyl which features a tensile strength of ASTM D751 of excellent, tear strength meeting the Federal standard 191-5134 of excellent and shall be oil resistant passing the CID-A-A-2950A requirement for no permeation.

Due to the excellent qualities of the marine grade vinyl material, no other type of interior trim shall be acceptable. No Exceptions.

The soft trim vinyl shall feature mildew resistance passing ASTM G21-90 and shall be rated to -25 degrees Fahrenheit.

The vinyl shall be flame retardant meeting California Fire Code 117, UFAC Class 1, and BIFMA Class 1 and shall have a high resistance to abrasion.

The interior of the cab including the ceiling panels shall feature this soft trim and shall be gray in color.

One (1)  
04-02-1002

## **THROTTLE AND BRAKE PEDALS**

# Moberly Fire Department

The apparatus shall have suspended throttle and brake pedals.

One (1)  
04-02-1110

## **FLOOR MAT**

The interior flooring of the cab shall be covered with an advanced gray multi-layer acoustic dampening mat. The floor matting shall be an open/closed cell, flexible polyurethane polyamide material with frictional dampening and dissipation properties. The mat shall be a fire and skid resistant non-wicking material.

One (1)  
04-02-1702

## **SUN VISORS**

The driver and officer seats shall feature a sun visor mounted in the header over each seating position. The sun visors shall be gray tinted plastic.

One (1)  
04-02-1798

Cab Coating Interior Color

One (1)  
05-01-1055

## **INTERIOR CAB FINISH**

The interior cab shall be finished in a high performance Polyurethane coating including the interior A, B, C and D pillars, all occupant seat frames and any surrounding surfaces extending to the ball seal around each door. This type of coating shall feature:

- Durability, scratch, chemical and abrasion resistance
- Consistent, even coverage and a uniform texture
- Resistance from fading from exposure to UV light
- Gray in color

One (1)  
04-03-0006

## **ENGINE TUNNEL**

The distance from the back of the tunnel to the interior wall shall be 51" measured at floor level and 57" at top of engine tunnel. No Exception.

One (1)  
04-03-1050

## **ENGINE TUNNEL**

# Moberly Fire Department

The engine tunnel shall be constructed of aluminum offering superior durability in addition to thermal and acoustic resistance.

The engine tunnel shall feature:

- A low-profile design measuring approximately 46.5" wide and 21.5" in height from the crew floor shall offer optimum visibility of the windshield and cab interior from any seated position. No Exception.
- The engine tunnel at the driver's position shall be a tapered design, featuring 24" clear width at floor level, first taper shall start 16.5" from floor level and taper inward for a clear width of 26" and the final taper shall start at 21" from floor level and taper inward for a clear width of 33".
- The engine tunnel at the officer's position shall be a tapered design, featuring 23" clear width at floor level, first taper shall start 16.5" from floor level and taper inward for a clear width of 22.5" and the final taper shall start at 21" from floor level and taper inward for a clear width of 31.5".
- The design shall offer a minimum of 30" for the driver and 28.5" for the officer as measured from the inside door pan to the top edge of the tunnel. The dimension measured at the "H" (hip) point, with the seat in the lowest position, shall be a minimum of 28.5" for the driver and 27" for the officer. No Exception.
- Recessed sections for ease of mounting equipment at the rear of the tunnel or for compartments and bases which can be used for installing Fire/EMS equipment and components such as hand-held radios.

## **CAB DASH**

The cab dash shall offer heavy duty, durable construction from formed aluminum. The cab dash shall be finished with an advanced polyurethane coating for a rugged finish.

The polyurethane finish shall provide a tough, flexible, impact-absorbing, chemical & abrasion-resistant, even-textured and skid-resistant surface. The polyurethane finish shall offer durability and scratch resistance even against today's advanced firefighting turnout materials with consistent, even coverage and a uniform texture. The polyurethane coating finish shall resist fading from UV light.

This construction shall allow for a clean, seamless dash area that shall reduce unnecessary joining of cab dash components. This design allows for the following features:

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- Optimal heating and cooling of cab occupants, HVAC louvers shall be integrated into the gauge panel with a total of four (4) louvers; two louvers pointing at the driver and two louvers pointing at the officer.
- For improved safety cab switches and controls shall be ergonomically located within easy reach of the driver when in the seated position with seatbelts fastened. This design will reduce driver distraction and increase safety by putting frequently accessed driver controls within easy reach to allow the driver more time to focus on the road.
- The officer side cab dash shall house the two HVAC louvers on the officer side. This panel will also provide ergonomically located switches and controls for the officer. All controls shall be within easy reach while in the seated position with seatbelts fastened.
- Access panels on the top of the dash for both the driver and officer sides easing maintenance access to controls, components and gauge assemblies
- The driver side dash shall include gauges for primary air pressure, secondary air pressure, a Pacific Insight instrumentation gauge panel and the DEF gauge as standard
- The driver side dash shall also include two (2) lower panels to the left and right of the steering column for FMVSS switches such as the Off/Ignition and start switches and the park brake assembly
- The dash shall include a provision for switches to the right of the Driver
- The officer dash shall include a flat area for optional mounting cradles or brackets for a laptop computer, mobile data terminal, map compartment or clip board

The officer dash shall include a provision for switches to the left of the Office

One (1)  
04-03-1010

## **CAB DASH & ENGINE TUNNEL**

The cab dash and the engine tunnel of the cab shall be coated with a Polyurethane coating for a durable finish. The color shall be gray.

One (1)  
04-04-1360

## **CUP HOLDER**

Two (2) cup holders shall be provided. There shall be one mounted on both the driver and officer side and shall be in the forward outer portion on the upper portion of the dash.

One (1)

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08-01-0144

## **INSTRUMENTATION PANEL**

The instrumentation panel inlay shall be powder coat black.

One (1)

03-08-3999

CAB HEADER - HEAT AND AC

One (1)

03-08-4000

Cab Header / Heating and AC

One (1)

05-02-0012

## **CAB HEADER**

The cab header shall offer Heavy-duty, durable construction using resin transfer molding (RTM) technology formed composite material. The composite material shall be .28" thick for improved resistance and military type strength.

RTM is a low pressure, closed molding process which offers a dimensionally accurate and high-quality surface finish composite molding, using liquid thermoset polymers reinforced with various forms of fiber reinforcements. The matrix selection of polymer and reinforcement dictates molding mechanical and surface finish performance.

ABS polymer construction shall not be acceptable. No Exceptions.

The cab header shall offer a finish of a polyurethane coating for a rugged design and finish. No Exceptions.

The polyurethane finish shall provide a tough, flexible, impact-absorbing, chemical & abrasion-resistant, even-textured and skid-resistant surface. The polyurethane finish shall offer durability and scratch resistance even against today's advanced firefighting turnout materials with consistent, even coverage and a uniform texture. The polyurethane coating finish shall resist fading from UV light.

The cab header shall also be purpose built for integration of Fire/EMS components and ease of maintenance with panels above both the driver and officer positions measuring 8" wide x 15" long for mounting radios, aerial controls and switches.

## **HVAC HEATING AND COOLING SYSTEMS**

The interior cab climate control shall be comprised of a triple system that shall include a defroster, a cab and crew heater and air conditioner for a complete HVAC system. The air conditioning system shall be comprised of compressor, condenser, and a minimum of three (3) evaporators to provide consistent temperature control throughout the entire cab.

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The system shall be rated as an Emergency Vehicle grade for the use in Fire and Rescue style vehicles and shall provide environmental air treatment in accordance with published SAE standards.

The HVAC system shall be tested and certified by the component manufacturer and a third-party independent certified testing laboratory, including all three systems. Documentation of test results shall be provided with the bid. No Exceptions.

The HVAC system shall be a total and complete system, and shall provide sufficient defrosting, heating and cooling to the entire cab. The HVAC system shall meet or exceed all specified items without the use of auxiliary heating and cooling systems.

## **DEFROSTING SYSTEM**

The defrosting system shall feature:

- To provide maximum defrost and heating performance, a 30,000 BTU heater-defroster unit will be provided inside the cab.
- The defroster unit will be strategically located under the center forward portion of the instrument panel. For easy access, a removable cover will be installed over the defroster unit.
- Six (6) vents shall be located in the top forward portion of the dash for superior defrosting properties across the entire windshield.
- Defrost vents for the driver and officer windows.
- The system shall be capable of clearing 90 percent or more of the windshield in fifteen (15) minutes or less after a three (3) hour cold soak at 0 degrees Fahrenheit (-17.78 degrees Celsius).
- The system shall exceed Flash Fogging standards that are set forth in the SAE Heavy-duty Cab with Sleeper specifications. Documentation from a third-party testing facility shall be available upon request. No Exception.
- The defroster will include an integral Aluminum frame air filter, high performance dual scroll blowers, and ducts designed to provide maximum defrosting capabilities for the one (1) piece windshield.

## **HEATING SYSTEM**



# Moberly Fire Department

The heating system shall feature:

- Delivery of a minimum of 82,000 BTU/hour of heat to the entire cab.
- Heat and air circulation shall be provided to the driver and officer foot area of the cab as standard through ducting in the foot well area of both positions. No Exception.
- Substantial air movement and heating provided to the driver and officer's position, Composite dash will have six (6) adjustable louvers, located in the dash, three (3) adjustable louvers directed at the driver and three (3) adjustable louvers directed at the officer and floor vents at the driver and officer. Aluminum dash will have (4) adjustable louvers, located in the dash, two (2) adjustable louvers directed at the driver and two (2) adjustable louvers directed at the officer and floor vents at the driver and officer.
- Dual overhead units, with five (5) adjustable louvers shall be mounted above the rear facing seat positions on the driver and officer side of the cab
- The heater shall be plumbed with a shut off valve at the engine, so that the coolant bypasses the heaters.

## AIR CONDITIONING

The air conditioning system shall feature:

- One (1) evaporator shall be located under the center dash and Two (2) crew overhead evaporators located near the B-pillar on each side of the cab allowing for greater frontal visibility for the forward-facing crew seating and allowing for more interior mounting of accessories.
- A gravity condensation drain system shall be utilized. These drains shall remove all condensation from the evaporator units and direct it to the exterior of the chassis cab for optimal performance. Systems utilizing pumps to remove condensation, or gravity systems with poles or other obstructions located within the cab to route drains through shall not be acceptable. No Exceptions.
- Substantial air movement for optimum cooling shall be provided to the driver and officer positions, with six (6) adjustable louvers, located in the dash, three (3) adjustable louvers shall be directed at the driver and three (3) adjustable louvers shall be directed at the officer and floor vents at the driver and officer.
- The air condition system shall be capable of cooling the cab from outside ambient average temp of 104 degrees Fahrenheit (40 degrees Celsius) to an average inside cab temp of 71 degrees Fahrenheit (22 degrees Celsius) at no less than 50% humidity in 30 minutes with an engine RPM

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of 1250, after a two (2) hour heat soak. A certification document from the testing facility shall be available upon request. No Exception.

Proposals offering ceiling mounted evaporator units in the center of the cab above or on the engine tunnel shall not be accepted as this is a safety consideration due to the lack of visibility and communication within the cab.

One (1)  
05-01-6010

## **CAB PAINT AIR CONDITIONING CONDENSER COVER**

The air conditioning condenser cover shall be made out of aluminum and shall be painted to match the roof color. Plastic condenser covers will not be acceptable. No Exception.

One (1)  
05-02-0047

## **HEATER HOSE**

The heater hose inside the cab for the HVAC system shall be premium silicone hose.

One (1)  
05-02-0054

## **Rear Crew Controls Advanced Wiring**

The Rear Crew HVAC controls will be wired so that whenever the A/C is turned on in the cab the rear crew A/C fans will also come on at the low setting, to prevent the evaporators from freezing up.

One (1)  
05-02-0200

## **CONDENSER**

The cab air conditioning system shall include one (1) low profile HE-condenser which shall be centered forward on the roof of the cab.

One (1)  
08-02-0120

## **HEATING AND COOLING CONTROLS**

The HVAC system shall be controlled from the Driver dash through three (3) turn style knobs for the temperature control, the fan control and for the mode. Fan controls shall also be available to the rear crew area.

One (1)  
08-02-0100

## **REAR CREW AREA CONTROLS –CENTERED OVERHEAD**

The controls for the crew area heat shall be mounted overhead, centered between the rear facing seating position.

One (1)

# Moberly Fire Department

03-09-0100

## **SEAT AND SEAT BELT COLOR**

This seat in the cab shall be gray in color with a red seat belt.

One (1)

03-09-01X1

## **DRIVER SEAT**

The Driver's seat shall be a 911 Seats Incorporated XL, wide series seat

Standard features of this 3pt ABTS (all belts to seats) include three-inch CAM style air ride suspension, double locking tracks with 7 ¾ inches fore/aft track movement operated by an easy-access towel bar, 108 degree recline, adjustable headrest, wide contoured back with 2 way adjustable lumbar.

The seat shall feature an XL 21-inch-wide comfort cushion including Seats Incorporated exclusive EVC (elastomeric vibration control); easing tailbone pressure, enhancing comfort and reducing vibration by up to 50%. This system has Seats Inc's D2 (dual density) foam combining a soft topper foam pad further enhancing comfort, and a high-density bottom foam base to promote longevity.

The seat(s) shall have a 7-year manufactures warranty no exception.

Cushion reinforced with French seaming and is NFPA compliant with an occupancy sensor.

One (1)

03-09-000A

## **SEAT BELT SINGLE RETRACTOR**

The seat shall feature 3pt ABTS (all belts to seats). The seat belt shall feature Ready Reach to ensure that the seat belt is easy to see and grab while in full turnout gear.

One (1)

03-09-0121

## **SEAT BACK**

The seat back shall incorporate a standard style headrest.

One (1)

03-09-02X2

## **SEAT MOUNTING DRIVER**

The driver's air seat shall be installed in an ergonomic position in relation to the cab dash.

One (1)

03-09-0906

## **SEAT MATERIAL**

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The seats shall include a covering of Endurance Vinyl, the vinyl shall be a high strength, and easy to clean. Endurance Vinyl shall be easier to clean and higher durability than standard vinyl.

One (1)  
03-09-0920

## **SEAT BACK LOGO**

The seat back shall include the "Rosenbauer" logo. The logo shall be centered on the standard headrest of the seat back.

One (1)  
03-09-3010

## **DRIVER SEAT BOX STORAGE COMPARTMENT**

There shall be a storage area under the driver's seat. The compartment shall be 21.25 inches wide, 22.50-inches long, and 6.25 inches high. The access opening shall be 15.00 inches wide and 4.50 inches high.

One (1)  
03-09-3236

## **ALUMINUM ACCESS DOOR**

There shall be an aluminum door cover provided for the driver and officer seat compartment. The door shall be coated to match the interior of the cab, and it shall be equipped with a piano style hinge and a manual latch.

One (1)  
03-09-024A

## **OFFICER SEAT**

The officer seat shall be 911 Seats Incorporated 911 Seats XL, wide series seat.

The seat shall feature 3pt ABTS (all belts to seats).

The seat shall feature a 21-inch-wide XL comfort cushion including Seats Incorporated exclusive EVC (elastomeric vibration control); easing tailbone pressure, enhancing comfort and reducing vibration by up to 50%. This system has Seats Inc's D2 (dual density) foam combining a soft topper foam pad further enhancing comfort, and a high-density bottom foam base to promote longevity. Seat to include wide comfort back with contoured foam.

The seat(s) shall have a 7-year manufactures warranty no exception.

Cushion reinforced with French seaming and is NFPA compliant with an occupancy sensor.

One (1)  
03-09-000A

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## **SEAT BELT SINGLE RETRACTOR**

The seat shall feature 3pt ABTS (all belts to seats). The seat belt shall feature Ready Reach to ensure that the seat belt is easy to see and grab while in full turnout gear.

One (1)  
03-09-011A

## **SEAT BACK**

The seat back shall include a Seats Incorporated Halo mechanical self-contained breathing apparatus (SCBA) bracket. The Positive Locking Mechanical walk away bracket shall meet NFPA 1901-03 9G dynamic requirements for cylinder restraint systems for use in crew compartments of fire truck cabs. The bracket shall be third Party tested to ten (10) times the force of gravity.

The bracket shall include Plasti-dipped rings designed to fit the full range of bottle diameters. Vertical height adjustment to accommodate different bottle heights. Easily achieve a safe lock without risking damage to equipment. Center cushion release mechanism.

One (1)  
03-09-0906

## **SEAT MATERIAL**

The seats shall include a covering of Endurance Vinyl, the vinyl shall be a high strength, and easy to clean. Endurance Vinyl shall be easier to clean and higher durability than standard vinyl.

One (1)  
03-09-0920

## **SEAT BACK LOGO**

The seat back shall include the "Rosenbauer" logo. The logo shall be centered on the standard headrest of the seat back.

One (1)  
03-09-3020

## **OFFICER'S SEAT BOX STORAGE COMPARTMENT**

There shall be a storage area under the officer's seat. The compartment shall be 19.75 inches wide, 17.50 inches long, and 6.25 inches high. The access opening shall be 9.00 inches wide and 4.50 inches high.

Two (2)  
03-09-048B

## **FORWARD FACING OUTER SEAT**

{Quantity} forward facing outer crew area seat(s) shall be 911 Seats Incorporated XL, wide series flip bottom seat(s).

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The seat(s) shall also feature a 21-inch-wide XL comfort cushion including Seats Incorporated exclusive EVC (elastomeric vibration control); easing tailbone pressure, enhancing comfort and reducing vibration by up to 50%. This system has Seats Inc's D2 (dual density) foam combining a soft topper foam pad further enhancing comfort, and a high-density bottom foam base to promote longevity. Seat to include wide comfort back with contoured foam.

The seat(s) shall have a 7-year manufactures warranty no exception.

Cushion reinforced with French seaming and is NFPA compliant with an occupancy sensor

Belt Orientation shall pull from outboard shoulder to inboard hip

Two (2)  
03-09-000A

## **SEAT BELT SINGLE RETRACTOR**

The seat shall feature 3pt ABTS (all belts to seats). The seat belt shall feature Ready Reach to ensure that the seat belt is easy to see and grab while in full turnout gear.

Two (2)  
03-09-011A

## **SEAT BACK**

The seat back shall include a Seats Incorporated Halo mechanical self-contained breathing apparatus (SCBA) bracket. The Positive Locking Mechanical walk away bracket shall meet NFPA 1901-03 9G dynamic requirements for cylinder restraint systems for use in crew compartments of fire truck cabs. The bracket shall be third Party tested to ten (10) times the force of gravity.

The bracket shall include Plasti-dipped rings designed to fit the full range of bottle diameters. Vertical height adjustment to accommodate different bottle heights. Easily achieve a safe lock without risking damage to equipment. Center cushion release mechanism.

Two (2)  
03-09-0906

## **SEAT MATERIAL**

The seats shall include a covering of Endurance Vinyl, the vinyl shall be a high strength, and easy to clean. Endurance Vinyl shall be easier to clean and higher durability than standard vinyl.

Two (2)  
03-09-0920

## **SEAT BACK LOGO**

# Moberly Fire Department

The seat back shall include the "Rosenbauer" logo. The logo shall be centered on the standard headrest of the seat back.

One (1)  
03-09-055B

## **FORWARD FACING CENTER SEAT**

One (1) forward facing center crew area seat(s) shall be 911 Seats Incorporated XL, wide series flip bottom seat(s).

The seat(s) shall also feature a 21-inch-wide XL comfort cushion including Seats Incorporated exclusive EVC (elastomeric vibration control); easing tailbone pressure, enhancing comfort and reducing vibration by up to 50%. This system has Seats Inc's D2 (dual density) foam combining a soft topper foam pad further enhancing comfort, and a high-density bottom foam base to promote longevity. Seat to include wide comfort back with contoured foam.

The seat(s) shall have a 7-year manufactures warranty no exception.

Cushion reinforced with French seaming and is NFPA compliant with an occupancy sensor

Belt Orientation- LH & RH to Door

One (1)  
03-09-000A

## **SEAT BELT SINGLE RETRACTOR**

The seat shall feature 3pt ABTS (all belts to seats). The seat belt shall feature Ready Reach to ensure that the seat belt is easy to see and grab while in full turnout gear.

One (1)  
03-09-011A

## **SEAT BACK**

The seat back shall include a Seats Incorporated Halo mechanical self-contained breathing apparatus (SCBA) bracket. The Positive Locking Mechanical walk away bracket shall meet NFPA 1901-03 9G dynamic requirements for cylinder restraint systems for use in crew compartments of fire truck cabs. The bracket shall be third Party tested to ten (10) times the force of gravity.

The bracket shall include Plasti-dipped rings designed to fit the full range of bottle diameters. Vertical height adjustment to accommodate different bottle heights. Easily achieve a safe lock without risking damage to equipment. Center cushion release mechanism.

One (1)  
03-09-057A

## **SEAT MOUNTING FORWARD FACING CENTER**

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# Moberly Fire Department

The forward facing center seats shall be installed facing the front of the cab.

One (1)  
03-09-0906

## **SEAT MATERIAL**

The seats shall include a covering of Endurance Vinyl, the vinyl shall be a high strength, and easy to clean. Endurance Vinyl shall be easier to clean and higher durability than standard vinyl.

One (1)  
03-09-0920

## **SEAT BACK LOGO**

The seat back shall include the "Rosenbauer" logo. The logo shall be centered on the standard headrest of the seat back.

One (1)  
03-09-3102

## **SEAT FRAME FORWARD FACING ENCLOSED**

The forward facing center seats shall include an enclosed seat box which is located and installed on the rear wall.

The seat frame shall be constructed of no less than 5052-H32 .19" thick aluminum plate.

One (1)  
03-09-3200

## **SEAT FRAME FORWARD FACING ACCESS**

The seat frame shall include a cutout in the center of the wall facing the tunnel for access. The cutout shall be a minimum of 7.5"h x 28"w.

One (1)  
03-09-4001

## **SEAT COMPARTMENT FINISH**

The seat frame shall be finished to match the interior finish of the cab.

One (1)  
04-05-1900

Exterior Grab Handles 18" Aluminum

One (1)  
04-05-1910

Exterior Grab Handles Bare Aluminum

Four (4)  
04-05-0200

## **EXTERIOR GRAB HANDLES**

# Moberly Fire Department

One (1) 18" anti-slip exterior assist handle shall be mounted behind each of the cab doors. The grab handle shall be mounted on stanchions and constructed of aluminum and be 1.25" diameter with a knurled finish enabling non-slip assistance with a gloved hand and mounted on stanchions. The handles shall be mounted to the cab with nutserts. No Exception.

One (1)  
04-08-0010

## **CAB FASCIA**

The cab fascia shall offer a traditional, yet aggressive appearance, in its design and shall be constructed of work-hardened 5052-H32 aluminum. This design shall feature:

- A super structure which is fully welded to the cab, for a seamless and robust integration
- Thermoformed headlamp bezels, constructed of impact resistant, polycarbonate composite which is vacuum metalized to eliminate peeling and bubbling of a chrome type film or plating
- Traditional style headlight bezels with 4 x 6 high intensity headlights which shall add a classic look to the fascia while improving visibility

One (1)  
04-08-0140

## **FRONT GRILLE**

A prominent front grille shall punctuate the aggressive design of the cab with its outboard wing style warning light bezels and heavy framework. The front grille shall feature:

- Fabricated construction for superior strength and durability
- Stainless Steel mirror finish for a distinctive appearance
- Up to six (6) warning light locations along the mid bar for a variety of warning light combinations

One (1)  
04-08-0022

## **LIGHT BEZEL**

The front grille shall include wing light bezels. The bezels shall be constructed of a stainless material and shall be capable of holding two (2) 4" x 6" warning lights.

One (1)  
04-08-0052

## **DEPARTMENT NAME IN CENTER GRILLE BAR**

The fire department's name shall be laser cut into the center bar of the stainless steel grille. There shall be room for up to (10) characters that are no more than three-inch (3") tall.

# Moberly Fire Department

One (1)  
04-08-0053

## **GRILLE BACK LIGHTING**

The fire department's name shall be back lit in red. The grille light shall come on with the E-Master switch or when the park brake is set.

One (1)  
08-01-1500

Backlit Grille Bar Activation - P2P

One (1)  
04-08-0072

## **FRONT GRILLE - UNITED STATES OF AMERICA FLAG INLAY**

An American Flag shall be painted over the front grille honeycomb inlay, with a minimum of two (2) coats of clear coat to help protect the painted surface.

One (1)  
06-03-2010

## **FLUID FILLS & CHECK**

For ease of maintenance and access, the following fluid checks shall be located behind the tiltable and/or removable mesh panel:

- Engine Oil dipstick
- Engine Coolant Sight Glass
- Power Steering Fluid dipstick
- Windshield Washer Fluid

The following fluid fill shall be located behind the tiltable and/or removable mesh panel:

- Engine Oil
- Power Steering

Proposals including access to fluid checks through the tunnel or by raising the cab shall not be considered.

One (1)  
08-00-0503

## **HEADLIGHTS**

A quadruple headlight assembly shall be provided in the fascia to enhance the look.

One (1)

# Moberly Fire Department

08-00-0540

## **HEADLIGHT LOCATION**

The headlights shall be located on the front fascia in the upper buckets, on each side of the cab grille.

104 OS, 105 OS, and 104 DS, 105 DS

One (1)

08-00-0602

## **FRONT TURN SIGNALS**

Two (2) Whelen Series 600 LED square front turn signal assemblies shall be supplied. Each turn signal shall be mounted in an attractive façade style bezel which is an integral part of the fascia.

One (1)

08-00-0630

## **TURN SIGNAL LOCATION**

The turn signals shall be located on the front fascia directly below the headlights, one each side of the cab grille.

106 OS & DS

One (1)

08-00-0608

## **FRONT MARKER LAMPS**

The cab front shall include five (5) LED amber marker lamps above the windshield in accordance with the Department of Transportation requirements.

One (1)

08-00-061C

## **SIDE MARKER LIGHTS**

Two (2) LED side marker light assemblies shall be mounted on the side of the cab ahead of the driver door, adjacent to the front head lamp bezel.

One (1)

08-01-0303

## **HEADLIGHT AND MARKER LIGHT ACTIVATION**

The head light and marker lights shall be activated through a switch on the driver's panel.

One (1)

04-08-0151

## **CAB FENDERS**

# Moberly Fire Department

The cab wheel wells shall include full width, 14-gauge 304 polished, stainless-steel cab fenders to resist corrosion and enable easier cleaning maintenance. The inner liner, measuring 18" wide shall be constructed of plastic with an outer fenderette measuring 2.5" wide. The inner liner shall be installed with 410 stainless-steel hardware that has been coated with black zinc oxide.

One (1)  
04-09-0300

## **COMMANDER LOGO**

A COMMANDER logo shall be installed on each side of the chassis cab.

One (1)  
04-10-0351

## **FRONT MUD FLAPS**

The cab and chassis shall be provided with rubber front mud flaps.

One (1)  
05-00-0221

## **CAB TILT SYSTEM**

The cab shall be a full tilt style. A hydraulic cab lift system shall be provided consisting of an electric powered hydraulic pump, dual lift cylinders, and necessary hoses and valves. The cab tilt shall be mounted on the right hand side of the chassis frame in front of the batteries below the frame. The mounting bracket shall be Hot Dipped Galvanized.

The dual lift cylinders shall lift the cab 45 degrees from a horizontal plane facilitating easy engine maintenance. The chassis engine shall be able to be removed if required without tilting the cab beyond 45-degrees.

The center line of the chassis cab tilt shall be a minimum of 76" from the center line of the front axle, providing a large corridor between the cab and front tire for maximum work space and accessibility to fan, fan belt, fan drive, air compressor, power steering pump, alternator and air filter.

The tilt angle shall allow access to the engine and area under the cab without contacting any components mounted to the gravel shield.

The cab shall include a four (4)-point rubber isolated cab pivot and mounting system. The rear histic mounts shall be isolated from the chassis frame to reduce the transfer of road vibrations and frame torque into the cab, while providing superior handling characteristics.

The front cab pivot assemblies shall be a 1/2" A36 steel plate with a .31" thick 2-1/2" diameter tube cross member mechanically attached to the cab and frame. There shall be two (2) greaseable rubber isolated engineered bushings to reduce the transfer of road vibrations into the cab.

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The cab shall be locked down by a two (2)-point automatic spring-loaded hook mechanism that actuates after the cab has been lowered.

The cylinders shall include blocking valves (velocity fuses) which prevent motion when no control buttons are pushed. In the event of a hydraulic system failure, the valves shall retain the fluid in the cylinders.

A redundant mechanical stay arm shall automatically be engaged once the cab has been fully raised. Before lowering the cab, this device must be disengaged using the stay arm control located on the driver's side rear of the cab, providing the operator protection from high engine exhaust temperatures. The stay arm shall be safety yellow for high visibility so that it is easy to see whether the arm is in place or not. No Exception

All mounting points shall be bolted directly to the frame rail.

The cab lift safety system shall be interlocked with the parking brake. The cab tilt mechanism shall be active only when the parking brake is set and the battery master switch is in the on position. If the parking brake is release, the cab tilt mechanism shall be disabled.

There shall be a manual pump incorporated in the event of a system failure to the cab tilt system.

A warning light shall illuminate in the cab instrument panel to indicate whenever the cab is not fully latched in the locked down position, and the parking break is release.

One (1)  
05-00-0021

## **CAB TILT LIMIT SWITCH**

An adjustable cab tilt limit switch shall be included with the cab tilt system. The switch shall effectively limit cab's travel to avoid impact with bumper mounted items, or station ceiling clearance, when being tilted.

There shall be a safety bar to hold the cab at the new adjusted height for additional safety.

One (1)  
05-00-0045

## **CAB TILT LOCK DOWN INDICATOR**

The cab dash shall include a message located within the dual air pressure gauge which shall alert the driver when the cab is unlocked and ajar. The alert message shall cease to be displayed when the cab is in the fully lowered position and the hold down hooks are secured and locked to the cab mounts.

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In addition to the alert message an audible alarm shall sound when the cab is unlocked and ajar and the parking brake is released.

One (1)  
05-00-5000

## REARVIEW MIRRORS

One (1)  
05-00-5005

Bus Style Mirrors

One (1)  
05-00-7002

## REARVIEW MIRROR

Ramco model CRM-310-1352-PHCHR bus style mirrors shall be provided. The mirror heads shall be injection molded chrome plated ABS plastic and shall measure 9.5" wide x 13.5" high. The mirrors shall be mounted one (1) on each front cab corner radius below the windshield with 18" long polished cast Aluminum arms.

The mirrors shall feature a lower heated remote-controlled convex glass with an upper heated remote controlled flat glass. The mirror control switches shall be located within easy reach of the driver. The mirrors shall be manufactured using the finest quality non-glare glass and shall feature a rigid mounting thereby reducing vibration. The mirrors shall be corrosion free under all weather conditions.

One (1)  
08-01-0821

## REARVIEW MIRROR REMOTE ACTIVATION

The driver's panel shall include activation for the rearview mirrors remote function. The driver panel shall also include a switch activating the mirrors to be heated.

One (1)  
05-01-5015

## CAB TWO TONE PAINT

The cab surface shall be thoroughly washed with grease cutting solvent Sikkens M600 prior to any sanding. The cab surface shall then be sanded and minor imperfections filled and sanded. The prepared surface shall then be washed again with Sikkens M600 to remove any contaminants from all surfaces to be painted.

The first coating to be applied shall be a pre-treat epoxy primer (Minimum of 1.0 mil dry film thickness) for maximum adhesion to the body material. The next two to three coats shall be a polyurethane primer resurfacing agent AkzoNobel LV650 . The film build shall be up to 8 mils when dry. The primer coat, after appropriate dry time, shall be sanded with 320 grit sandpaper to ensure a maximum gloss finish.



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The cab shall then be painted with the specific color designated by the customer with a minimum thickness of 1.00 mils of finished paint, followed by a clear top coat not to exceed 3.00 mils.

One (1)  
05-01-5020

## **CAB PAINT UPPER**

The upper or secondary cab color shall be AkzoNobel \_\_\_\_\_ color and \_\_\_\_\_ number.

Paint Code:

Paint Color: BLUE

One (1)  
05-01-5021

## **CAB PAINT LOWER**

The lower or primary cab color shall be AkzoNobel \_\_\_\_\_ color and \_\_\_\_\_ number.

Paint Code:

Paint Color: RED

One (1)  
05-01-5025

## **CAB PAINT EXTERIOR BREAKLINE**

The upper and lower paint shall meet on the cab which shall start at the grille under the wings and travel 6" below the cab windshield and approximately 5" under the driver and passenger and crew door windows.

One (1)  
05-01-6051

## **CAB UNDERCOAT**

The cab shall have an undercoat applied prior to the cab being set on the running gear. The undercoat shall be a waterborne, one-component, air dry undercoat formulated to prevent chipping, cracking and marring of painted or unpainted surfaces after exposure to high impact sand, gravel or other abrasive materials. It shall also have high corrosion resistance.

Two (2)  
05-01-7000

## **PAINT SPRAY OUT**

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The customer shall be supplied with a paint spray out for customer approval prior to the cab being painted.

One (1)  
07-05-010B

## **FRONT AXLE**

The Hendrickson SteerTek front axle beam shall be rated to carry 20,000 lbs. and consist of a fabricated box cross section construction with 100ksi plate and a continuous beam architecture to minimize stress points for added durability. The box shaped cross section resists horizontal, vertical, and twisting forces more effectively than traditional I-beam axles while helping to reduce dynamic camber and toe changes therefore a traditional I-beam axle shall not be considered. The axle shall incorporate a removable kingpin feature for ease of kingpin serviceability. The knuckles shall allow for compatibility with disc brakes mounted at the 12 o'clock position and with drum brakes and allow for wheel cut up to 45 degrees. They shall also utilize premium kingpin bushings and seals to provide enhanced protection from the elements to improve bushing life.

The axle shall have a magnetic drain plug in the hubs.

The axle shall be warrantied for five (5) years or five hundred thousand (500,000) miles whichever comes first. No Exception.

One (1)  
07-05-0120

## **FRONT WHEEL BEARING LUBRICATION**

The front axle wheel bearings shall be lubricated with oil. The oil level can be visually checked via clear inspection windows in the front axle hubs.

One (1)  
07-05-0272

## **FRONT SUSPENSION**

The suspension shall consist of multi-leaf parabolic springs with double wrapped front eye that are packaged within an integrated clamp group that allows for ease of OEM assembly on to the axle beam and reduced part count. The clamp group bolts are tightened on the top of the clamp group opposed to the traditional U-bolt on the bottom making it easier to access with a torque wrench for servicing. The spring shall also include a lower shock attachment with an upturned eye. The springs will contain threaded pin bushings to allow simplification of spring alignment as well as long service life and improved ride quality. The suspension and spring geometry will be optimized to provide improved bump steer and Ackermann. Two ZF Sachs twin-tube shocks

# Moberly Fire Department

shall be provided with the front suspension assembly. The shocks shall be specially developed for parabolic leaf springs with a digressive characteristic curve using a patented piston system. The shocks shall feature multi-stage piston and base valves. The combination of valves shall achieve the desired damping characteristics that are ideal for the application. The suspension shall be rated for a minimum of 20,000 lbs. No Exception.

One (1)  
07-05-0341

## **POWER STEERING GEAR WITH ASSIST**

The power steering gear shall be a TRW model TAS 85 and shall include the following:

- A balanced, hydraulic, positive displacement, sliding vane power steering pump which is gear driven from the engine
- One-piece, 2" diameter drag link for maintaining consistent wheel alignment resulting in less maintenance.
- The steering gear shall be mounted on a plane that is at a 9-degree angle in relationship to the center plane of the chassis. This mounting technique is designed to reduce the operating angle of input steering shafts. A more direct, responsive, and smoother handling vehicle will result from these unique design characteristics.

A certified torque and geometry study by TRW shall be available upon request.

One (1)  
07-06-0420

## **CHASSIS ALIGNMENT**

The chassis frame rails shall be measured to insure the length is correct and cross checked to make sure they run parallel and are square to each other. The front and rear axles shall be laser aligned. The front tires and wheels shall be aligned and toe-in set on the front tires by the apparatus manufacturer.

Alignment documentation shall be available upon request.

One (1)  
07-06-0522

## **FRONT AXLE CRAMP ANGLE**

The chassis shall have a front axle cramp angle of 45 degrees to the left and right.

One (1)  
07-07-014A

## **STEER TIRES**

The steer tires shall be Michelin 385/65R22.5 "L" tubeless radial XZE regional tread.

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The steer tires shall feature:

- A load capacity of 20,000 pounds per axle with a speed capacity of 68 miles per hour when properly inflated to 120 pounds per square inch. A Fire Service Intermittent usage speed capacity of 75 mph.
- A stamped load capacity of 22,000 pounds per axle with a speed capacity of 68 miles per hour when properly inflated to 130 pounds per square inch. A Fire Service Intermittent usage speed capacity of 75 mph.
- A fire service intermittent load capacity of 23,000 pounds per axle with a speed capacity of 68 miles per hour when properly inflated to 130 pounds per square inch

Two (2)  
07-06-0436

## **TIRE BALANCING**

There shall be counter acting balancing beads used in all of the tires.

One (1)  
07-07-0720

## **FRONT WHEEL**

The front wheels shall be Alcoa hub piloted, 22.50 inch X 12.25 inch polished aluminum wheels. The hub piloted mounting system shall provide easy installation and shall include two-piece flange nuts. The wheels shall feature one-piece forged strength and a polished finish that lasts.

One (1)  
07-08-0201

## **FRONT BRAKES**

The chassis shall include front brakes which are a Meritor brand, 16.5" x 6" S-cam drum type. Front brakes shall include brake chambers supplied by Meritor and shall be approved per application.

## **FRONT BRAKE SLACK ADJUSTERS**

The front brakes shall include Meritor automatic slack adjusters shall be installed on the chassis which features a simple, durable design offering reduced weight. The automatic slack adjusters shall feature a manual adjusting nut which cannot inadvertently be backed off and threaded grease fittings for easy serviceability.

## **FRONT BRAKE DUST SHIELDS**

The front axle shall be equipped with brake dust shields.

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One (1)  
07-05-0314

## **STEERING COLUMN AND WHEEL**

The cab shall include a Douglas Autotech steering column. The steering column shall feature an 18", four (4) spoke steering wheel located at the driver's position; a five (5) position tilt and 2.25" telescopic adjustment. The steering wheel shall be provided with a black vinyl cover with foam padding and a horn button, self-canceling turn signal switch, four-way hazard switch and headlamp dimmer switch.

The chassis shall include dual electric 12-volt horn with a minimum 110 decibels.

One (1)  
07-06-0102

## **REAR AXLE**

A single Meritor RS-25-160 driving axle shall be incorporated as the rear axle for the chassis. The axle shall feature:

- Rated capacity of 27,000 pounds
- Heavy duty Hypoid gearing for longer life, increased strength and quieter operation
- Industry-standard wheel ends for compatibility with both disc and drum brakes, and unitized oil seal technology to keep lubricant in and help prevent contaminant damage
- Rigid differential case for high axle strength and reduced maintenance
- Rugged Dependability
- Rectangular shaped, hot formed housing with a standard wall thickness at spring seat of .63" for extra strength and rigidity
- Precision forged, single differential gearing
- A magnetic plug
- 5-year warranty

## **REAR AXLE DIFFERENTIAL LUBRICATION**

The rear axle differential shall be lubricated with oil.

## **REAR WHEEL BEARING LUBRICATION**

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The rear axle wheel bearings shall be lubricated with oil.

One (1)  
07-06-0251

## **REAR SUSPENSION**

The single rear axle shall feature a Reyco 79KB vari-rate, self-leveling captive slipper type conventional multi-leaf spring suspension, with 57.50 inch X 3.00 inch springs. One (1) adjustable and one (1) fixed torque rod shall be provided.

The rear suspension capacity shall be rated at 27,000 pounds based on the capacity of the brakes and rear tires.

One (1)  
07-08-0251

## **REAR BRAKES**

The rear brakes shall be Meritor 16.50 inch X 7.00 inch S-cam drum type.

The rear brakes shall include brake chambers supplied by Meritor and shall be approved per application.

## **REAR BRAKE DUST SHIELDS**

The rear brakes shall be equipped with brake dust shields.

## **REAR BRAKE SLACK ADJUSTERS**

The rear brakes shall include Meritor automatic slack adjusters installed on the axle which features a simple, durable design offering reduced weight. The automatic slack adjusters shall feature a manual adjusting nut which cannot inadvertently be backed off and threaded grease fittings for easy serviceability.

One (1)  
07-06-0300

## **REAR SHOCK ABSORBERS**

Shock absorbers shall be supplied by the suspension manufacturer and installed on the rear axle suspension.

One (1)  
07-06-1100

## **ON-SPOT TIRE CHAINS**

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"On-Spot" automatic 6 strand tire chains shall be installed on the rear axle of the apparatus. A switch installed on the cab dash shall allow the operator to "Engage" and "Disengage" the tire chains without stopping to enhance traction and braking while in forward or reverse motion. The system shall include a switch (in the Vista on V-Mux trucks), continuous duty solenoid, arm bearings and replaceable chainplates.

switched in Vista on V-Mux trucks

NOT AVAILABLE ON RIDEWELL SUSPENSIONS

One (1)  
07-07-0326

## **REAR TIRE**

The rear tires shall be Michelin 12R-22.5 16PR "H" tubeless radial XDN2.

The rear tires shall feature:

- All weather tread designed for premier traction and mileage
- A stamped load capacity shall of 27,120 pounds per axle with a speed capacity of 75 miles per hour when properly inflated to 120 pounds per square inch

Four (4)  
07-06-0436

## **TIRE BALANCING**

There shall be counter acting balancing beads used in all of the tires.

One (1)  
07-07-0784

## **REAR WHEEL**

The rear wheels shall be Alcoa hub piloted, heavy duty, 22.50 inch x 8.25 inch aluminum wheels. Each outer wheel shall have a polished aluminum finish on the exterior surface and each inner wheel shall have a machine finish. The wheels shall be forged from a single piece of aluminum which shall be corrosion resistant, engineered to be lightweight and provide exceptional performance. The hub piloted mounting system shall provide easy installation and shall include two-piece flange nuts.

One (1)  
07-07-0610

## **VALVE STEM EXTENSION - SINGLE AXLE**

To allow for easy checking and inflation of the rear inner tire it shall be equipped with a multi-layer valve stem extension, the layers shall be as follows: starting from the inner to out layer, stainless steel metal core, air tube, stainless steel jacket, protective color.



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One (1)  
07-07-0996

## **VEHICLE TOP SPEED**

The top speed of the vehicle shall be programmed at approximately 68 MPH +/-2 MPH at governed engine RPM.

One (1)  
07-08-0101

## **BRAKE SYSTEM**

A rapid build-up air brake system shall be provided. The air brakes shall include a two (2) air tank, three (3) reservoir system with a minimum of 4152 cubic inch of air capacity. A floor mounted treadle valve shall be mounted inside the cab for graduated control of applying and releasing the brakes. A spring brake valve shall be installed to provide a controlled service brake application during an unlikely event including primary air supply loss. The system shall include an anti-compounding feature. All air reservoirs provided on the chassis shall be labeled for identification.

The rear axle spring brakes shall automatically apply in any situation when the air pressure falls below 25 PSI and shall include a mechanical means for releasing the spring brakes when necessary. An audible alarm shall designate when the system air pressure is below 60 PSI.

A four (4) sensor, four (4) modulator Anti-lock Braking System (ABS) shall be installed on the front and rear axles in order to prevent the brakes from locking or skidding while braking during hard stops or on icy or wet surfaces. This in turn shall allow the driver to maintain steering control under heavy braking and in most instances, shorten the braking distance. The electronic monitoring system shall incorporate diagonal circuitry which shall monitor wheel speed during braking through a sensor and tone ring on each wheel. A dash mounted ABS lamp shall be provided to notify the driver of a system malfunction. The ABS system shall automatically disengage the auxiliary braking system device when required. The speedometer screen shall be capable of reporting all active defaults using PID/SID and FMI standards.

The Meritor Wabco ABS system shall come with a three (3) year/300,000 mile parts and labor warranty.

w/ air manifold

One (1)  
07-08-0189

## **AIR TANK BRACKETS & STRAPS**

The air tank(s) shall be mounted to the frame rail with brackets that are hot dipped galvanized thereby creating a barrier and cathodic protection from corrosion, and eliminating the

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requirement for finish paint and the subsequent requirements for touch up paint and/or total repaint after a period of time due to nicks, chips and corrosion. Powder coated or painted air tank brackets shall not be accepted. No exception.

All of the air tank straps shall be plastic coated stainless-steel cable. No Exception.

One (1)  
07-08-0301

## **PARK BRAKE**

Upon application of the push-pull valve in the cab, the rear brakes will engage via mechanical spring force. This is accomplished by dual chamber rear brakes, satisfying the FMVSS parking brake requirements.

Park brake system shall include an anti-compounding feature.

One (1)  
08-02-0130

## **PARK BRAKE CONTROL**

A Meritor-Wabco manual hand control push-pull style valve shall operate the parking brake system. The control shall be yellow in color.

The parking brake actuation valve shall be mounted on the driver's side dash to the right of the steering column within easy reach of the driver.

One (1)  
07-08-0410

## **AIR DRYER**

The brake system shall include a Wabco System Saver 1200 Plus air dryer with an integral 100-watt heater with a Metri-Pack sealed connector. The system shall have an integrated purge volume and integrated governor.

The system shall have the following features:

- Premium desiccant provides greater water adsorption
- Replaceable spin on cartridge for simple maintenance
- Compact light weight design
- Pressure relief safety valve
- Turbo cut-off valve for boosted compressor applications
- Service components are external for easy replacement

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- Common service components proven for reliability and quality
- Integrated with the air governor.

One (1)  
07-08-0558

## MOISTURE EJECTORS

Heated, automatic moisture ejectors with a manual drain provision shall be installed on all reservoirs of the air supply system.

One (1)  
07-08-0570

## AIR SUPPLY LINES

A dual air system plumbed with color coded reinforced nylon tubing air lines shall be installed on the chassis. The primary (rear) brake line shall be green, the secondary (front) brake line orange, the parking brake line yellow and the auxiliary (outlet) will be black; in accordance with SAE standards. No Exception.

Brass push-lock type fittings shall be used on the nylon tubing. All drop hoses shall include fiber reinforced neoprene covered hoses.

One (1)  
07-09-001B

## FRAME

The chassis frame shall consist of two (2) "C" style parallel rails, constructed of high strength low alloy and shall feature the following:

- A Stenx **MODEL 110XF** 10.19" high by 3.63" deep cold rolled steel frame or equivalent.
- .38" thick flange
- Inner channel measuring 9.31" high x 3.25" deep x .25" thick
- The 10.19" frame height shall be maintained throughout the entire length of the frame to allow for maximum storage capacity for the entire apparatus.
- If frame rails that are larger than those specified are to be utilized, the maximum height of each frame rail shall not exceed 10.25" at any point on the frame rail. This will ensure the lowest possible vehicle center of gravity allowing maximum stability as well as providing the lowest body height possible.
- Frame rail shall have a consistent frame web throughout the entire length.

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- The entire frame rail design shall be manufactured in the United States of America and readily available on the aftermarket.
- Grade 8 Structural fasteners, Huck bolts shall not be acceptable. No Exception.
- The hardware used for the chassis shall be are to be corrosion resistant. The process shall be dip-spin-bake coated with two coats of zinc/aluminum metal flake coating in an inorganic binder. Coating one is to be zinc flake and coating two is to be aluminum flake. The zinc flakes sacrificially corrode to protect the base metal. The aluminum flakes prolong the life of the zinc. Salt fog test life, based on ASTM B117 on unassembled fasteners, is 1000 hours to red rust. The same test on assembled fasteners is 750 hours to red rust. The two step coating is RoHS compliant as it eliminates the hexavalent chromium used in the passivation of electroplated zinc coatings to create yellow zinc (zinc dichromate). The elimination of the zinc plating also greatly reduces the likelihood that hydrogen embrittlement will occur. Hydrogen embrittlement is a side effect of electroplating that reduces toughness and can lead to fracture. No Exception
- Manufacturer's lifetime warranty

The frame ratings shall be as follows:

- 110,000 PSI minimum yield strength high strength low alloy steel
- Minimum Resisting Bending Moment (RBM) of 2,810,000-inch pounds per rail

To avoid frame cracking and failure over time, the top flange of the frame adjacent to the engine installation shall have a tapered design. Notches for engine components shall not be accepted due to fatigue and the potential for cracking. No Exceptions

## **UNDER-FRAME REINFORCEMENT**

An under slung frame reinforcement shall be installed below the frame rails in the transmission area to increase the vertical rigidity of the frame.

The under-frame reinforcement provides:

- Enhanced handling
- Improved ride quality
- Increase resistance to frame and cross member fatigue
- Enhanced vehicle stability providing improved safety to occupants

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## **CROSS MEMBERS**

There shall be a minimum of seven (7) steel plate cross members installed on the apparatus.

- 50,000 psi minimum yield strength steel plate cross members
- Manufacturer's lifetime warranty to match frame warranty. No Exceptions.
- Installed with one-piece cross member gusset to maximize vertical strength and minimize cross member flex
- Crossmembers can be inverted when required to allow for PTO drive line installation without the need for notching or modifying the cross members in anyway. No Exceptions.

## **FRONT FRAME EXTENSION**

A single piece 80,000 PSI steel extension shall be installed on the front of the frame rails.

- Reduces frame flex which translates into improved vehicle handling and ride quality
- Designs using multiple piece, bolted together extensions will not be acceptable since they are prone to more flexing, possible frame failure and cab cracking
- Allows radiator to be removed through the bottom of the frame extension without tilting the chassis cab
- Minimizes damage to the chassis cab in the event of frontal impact accident
- Maintains structural integrity of the chassis frame rails while attaching bumper extensions of varying lengths
- Splayed or notched frame rails and/or extensions shall not be accepted
- Provides foundational strength and stability of the cab tilt system which provides superior access to engine and cooling components

Units with Wheelbase 200" or larger or over 1,000 gallons of water and foam need a double frame

# Moberly Fire Department

07-09-0130

## **FRAME FINISH**

The frame shall be powder coated to resist weather, dirt and other corrosive material.

One (1)

07-13-0116

Front Suction - Universal Frame

One (1)

07-13-0110

## **FRONT BUMPER SUCTION PROVISION**

The bumper apron shall include a 5" stainless steel pipe intended for use as a suction intake for the pump. The suction pipe shall be routed from the right hand front bumper area to the area near the back of the cab.

The front of the suction pipe shall be designed to extend approximately 11.5" from front face of the cab behind the bumper face on the right hand side.

The forward end of the suction pipe shall be finished with a 5" National Pipe Thread (NPT). The rear of the suction shall include a Victaulic groove for connecting to the pump plumbing. The suction pipe shall also include a 0.5" NPT port intended as a primer assist connection.

One (1)

06-00-0050

Engine Placement

One (1)

06-00-1610

## **ENGINE**

A Cummins L9 9.0 liter, four-cycle diesel fueled, turbo charged engine shall feature the following:

- One of the highest power to weight ratios in its class
- Heavy-duty replaceable wet liners, roller followers, by-pass oil filtration with replaceable spin on cartridge and targeted piston cooling for longer service in tough work environments
- Improved cooled EGR system
- 543 Cubic inches of displacement
- High pressure common rail fuel system producing a precise quantity of fuel at ultra high pressures

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- Fully integrated, robust electronic engine controls
- Electric fuel lift pump. No Exceptions.

The engine shall be coupled with a Holset VGT™ (Variable Geometry Turbocharger).

The engine shall be filled with Citgo brand Citgard 500 (or equivalent) SAE 15W40 CJ4 low ash engine oil for proper engine lubrication.

The engine shall be EPA certified to meet the 2021 emissions standards without compromising performance, reliability or durability using cooled exhaust gas recirculation and selective catalytic reduction technology.

The engine shall include an original equipment manufacturer installed oil drain plug.

The engine shall include programming which will govern the top speed of the vehicle.

## **ENGINE PLACEMENT**

The engine shall be a maximum of 36" from the center line of the front axle to the front face of the engine block. The engine valve cover shall be a maximum of 23" from the top of the frame.

The engine placement shall provide optimal weight distribution to the front axle to enhance vehicle handling. More weight out in front of the front axle can cause a "fulcrum effect" and cause unsafe "bump steer" conditions.

The engine shall be mounted in a position that provides for the lowest possible height of the interior engine tunnel. An engine tunnel height from the floor of the chassis cab shall be no more than 21" high inside the cab.

## **AIR COMPRESSOR**

The air compressor provided for the engine shall be a Wabco® SS318 single cylinder pass-through drive type compressor which shall be capable of producing 18.7 CFM at 1200 engine RPMs. The air compressor shall feature a higher delivery efficiency translating to more air delivery per horsepower absorbed. The compressor shall include an aluminum cylinder head which shall improve cooling, reduce weight and decrease carbon formation. Superior piston and bore finishing technology shall reduce oil consumption and significantly increasing the system component life.

## **AIR GOVERNOR**



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An air governor shall be provided to control the cut-in and cut-out pressures of the engine mounted air compressor. The governor shall be calibrated to meet FMVSS requirements. The air governor shall be integrated in the air dryer assembly.

One (1)  
06-00-0051

Cummins L9 Surcharge

One (1)  
06-00-1621

## **HORSEPOWER**

The engine shall have 400 horsepower at 2100 RPM, with a governed speed of 2200 RPM.

The engine shall have 1250-foot pounds of torque at 1400 RPM.

The engine shall have a standard drain plug.

One (1)  
06-02-1110

## **ENGINE FAN DRIVE**

The engine cooling system fan shall incorporate a thermostatically controlled, one (1) piece nine (9) blade Horton clutched type fan drive, and shroud.

When the clutched fan is disengaged it shall facilitate improved vehicle performance, cab heating in cold climates, and fuel economy. The fan clutch design shall be fail safe so that if the clutch drive fails, the fan shall engage to prevent engine overheating due to the fan clutch failure.

One (1)  
06-04-3000

The clutch fan shall automatically engage in pump mode (when applicable).

One (1)  
06-02-1526

## **AUXILIARY ENGINE BRAKE**

A Cummins engine compression brake, for the six (6) cylinder engine, shall be provided. The engine compression brake shall:

- Activate upon 0% accelerator when in operation mode and activate the vehicle's brake lights.

## **TRANSMISSION PRE-SELECT**

When the auxiliary brake is engaged, the transmission shall automatically shift to second gear to decrease the rate of speed. The transmission shall assist the secondary braking system, thereby slowing the vehicle.

# Moberly Fire Department

One (1)  
08-01-0204

## **AUXILIARY ENGINE BRAKE CONTROL**

An auxiliary engine brake control device shall be included. The electronic control device shall monitor various conditions and shall activate the engine brake only if all of the following conditions are simultaneously detected:

- A valid gear ratio is detected.
- The driver has requested or enabled engine compression brake operation.
- The throttle is at a minimum engine speed position.
- The electronic controller is not presently attempting to execute an electronically controlled final drive gear shift.

The auxiliary brake shall be controlled through an on/off switch and individual low/medium/high selector switches on the Driver's panel.

One (1)  
06-03-1010

## **ENGINE PROGRAMMING HIGH IDLE SPEED**

The Engine high idle will be set at 1250 RPM. The high idle will be operational only when the parking brake is set and the truck transmission is in neutral.

One (1)  
06-03-1025

## **ENGINE HIGH IDLE CONTROL**

The vehicle shall be equipped with an automatic high-idle speed control. It shall be pre-set so when activated, it will operate the engine at the appropriate RPM to increase alternator output and optimize output of the HVAC system.

This device shall operate only when the master switch is activated and the transmission is in neutral with the parking brake set. The device shall disengage when the operator depresses the brake pedal, or the transmission is placed in gear, and shall be available to manually, through a switch, or automatically re-engage when the brake is set, or when the transmission is placed in neutral.

One (1)  
06-05-3010

## **ENGINE AIR INTAKE**

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The engine air intake system shall include an ember separator air intake filter which shall be located behind the fascia.

The filter shall protect the downstream air filter from embers using a combination of unique flat and crimped metal screens constructed into a corrosion resistant steel frame.

This multilayered screen shall be designed to trap embers or allow them to burn out before passing through the pack, while creating only minimal air flow restriction through the system. Periodic cleaning or replacement of the screen shall be all that is required after installation.

The intake shall also feature a cyclone style water separator to remove unwanted moisture from incoming air.

The engine shall include an air intake filter which shall be bolted to the frame and located under the front of the cab. This dry type filter shall ensure dust and debris is safely contained inside the disposable housing, eliminating the chance of contaminating the air intake system during air filter service via a leak-tight seal.

The filter must have a capacity of no less than 1350 cubic feet of air per minute. The filter paper media must be of a flame retardant treated material. An electric air filter restriction indicator shall also be included with the system.

One (1)  
06-06-3745

## **ENGINE EXHAUST SYSTEM**

The exhaust system shall include a one-piece diesel particulate filter (DPF), a diesel oxidation catalyst, and a selective catalytic reduction catalyst (SCR) to meet current EPA standards. The selective catalytic reduction catalyst shall utilize a diesel exhaust fluid solution consisting of urea and purified water to convert nitrogen oxide into nitrogen, water, and trace amounts of carbon dioxide. The solution shall be injected into the system between the DPF and SCR chambers.

The system shall utilize 0.065-inch-thick stainless steel exhaust tubing between the engine turbo and the DPF.

The after-treatment canister through the end of the tailpipe shall all be connected with zero leak gasketed clamps. The discharge shall terminate horizontally on the right side of the vehicle ahead of the rear tires with an exhaust gas diffuser.

The diffuser shall lower exhaust gas temperatures during the regeneration cycle.

One (1)

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06-06-4006

## **DIESEL EXHAUST FLUID TANK**

There shall be a molded cross linked polyethylene tank for the Diesel Exhaust Fluid (DEF). The tank shall have a capacity of not less than five (5) usable gallons (18.92 Liters) and shall be mounted on the left hand side of the chassis frame in front of the batteries below the frame. The mounting bracket shall be Hot Dipped Galvanized.

The DEF tank shall be designed with capacity for expansion in case of fluid freezing. Engine coolant, which shall be thermostatically controlled, shall be run through lines in the tank to help prevent the DEF from freezing and to provide a means of thawing the fluid if it should become frozen.

One (1)  
06-06-4100

## **DIESEL EXHAUST FLUID TANK**

There shall be an access door provided in the top rear step of left side crew area for access to the DEF tank.

One (1)  
06-08-0100

## **ENGINE EXHAUST ACCESSORIES**

An exhaust temperature mitigation device shall be shipped loose for installation by the body manufacturer on the vehicle. The temperature mitigation device shall lower the temperature of the exhaust by combining ambient air with the exhaust gasses at the exhaust outlet.

One (1)  
06-08-0200

## **ENGINE EXHAUST WRAP**

The exhaust tubing between the engine turbo and the diesel particulate filter (DPF) shall be wrapped with a thermal cover in order to retain the necessary heat for DPF regeneration. The exhaust wrap shall also help protect surrounding components from radiant heat which can be transferred from the exhaust.

One (1)  
08-02-0140

## **DIESEL PARTICULATE FILTER CONTROLS**

Provide DPF system status annunciation indicator lights, lights shall be installed on driver dash to alert driver when regeneration is needed and when DPF is in an active re-generation cycle.

Warning systems shall provide DEF low level warning.

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Driver's dash shall be provided with two (2) controls for the Diesel particulate filter; one (1) manual regeneration switch to activate a regeneration cycle manually when passive burn is unobtainable due to driving conditions; and one (1) Regen "Inhibit Switch".

The switches shall be located in a covered location.

One (1)  
06-04-2002

## **ENGINE COOLING SYSTEM**

The radiator and the complete cooling system shall meet or exceed NFPA and engine manufacturer cooling system requirements.

The system shall include and feature the following:

- A vertically stacked charge air cooler providing the maximum cooling capacity for the engine. Proposals offering horizontally stacked charge air cooler shall not be acceptable. No Exceptions
- The charge air cooler and radiator shall measure not less than 1382 square inches
- A surge tank with a low coolant probe and capable of removing entrained air from the cooling system, with built in sight glass
- Radiator re-circulation shields to prevent heated air from re-entering the cooling system and affecting performance
- Mounts allowing the entire radiator to drop through the frame for service when needed - No Exceptions
- Engine placement shall provide a minimum of 8" between the engine fan and radiator to maximize the airflow and cooling of the engine.
- A Spin on Element water filter with corrosion inhibitor shall be provided for the cooling system. No Exception.
- The coolant filter shall be provided with two (2) shut off valves, one (1) one inlet and one (1) outlet. No Exception.
- Cooling system shall be tested and certified by the engine manufacturer

## **COOLANT HOSES**

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# Moberly Fire Department

The cooling systems hose shall be formed silicone hose and formed aluminized steel tubing and include constant tension spring clamps.

## **ENGINE COOLANT**

The cooling package shall include Extended Life Coolant (ELC). The use of ELC provides longer intervals between coolant changes over standard coolants providing improved performance. The coolant shall contain a 50/50 mix of ethylene glycol and de-ionized water to keep the coolant from freezing to a temperature of -34 degrees F.

Supplemental coolant additives (SCA) are not required as this is part of the extended life coolant makeup.

One (1)  
06-04-4010

## **ADDITIONAL COOLANT SHUT OFF VALVE**

An additional coolant shut off valve with connection shall be installed in the chassis coolant lines with a connector. This shall allow for the installation of an additional heater such as a pump compartment heater without draining the coolant system.

One (1)  
06-05-1002

## **ENGINE PUMP HEAT EXCHANGER**

A single bundle type coolant to water heat exchanger shall be installed between the engine and the radiator. This pump heat exchanger shall circulate water from the fire pump to the heat exchanger thereby reducing the temperature of the coolant for the engine. The heat exchanger shall be designed to prohibit water from the pump from coming in contact with the engine coolant.

One (1)  
07-01-0100

## **TRANSMISSION**

The drive train shall include an Allison model EVS 3000 torque converting, automatic transmission which shall include electronic controls. The transmission shall feature two (2) 10-bolt PTO pads located on the converter housing.

The transmission shall include two (2) internal oil filters and Allison approved transmission fluid which shall be utilized in the lubrication of the EVS transmission. An electronic oil level sensor shall be included with the readout located in the shift selector.

The transmission shall include prognostic diagnostic capabilities. These capabilities shall include the monitoring of the fluid life, filter change indication, and transmission clutch maintenance.

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The transmission gear ratios shall be:

1st 3.49:1

2nd 1.86:1

3rd 1.41:1

4th 1.00:1

5th 0.75:1

6th 0.65:1 (if applicable)

Rev 5.03:1

## **TRANSMISSION COOLING SYSTEM**

The transmission shall include a water to oil cooler system located in the cooling loop between the radiator and the engine. The transmission cooling system shall meet all transmission manufacturer requirements. The transmission cooling system shall feature continuous flow of engine bypass water to maintain uninterrupted transmission cooling.

## **TRANSMISSION DRAIN PLUG**

The transmission shall include an original equipment manufacturer installed magnetic oil drain plug.

## **AUTOMATIC NEUTRAL**

The transmission shall be provided with an automatic neutral. When the parking brake is applied the transmission automatically returns to neutral.

One (1)  
07-01-0500

## **TRANSMISSION FLUID**

The transmission shall include two (2) internal oil filters and Allison approved transmission fluid which shall be utilized in the lubrication of the EVS transmission. An electronic oil level sensor shall be included with the readout located in the shift selector.

One (1)  
07-02-0008

## **TRANSMISSION SHIFT SELECTOR**

An Allison GEN V pressure sensitive range selector touch pad shall be provided and located on the tunnel to the right of the driver.

The shift selector shall provide an indicator on the digital display and shall alert the driver/operator when a specific maintenance function is required.

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One (1)  
07-02-0052

## TRANSMISSION MODE PROGRAMMING

The transmission, upon start-up, will select the fifth speed operation without the need to press the mode button.

One (1)  
07-02-0066

## TRANSMISSION PROGRAMMING

The EVS Vocation Package Number 198 for the fire service for this apparatus as a Pumper. This package shall incorporate an automatic neutral with selector override. This feature commands the transmission to neutral when the park brake is applied, regardless of drive range requested on the shift selector which requires re-selecting the drive range to shift out of neutral for the override.

This package shall be coupled with the use of a split shaft PTO and incorporate pumping circuits. The transmission will detect the pump engaged signal and automatically select or deselect fourth gear lock-up. These circuits shall be used allowing the vehicle to operate in the fourth range lockup while operating the pump mode due to the 1 to 1 ratio through the transmission, therefore the output speed of the engine is the input speed to the pump. The pump output can be easily calculated by using this input speed and the drive ratio of the pump itself to rate the gallons of water the pump can provide.

A nine (9) pin diagnostic connector will be provided.

The trans module shall contain the following circuits:

Function ID	Description	Wire Assignment
C1	PTO Drive Interface Output 1	142
J	Fire Truck Pump Mode (4 <sup>th</sup> Lockup)	122/123
C	Range Indicator	145 (4 <sup>th</sup> )
G1	PTO Drive Interface Output 1	130
	Signal Return	103

One (1)  
07-02-0251

## DRIVELINE

All drivelines shall be heavy duty metal tube and equipped with Spicer 1710 series universal joints.

The shafts shall be dynamically balanced prior to installation to alleviate future vibration. In areas of the driveline where a slip shaft is required, the splined slip joint shall be coated with Glide Coat®.

One (1)

# Moberly Fire Department

07-04-0120

## **FUEL FILTER/WATER SEPARATOR**

The fuel system shall have a Fleetguard FS1098 fuel filter/water separator as a primary filter. The fuel filter shall have a drain valve.

A water in fuel sensor shall be provided and wired to an instrument panel lamp and audible alarm to indicate when water is present in the fuel/water separator.

A secondary fuel filter shall be included as approved by the engine manufacturer.

One (1)

07-04-0310

## **FUEL SYSTEM**

The fuel tank shall have a capacity of fifty (50) gallons/one hundred eighty-nine (189) liters and shall measure 35.00 inches in width X 15.00 inches in height X 24.00 inches in length. The tank shall offer:

- A vent port which will facilitate venting to the top of the fill neck for rapid filling without any "blow-back"
- Two (2) 2" NPT fill ports for left and right hand fill with a .5" NPT drain plug centered side to side 9" from the front of the tank
- A roll over ball check vent for temperature related fuel expansion and draw
- A design including dual draw tubes and sender flanges
- A baffled design and shall be constructed of steel
- A black Powder Coated exterior to ensure corrosion resistance

The fuel tank shall be mounted below the frame, behind the rear axle. There shall be two (2) three-piece strap hanger assemblies with "U" straps bolted midway on the fuel tank, allowing the tank to be easily lowered and removed for service purposes.

The strap hanger material shall be stainless steel. No Exceptions.

For isolation of vibration and movement, rubber isolating pads shall be provided between the tank and the hanger strap assemblies. The tank straps shall be attached to rubber coated cross members which help isolate the tank from frame flex.

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Strap mounting studs through the rail, hidden behind the body shall not be acceptable.

All fuel lines shall be connected with steel fittings with all fittings pointed towards the right side (curbside) of the chassis.

The chassis fuel lines shall feature an additional 4' of length provided so the tank can be easily lowered and removed for service purposes which shall be coiled and secured at the top of the tank.

One (1)  
07-04-0216

## **FUEL LINES**

The fuel system supply and return lines installed from the fuel tank to the engine shall be black aramid braided lines with a fiber outer braid. The fuel lines shall be connected with reusable steel fittings. Fuel line is compatible with bio-fuel blends.

One (1)  
07-04-0225

## **FUEL SHUTOFF VALVE**

Two (2) fuel shutoff valves shall be installed at the fuel filter to allow the fuel filter to be changed without loss of fuel to the fuel pump.

One (1)  
07-04-0230

## **FUEL COOLER**

The cross flow air to fuel cooler shall be all aluminum and shall be provided to lower fuel temperature allowing the vehicle to operate at higher ambient temperatures. The fuel cooler shall be located rearward of the battery box, under the frame.

The fuel cooler shall incorporate a fan for improved heat transfer.

The fuel cooler shall be mounted to the frame using hot dipped galvanized brackets. Powder coated or painted brackets shall not be acceptable. No exception.

One (1)  
08-00-0403

## **ALTERNATOR**

The charging system shall include a 275-amp Delco Remy 40SI 12-volt alternator. The alternator shall feature:

- Premium brushless design providing added durability and life
- Provide the highest efficiency resulting in less horsepower requirements

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- Remote sense technology in extending the life of the battery
- 70% efficiency
- 3 Year warranty

One (1)  
08-00-0101

## **ELECTRICAL SYSTEM**

There shall be a 12-volt direct current single starting electrical system providing power to all components for the cab and chassis. The system shall feature:

- 300-degree Fahrenheit high temperature, flame retardant loom
- All SAE wiring color coded and labeled as to its function
- Wiring which is cross link with 311-degree Fahrenheit insulation
- A suppressed system in accordance with SAE J551

The primary power distribution will be located forward of the officer's seating position and be easily accessible while standing on the ground for simplified maintenance and troubleshooting. Additional electrical distribution centers will be provided throughout the vehicle to house the vehicle's electrical power, circuit protection, and control components. The electrical distribution centers will be located strategically throughout the vehicle to minimize wire length. For ease of maintenance, all electrical distribution centers will be easily accessible. All distribution centers containing fuses, circuit breakers and/or relays will be easily accessible.

Circuit protection devices, which conform to SAE standards, will be utilized to protect electrical circuits. All circuit protection devices will be rated per NFPA requirements to prevent wire and component damage when subjected to extreme current overload.

General protection circuit breakers will be a combination of automatic and manual reset breakers. This will provide a durability and capacity maximization of the electrical system. When required, automotive type fuses will be utilized to protect electronic equipment. Control relays and solenoid will have a direct current rating of 125 percent of the maximum current for which the circuit is protected per NFPA.

## **EMI/RFI PROTECTION**

# Moberly Fire Department

To prevent erroneous signals from crosstalk contamination and interference, the electrical system will meet, at a minimum, SAE J551/2, thus reducing undesired electromagnetic and radio frequency emissions. An advanced electrical system will be used to ensure radiated and conducted electromagnetic interference (EMI) or radio frequency interference (RFI) emissions are suppressed at their source.

The apparatus will have the ability to operate in the electromagnetic environment typically found in fire ground operations to ensure clean operations. The electrical system will meet, without exceptions, electromagnetic susceptibility conforming to SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter. The vehicle OEM, upon request, will provide EMC testing reports from testing conducted on an entire apparatus and will certify that the vehicle meets SAE J551/2 and SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter requirements. Component and partial (incomplete) vehicle testing is not adequate as overall vehicle design can impact test results and thus is not acceptable by itself.

EMI/RFI susceptibility will be controlled by applying appropriate circuit designs and shielding. The electrical system will be designed for full compatibility with low-level control signals and high-powered two-way radio communication systems. Harness and cable routing will be given careful attention to minimize the potential for conducting and radiated EMI/RFI susceptibility.

## **ELECTRICAL HARNESSING INSTALLATION**

To ensure rugged dependability, all wiring harnesses installed by the apparatus manufacturer will conform to the following specifications:

SAE J1128 - Low tension primary cable

SAE J1292 - Automobile, truck, truck-tractor, trailer and motor coach wiring

SAE J163 - Low tension wiring and cable terminals and splice clips

SAE J2202 - Heavy duty wiring systems for on-highway trucks

NFPA 1901 - Standard for automotive fire apparatus

FMVSS 302 - Flammability of interior materials for passenger cars, multipurpose passenger vehicles, trucks and buses

SAE J1939 - Serial communications protocol

SAE J2030 - Heavy-duty electrical connector performance standard

SAE J2223 - Connections for on board vehicle electrical wiring harnesses NEC - National Electrical Code

SAE J561 - Electrical terminals - Eyelet and spade type

SAE J928 - Electrical terminals - Pin and receptacle type A

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For increased reliability and harness integrity, harnesses will be routed throughout the cab and chassis in a manner which allows the harnessing to be laid into its mounting location. Routing of harnessing which requires pulling of wires through tubes will not be allowed.

Wiring will be run in loom or conduit where exposed, and have grommets or other edge protection where wires pass through metal. Wiring will be color, function and number coded. Wire colors will be integral to each wire insulator and run the entire length of each wire. Harnessing containing multiple wires and uses a single wire color for all wires will not be allowed. Function and number codes will be continuously imprinted on all wiring harness conductors at 3.00" intervals. All wiring installed between the cab and into doors will be protected by an expandable rubber boot to protect the wiring. Exterior exposed wire connectors will be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids.

Electrical wiring and equipment will be installed utilizing the following guidelines:

- All wire ends not placed into connectors will be sealed with a heat shrink end cap. Wires without a terminating connector or sealed end cap will not be allowed.
- All holes made in the roof will be caulked with silicon. Large fender washers, liberally caulked, will be used when fastening equipment to the underside of the cab roof.
- Any electrical component that is installed in an exposed area will be mounted in a manner that will not allow moisture to accumulate in it. Exposed area will be defined as any location outside of the cab or body.
- For low cost of ownership, electrical components designed to be removed for maintenance will be quickly accessible. For ease of use, a coil of wire will be provided behind the appliance to allow them to be pulled away from the mounting area for inspection and service work.
- Corrosion preventative compound will be applied to non-waterproof electrical connectors located outside of the cab or body. All non-waterproof connections will require this compound in the plug to prevent corrosion and for easy separation of the plug.
- Any lights containing non-waterproof sockets in a weather-exposed area will have corrosion preventative compound added to the socket terminal area.
- All electrical terminals in exposed areas will have protective Coating applied completely over the metal portion of the terminal.
- Rubber coated metal clamps will be used to support wire harnessing and battery cables routed along the chassis frame rails.

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- Heat shields will be used to protect harnessing in areas where high temperatures exist. Harnessing passing near the engine exhaust will be protected by a heat shield.
- Cab and crew cab harnessing will not be routed through enclosed metal tubing. Dedicated wire routing channels will be used to protect harnessing therefore improving the overall integrity of the vehicle electrical system. The design of the cab will allow for easy routing of additional wiring and easy access to existing wiring.
- All braided wire harnesses will have a permanent label attached for easy identification of the harness part number and fabrication date.
- All standard wiring entering or exiting the cab will be routed through sealed bulkhead connectors to protect against water intrusion into the cab.

## **BATTERY CABLE INSTALLATION**

All 12-volt battery cables and battery cable harnessing installed by the apparatus manufacturer will conform to the following requirements:

SAE J1127 - Battery Cable

SAE J561 - Electrical terminals, eyelets and spade type

SAE J562 - Nonmetallic loom

SAE J836A - Automotive metallurgical joining

SAE J1292 - Automotive truck, truck-tractor, trailer and motor coach wiring

NFPA 1901 - Standard for automotive fire apparatus

Battery cables and battery cable harnessing will be installed utilizing the following guidelines:

- All battery cables and battery harnesses will have a permanent label attached for easy identification of the harness part number.
- Splices will not be allowed on battery cables or battery cable harnesses.
- For ease of identification and simplified use, battery cables will be color coded. All positive battery cables will be red in color or wrapped in red loom the entire length of the cable. All negative battery cables will be black in color.
- For increased reliability and reduced maintenance, all electrical buss bars located on the exterior of the apparatus will be coated to prevent corrosion.

## **ELECTRICAL COMPONENT INSTALLATION**

All lighting used on the apparatus will be, at a minimum, a two (2) wire light grounded through a wired connection to the battery system. Lights using an apparatus metal structure for grounding will not be allowed.



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An operational test will be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order. The results of the tests will be recorded and provided to the purchaser at time of delivery.

One (1)  
04-04-1312

## **12V POWER POINTS**

There shall be one (1) 12v power point and one (1) dual USB power point provided. They shall be mounted in the driver's side of the dash. They shall be within easy reach of the driver; and shall be wired directly to the battery

One (1)  
04-04-1332

## **12V POWER POINTS**

There shall be one (1) 12v power point and one (1) dual USB power point provided. They shall be mounted in the officer's side of the dash. They shall be within easy reach of the officer; and shall be wired directly to the battery

One (1)  
08-01-0075

## **DRIVER SWITCH PANEL**

The driver panel to the right of the Driver's position shall include the following:

- In the upper most row on the left side it shall have two power points. Next to the power points will be the HVAC Controls, which shall include three (3) controls, the fan speed, comfort and defrost control, and temperature control. In the far-right position shall be the seat belt indicator.
- In the middle section there shall be eight (8) backlit switches, the switch on the far-right side shall be a high idle switch.
- In the bottom row there shall be six (6) switches. The two (2) switches in the far-right location shall be the dimmer switch in the second to last switch location and the wiper controls in the last switch location.

One (1)  
08-01-0240

## **MASTER WARNING SWITCH**

A master switch shall be included in the main rocker switch panel. The switch shall be a rocker type, red in color and labeled "Master" for identification. The switch shall feature control over all devices wired through it. Any warning device switch left in the "ON" position shall automatically power up when the master switch is activated.

Two (2)

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08-02-0511

## **ADDITIONAL POWER & GROUND STUDS**

Two (2) additional 40A power and 1/4" ground studs shall be provided. These shall be powered through the master switch.

Center dash & Radio location

One (1)  
08-04-1000

## **AM/FM RADIO WITH WEATHERBAND**

A radio receiver shall be located in the console. The receiver shall handle vibrations, temperature fluctuations, and humidity with ease. The front panel's protective covering shall keep out any dust and debris.

The receiver's AM and FM tuner shall feature presets for radio stations, and the Weather Band tuner shall include automatic NOAA weather for alerts to any severe weather. A portable player jack shall be available on the front panel.

The backlit LCD display shall feature easy to read digital readout in all lighting conditions.

One (1)  
8-04-2100

## **SPEAKERS**

Four (4) overhead speakers shall be provided in the cab for the radio.

One (1)  
08-02-0612

## **VEHICLE DATA RECORDER**

Apparatus shall be equipped with a Class1 "Vehicle Data Recorder (VDR) that is connected to the power train CAN (Controller Area Network) bus consisting of transmission (TCM), engine control (ECM) and anti-lock brake (ABS) modules mounted on the apparatus. The VDR will function per NFPA 1901-2009 sections 4.11 (Vehicle Data Recorder) utilizing the power train's J1939 data.

The VDR data shall be downloadable by USB cable to a computer using either Microsoft™ or Apple™ Operating Systems using Class 1/ O.E.M. supplied reporting software. The latest version of the software shall be available by contacting Class 1.

The apparatus shall be equipped with a Class1 Seat Belt Warning System" (SBW) that is connected to the power train CAN (Controller Area Network) bus consisting of transmission (TCM), engine control (ECM) and anti-lock brake (ABS) modules mounted on the apparatus.

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The SBW will function per NFPA 1901 14.1.3.10 (Seat Belt Warning) using the Class1 “Seat Belt Input Module” for seat occupied and belt status information.

The SBW system shall have the ability to use either normally open (NO) or normally closed (NC) switches (user selectable by “dip switches” at ground potential) for operation.

One (1)  
08-01-001A

Commander Analog Gauge Aluminum Dash

One (1)  
08-01-0010

## **CAB INSTRUMENTATION**

The instrumentation panel within the cab shall feature a gauge panel which shall include three (3) 5" diameter information centers, telltale indicator lamps, control switches, alarms, and a LCD diagnostic panel.

The gauges shall be easy to read including red backlighting.

The instrument panel shall contain the following gauges and indicators:

The middle information center shall include:

- A programmable speedometer to read either 0 to 140 MPH or 0 to 140 KM/H
- An amber telltale lamp indicating the Check Engine
- An amber telltale lamp indicating MIL Engine Emissions System Malfunction
- A red telltale lamp indicating Stop Engine
- A tachometer gauge with 0-3,000 RPM

The right hand side information center shall include:

- A gauge to display the engine oil pressure with high and low-level indicators and stop engine alarm
- A fuel level gauge with a low fuel indicator and alarm
- An LED bar displaying 4 stages of the level for the Diesel Exhaust Fluid (DEF) with a refill indicator
- A voltage gauge with low voltage indicator
- A water temperature gauge with high water temp indicator and alarm

The left hand side information center shall include:

- A primary air PSI gauge including low air and high air warning displays
- A secondary air PSI gauge with low and high air warning indication

An LCD diagnostic display, located in the left hand side information center shall include digital readouts for the following:

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- Odometer
- Transmission oil temp
- Engine oil temp
- Speedometer
- Engine hours
- Engine and transmission code
- Exhaust temp
- Engine coolant temp
- Engine oil PSI
- Turbo boost PSI
- Primary air pressure
- Secondary air pressure
- Engine load %
- Engine torque
- Battery volts
- Fuel level %
- Vehicle speed
- RPM
- DEF level
- Instant fuel economy
- Average fuel economy
- Engine hours
- Capable to record three trips, each shall be include:
  - Trip distance

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- Fuel economy
- Fuel used
- Idle fuel used
- The LCD screen shall also provide diagnostic capability

To promote safety, the following telltale indicator lamps will be integral to the gauge assembly and are located below the middle information center. The indicator lamps will be "dead-front" design that is only visible when active. The colored indicator lights will have descriptive text or symbols. The following indicator lamps shall be located on the Telltale panel:

## BLUE Indicator Lights

- High Beam Headlight

## GREEN Indicator Lights

- Right Turn Indicator
- Left Turn Indicator
- Battery On (Always On)

## YELLOW Indicator Lights

- Particle Filter Regeneration (DPF)
- Regeneration Inhibit (Switch Engaged)
- Air Intake Restriction
- High Exhaust System Temperature (HEST)
- Wait to Start (when applicable)
- ATC (Automatic Traction Control) (when applicable)
- Water in Fuel

## RED Indicator Lights

- Low Engine Coolant Level

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- Air Bag Warning (when applicable)
- Check Transmission
- High Transmission Temperature
- ABS
- Parking Brake

## **ALARMS**

Audible steady tone warning alarm: A steady audible tone alarm will be provided whenever a warning message is present.

Alarm silence: Any active audible alarm will be able to be silenced with a button on the right side of the LCD screen.

## **INDICATOR LAMP AND ALARM PROVE-OUT**

Telltale indicators and alarms will perform prove-out at initial power-up to ensure proper performance.

## **DIAGNOSTIC PANEL**

A diagnostic panel shall allow diagnostic tools such as computers to connect to various vehicle systems for improved trouble shooting providing a lower cost of ownership. The panel shall be accessible while standing on the ground and located inside the driver's door to the left of the steering column. Diagnostic switches shall allow engine and ABS systems to provide blink codes should a problem exist.

The diagnostic panel shall include:

- Engine diagnostic port
- V-Mux USB diagnostic port (when applicable)
- Engine diagnostic switch (blink codes flashed on check engine telltale indicator)
- Diesel particulate filter regeneration switch (when applicable)
- Diesel particulate filter regeneration inhibit switch (when applicable)

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The enclosed diagnostic panel, accessible through the HVAC access panel shall include:

- Transmission diagnostic port
- ABS diagnostic port
- SRS diagnostic port (when applicable)

One (1)  
08-01-0125

## **BACKLIGHTING COLOR**

The instrumentation gauges and the switch panel legends shall be backlit using red LED backlighting.

One (1)  
08-00-0341

4 Battery System

One (1)  
08-00-0326

## **BATTERIES**

The single start electrical system shall include four (4) 1000 CCA batteries.

The batteries shall feature:

- A 200 minute reserve capacity
- 4/0 dual path starter cables per SAE J541
- Heat shrink and sealant encapsulated ends on the cables
- Maintenance free

One (1)  
08-00-023E

## **BATTERY COMPARTMENTS**

A well ventilated battery storage compartment shall house the batteries on the officer and driver side of the chassis and shall be located so as to offer easy access to the batteries when the cab is tilted.

The each battery compartment shall feature a hot dipped galvanized battery box and cover.

One (1)  
08-00-0249

## **BATTERY CABLES**

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The starting system shall include cables which shall be protected by a 275-degree F, minimum high temperature flame retardant loom.

The cables shall be in a loom to help keep out dirt, dust and debris.

One (1)  
08-00-0251

## **BATTERY JUMPER STUD**

The starting system shall include battery jumper studs.

These studs shall be located in the forward most portion of the driver's side lower step.

The studs shall allow the vehicle to be jump started, charged, or the cab to be raised in an emergency in the event of battery failure.

One (1)  
08-01-0034

## **IGNITION**

A master battery system with a keyless start ignition system shall be provided. Each system shall be controlled by a marine grade two position switch, of which shall be mounted on the left side of the steering wheel adjacent to the driver's knee.

A push button type starter button shall be provided on the driver dash to the left of the steering wheel.

The starter button shall only operate when both the master battery and ignition switches are in the "ON" position.

One (1)  
08-01-0040

## **POWER & GROUND STUD**

An electrical distribution panel shall include two (2) power studs. The studs shall be a minimum of 1/4" and each of the power studs shall be circuit protected with a fuse of the specified amperage. One (1) power stud shall be capable of carrying up to a 40-amp battery direct load. One (1) power stud shall be capable of carrying up to a 15-amp ignition switched load. The two (2) power studs shall share one (1) 1/4" ground stud.

Four (4)  
08-00-072D

## **GROUND LIGHTS**

Each door shall include a Whelen 3SC0CDCR LED NFPA compliant ground light mounted to the underside of the cab step below each door.

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Each light shall include a polycarbonate lens, a housing which is vibration welded and a bulb which shall be shock mounted for extended life.

Four (4)  
08-01-0751

## **GROUND LIGHT ACTIVATION**

The ground lights shall activate when the park brake is engaged.

Four (4)  
08-00-0735

## **CAB STEP LIGHTING**

One (1) LED light shall be mounted to the riser of the middle cab step, a total of eight (8) step lights for the cab, in accordance with NFPA.

Each light shall include a polycarbonate lens and shall be contained in a housing which is vibration welded with a bulb which shall be shock mounted. Each step light shall not be any larger than 3" in diameter.

Four (4)  
08-01-0753

## **STEP LIGHT ACTIVATION**

The step lighting shall be activated by opening any of the cab doors on the respective side.

One (1)  
08-00-0783

## **ENGINE COMPARTMENT LIGHTING**

Two (2) LED lights shall be mounted to the engine compartment in such a fashion as to provide as much light as possible to the engine compartment area. The engine compartment lighting shall activate with the tilting of the cab.

One (1)  
08-00-0791

## **INTERIOR OVERHEAD CAB LED LIGHTING**

Each cab door shall include a dual red and white LED lamp. There shall be one (1) light centered over each of the Driver and Officer's seat and one centered over each crew door.

The clear lamp shall illuminate with the opening of each respective door with both the red and clear portions of the lamp activated by individual lighted switches on each lamp.

One (1)  
08-00-4090

## **DO NOT MOVE APPARATUS LIGHT**

The front headliner of the cab shall include a flashing red Whelen round LED light with a red

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lens clearly labeled "Do Not Move Apparatus".

The flashing red light shall be 3.00-inches in diameter and shall be located centered left to right for greatest visibility.

The light shall be interlocked for activation when either a cab door is not firmly closed, or an apparatus compartment door is not closed, and the parking brake is released.

One (1)  
08-01-2010

## **BACK-UP ALARM**

An ECCO model 575 backup alarm shall be installed at the rear of the chassis with an output level of 107 dB. The alarm shall automatically activate when the transmission is placed in reverse.

One (1)  
08-02-0770

## **HAAS ALERT / HA-5**

R2V (Responder-to-Vehicle) with HAAS ALERT R2R (Responder-to-Responder) Capability

HAAS Alert Model Number "HA-5" shall be provided.

The device shall: be constructed of high strength, impact resistant, RoHS compliant ASA Plastic; have IP65 ingress protection; include a cellular modem that connects to commercially available cellular networks to transmit and receive data to/from the HAAS Alert Safety Cloud™ and include a cellular network data plan that shall; send vehicle GPS location, speed, course, acceleration, and emergency lights status (e.g., "on" or "off") to the HAAS Alert Safety Cloud every two (2) seconds while the vehicle is moving with e-master activated; send changes in the emergency lights status to the HAAS Alert Safety Cloud; be connected to the E-Master or emergency lights master via a minimum of 22-gauge wire; be connected to the vehicle's main battery via a minimum of 20-gauge wire so that it receives constant power; be connected to the vehicle's ground via a minimum of 20-gauge wire; have a parasitic shut off that turns off the device when the vehicle's battery voltage falls below 12V; be mounted inside the cab on the dashboard, within 10 feet of the officer's seat and with a clear view of the sky. The device shall be upgradeable to other communication technologies such as, at minimum; 5G, 5.9 band, and FirstNet.

The device shall utilize the HAAS Alert Safety Cloud to send digital R2V (Responder-to-Vehicle) alerts to nearby civilian drivers via in-dash infotainment and IVI (In-vehicle Infotainment) units, Waze and other popular consumer navigation applications when the vehicle is en-route with emergency lights engaged; utilize the HAAS Alert Safety Cloud to send digital R2V alerts to nearby civilian drivers via in-dash infotainment and IVI (In-vehicle Infotainment) units, Waze and other popular consumer navigation applications when the vehicle is on-scene with emergency lights engaged; has the ability to utilize the HAAS Alert Safety

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# Moberly Fire Department

Cloud to receive digital R2R (Responder-to-Responder) alerts when the vehicle is en-route with emergency lights engaged and other responding emergency vehicles are in close proximity; have a port that connects to a compatible peripheral device to communicate R2R alerts to vehicle passengers. The device shall be able to communicate across all manufacturer brands.

The device shall have a companion, password-protected, web-based dashboard that provides authorized users with a map-based visualization of real-time vehicle location, emergency response status (i.e., “responding”, “on-scene”, “ready”, “offline”) with the ability for expanded attribution, vehicle speed and course, vehicle time-to-scene information, and vehicle time-on-scene information.

Dimensions – Length, Width, Height (Inches): 5.4” x 2.7” x 1.3”

Input Voltage - Power: 12.5V to 15V

Input Voltage - Lights Indicator: 12V to 15V

Amperage: 120 mA peak draw

Operating Temperature Range: -40°C to 85°C

Weight (Ounces): 7 oz.

One (1)  
08-02-0775

HAAS - 5 Year Subscription

One (1)  
08-08-KM13

## **BATTERY CHARGER**

One (1) Kussmaul Autocharge 1200 model #091-187-12, 40 amp fully automatic high output battery charger shall be wired to the 12 volt battery system. The charger unit shall be mounted in a clean dry area and will be accessible for service and/or maintenance.

One (1)  
08-08-0005

## **CHARGER LOCATION**

The battery Charger shall be located on top of the EMS compartment located behind the driver's seat.

One (1)  
08-08-0195

## **EJECTION UNIT**

A Kussmaul Super Auto Eject 20 amp 120 volt shore power assembly, cover, solenoid input wire, power cord, and plug shall be installed. The 12 volt solenoid shall eject the shore power cord away from vehicle path upon sensing engine start; after ejection, the weatherproof cover snaps into position over inlet. The unit shall sequence energizing of an Auto Eject, eliminating terminal arcing when connecting and disconnecting power cord.

# Moberly Fire Department

The unit shall have a waterproof back enclosure with watertight cable fittings, which protect mechanism from road contamination. A pre-wired 3 foot AC electrical cord and starting sense wire (side wired) shall be installed.

The assembly shall have the following dimensions: 6.17" high x 4.08" wide x 2.8" deep with 4 lb. weight.

One (1)  
08-08-2125

There shall be a Kussmaul 20-amp super auto eject with yellow cover, with integrated digital display supplied.

One (1)  
08-08-06SF

## **SHORELINE LOCATION**

The shoreline shall be located in the driver's front stepwell.

Please Specify Location

# City of Moberly

## City Council Agenda Summary

Agenda Number: #11.  
 Department: Fire Dept  
 Date: October 18, 2021

**Agenda Item:** A Resolution Authorizing The Purchase Of A 2006 Sutphen Aerial Truck For The Moberly Fire Department

**Summary:** See Attached Memorandum For Clarification

**Recommended**

**Action:** Approve This Resolution

**Fund Name:** General Fund

**Account Number:** 100.008.5502

**Available Budget \$:** Funds Transferred from ARPA Grant received

**ATTACHMENTS:**

<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input checked="" type="checkbox"/> Proposed Resolution
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____

**Roll Call**

**Aye    Nay**

**Mayor**

M\_\_\_ S\_\_\_ **Jeffrey**      \_\_\_    \_\_\_

**Council Member**

M\_\_\_ S\_\_\_ **Brubaker**      \_\_\_    \_\_\_

M\_\_\_ S\_\_\_ **Kimmons**      \_\_\_    \_\_\_

M\_\_\_ S\_\_\_ **Davis**      \_\_\_    \_\_\_

M\_\_\_ S\_\_\_ **Kyser**      \_\_\_    \_\_\_

Passed    Failed

# Moberly Fire Department

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## Memorandum

To: City Council & City Manager Brian Crane

From: Fire Chief Ryan

Date: September 30, 2021

This Memo Is A Formal Request For Council To Review A Purchase Option For A Used Aerial Truck Between Shawn Locklear And The City Of Moberly Fire Department. The Moberly Fire Department Has Been Looking To Purchase A Used Aerial Truck. The Process Was Prompted By The Reality That The Current Aerial Truck Is At The Point Of “End Of Life”. The Aerial Has Not Been Able To Pass The NFPA Standards Over The Last Several Years Due To Multiple Category 1 Deficiencies And Is Currently Unable To Be Repaired At A Reasonable Price To Meet NFPA Standards.

The Department Researched Used Aerial Trucks On Multiple Websites Of Vendors That Specialize In The Sales Of Used Fire Trucks. The Aerial Selected Was Based On Several Factors: Familiarity Of The Truck To Current Aerial; Ability Of The Seller To Provide Documentation Of Truck Soundness And Condition; and Cost. This Process Resulted In The Narrowing Of The Possible Trucks To Three And Chose The 2006 Sutphen 100’ Tower Offered For Sale By Shawn Locklear.

Through Negotiations With Mr. Locklear, The Option For Purchase Is As Follows: The City Agrees To Purchase The Vehicle For \$225,000.00. The Sale Will Be Contingent Upon Our Staff Operating The Vehicle To Make Sure It Will Meet The Standards We Desire. To Establish A “Hold” On The Truck, The City Would Remit A \$22,500.00 Payment (10% Of Final Cost). The Seller Will Retain An Earnest Amount Of \$2,500.00 If We Decide Not To Purchase After Operating The Vehicle. If We Agree To Purchase, Final Payment Of \$202,500.00 Will Be Paid To The Seller And The Aerial Will Be Property Of The City Of Moberly.

BILL NO.\_\_\_\_

RESOLUTION NO.\_\_\_\_

**A RESOLUTION AUTHORIZING THE PURCHASE OF A 2006 SUTPHEN AERIAL TRUCK FOR THE MOBERLY FIRE DEPARTMENT.**

**WHEREAS**, the Moberly Fire Department staff has determined that the existing aerial ladder truck is in need of replacement; and

**WHEREAS**, staff has considered available options for replacement and have determined that a used aerial truck would be the best alternative; and

**WHEREAS**, Shawn Locklear has offered a 2006 Sutphen 100' aerial truck for purchase by the city in the amount of Two Hundred and Twenty-Five Thousand Dollars (\$225,000.00).

**WHEREAS**, staff recommends purchase of this used aerial truck.

**THEREFORE**, the Moberly, Missouri, City Council accepts the offer of Shawn Locklear and authorizes the City Manager or his designee to purchase the aerial truck described herein for the total price of \$225,000.00 and granting further authority for all actions as may be necessary to carry out the intent of this Resolution.

**RESOLVED** this 18th day of October, 2021, by the Council of the City of Moberly, Missouri.

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Presiding Officer at Meeting

**ATTEST:**

---

Shannon Hance, City Clerk

2006 Sutphen 100' Tower









# City of Moberly

## City Council Agenda Summary

Agenda Number: #12.  
 Department: Public Utilities  
 Date: October 18, 2021

**Agenda Item:** A Resolution Authorizing The Submission Of A Proposed Ordinance For Pretreatment Modifications To The Missouri Department Of Natural Resources.

**Summary:** The City of Moberly Industrial Pretreatment Program is in the process of finalizing the update of Moberly City Code to meet EPA requirements. Additionally, staff requested that the consultant update the program's Enforcement Response Plan to align it with the current program.

To implement any of the changes made under the Streamlining Rule, Control Authorities (City of Moberly) must submit a program modification to their Approval Authority (Missouri DNR) in accordance with 40 C.F.R. § 403.18.

### Recommended

**Action:** Approve Resolution

**Fund Name:** N/A

**Account Number:** N/A

**Available Budget \$:** N/A

### ATTACHMENTS:

<input checked="" type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input checked="" type="checkbox"/> Proposed Resolution
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____

### Roll Call

**Aye**   **Nay**

### Mayor

M\_\_\_ S\_\_\_ **Jeffrey**      \_\_\_      \_\_\_

### Council Member

M\_\_\_ S\_\_\_ **Brubaker**      \_\_\_      \_\_\_

M\_\_\_ S\_\_\_ **Kimmons**      \_\_\_      \_\_\_

M\_\_\_ S\_\_\_ **Davis**      \_\_\_      \_\_\_

M\_\_\_ S\_\_\_ **Kyser**      \_\_\_      \_\_\_

Passed      Failed

BILL NO. \_\_\_\_\_

RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION AUTHORIZING THE SUBMISSION OF A PROPOSED ORDINANCE FOR PRETREATMENT MODIFICATIONS TO THE MISSOURI DEPARTMENT OF NATURAL RESOURCES.**

**WHEREAS**, city staff along with KIMHEC has prepared an amendment to Chapter 42, Article IV, attached hereto, of the city code related to compliance with requirements for the city pretreatment program; and

**WHEREAS**, the Missouri Department of Natural Resources (“MDNR”) requires that this proposed ordinance be submitted to it prior to passage by the city; and

**WHEREAS**, the city will issue a Public Notice of the proposed modifications including the incorporation of any comments from MDNR to the Pretreatment Program; and

**WHEREAS**, the city will ensure compliance with Pretreatment Standards and Requirements and will follow its Enforcement Response Plan in the event of non-compliance by Industrial Users; and

**WHEREAS**, the city will provide continued support, supervision and funding of the Pretreatment Program pursuant to Section 403.9(b)(2) RSMo.; and

**WHEREAS**, the Pretreatment Program modifications do not affect the city’s authority or ability to adequately carry out the program requirements described in Section 403.8 RSMo. and this statement is made as required by Section 403.9(b)(1).

**NOW, THEREFORE**, the Moberly, Missouri, City Council hereby authorizes the Public Utilities Director to submit the proposed ordinance for pretreatment modifications to the Missouri Department of Natural Resources and for city staff to take such other and necessary action to satisfy any requirements or modifications required by MDNR and further authorizing the Mayor of the City of Moberly to sign any documentation necessary for submission of the pretreatment plan.

**RESOLVED** this 18th day of October, 2021, by the Council of the City of Moberly, Missouri.

---

 Presiding Officer at Meeting

**ATTEST:**

---

 Shannon Hance, City Clerk

CITY OF MOBERLY, MISSOURI  
MOBERLY, MISSOURI

---

## **Enforcement Response Plan**

### **Industrial Users of the Sewer System**

#### **Prepared For**

Owner:

City of Moberly, Missouri  
101 W. Reed Street  
Moberly, Missouri 65270

***Missouri State Operating Permit: MO-0117960***

#### **Prepared by:**



**October 2021**

Printed Date: 10/5/2021 9:22 PM

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ENFORCEMENT RESPONSE PLAN  
OCTOBER 2021 DNR SUBMITTAL

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[Cease and Desist Order](#)

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[Public Notice of Significant Noncompliance](#)

[Self-Monitoring Report Checklist](#)

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[Request for TIO Waiver](#)

[Sample Plant Closure Plan](#)

[Dental Discharger: Letter, Packet and Form](#)



## 1. Introduction

This manual provides guidance to the City of Moberly, Missouri (Control Authority) personnel in the remedy of violations of the local pretreatment program established by the Chapter 42 - Utilities; Article 4, Sewer (Ordinance). Definitions for terms stated herein can be found in the ordinance. This Enforcement Response Plan (ERP) provides procedures to be followed by Control Authority staff to identify, document, and respond to pretreatment violations.

The ERP:

- Describes how the Publicly Owned Treatment Works (POTW) will investigate instances of noncompliance;
- Describes the types of escalating enforcement responses the POTW will take in response to all anticipated types of industrial user violations and the time periods within which responses will take place;
- Identifies the official(s) by title who are responsible for each type of response;
- Adequately reflects the POTWs primary responsibility to enforce all applicable pretreatment requirements and standards, as detailed in 40 CFR 403.8(f)(1) and (f)(2).

### 1.1 Administration and Jurisdiction

All entities discharging nondomestic waste to the POTW are subject to the provisions of the ERP. The Control Authority consistently administers and implements all elements of the ERP. The ERP does not preclude the Control Authority from taking any, all, or any combination of actions against a noncompliant industrial user.

### 1.2 Abbreviations

The following abbreviations, when used in this Enforcement Response Plan (ERP), shall have the designated meanings:

AO- Administrative Order  
ARU- Authorized Representative of User  
BOD – Biochemical Oxygen Demand  
BMP – Best Management Practice  
CA- Control Authority  
CFR – Code of Federal Regulations  
CIU – Categorical Industrial User  
DD-Dental Discharger  
EPA- Environmental Protection Agency

PC- Industrial Pretreatment Coordinator  
IU – Industrial User  
IRM- Informal Review Meeting  
NOV- Notice of Violation  
NPDES – National Pollutant Discharge Elimination System  
POTW – Publicly Owned Treatment Works  
SIU – Significant Industrial User  
SCH- Show Cause Hearing  
SNC – Significant Noncompliance  
TRC- Technical Review Criteria  
TSS – Total Suspended Solids  
MDNR-Missouri Department of Natural Resources

### 1.3 Definitions

Refer to the Pretreatment Ordinance for definitions not included below.

**Approval Authority** means the Missouri Department of Natural Resources

**Biochemical Oxygen Demand (5 Day) (BOD<sub>5</sub>)** means an indirect measure of the concentration of the biologically degradable material present in organic wastes. It reflects the amount of oxygen consumed in 5 days by biological processes breaking down organic waste.

**Best Management Practices or BMPs.** Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to implement the prohibitions listed in 42-416, [40 CFR 403.5(a)(1) and (b)]. BMPs include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage. BMPs also include alternative means (i.e., management plans) of complying with, or in place of certain established categorical Pretreatment Standards and effluent limits.

**Categorical Industrial User.** An Industrial User subject to a categorical Pretreatment Standard or categorical Standard.

**Chemical Oxygen Demand or COD.** A measure of the oxygen required to oxidize all compounds, both organic and inorganic, in water, using the procedures in 40 CFR 136 and usually expressed as a concentration (e.g., mg/L).

**Control Authority.** The City of Moberly, Missouri.

**Dental Discharger.** A facility where the practice of dentistry is performed, including, but not limited to, institutions, permanent or temporary offices, clinics, home offices, and facilities owned and operated by Federal, state or local governments, that discharges wastewater to a POTW. Dental dischargers for the purposes of this ERP are considered industrial users. They are not Categorical Industrial Users or Significant Industrial Users.

**Industrial User.** A source of indirect discharge pursuant to 40 CFR 403.3(j).

**Instantaneous Limit.** The maximum concentration of a pollutant allowed to be discharged at any time, determined from the analysis of any grab sample collected, independent of the industrial flow rate and the duration of the sampling event.

**Interference.** A discharge that, alone or in conjunction with a discharge or discharges from other sources, inhibits or disrupts the POTW, its treatment processes or operations or its sludge processes, use or disposal; and therefore, is a cause of a violation of the City NPDES permit or of the prevention of sewage sludge use or disposal in compliance with any of the following statutory/regulatory provisions or permits issued thereunder, or any more stringent State or local regulations: Section 405 of the Act; the Solid Waste Disposal Act, including Title II commonly referred to as the Resource Conservation and Recovery Act (RCRA); any State regulations contained in any State sludge management plan prepared pursuant to Subtitle D of the Solid Waste Disposal Act; the Clean Air Act; the Toxic Substances Control Act; and the Marine Protection, Research, and Sanctuaries Act.

**Local Limit.** Specific discharge limits developed and enforced by the City of Moberly, Missouri upon industrial or commercial facilities to implement the general and specific discharge prohibitions listed in 40 CFR 403.5(a)(1) and (b).

**New Source.**

1. Any building, structure, facility, or installation from which there is (or may be) a discharge of pollutants, the construction of which commenced after the publication of proposed Pretreatment Standards under section 307(c) of the Act that will be applicable to such source if such Standards are thereafter promulgated in accordance with that section, provided that:

- a. The building, structure, facility, or installation is constructed at a site at which no other source is located; or
- b. The building, structure, facility, or installation totally replaces the process or production equipment that causes the discharge of pollutants at an Existing Source; or
- c. The production or wastewater generating processes of the building, structure, facility, or installation are substantially independent of an Existing Source at the same site. In determining whether these are substantially independent, factors such as the extent to which the new facility is integrated with the existing plant, and the extent to which the new facility is engaged in the same general type of activity as the Existing Source, should be considered.

2. Construction on a site at which an Existing Source is located results in a modification rather than a New Source if the construction does not create a new building, structure, facility, or installation meeting the criteria of Section (1)(a) or (b) above but otherwise alters, replaces, or adds to existing process or production equipment.

3. Construction of a New Source as defined under this paragraph has commenced if the owner or operator has:

- a. Begun, or caused to begin, as part of a continuous onsite construction program:
  - i. any placement, assembly, or installation of facilities or equipment; or
  - ii. significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or
- b. Entered into a binding contractual obligation for the purchase of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.

**Pass Through.** A discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit, including an increase in the magnitude or duration of a violation.

**pH.** The logarithm of the reciprocal of hydrogen ion concentration in gram atoms per liter, used to express the acidity or alkalinity of a solution on a scale of 0 - 14, where less than 7 represents acidity, 7 neutrality, and more than 7 alkalinity.

**Pollutant.** Dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, Medical Wastes, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, municipal, agricultural and industrial wastes, and certain characteristics of wastewater (e.g., pH, temperature, TSS, turbidity, color, BOD, COD, Toxicity, or odor).

**Pretreatment.** The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to, or in lieu of, introducing such pollutants into the POTW. This reduction or alteration can be obtained by physical, chemical, or biological processes; by process changes; or by other means, except by diluting the concentration of the pollutants unless allowed by an applicable Pretreatment Standard. 40 CFR 403.3(s).

**Pretreatment Standards or Standards.** Pretreatment Standards shall mean prohibited discharge standards, categorical Pretreatment Standards, and Local Limits.

**Prohibited Discharge Standards or Prohibited Discharges.** Absolute prohibitions against the discharge of certain substances as stated in the local ordinance.

**Publicly Owned Treatment Works or POTW.** A treatment works, as defined by Section 212 of the Act (33 U.S.C. section 1292), which is owned by the City of Moberly and operated by the City of Moberly, Missouri. This definition includes any devices or systems used in the, storage, treatment, recycling, and reclamation of municipal sewage or industrial wastes

of a liquid nature. It also includes sewers, pipes, or other conveyances only if they convey wastewater to a POTW treatment plant. The term also means the municipality [as defined in CWA Section 502(4)] that has jurisdiction over the indirect discharges to and the discharges from such a treatment works.

**Significant Industrial User (SIU)**

1. All IUs subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR chapter I, subchapter N; and

a. Any other IU that: discharges an average of 25,000 gpd or more of process wastewater to the POTW (excluding sanitary, noncontact cooling and boiler blowdown wastewater); contributes a process wastestream which makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW Treatment plant; or is designated as such by the Control Authority on the basis that the IU has a reasonable potential for adversely affecting the POTW's operation or for violating any Pretreatment Standard or requirement (in accordance with 40 CFR 403.8(f)(6)).

**Slug Load or Slug Discharge.** Any discharge at a flow rate or concentration, which could cause a violation of the prohibited discharge standards in the local ordinance. A slug discharge is any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge, which has a reasonable potential to cause Interference or Pass Through, or in any other way violate the POTW's regulations, Local Limits or Permit conditions.

**Total Suspended Solids or Suspended Solids.** The total suspended matter that floats on the surface of, or is suspended in, water, wastewater, or other liquid, and that is removable by laboratory filtering. Results are expressed in mg/L.

**Wastewater.** Liquid and water carried industrial wastes and sewage from residential dwellings, commercial buildings, industrial and manufacturing facilities, and institutions, whether treated or untreated, which are contributed to the POTW.

## 2. Personnel Responsibilities

### 2.1 Control Authority Personnel

The Control Authority clearly establishes staff responsibilities for taking enforcement actions. As it matches personnel with enforcement responsibilities, the Control Authority should remember the time necessary to take enforcement action decreases as the authority to initiate the action is delegated. For example, by allowing field personnel to initiate certain types of administrative actions (such as issuing NOV's), the Control Authority ensures that these actions are taken soon after the noncompliance is discovered. Further, written delegation of specific responsibilities of staff helps the Control Authority respond consistently and in a routine manner to the industrial users, the public and the Approval Authority (Missouri Department of Natural Resources). However, some decisions (whether to pursue civil litigation or to terminate the service) must involve the Control Authority management and should not be delegated. The following subsections provide recommendations on assigning pretreatment responsibilities to the Control Authority personnel:

#### 2.1.1 Pretreatment Coordinator

The Pretreatment Coordinator (PC) is thoroughly familiar with program requirements and responsible for ensuring implementation of the Control Authority's pretreatment program requirements. Industrial users perceive that the program requirements originate in this person and look to him/her for guidance and assistance. As the Public Utilities Director' designated representative, the PC is authorized to initiate specific enforcement proceedings as needed to protect the POTW, the environment, and the health and welfare of the public.

Under the supervision and direction of the Public Utilities Director, the PC is responsible for:

- informal notices (verbal and written)
- notices of violation
- informal meetings
- publishing the annual list of significant violators
- referrals to the Approval Authority

Additional personnel are available at the POTW to assist the Industrial Pretreatment Coordinator PC as needed. Duties of these personnel include maintaining industrial user inventory, sampling, equipment inspection and maintenance, and laboratory analysis.

Treatment plant personnel are also available to assist in emergency situations as conditions may require.

#### 2.1.2 Public Utilities Director

The Public Utilities Director is responsible for compliance with the terms and conditions of the POTW's NPDES permit and for the overall operation and maintenance of the POTW, including employee safety, protection of the collection system and the treatment plant quality, and sludge use and disposal. He/She has the responsibility to monitor the PC's actions and to initiate the following enforcement actions:

- show cause hearings
- administrative orders
- consent agreements
- referrals to the Control Authority Attorney for judicial enforcement
- referrals to the Approval Authority or EPA

The Public Utilities Director as the Duly Authorized Representative of the POTW is responsible for signing any documentation requiring the signature of such.

#### 2.1.3 Control Authority Attorney

The Control Authority Attorney will provide legal consultation as requested by the Public Utilities Director on consent agreements and administrative orders and will take the lead on all referrals for civil litigation and POTW initiated criminal investigations.

## 3. Implementation

### 3.1 Industrial User Inventory

An essential step for identifying noncompliance is knowing who is discharging nondomestic waste to the POTW, where they are located, and the nature of the nondomestic waste being discharged. The PC maintains a current inventory of all nondomestic sources of waste to the POTW and will provide this list annually to the Approval Authority, including an indication whether these industries are regulated by categorical standards, local limits or both.

The Industrial User Inventory will be updated based on on-going or specific industrial user surveys and will be reflected in the annual pretreatment report to the state.

### 3.2 Monitoring and Inspection Plan

The PC may prepare a monitoring and inspection plan (typically corresponding to the permit cycle for the POTW). The Control Authority monitors the wastewater from each Significant Industrial User (SIU) at least once per year and typically includes monitoring of influent, effluent, and biosolids of the POTW system. The Control Authority requires all wastewater sampling and analysis to be performed in accordance with 40 CFR 136.

The Control Authority may implement standard operating procedures for field inspections, sampling events, and investigations including a procedure for screening data received via Control Authority sampling efforts or those submitted by the Industrial Users. A specific protocol for the review of industry monitoring reports will also be implemented.

Information gathered during Control Authority industrial user monitoring and inspections is used to verify industrial user compliance status and to determine if enforcement response must be initiated or continued. The Control Authority is also relying on the Industrial User to self-identify instances of noncompliance and report to the Control Authority.

### 3.3 Compliance Screening

All reports from Industrial Users and reports generated by the Control Authority are carefully reviewed, on an as-received basis for timeliness, completeness and accuracy. The screening process includes an evaluation of compliance with report due dates, numerical standards, sample handling and analysis requirements, signatory/certification requirements, monitoring frequency etc.

Any discrepancy will be considered a violation. To the extent possible, the User will be required to correct and respond to such discrepancies upon discovery by the PC.

All violations will be clearly documented (even if no action is taken). The PC will document all violations for the Public Utilities Director and each will be addressed in accordance with the Enforcement Table (see below, "Section 9.1 Enforcement Table").

### 3.4 Removal Credits

The Control Authority may, subject to the conditions of 40 CFR §403.7, grant removal credits to an Industrial User to which a categorical Pretreatment Standard(s) applies. The removal credits will reflect removal by the Control Authority of pollutants specified in the categorical Pretreatment Standard(s). The City of Moberly, Missouri may grant a removal credit equal to or, at its discretion, less than its consistent removal rate.

The following conditions MUST be met for the City of Moberly, Missouri to grant an IU removal credit(s):



1. City of Moberly, Missouri must apply for, and receive, authorization from the Missouri DNR to give a removal credit in accordance with the requirements and procedures stated in 40 CFR §403.7(e).
2. City of Moberly, Missouri demonstrates and continues to achieve consistent removal of the pollutant in accordance with 40 CFR §403.7(b).
3. City of Moberly, Missouri has a program which is considered an approved pretreatment program in accordance with and to the extent required by 40 CFR §403.
4. The granting of removal credits will not cause the City of Moberly, Missouri to violate the local, State and Federal Sludge Requirements which apply to the sludge management method chosen by the POTW. Alternatively, City of Moberly, Missouri can demonstrate to the Missouri Department of Natural Resources that even though it is not presently in compliance with applicable Sludge Requirements, it will be in compliance when the Industrial User(s) to whom the removal credit would apply is required to meet its categorical Pretreatment Standard(s) as modified by the removal credit. If granting removal credits forces City of Moberly, Missouri to incur greater sludge management costs than would be incurred in the absence of granting removal credits, the additional sludge management costs will not be eligible for EPA grant assistance.

### 3.5 Dental Dischargers

City of Moberly, Missouri will seek out all dental facilities that discharge to the POTW and develop a list of Dental Dischargers as a sub-category of the Industrial User Inventory by mailing a letter and dental rule explanation packet to Dental Discharges. (40 CFR 441, see appendix).

The One-Time Compliance Report ("OCTR") will be sent to all dental facilities. Dental Dischargers will be expected to return the completed report to the City of Moberly, Missouri by the date indicated. It will be reviewed and returned if incomplete. City of Moberly, Missouri will retain the OCTR in accordance with Municipal Ordinance 42-552.

Dental Dischargers are not subject to the full list of Significant Noncompliance criteria listed in Section 5.1. Instead, only (3), (4), and (8) of that section apply. The attached enforcement response table will apply if such violations occur. Late reporting is not considered SNC for DDs.

## 4. Description of Enforcement Actions

### 4.1 Informal Actions

#### 4.1.1 Informal Notice

Informal notice consists of personal contact, telephone calls, e-mails, letters of warning, or reminder letters to an appropriate official of an industrial user. The PC may use such a call, e-mail or letter to notify industrial users of a minor violation and to seek an explanation, suggest the user exercise more care or notify the violator that subsequent violations of the same type may be dealt with more severely. All informal notices will be documented in writing by the PC or Public Utilities Director and placed in the user's file.

#### 4.1.2 Informal Review Meeting

An informal review meeting is used to gather information concerning noncompliance, discuss steps to alleviate noncompliance, and determine the commitment level of the industrial user. Informal review meetings provide a voluntary means to prevent future violations.

The user shall be notified informally by the PC of the meeting and the violations to be discussed. Depending on the nature and severity of the violation, the meeting may be in person or over the phone.

The PC will lead the meeting and a Control Authority employee shall summarize the conclusions of the meeting. The Industrial User (IU) is required to respond to each violation identified with an explanation, and as appropriate, a plan to correct the violation within a specified period.

Neither the Informal Notice nor Notice of Violation is a precondition for calling an informal review meeting. In addition, no informal procedure is a prerequisite for instituting formal enforcement procedures.

#### 4.1.3 Notice of Violation (Chapter 42 - Utilities; Article 4, Sewer 42-661)

A Notice of Violation (NOV) is a written notice to the noncompliant industrial user that a pretreatment violation has occurred. A NOV includes a statement detailing the legal authority under which the Control Authority issued the NOV, a description of the violation(s), and the date(s) the violation(s) occurred. The NOV requires a response from the industrial user that details the causes of the violation(s), and the corrective actions taken to correct the violation and prevent similar violations from occurring.

In general, NOVs are more stringent enforcement responses than informal notices (informal meetings, letters, phone calls or e-mails). NOVs provide IUs with an opportunity to correct noncompliance on their own initiative rather than through an administrative

order. NOV's shall be sent via certified mail. Within or up to a maximum of 30 days as required by the Public Utilities Director of the receipt of such notice, an explanation of the violation and a plan for the satisfactory correction and prevention thereof, to include specific required actions, shall be submitted by the User to the Public Utilities Director.

## 4.2 Formal Actions

### 4.2.1 Standards Meeting

In cases where, following a NOV, continued violations occur or where violations of themselves are either of significant magnitude or duration, an IU may be required to attend Standards Meeting. The request for a Standards Meeting should be issued by the DPU at the recommendation of the PC to the SIU after or with the NOV. Notice of such a meeting shall be sent by certified mail, return receipt requested, and another source such as email, regular mail or a site visit. Attendance is mandatory by the IU and failure to comply with such a notice may result in an order for Show Cause or suite for fines or penalties or such other remedies as are provided by the Code of Ordinances. The Standards Meeting will establish procedures, investigations and studies as the PC deems necessary and desirable to determine the cause of violations and methods to correct them.

At the conclusion of the Standards Meeting, the IU may be issued a compliance directive specifying actions to be undertaken including studies to identify and solve the problem. Timetables may also be established to complete any such studies as are required and variances, may be issued as required. Failure to comply with terms of the compliance directive or to implement the results of studies to alleviate the cause for violations may result in an order for Show Cause or suite for fines or penalties or such other remedies as are provided by the Code of Ordinances.

### 4.2.2 Administrative Orders (Chapter 42 - Utilities; Article 4, Sewer 42-662)

Administrative Orders (AOs) are enforcement documents that direct Industrial Users to undertake and/or to cease specified activities by specified deadlines. The Public Utilities Director has the authority to issue AOs. The terms of an AO may or may not be negotiated with Industrial Users. AOs may incorporate compliance schedules, administrative penalties, and/or termination of service. Cease and Desist and Show Cause Hearing orders issued by the Control Authority are considered AOs.

The specific circumstances of an individual Industrial User's non-compliance will dictate the type of AO that is appropriate. More than one AO may be issued to respond to a particular instance of non-compliance. AOs are judicially enforceable, and the minimum level of enforcement used to address Significant Noncompliance (see, Section 5.1 for definition).

#### 4.2.3 Consent Order (Chapter 42 - Utilities; Article 4, Sewer 42-662)

Consent Orders combine the force of an AO with the flexibility of a negotiated settlement. The Public Utilities Director has the authority to enter into consent orders. Such orders are an agreement between the Control Authority and the Industrial User and contain the following elements: (1) compliance schedules, (2) stipulated fines and/or remedial actions, and (3) signatures of the duly authorized representatives of Control Authority and the Industrial User. Consent Orders shall have the same force and effect as AOs and shall be judicially enforceable.

The PC under the direction of the Public Utilities Director will typically request an informal review meeting to meet with the industrial user prior to the issuance of a consent order/agreement for the purpose of the development of compliance schedule milestone(s) and action(s) to be included within the Consent Order and to insure consent on these items by all parties.

#### 4.2.4 Compliance Order (Chapter 42 - Utilities; Article 4, Sewer 42-664)

When the Public Utilities Director finds that an IU has violated, or continues to violate, any provision of the ordinance, local rules and regulations, a wastewater discharge permit, a discharge authorization, or order or directive issued hereunder, or any other pretreatment standard or requirement, the Public Utilities Director may issue a Compliance Order to the IU responsible for the discharge directing that the IU come into compliance within a specified time. The Public Utilities Director is authorized to do this unilaterally and the terms of the compliance order need not be discussed with the IU in advance.

If the IU fails to come into compliance within the time provided, sanitary sewer service may be discontinued or other taken action per the Enforcement Table unless adequate treatment facilities, devices, or other related appurtenances are installed and properly operated. Compliance Orders also may contain other items or requirements to address the noncompliance, including penalties, additional self-monitoring, and management practices designed to minimize the amount of pollutants discharged to the POTW.

A Compliance Order may not extend the deadline for compliance established for a pretreatment standard or requirement, nor does a Compliance Order relieve the IU of liability for any violation, including any continuing violation. Issuance of a Compliance Order shall not be a bar against, or a prerequisite for, taking any other action against the IU.

#### 4.2.5 Cease and Desist Orders (Chapter 42 - Utilities; Article 4, Sewer 42-665)

A Cease and Desist Order directs a noncompliant IU to cease illegal or unauthorized discharges immediately or to terminate its discharge altogether.

When the Public Utilities Director finds that an IU violates, or continues to violate, any provision of the ordinance, an individual wastewater discharge permit, or order issued hereunder, or any other Pretreatment Standard or Requirement, or that the IU's past violations are likely to recur, the Public Utilities Director may issue an order to the IU directing it to cease and desist all prohibited discharges and directing the IU to:

- A. Immediately comply with all requirements; and
- B. Make such appropriate remedial or preventive action as may be needed to properly address a continuing or threatened violation, including, but not limited to halting operations and/or terminating the discharge. Issuance of a Cease and Desist Order shall not be a bar against, or a prerequisite for, taking any other action against the IU.

### **4.3 Show Cause Hearing (Chapter 42 - Utilities; Article 4, Sewer 42-663)**

The Public Utilities Director may order an IU which has violated, or continues to violate, any provision of the ordinance, an individual wastewater discharge permit, or order issued hereunder, or any other Pretreatment Standard or Requirement, to appear before the Public Utilities Director and show cause why the proposed enforcement action should not be taken. The initiation of a Show Cause Hearing is dependent on the nature and severity of the violation. Section 9.1 "Enforcement Response Table" provides guidance.

Written notice of the date, time, and location of the hearing shall be served personally or via certified mail to the parties of the Administrative Order no less than 14 days prior to the date thereof. No other person, other than the Hearing Officer and parties to the Administrative Order (including counsel), shall be permitted to participate in the hearing unless expressly permitted by the City.

If a person fails to appear at a hearing, or fails to comply with an order of the City or hearing officer, the City or Hearing Officer may:

- (1) find that the allegations of the Administrative Order or the issues set out in the Administrative Order or requirement to show cause are true and deemed to be proved without further proof;
- (2) affirm the action of the Public Utilities Director;
- (3) exclude evidence not already before the City or Hearing Officer;
- (4) issue a Compliance Order; or

(5) refer the matter to civil litigation or criminal prosecution.

Each party shall secure the attendance of any permitted witnesses and for the production of such evidence at the hearing as the party desires to tender. No discovery shall be allowed as a matter of course, provided that any party may file a written request with the City or Hearing Officer seeking the issuance of an order requiring the other party to admit to the truth of one or more matters.

A party shall have all evidence to be presented, both oral and written, available on the date of the hearing. The party shall be responsible for presenting credible evidence of such quality and scope as is sufficient to persuade the City or the hearing officer that the party is entitled to the relief which is sought. If a person fails to present such evidence, then the City or hearing officer shall affirm the action of the Public Utilities Director.

In considering the admissibility of evidence, the City or Hearing Officer is not bound to follow the standards required of judicial bodies nor of administrative law judges under the Administrative Procedures Act. The City or Hearing Officer may admit such evidence that has probative value. Irrelevant, incompetent and immaterial or unduly repetitious evidence may be excluded.

All evidence to be considered in the hearing, including all records and documents or a true and accurate photocopy, shall be offered and made a part of the record of the hearing.

Requests for a continuance of a hearing may be granted by the City or Hearing Officer upon showing of good cause. A request for a continuance of a hearing shall be made in writing to the City or Hearing Officer. In determining whether good cause exists, due regard shall be given to the ability of the party requesting a continuance to proceed effectively without a continuance.

During a hearing, if it appears in the interest of justice that further testimony should be received, and sufficient time does not remain to conclude the testimony the City or Hearing Officer may continue the hearing to a future date for which oral notice on the record is sufficient. A continuance shall not be granted when to do so would prevent the hearing from being concluded and a decision issued within ninety calendar days after the date on which the Show Cause Hearing commences, unless both parties consent to the continuance.

A party need not be represented by an attorney. If a party has notified the other party of that party's representation by an attorney, all communications to that party shall be directed to that attorney.

Prior to issuing an order or decision, the hearing officer may ask any party to submit a proposed order or decision which may include proposed findings of fact and conclusions of law.

Upon conclusion of the hearing, the City or Hearing Officer shall declare the record of the hearing closed. No further documents, affidavits, nor testimony shall be considered, provided that the City or Hearing Officer may, at its sole discretion, permit any party to file additional written arguments. The City or hearing officer shall issue a written decision as soon as practicable after the close of the record, but no later than ninety (90) calendar days after the date on which the adjudicatory hearing commences, unless all parties consent to a reasonable extension of such time. The written decision of the City shall be a trial decision appealable to the 14th Circuit Court of Randolph and Howard Counties.

#### **4.4 Emergency Suspension (Chapter 42 - Utilities; Article 4, Sewer 42-667)**

The Public Utilities Director may immediately suspend an IU's discharge, after informal notice to the IU, whenever such suspension is necessary to stop an actual or threatened discharge, which reasonably appears to present, or cause an imminent or substantial endangerment to the health or welfare of persons. The Public Utilities Director may also immediately suspend an IU's discharge, after notice and opportunity to respond, that threatens to interfere with the operation of the POTW, or which presents, or may present, an endangerment to the environment.

- Any IU notified of a suspension of its discharge shall immediately stop or eliminate its contribution. In the event of an IU's failure to immediately comply voluntarily with the Suspension Order, the Public Utilities Director may take such steps as deemed necessary, including immediate severance of the sewer connection, to prevent or minimize damage to the POTW, its receiving stream, or endangerment to any individuals. The Public Utilities Director may allow the IU to recommence its discharge when the IU has demonstrated to the satisfaction of the Public Utilities Director that the period of endangerment has passed, unless the termination proceedings in 42-668 of the city ordinance are initiated against the User.
- An IU that is responsible, in whole or in part, for any discharge presenting imminent endangerment shall submit a detailed written statement, describing the causes of the harmful contribution and the measures taken to prevent any future occurrence, to the Public Utilities Director prior to the date of any Show Cause Hearing under 42-663 or 42-668 of this ordinance.

Nothing in this Section shall be interpreted as requiring a hearing prior to any Emergency Suspension under this Section.

## **4.5 Termination of Discharge (Chapter 42 - Utilities; Article 4, Sewer 42-668)**

Termination of discharge is the revocation of an IU's privilege to discharge nondomestic wastewater into the sewer system. Termination of Discharge is used when the discharge from an IU presents imminent endangerment to the health or welfare of persons, or the environment, or threatens to interfere with the POTW's operations, or as an escalating enforcement action when a noncompliant IU fails to respond adequately to previous enforcement actions.

In addition to the provisions in 42-510 of the ordinance, any IU who violates the following conditions is subject to discharge termination:

- Violation of individual wastewater discharge permit conditions;
- Failure to accurately report the wastewater constituents and characteristics of its discharge;
- Failure to report significant changes in operations or wastewater volume, constituents, and characteristics prior to discharge;
- Refusal of reasonable access to the User's premises for the purpose of inspection, monitoring, or sampling; or
- Violation of the Pretreatment Standards in 42-398 to 42-756 of the ordinance.

Termination of service may be accomplished by physical severance of the IU connection to the POTW, requesting the IU to immediately terminate its discharge, revocation of the IUs discharge permit, or a court ruling.

Such IU will be notified of the proposed termination of its discharge and be offered an opportunity to show cause under 42-663 of the ordinance why the proposed action should not be taken. Exercise of this option by the Public Utilities Director shall not be a bar to, or a prerequisite for, taking any other action against the User.

## **4.6 Administrative Fines (Chapter 42 - Utilities; Article 4, Sewer 42-666)**

An administrative fine is a punitive monetary charge assessed by the Control Authority rather than a court. The purpose of the fine is to recover the economic benefit of noncompliance and to deter future violations. When assessing an administrative fine, the following factors are considered:

- Magnitude of the violation;
- Duration of the violation;
- Effect of the violation on the POTW's receiving stream;
- Effect of the violation on POTW processes and equipment;
- Effect on the Authority's or its representatives' equipment;



- Compliance history of the IU ;
- Good faith of the IU industrial user; or
- Pollutants of importance to the POTW.

Fines will be issued by the Public Utilities Director and charged pursuant to the Control Authority's Fine Schedule (see, Section 7).

## **4.7 Judicial Enforcement Remedies**

### **4.7.1 Civil Penalties (Chapter 42 - Utilities; Article 4, Sewer 42-696)**

Civil litigation is the formal process whereby the Control Authority files a lawsuit against the IU to secure court ordered action to correct violations and to secure penalties for the violations including recovery of costs to the POTW for the noncompliance. Civil Litigation also includes enforcement measures which require involvement or approval of the court, such as injunctive relief.

### **4.7.2 Criminal Penalties (Chapter 42 - Utilities; Article 4, Sewer 42-697)**

Criminal prosecution is the formal process of charging individuals and/or organizations with violations of ordinance provisions that are punishable, upon conviction, by fines and/or imprisonment. The Control Authority authorizes criminal prosecution for ordinance violations when they are willful or negligent and may be appropriate in cases of repeated violations or when less formal efforts to restore compliance have failed. Criminal prosecution may be brought prior to, concurrently with, or subsequent to civil litigation. The Public Utilities Director shall initiate criminal prosecution through legal counsel.

## **4.8 Referral to EPA or the Approval Authority**

On a case-by-case basis, there are times when a POTW could benefit from additional support from the Approval Authority or the regional EPA office. The level of involvement can vary from situations such as handing the case over to EPA or the Approval Authority, relying on these agencies for additional support, to attend meetings, and provide review of enforcement actions.

## **4.9 Remedies Non-Exclusive**

The remedies provided for herein are not exclusive. The Control Authority may take any, all, or any combination of these actions and actions outlined in the Ordinance (Subdivision XII Supplemental Enforcement Action) against a noncompliant IU. Enforcement of pretreatment violations will generally be in accordance with this Enforcement Response Plan. However, the Public Utilities Director may take other action against any IU when the circumstances warrant. Further, the Public Utilities Director is empowered to take more than one enforcement action against any noncompliant IU.

## 5. Response to Pretreatment Requirement Violations

The identification of a violation of pretreatment requirements, regardless of the severity, will initiate the enforcement process. Discovery of a violation may occur because of any number of activities. The list below represents the most common sources of identifying violations:

- Review of surveillance sampling results;
- Review of IU self-monitoring results;
- Spill/accidental discharge reports from IU
- Site visits/inspections by Approval Authority personnel and/or representatives of Control Authority;
- Information provided by IU employees;
- Observations by field personnel;
- Information provided by the public or private citizens;
- Review of compliance schedule requirements;
- Review of compliance agreement or agreed judgment requirements; and
- Information provided by other agencies (EPA, County Public Health Department, etc.).

Once a violation is identified, it is the responsibility of the Control Authority to implement the appropriate enforcement response as outlined in the Enforcement Table. When determining an appropriate response, particularly one which includes the imposition of penalties, the procedures outlined in the Enforcement Table must be followed. In applying the Enforcement Table, the following criteria shall also be used in determining the appropriate response:

- Magnitude of the violation;
- Duration of the violation;
- Effect of the violation on the POTW's receiving stream;
- Effect of the violation on POTW processes and equipment;
- Effect on the Authority's or its representatives' equipment;
- Compliance history of the IU;
- Good faith of the IU; or
- Pollutants of importance to the POTW.

The Enforcement Table designates enforcement options for many possible types or patterns of noncompliance, identifies the personnel who should take these responses, identifies documents to be completed, and discusses the time frames for taking such actions. The Enforcement Table is not exhaustive of all possible types or patterns of noncompliance. If a violation arises that does not have an enforcement response specified in the Enforcement Table, the PC and/or Public Utilities Director will apply an appropriate response based on the consideration of factors stated above and consistent with the penalties outlined for other similar types or patterns of noncompliance in the Enforcement Table.

The Control Authority will periodically reassess the effectiveness of the Enforcement Table in accomplishing the pretreatment program's goals.

## 5.1 Significant Noncompliance

The Enforcement Table incorporates when a determination of Significant Noncompliance (as defined in 40 CFR 403.8 (f)(2)(viii)) needs to be made.

Instances of Significant Noncompliance (SNC) are Industrial User violations which meet one or more of the following criteria:

1. Chronic violations of wastewater discharge limits, defined here as those in which sixty-six percent (66%) or more of all the measurements taken for the same pollutant parameter during a six-month period exceed (by any magnitude) a numeric Pretreatment Standard or Requirement, including instantaneous limits, as defined by 40 CFR 403.3(l);
2. Technical Review Criteria (TRC) violations, defined here as those in which thirty-three percent (33%) or more of all the measurements taken for the same pollutant parameter during a six-month period equal or exceed the product of the numeric Pretreatment Standard or Requirement including instantaneous limits, multiplied by the applicable TRC (TRC = 1.4 for BOD, TSS, fats, oils and grease, and 1.2 for all other pollutants except pH);
3. Any other violation of a Pretreatment Standard or Requirement that the Public Utilities Director determines has caused, alone or in combination with other discharges, Interference or Pass Through (including endangering the health of POTW personnel or the general public);
4. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare, or to the environment, or has resulted in the POTW's exercise of its emergency authority to halt or prevent such a discharge;
5. Failure to meet, within ninety (90) days after the schedule date, a compliance schedule milestone contained in a local control mechanism (e.g., an IU permit, compliance agreement) or enforcement order for starting construction, completing construction, or attaining final compliance;
6. Failure to provide, within forty-five (45) days after the due date, required reports, such as baseline monitoring reports, ninety-day compliance reports, periodic self-monitoring reports, and reports on compliance with compliance schedules
7. Failure to accurately report noncompliance; or
8. Any other violation or group of violations, which may include a violation of Best Management Practices as required in a local control mechanism, which the Public Utilities Director determines will adversely affect the operation or implementation of the local Pretreatment program.

*Note: A determination of Significant Noncompliance will be based on a six-month time period. The six-month time period will be based on data provided in January and July for the preceding six-months. Minimum Enforcement Response for Significant Noncompliance is an Administrative Order and Public Notification per 42-634 of the Chapter 42 - Utilities; Article 4, Sewer. Public notification will minimally occur annually or more frequently at the Public Utilities Director's discretion.*

*\* For Compliance reports: The User shall submit a progress report to the Public Utilities Director no later than fourteen (14) days following each milestone date in the schedule and the final date of compliance. The forty-five (45) day deadline cited here starts on the fifteenth (15<sup>th</sup>) day and concludes after forty-five(45) calendar days. The report must be postmarked by the forty fifth (45<sup>th</sup>) day.*

## 6. Time Frames for Response by Control Authority and Follow Up

For an enforcement action to be effective, it must be timely. For an action to be timely, the violation must be detected and responded to promptly after its occurrence.

The Control Authority should follow the following guidelines for response and follow up with IUs. For the purposes of the ERP, days are calendar days.

Action	Time Frame
<b>Review of compliance reports (General Guideline)</b>	The Control Authority staff should review industrial user reports within 15 days of receipt. Violations observed by the Control Authority field personnel should receive even swifter attention.
<b>Monitoring data collected by POTW.</b>	The POTW will notify IU within 24 hours of becoming aware of a violation.
<b>Initiation of any Enforcement Response (General Guideline)</b>	No more than 30 days be allowed to elapse between the detection of the violation(s) and the initiation of any enforcement response. Violations with the potential to harm the POTW, people or the environment warrant and immediate enforcement response.
<b>Informal Notice or Informal Review Meeting</b>	Notice or the Meeting should be sent or held within 5 days of detection of the violation.
<b>Notice of Violation</b>	NOV should be sent to the noncompliant user within 30 business days of the violation's identification. Should be hand delivered* or sent certified mail to the IU.
<b>Administrative Orders (includes: Consent Order, Compliance Order, Termination of Service, and Cease and Desist)</b>	Order shall be issued within 30 days between the identification of the violation(s) and issuing order(s). Should be hand delivered or sent certified mail to IU.

**Compliance Schedule Monitoring after a Violation**

Follow-up compliance activities should begin no later than 30 to 45 days after the initial enforcement response is taken.

Determination of completion of a compliance schedule milestone or verification of a submitted report should be made on or about the milestone date in the compliance schedule.

**Escalation of Enforcement Response (violations persist or satisfactory progress is not being made)**

Follow-up enforcement actions should be taken within 60 to 90 days of the initial enforcement action.

*\*Control Authorities should use policies and procedures for hand delivery of documents as stated in the CA's Municipal Code. If no local ordinance exists, the CA will provide one copy to the IU with the original signature of the person delivering the document on behalf of the CA and signature of the person receiving it on behalf of IU along with the date and time of delivery. A second copy with the same original signature, date, and time will be retained by the CA.*

## 7. Fine Schedule

The Fine Schedule provides guidance on fine amounts and the time frames for issuing fines. **Any violation after a six-month period of compliance shall be considered a first offense unless otherwise determined by the Public Utilities Director. The Control Authority has the legal authority to escalate fines after the first offense based the factors outlined in Section 5 of this Guide.**

The maximum fine allowed for Pretreatment Code violations is \$1000 per violation per day. In general, the response to a first offense will be an informal telephone call/e-mail or meeting with no fine, unless specified below. Fines will then increase at the Control Authority's discretion based on the fine schedule and factors set out in Section 5 of this Plan.

If the violation meets the definition of Significant Noncompliance, the minimum fine shall correspond to the 2<sup>nd</sup> offense (per violation per day) and escalate thereafter unless fines are waived as part of the corrective action being required.

The following Fine Schedule is not exhaustive of all situations where an administrative fine is needed. The Public Utilities Director should make fine determinations not specified here, based on the factors mentioned in Section 5 of this Plan.

### ***Fine Schedule (all amounts are per violation per day, unless otherwise specified)***

#### **– First Offense**

- \$0-\$250.

#### **– Second Offense (except as noted below):**

- \$250-\$500
- Failure to implement or document BMP
- Failure to properly operate and maintain pretreatment system

#### **– Third Offense and Reoccurring Offenses**

- \$500-\$1000

#### **Late Reports (Chapter 42 - Utilities; Article 4, Sewer 42-724)**

- No Fine 0-5 calendar days after the report is due.
- \$25/day fine at five (5) calendar days after the report is due. Increased fine amount and/or progression of fine should be specified in the Notice of Violation including escalation to Significant Noncompliance as applicable.

## 8. Payment of Fines

The amount of the administrative fine plus the amount of the damages shall be determined and shall be added to the IU's next sewer service bill. The fine and the damages shall be paid in accordance with utility billing policies. Non-payment of the administrative fines and damages shall have the same remedies as non-payment of a utility bill.

Public Utilities Director in consultation with the City may consider applying fines paid towards the user's remedial action on a case-by-case basis. The City is under no legal obligation to consider applying fines to the user's remedial action(s) and the percentage of the fine is at the discretion of the Public Utilities Director.



## 9. Enforcement Table

The Enforcement Table includes a series of “Levels” of actions which are appropriately escalating in the level of the response and the personnel involved both from the Control Authority and from the Industrial User. Below are Definitions and Abbreviations used consistently throughout the document.

### 9.1 Definitions

**HARM** means the noncompliance caused interference, pass through, or endanger the health of City POTW personnel or general public, or the noncompliance caused the City POTW a violation of NPDES permit or impact biosolids disposal. Harm also includes increased cost of treatment or actual destruction of equipment. Response to the noncompliance should determine the seriousness of the harm and the cost to the City.

**NOT SIGNIFICANT** means the numerical result of the reported value is less than the permit limit times the technical review criteria multiplier\*.

**SIGNIFICANT** means the numerical result of the reported value is more than the permit limit times the technical review criteria multiplier\*).

\*Refer to the Section 5.1, Significant Noncompliance for the technical review criteria reference or the quick reference on the following page.

**ISOLATED** means two or less violations (per pollutant) for the 6-month compliance period.

**RECURRING** means more than two violations for the 6-month compliance period.

**ONGOING** means the noncompliant event is ongoing after notice of the event and after notice of the recurring event and requires further escalation to correct the noncompliance.

#### 9.1.1 Abbreviations

AO	Administrative Order (CA option to issue either a Consent Order (negotiated) or a Compliance Order (directed))
ARU	Authorized Representative of User
BMP	Best Management Practice
CA	Control Authority (City of Moberly)
CA	City Administrator
FC	Facility Contact (under the direction of the ARU)
IC	Informal Communication
IU	Industrial User
IRM	Informal Review Meeting
NOV	Notice of Violation
NOW	Notice of Warning
PC	Pretreatment Coordinator (under the direction of the DPU)
POTW	Publicly Owned Treatment Works (Collection system and/or the wastewater treatment plant)

ENFORCEMENT RESPONSE PLAN  
OCTOBER 2021 DNR SUBMITTAL

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<i>DPU</i>	Public Utilities Director
<i>SIU</i>	Significant Industrial User
<i>SCH</i>	Show Cause Hearing
<i>SNC</i>	Significant Noncompliance
<i>SM</i>	Standards Meeting

## 9.2 Significant Noncompliance Quick Reference

Refer to Section 5.1 for the full definition of Significant Noncompliance; a quick reference is provided here:

SNC Item Reference	Brief Description	Details
#1	Chronic Criteria	66% or more of sample results for an individual pollutant exceed the permit limit
#2	Technical Review Criteria	33% or more of the sample results equal or exceed the "TRC". The "TRC" is the permit limit times a multiplier. <ul style="list-style-type: none"> <li>pH: TRC criteria does not apply (only evaluate instances of noncompliance for chronic criteria)</li> <li>For BOD, TSS, Ammonia and Oil &amp; Grease: 1.4 multiplier</li> <li>For all other pollutants (metals, organics, etc): 1.2 multiplier</li> </ul>
#3	Causes Interference or Pass-through	Any other violation of a Pretreatment Standard or Requirement that causes Interference or Pass Through (including endangering the health of POTW personnel or the general public)
#4	Imminent Endangerment	Discharge caused imminent endangerment to human health, welfare, or to the environment. Requires CA to halt the discharge from the IU.
#5	Missed Compliance Milestone Event by 90 days	If a Compliance Milestone Event is missed by more than 90 days then the IU is considered in SNC. Reports on Compliance Milestones are not included in this definition of SNC.
#6	Late Reports by more than 45 days	Reports such as: baseline monitoring reports/permit applications (new facilities or permit renewals), ninety-day compliance reports, periodic self-monitoring reports, reports on compliance with compliance schedules, submittal of slug discharge control plans
#7	Failure to Accurately Report Noncompliance	Failure to accurately report noncompliance.
#8	Other Violations	Violation of a BMP or other permit requirement which impacts the CA's ability to properly implement the Pretreatment Program.

### Considerations when evaluating SNC:

- SNC is Evaluated for six-month periods – this is relevant to Items #1 and #2 above; for the other instances of noncompliance an SNC determination should be made at the time of the event.
- If there is a permit limit violation it should trigger a Significant Noncompliance Evaluation by the Control Authority and communication should be maintained with the Industrial User as additional monitoring is collected over the remaining six-month period.

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- The six-month period is generally considered the first half of the year (January 1 – June 30) and the second half of the year (July 1 – December 31).

### 9.3 Action Levels

Nature of the Violation General Criteria Description	Enforcement	Control Authority Action & Timeframe	IU Action & Timeframe
	1. Action 2. Personnel		
<b>Level 1 Action:</b> 1 <sup>st</sup> offense, user unaware, unintentional noncompliance, no HARM. <i>Not yet SNC definition</i>	1. IC or NOW, IRM if needed. 2. PC, FC	PC contacts IU regarding the noncompliance within 5 days PC to evaluate for SNC. PC to prepare written IC or NOW; PC to issue IC or NOW; PC to schedule IRM if needed	User/FC contacts the PC to inform of the noncompliance (see notifications category) Confirm understanding of the IC or NOW/confirm corrective action.
<b>Level 2 Action:</b> ISOLATED, no HARM. <i>Not yet SNC definition</i>	1. NOW or NOV with IRM 2. PC, FC	PC to prepare NOW or NOV to issue within 14 days. PC to schedule IRM. PC to evaluate for SNC.	User/FC contacts the PC to inform of the noncompliance, Prepare Corrective Action Plan or other response Respond within time frame required
<b>Level 3 Action:</b> Recurring, previous noncompliance, no HARM. <i>Not yet SNC definition</i>	1. NOV with IRM 2. PC, FC	PC to brief DPU Under direction of DPU: PC to prepare NOV and to issue within 14 days PC to require an IRM with the FC. PC to evaluate for SNC.	Notify PC of violation Participate in IRM as required Prepare Corrective Action Plan or other response
<b>Level 4 Action:</b> SNC criteria is met but no HARM	1. AO and/or SM, SNC Notification, PN, Fine 2. DPU, PC, City Attorney, City Admin, ARU	PC to inform DPU of violation DPU to issue AO and/or schedule SM with consensus from City Attorney, City Admin within 28 days DPU may issue Admin. Fine Under direction of PWD: PC to prepare AO PC to coordinate SM if required. PC to evaluate for SNC.	Notify PC of the violation per Notification Category. Participate in SM as required Assist in development and comply with order(s) within time specified therein. Pay fines as applicable Modify permit in cooperation with POTW, if needed.
<b>Level 5 Action:</b> SNC Criteria met and HARM	1. AO and SM; SCH if needed. SNC Notification, PN, Fine	PC to inform DPU of violation DPU to schedule SM AO issued after SM by DPU with consensus from City	Notify PC per Notification Category Participate in SM as required

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	2. DPU, PC, City Attorney, City Admin, ARU	Attorney, City Admin within 28 days DPU may issue Admin. Fine. Under direction of DPU: PC to prepare AO PC to coordinate SM PC to prepare PN	Immediately cease discharge, comply with order(s) within the time specified. Comply with judicial enforcement remedies Pay Administrative Fines as required.
<b>Level 6 Action:</b> Imminent endangerment, intentional noncompliance; SNC criteria met	1. Cease and Desist, Terminate discharge, SCH, Admin. Fine, PN, SNC Notification; judicial enforcement remedies	PC to notify IU and DPU immediately and DPU DPU to order immediate termination of discharge and schedule SCH DPU may issue Admin. Fine All in consultation with the City Attorney, City Admin. PC to complete the PN. PC to prepare SNC notification for DPU issuance.	Notify PC immediately upon becoming aware of the violation. Immediately cease discharge, comply with order(s) within the time specified. Attend SCH. Comply with judicial enforcement remedies Pay Administrative Fines as required.
	2. DPU, PC, City Attorney, City Admin, ARU		

## 9.4 Categories of Noncompliance

### 9.4.1 Permit Limit Violations

<b>Violations in this Category</b>	Numerical Permit Limit Violations, Failure to follow Best Management Practices (BMPs), failure to properly operate the facility's Pretreatment System SNC Criteria
<b>Event Description</b>	<b>Corresponding Action (Refer to table above)</b>
Isolated, not significant violation	Level 1 Action
Isolated, significant violation, no HARM	Level 2 Action
Recurring (significant or nonsignificant violation), no HARM	Level 3 Action
Recurring, Technical or Chronic Review Criteria is met for compliance period, no HARM	Level 4 Action (SNC #1 and/or #2)
HARM	Level 5 Action (SNC #1 or #2, and/or #3)
Imminent endangerment to public or to the environment or has otherwise resulted in emergency action by CA to protect POTW, POTW personnel, or general public	Level 6 Action (SNC #1 or #2, and/or #4)

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9.4.2 Reporting Violations

<b>Violations in this Category</b>	Late Reports, failure to notify (changes, hazardous waste discharge, slug event, bypass, etc), certification issues, and failure to report all results
<b>LATE REPORTS</b>	<b>Reports include: Permit applications/baseline monitoring reports, compliance schedule milestone reports, 90-day compliance reports, periodic compliance reports, repeat sampling reports, reports for Best Management Practices</b>
<b>Event Description</b>	<b>Corresponding Action (Refer to table above)</b>
< 5 days late	Level 1 Action
5-15 days late and IU was notified as part of Level 1 Action; if not notified then refer to Level 1 Action	Level 2 Action with fines for late reports
15-45 days late and IU was notified with a Level 1 or Level 2 Action prior to Level 3 Action	Level 3 Action with fines for late reports
> 45 days late	Level 4 Action (SNC #6)
<b>NOTIFICATIONS</b>	<b>Potential Problems/Slug Events (Immediately), Changes in Discharges (30 days), Noncompliance (e.g., permit limit violations within 24 hours of becoming aware); also includes failure to report all results</b>
<b>Event Description</b>	<b>Corresponding Action (Refer to table above)</b>
Failure to notify or report all results: unintentional, no HARM	Level 1 Action
Failure to notify or report all results: after notice/recurring, no HARM	Level 2 Action
Failure to notify or report all results: Ongoing and/or HARM	Level 5 Action (SNC #3)
Failure to notify or report all results: Ongoing and/or Imminent Endangerment	Level 6 Action (SNC #4)
<b>CERTIFICATIONS</b>	<b>Issues with Report Certifications</b>
<b>Event Description</b>	<b>Corresponding Action (Refer to table above)</b>
Certification omitted or report not properly certified (not certified or certified by a person which is not authorized or duly authorized): Initial notification by the CA, unintentional	Level 1 Action
Certification omitted or report not properly certified (not certified or certified by a person which is not authorized or duly authorized): Recurring	Level 2 Action
Certification omitted or report not properly certified (not certified or certified by a person which is not authorized or duly authorized): Intentional, not corrected	Level 4 (SNC #8)

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### 9.4.3 Sampling Violations

<b>Violations in this Category</b>	Failure to monitor for all pollutants, improper monitoring location, improper sample type/collection method, analysis out of hold times, lab transport issues (broken bottles), other lab qualifications on sample results, chain of custody documentations, pH hold time issues, failure to follow BMPs, failure to maintain sampling equipment, failure to properly calibrate equipment or failure to properly document items in this Category.
<b>Event Description</b>	<b>Corresponding Action (Refer to Table Above)</b>
Unintentional, initial notice	Level 1 Action
Intentional, initial notice	Level 2 Action including development of a Sampling Plan and Schedule to correct deficiencies
Recurring notification to correct	Level 3 Action
Ongoing and/or HARM	Level 4 Action (SNC #3 or #8)
Ongoing and/or Imminent Endangerment	Level 4 Action (SNC #4 or #8)

### 9.4.4 Discharges Not Authorized and Improper Operation of a Pretreatment System

<b>Violations in this Category</b>	SIUs without a permit, Collection system unauthorized discharges (to the collection system via a manhole, car wash facility, septic receiving station, etc), Pollutants/characteristics of a discharge for a permitted IU; Improper Operation of the facility Pretreatment System <b>Discharges of hazardous waste are not authorized in the City of Moberly.</b>
<b>Description</b>	<b>Corresponding Action (Refer to Table Above)</b>
Unintentional, initial notice, no harm	Level 1 Action
Intentional, initial notice, no harm	Level 2 Action
Recurring notification to correct	Level 3 Action
Ongoing and/or HARM	Level 4 Action (SNC #3 or #8)
Ongoing and/or Imminent Endangerment	Level 4 Action (SNC #4 or #8)

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9.4.5 Compliance Schedule Milestones

<b>Violations in this Category</b>	Delays in Compliance Milestone Events; this category does not apply to late reports associated with compliance milestones; refer to the Reporting Category for Compliance Milestone Reports.
<b>Description</b>	<b>Corresponding Action (Refer to Table Above)</b>
Missed milestone by less than 15 days, or will not affect final milestone	Level 1 Action
Missed milestone by 15-45 days, or will affect final milestone (good cause for delay)	Level 2 Action
Missed milestone by more than 45 days, or will affect final milestone (no good cause for delay)	Level 3 Action
Missed milestone by more than 90 days.	Level 4 Action (SNC #6)
Missed milestone by more than 90 days, inadequate efforts to correct/meet compliance milestone intentions	Level 5 Action (SNC #6 and/or #8)
Missed Milestone, HARM or Imminent Endangerment	Level 6 Action (SNC #3, #4, and/or #8)

9.4.6 Violations Detected During Site Visits

<b>Violations in this Category</b>	Entry Denial, Falsification of Records
<b>Description</b>	<b>Corresponding Action (Refer to Table Above)</b>
Initial notification, entry denied and/or falsification of records identified	Level 2 Action
Repeated Attempt for Site Entry	Level 4 Action (SNC #8)
Repeated Attempt for Site Entry	Level 6 Action or Search Warrant <sup>1</sup> (SNC #8)

<sup>1</sup> Obtain Search Warrant in cooperation with the City Attorney.



## Appendix (Forms and Checklists)

[Insert Industry Name]  
[Permit Number]  
[Insert Industry Address]  
[Insert Date]

## Notice of Violation

**City of Moberly, Missouri**  
**Industrial Pretreatment Program**

### LEGAL AUTHORITY

The following findings are issued and notice provided pursuant to the authority vested in the City of Moberly, Missouri Industrial Pretreatment Coordinator, under Chapter 42 - Utilities; Article 4, Sewer. This order is based on findings of violation of the conditions of the wastewater discharge permit issued pursuant to Sec. 42-506. - Wastewater Discharge Permit Contents of the City's Sewers and Sewer Disposal Ordinance.

### FINDINGS

1. The City of Moberly, Missouri is charged with the construction, maintenance, and control of the sewer system and treatment works.
2. To protect the sewer system and treatment works, the City of Moberly, Missouri administers a pretreatment program.
3. Under this pretreatment program, **[Name of the Industrial User]** was issued a discharge permit.
4. The discharge permit issued to **[Name of Industrial User]** contained numerical limits on the quality of pollutants, which **[Name of Industrial User]** could discharge and identified self-monitoring requirements.
5. On **[Date]** pollutant analysis revealed that the quantity of **[pollutant]** exceeded the permit limitation. **[NOTE: Several violations can be listed under this section. Each violation will be unique but must specify how the Industrial User is in violation of the permit]**

### NOTICE AND REQUIRED ACTIONS

**THEREFORE, BASED ON THE ABOVE FINDINGS, [NAME OF THE INDUSTRIAL USER] IS HEREBY NOTIFIED THAT:**

It is in violation of its discharge permit and the Chapter 42 - Utilities; Article 4, Sewer of Moberly, Missouri.

[penalty if applicable; refer to ERP table]

**Within 15 days of the receipt of this notice, an explanation of the violation and a plan for the satisfactory correction and prevention thereof, to include specific required actions, shall be submitted by the Industrial User to the Industrial Pretreatment Coordinator.**

**Signature**

Industrial Pretreatment Coordinator  
City of Moberly, Missouri

Date

[Insert Industry Name]  
 [Permit Number]  
 [Insert Industry Address]  
 [Insert Date]

## Consent Order

### City of Moberly, Missouri

### Industrial Pretreatment Program

#### LEGAL AUTHORITY

**WHEREAS**, the City of Moberly, Missouri pursuant to the powers, duties, and responsibilities vested in and imposed on the Public Utilities Director by the City of Moberly's Chapter 42 - Utilities; Article 4, Sewer has conducted an ongoing investigation of **[Industrial User]** and has determined the following:

#### FINDINGS

The City of Moberly owns and operates a wastewater treatment plant administered by the City of Moberly, Missouri which is adversely impacted by discharges from the industrial users, including **[Industrial User]**, and has implemented a pretreatment program to control such discharges.

**[Industrial User]** has consistently violated the pollutant limits in its wastewater discharge permit as set forth in Exhibit 1 **[attach copy of the permit]**, as attached hereto.

#### COMPLIANCE SCHEDULE

Therefore, to ensure that **[Industrial User]** is brought into compliance with its permit limits at the earliest possible date, **IT IS HEREBY AGREED AND ORDERED, BETWEEN [INDUSTRIAL USER] AND THE Public Utilities Director OF THE City of Moberly, Missouri, THAT [INDUSTRIAL USER] SHALL:**

1. By **[INSERT DATE]**, obtain the services of a licensed professional engineer specializing in wastewater treatment for the purpose of designing a pretreatment system which will bring **[Industrial User]** into compliance with its' wastewater discharge permit. **[Example- not required]**
2. By **[INSERT DATE]** submit plans and specifications for the proposed pretreatment system to the City of Moberly, Missouri. **[Example-not required]**
3. By **[INSERT DATE]** install the pretreatment system in accordance with the plans and specifications submitted in #2 above. **[Example- not required]**
4. By **[INSERT DATE]** achieve compliance with the pollutant limits set forth in Exhibit 1.
5. **[Industrial User]** shall pay **[Insert Fine Amount]** per day for each and every day it fails to comply with the schedule set out above. The **[Insert Fine Amount]** per day penalty shall be paid to **[Insert who payment should be made to]** within **[Insert number of days]** of being demanded by the City of Moberly, Missouri.
6. In the event **[Industrial User]** fails to comply with any of the deadlines set forth, **[Industrial User]** shall, within one (1) working day after the expiration of the deadline, notify the City of Moberly, Missouri in writing. This notice shall describe the reasons for the **[Industrial User]**'s failure to comply, the additional amount of time needed to complete the remaining work, and the steps to be taken to avoid future delays. This notification in no way excuses **[Industrial User]** from its responsibility to meet any later milestones required by the Consent Order.
7. Compliance with the terms and conditions of this Consent Order shall not be construed to relieve **[Industrial User]** of its obligation to comply with its wastewater discharge term permit which remains in full force and effect. The City of Moberly, Missouri reserves the right to seek any and all remedies available to it under Subdivision X, XI, XII, and XIII of the City's Chapter 42 - Utilities; Article 4, Sewer for any violation cited by this order.
8. Violation of this Consent Order shall constitute a further violation of Chapter 42 - Utilities; Article 4, Sewer and subjects **[Industrial User]** to all penalties described therein.
9. Nothing in this Consent Order shall be construed to limit any authority of the City of Moberly, Missouri to issue any other orders or take any other action which it deems necessary to protect the wastewater treatment plant, the environment or the public health and safety.

#### SIGNATURES

\_\_\_\_\_  
 Public Utilities Director, City of Moberly, Missouri

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Duty Authorized Rep. Industrial User

\_\_\_\_\_  
 Date

[Insert Industry Name]  
 [Permit Number]  
 [Insert Industry Address]  
 [Insert Date]

## Compliance Order

### City of Moberly, Missouri

### Industrial Pretreatment Program

#### LEGAL AUTHORITY

The following findings are issued and ordered pursuant to the authority vested in the Public Utilities Director of the City of Moberly, Missouri, under Chapter 42 - Utilities; Article 4, Sewer. This order is based on findings of violation of the conditions of the wastewater discharge permit issued pursuant to Sec. 42-506. - Wastewater Discharge Permit Contents of the City's Chapter 42 - Utilities; Article 4, Sewer.

#### FINDINGS

1. **[Industrial User]** discharges nondomestic wastewater containing pollutants into the sanitary system of the City of Moberly, Missouri (the "City").
2. **[Industrial User]** is a "Significant Industrial User" as defined by 42-292 of Chapter 42 - Utilities; Article 4, Sewer.
3. **[Industrial User]** was issued a wastewater discharge permit on **[Insert Permit Issuance Date]** which contains prohibitions, restrictions, and other limitations on the quality of the wastewater it discharges to the sanitary sewer.
4. Pursuant to the ordinance and the above-referenced permit, data is routinely collected or submitted on the compliance status of **[Industrial User]**.
5. This data shows that **[Industrial User]** has violated its wastewater discharge permit in the following manner: **[The following is an example. This section will be different depending on the violation.]**
  - a. **[Industrial User]** has violated its permit limits for **[Insert Specific Category/Description of Discharge]** in each sample collected between **[Insert Month and Year]** and **[Insert Month and Year]** for a total of **[Insert Number]** separate violations of the permit.
  - b. **[Industrial User]** has failed to submit all periodic compliance reports due since **[Insert Date]**.
  - c. All of these violations satisfy the City's definition of Significant Noncompliance as defined in the City's Sewers and Sewer Disposal Ordinance.

#### ORDER

**THEREFORE, BASED ON THE ABOVE FINDINGS, [INDUSTRIAL USER] IS HEREBY ORDERED TO:** **[The following is an example. This section will be different depending on the violation.]**

1. Within **[Insert Number]** days, install pretreatment technology which will adequately treat **Industrial User's** wastewater to a level which will comply with its wastewater discharge permit.
2. Within **[Insert Number]** days, submit all periodic compliance reports due since **[Insert Date]**.
3. Within **[Insert Number]** pay to **[Insert the entity payment should be made to]** a fine of **[Insert Amount]** for the above-described violations in accordance with 42-666 of Chapter 42 - Utilities; Article 4, Sewer.
4. Report on a monthly basis, the wastewater quality and the corresponding flow and production information as described in the wastewater discharge permit for a period of one year from the effective date of this order.
5. All reports and notices required by this order shall be sent, in writing, to the following address:  
 City of Moberly, Missouri  
 ATTN: Public Utilities Director  
 Moberly, Missouri 65270
6. This order does not constitute a waiver of the wastewater discharge permit with remains in full force and effect. The City of Moberly, Missouri reserves the right to seek any and all remedies available to it under Subdivision X, XI, XII, and XIII of the Chapter 42 - Utilities; Article 4, Sewer for any violation cited in this order.
7. Failure to comply with the requirements of this order shall constitute a further violation of Chapter 42 - Utilities; Article 4, Sewer and may subject **[Industrial User]** to civil or criminal penalties

#### SIGNATORY AUTHORIZATION

Public Utilities Director

Date of Authorization

[Insert Industry Name]  
 [Permit Number]  
 [Insert Industry Address]  
 [Insert Date]

## Show Cause Order

### City of Moberly, Missouri

### Industrial Pretreatment Program

#### LEGAL AUTHORITY

The following findings are issued and ordered pursuant to the authority vested in the Public Utilities Director of the City of Moberly, Missouri, under Chapter 42 - Utilities; Article 4, Sewer. This order is based on findings of violation of the conditions of the wastewater discharge permit issued pursuant to Sec. 42-506. - Wastewater Discharge Permit Contents of Chapter 42 - Utilities; Article 4, Sewer.

#### FINDINGS

1. **[Industrial User]** discharges nondomestic wastewater containing pollutants into the sanitary sewer system of the City of Moberly, Missouri (City).
2. **[Industrial User]** is a "Significant Industrial User" as defined by 42-292 of Chapter 42 - Utilities; Article 4, Sewer.
3. **[Industrial User]** was issued a wastewater discharge permit on **[Insert Date Permit Issued]** which contains prohibitions, restrictions, and other limitations on the quality of the wastewater it discharges to the sanitary sewer.
4. Pursuant to the ordinance and the above-referenced permit, data is routinely collected or submitted on the compliance status of **[Industrial User]**.
5. The data shows that **[Industrial User]** has violated its wastewater discharge permit in the following manner:
  - a. **[Industrial User]** has violated its permit limits for **[Insert Specific Category/Description of Discharge]** in each sample collected between **[Insert Month and Year]** and **[Insert Month and Year]** for a total of **[Insert Number]** separate violations of the permit.
  - b. **[Industrial User]** has failed to submit all periodic compliance reports due since **[Insert Date]**.
  - c. All of these violations satisfy the City's definition of Significant Noncompliance as defined in 42-634 of Chapter 42 - Utilities; Article 4, Sewer.

#### ORDER

**THEREFORE, BASED ON THE ABOVE FINDINGS, [INDUSTRIAL USER] IS HEREBY ORDERED TO:**

1. Appear at a meeting with the Public Utilities Director of the City to be held on **[Insert Date]** and **[Insert Time]** **[Insert Location]**.
2. At this meeting, **[Industrial User]** must demonstrate why the City should not pursue a judicial enforcement action against **[Industrial User]** at this time.
3. This meeting will be closed to the public.
4. Representatives of **[Industrial User]** may be accompanied by legal counsel, if they so choose.
5. Failure to comply with this order shall also constitute a further violation of Chapter 42 - Utilities; Article 4, Sewer and may subject **[Industrial User]** to civil or criminal penalties or such other appropriate enforcement response as may be appropriate.
6. This order, entered this **[Insert Date]** day of **[Insert Date]** shall be effective upon receipt by **[Industrial User]**.

#### SIGNED:

Public Utilities Director

Date

[Insert Industry Name]  
 [Permit Number]  
 [Insert Industry Address]  
 [Insert Date]

## Cease and Desist Order

### City of Moberly, Missouri

### Industrial Pretreatment Program

#### LEGAL AUTHORITY

The following findings are issued and ordered pursuant to the authority vested in the Public Utilities Director of the City of Moberly, Missouri, under Chapter 42 - Utilities; Article 4, Sewer. This order is based on findings of violation of the conditions of the wastewater discharge permit issued pursuant to Sec. 42-506. - Wastewater Discharge Permit Contents of Chapter 42 - Utilities; Article 4, Sewer.

#### FINDINGS

1. **[Industrial User]** discharges nondomestic wastewater containing pollutants into the sanitary sewer system of the City of Moberly.
2. **[Industrial User]** is a "Significant Industrial User" as defined by 42-292 of Chapter 42 - Utilities; Article 4, Sewer.
3. **[Industrial User]** was issued a wastewater discharge permit on **[Insert Date]** which contains prohibitions, restrictions, and other limitations on the quality of the wastewater it discharges to the sanitary sewer.
4. Pursuant to the ordinance and the above-referenced permit, data is routinely collected or submitted on the compliance status of **[Industrial User]**.
5. This data shows that **[Industrial User]** has violated Chapter 42 - Utilities; Article 4, Sewer in the following manner:
  - a. **[Industrial User]** has continuously violated its permit limits for **[Insert Specific Category/Description of Discharge]** in each sample collected between **[Insert Month and Year]** and **[Insert Month and Year]**.
  - b. **[Industrial User]** has also failed to comply with an administrative compliance order requiring the installation of the pretreatment system and the achievement of compliance with its permit limits by **[Insert Date]**.
  - c. **[Industrial User]** has failed to appear as a show cause hearing pursuant to an order requiring said attendance.

#### ORDER

##### THEREFORE, BASED ON THE ABOVE FINDINGS, **[INDUSTRIAL USER]** IS HEREBY ORDERED TO:

1. Within 24 hours of receiving this order, cease all nondomestic discharges into the City's sanitary sewer. Such discharges shall not recommence until such time as **[Industrial User]** is able to demonstrate that it will comply with its current permit limits.
2. Failure to comply with this order may subject **[Industrial User]** to having its connection to the sanitary sewer sealed by the City and assessed the costs therefor.
3. Failure to comply with this order shall also constitute a further violation of Chapter 42 - Utilities; Article 4, Sewer and may subject **[Industrial User]** to civil or criminal penalties or such other enforcement response as may be appropriate.
4. This order entered this **[Insert Date]** of **[Insert Date]**, shall be effective upon receipt by **[Industrial User]**.

#### SIGNED

Public Utilities Director

Date

# Authorization of Signatory Authority for Duly Authorized Employee of POTW

**City of Moberly, Missouri**  
**Industrial Pretreatment Program**

## LEGAL AUTHORITY

Federal law (40 CFR 403.12(m)) and 42-553(a) of Chapter 42 - Utilities; Article 4, Sewer require that reports submitted to the Approval Authority by the POTW in accordance with 40 CFR 403.12(a) must be signed by a principal executive officer, ranking elected official or other duly authorized employee. The duly authorized employee must be an individual or position having responsibility for the overall operation of the facility or the Pretreatment Program. This authorization must be made in writing by the principal executive officer or ranking elected official and be submitted to the Approval Authority prior to or together with the report being submitted."

## POTW OWNER INFORMATION

<b>POTW Owner Name:</b>	City of Moberly, Missouri	<b>Ranking Elected Official:</b>	
<b>State Operating Permit No.:</b>	MO-0117960	<b>Title:</b>	Mayor
<b>City/State/Zip:</b>	Moberly/Missouri/65270		

## DULY AUTHORIZED EMPLOYEE(S)

<b>Duly Authorized Employee:</b>	<b>Title:</b>
<b>E-mail/Phone Number:</b>	

<b>Duly Authorized Employee:</b>	<b>Title:</b>
<b>E-mail/Phone Number:</b>	

## SIGNATORY AUTHORIZATION

By signing this authorization, the Duly Authorized Employee named above is hereby authorized in accordance 42-553(a) to submit POTW reports as well as all other administrative requirements associated with the Pretreatment Program to the Control Authority. This individual has responsibility for the Pretreatment Program through the City of Moberly, Missouri.

\_\_\_\_\_  
Ranking Elected Official

\_\_\_\_\_  
Date

## Public Notice of Significant Noncompliance

### Simplified version:

In accordance with 40 CFR 403.8(f) (2) (vii), following is a list of all industrial users in Significant Noncompliance (SNC) with pretreatment standards and other requirements during the 2018 calendar year:

### EPA recommended version:

THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGULATION along with the Missouri Department of Natural Resources, under authority of 40 C.F.R. 403.8(f) (2) (vii), require all approved pretreatment programs to publish annually the names of all industrial users in Significant Noncompliance (SNC) with pretreatment standards and other requirements during the preceding year (see, *Chapter 42 - Utilities; Article 4, Sewer,42-634*). Companies deemed to be in Significant Noncompliance (SNC) are industries who have violated a Federal, State, or Local limit/ordinance during the time period of January \_\_\_\_\_ to December \_\_\_\_\_.

Listed in the index below is the name of the industry in Significant Noncompliance, a brief description of the violation, and the current status of the violation. When a company is found to be in Significant Noncompliance (SNC), the City of Moberly, Missouri offers free technical assistance to help the company return to compliance or begin to comply with local, state, and federal limits. As part of this assistance preset time limits are used so that compliance is achieved in the shortest possible time.

At the time of this report, it is possible that a company listed for SNC may have made significant progress toward correcting the violation and may now be in compliance.

20__ Pretreatment Significant Noncompliance List		
Company Name	Violations Cited	Present Status



## Self-Monitoring Report Checklist

### City of Moberly, Missouri Industrial Pretreatment Program

	Report Submitted by Required Due Date
	Hard Copy/Original Report with Signature On-File
	Certification Statement: All reports must have a signed certification statement by the Authorized Representative (refer to permit application).
	Were all pollutants monitored (and at the required frequency) which are required in the permit?
	Does the monitoring location match the required location on the permit?
	Are there any discharge limit violations? If so, do they meet the definition of chronic or technical review criteria? (evaluated on a 6-month basis).
	Are reporting limits adequate to show compliance with the permit limits?
	Are samples being collected per the permit requirements (e.g., Grab vs. Composite)?
	Is TTO monitoring performed as-required and/or TOMP plan on-file and TTO waiver certification statement provided as part of the report?
	Are flows reported- max day and average day flows?
	Are original chain of custody and laboratory results attached? <i>Not required but at confirm during an inspection. If semi-annual reporting, recommend requesting with each monitoring report.</i>
	Did the POTW provide written notification if IU is discharging hazardous wastes? 40 CFR 403.12(p)
	Were any non-compliance results reported within 24 hours of the industry becoming aware of the violation? If resampling occurred was it resubmitted within 30 days?

## Certification Requirements

### Certification of Permit Applications

### User Reports

### Initial Monitoring Waiver

The following certification statement is required to be signed and submitted by Users submitting permit applications; Users submitting baseline monitoring reports; Users submitting reports on compliance with the categorical Pretreatment Standard deadlines; Users submitting periodic compliance reports, and Users submitting an initial request to forego sampling of a pollutant. The following certification statement must be signed by an Authorized Representative of the POTW:

#### **CERTIFICATION STATEMENT #1**

##### **Initial Request for Monitoring Waiver – Certification Requirement**

*"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."*

#### **CERTIFICATION STATEMENT #2**

##### **Certification for each monitoring report for any monitoring waiver which is part of an Industrial User's permit:**

Users that have an approved monitoring waiver must certify on each report with the following statement that there has been no increase in the pollutant in its wastestream due to activities of the User.

*"Based on my inquiry of the person or persons directly responsible for managing compliance with the Pretreatment Standard for 40 CFR \_\_\_\_\_ [specify applicable National Pretreatment Standard part(s)], I certify that, to the best of my knowledge and belief, there has been no increase in the level of \_\_\_\_\_ [list pollutant(s)] in the wastewaters due to the activities at the facility since filing of the last periodic report."*

## Solvent Management Plan and TTO Waiver Request

**CONFIDENTIALITY DISCLOSURE:** Title 40 of the Code of Federal Regulations Part 403 Section 403.14 requires information provided in this questionnaire identifying the nature and frequency of discharge to be available to the public without restriction. Requests for confidential treatment of other information shall be governed by procedures specified in 40 CFR part 2 and applicable State Law.

1. FACILITY CONTACT INFORMATION				
Company Name			Facility Telephone Number	
Physical Address			Facility Contact/Phone/Title	
			433.17	
City	State	Zip	IU Permit No.	Categorical Regulation
2. TTO ANALYSIS ON FILE WHICH DOCUMENTS COMPLIANCE WITH THE CATEGORICAL LIMIT				
<input type="checkbox"/> Laboratory results are attached to this request which document compliance with the categorical standard. <b>OR</b> <input type="checkbox"/> The POTW has monitored this facility's discharge and provided copies of the results which document compliance with the categorical standard.				
3. TTO WAIVER REQUEST FOR FACILITIES USING/STORING TTOs				
<input type="checkbox"/> <b>TTO WAIVER REQUEST:</b> This is a request for approval of certification in lieu of monitoring for TTO by the above named facility. 40 § CFR 403.12 (I) understands that approval will allow the facility to certify with each periodic self-monitoring report that there are no TTOs being used or stored at this facility, or a TOMP is implemented for those TTOs used or stored at the above named facility rather than monitor for toxic organics.				
<i>"I certify that this facility is implementing the attached Toxic Organic Management Plan. Based on my inquiry of the person or persons directly responsible for managing compliance with the standards for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastestream has occurred since the TOMP has been implemented. I further certify that this facility will continue to monitor for toxic organics until the City of Moberly, MO Pretreatment Office has approved the attached TOMP."</i>				
Signature of Authorized Representative*			Date	
Name/Title			Telephone No.	

\* Pretreatment Reports/Plans must be signed as follows: Corporations, by a principal executive officer of at least the level of vice president; partnership, by a general partner; sole proprietorship, by the proprietor, or a duly authorized representative (ref: 40 CFR part 403.12(l))

#### 4. TOXIC ORGANICS USED IN FACILITY

#### 5. METHOD OF DISPOSAL OF TOXIC ORGANICS

*Please indicate the method of disposal instead of discharging in the sewer system – such as reclamation, contract hauling, or incineration.*

#### 6. PROCEDURES FOR ENSURING TOXIC ORGANICS DO NOT ROUTINELY SPILL OR LEAK INTO THE WASTEWATER

*The following components detail procedures which should be included as part of a TOMP/Solvent Management Plan. Please provide details and information related to the manufacturing processes of your facility.*

Please return to City of Moberly, Missouri for review and approval.

City of Moberly, Missouri  
c/o Pretreatment Coordinator  
101 W. Reed Street  
Moberly, Missouri 65270

***In the event of an accidental discharge of toxic organics, please contact the City immediately at the following number: (660) 269-9437***

***Changes which impact the likelihood of a slug discharge event or the discharge of toxic organics also require notification to the City of Moberly, Missouri.***

## Sample Plant Closure Plan

Date

To.

From.

**Re: Plant Closure Plan**

Dear Authorized or Duly Authorized Rep. of User:

The City of City is aware that Industry Name will be ceasing operation at the Insert facility name.. In compliance with Industry Name's permit Permit number and Title of Municipal Pretreatment Ord. which require compliance with federal, state and local discharge standards and notice to the City if there is a changed condition, the City is requiring Industry provide a Plant Closure Plan within Number business days. The plan should include a timeline identifying target dates for each of the components of the shutdown process and describe:

- 1) Equipment shutdown and removal including location where equipment after removal if within the legal jurisdiction of the City of City
- 2) List of chemical supplies
  - a. If shipped- manifest of where shipped and when
  - b. If recycled- documentation of where and when
  - c. If disposed- documentation of how and when
- 3) Chemical wastes shipment
  - a. If shipped- manifest of where shipped and when
  - b. If recycled- documentation of where and when
  - c. If disposed- documentation of how and when

During the shutdown process, the City will conduct one or more on-site inspections and collect wastewater samples. At the end of the plant closure, the City will conduct a final inspection to confirm the proper removal of equipment, chemical supplies and chemical waste.

Thank you for your concern and cooperation with the Name of City's WWTP program in the past.  
Sincerely,

Name

Title

CC: State DNR

## Dental Discharger: Reminder Letter

Insert Date  
Insert Dental Discharger Name  
Insert Address

Re: Dental One-Time Compliance Form for the City of Moberly, Missouri

Dear Insert Dental Discharger Name:

Please find enclosed a Dental One Time Compliance form which is required to be completed and returned to the City of Farmington. This certification form was initially due on Insert Date and is now past due. The City is required by the Environmental Protection Agency (EPA) to collect these forms as part of their approved wastewater Pretreatment Program. Also included with the form is a packet explaining the EPA's final amalgam rule "Dental Office Point Source Category, 40 CFR Part 441."

All dental facilities which place or remove amalgam fillings and discharge to a publicly owned treatment works must have certified dental amalgam devices installed and properly maintained. If your facility does not conduct these operations, that information must still be documented on the form and returned with the appropriate certification.

We appreciate your responsiveness to this matter. If you returned the form previously, then you are receiving this letter because it was not received by the City of Farmington. Please re-send a copy or complete a new form if you do not have a copy available. The form should be mailed to the City at the address listed below.

**City of Moberly, Missouri**  
**Attn: Emily Lute, Industrial Pretreatment Coordinator**  
**101 W. Reed Street**  
**Moberly, Missouri 65270**

Questions regarding this survey should be directed to Emily Lute. Thank you in advance for your cooperation.

Sincerely,

Emily Lute  
Industrial Pretreatment Coordinator  
City of Moberly, Missouri

## EPA DENTAL RULE

This packet was prepared by KimHEC Environmental Consultants for the City of Moberly, Missouri to help dental offices understand the Dental Rule published by the Environmental Protection Agency (EPA) on June 14, 2017. The City of Moberly, Missouri owns and operates a Wastewater Treatment Plant (WWTP) and is therefore the dental discharger's Control Authority.

The Dental Rule is in effect July 14, 2017. This packet provides a summary of the Rule. This packet is meant to provide guidance and be a short checklist for a dental dischargers. This packet also demonstrates the American Dental Association's (ADA) support of removal and recycling of dental amalgam that contains mercury from the wastewater discharged to Publicly Owned Treatment Works (POTWs). The final rule contains two best management practices (BMPs) recommended by the ADA.

For more information on the Dental Rule, please visit the following website:

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<https://www.epa.gov/eg/dental-effluent-guidelines>

**Dana XXX**  
**Public Utilities Director**

## SUMMARY OF DENTAL RULE

<b>What is the Dental Rule?<sup>1</sup></b>	<ul style="list-style-type: none"> <li>Requires dental offices that discharge wastewater that contains dental amalgam to Publicly Owned Treatment Works (POTWs) to install, inspect, and maintain a dental amalgam separator.</li> <li>Requires the implementation of two best management practices (BMPs).</li> <li>Published in Federal Register by EPA on June 14, 2017.</li> <li>EPA estimates annual cost incurred by dental office: avg. of \$800 annually.</li> </ul>
<b>Why are standards needed?<sup>1</sup></b>	<ul style="list-style-type: none"> <li>Mercury from waste amalgam can end up in the environment from the POTW through incineration, landfilling, or land application.</li> <li>Mercury – potent neurotoxin that causes wide range of health issues.</li> </ul>
<b>Who is affected by the Dental Rule?<sup>1</sup></b>	<p>Applies to:</p> <ul style="list-style-type: none"> <li>Dental offices</li> <li>Dental schools</li> <li>Dental clinics</li> <li>Government operated dental facilities</li> </ul> <p>Does NOT apply to:</p> <ul style="list-style-type: none"> <li>Mobile units</li> <li>Practices consisting ONLY of these specialties: oral pathology, oral &amp; maxillofacial radiology/surgery, orthodontics, periodontics, or prosthodontics.</li> </ul>
<b>What kind of amalgam separator is required?<sup>2</sup></b>	<ul style="list-style-type: none"> <li>An amalgam separator compliant with ISO 11143 (2008).</li> <li>ISO Standard is incorporated into the current American National Standards Institute's (ANSI)/American Dental Association's (ADA) Standard 108 for Amalgam Separators.</li> <li>Amalgam separator must achieve 95% removal efficiency.</li> <li>To determine whether your amalgam separator is compliant with ISO 11143 ANSI/ADA Standard No. 108, check the model at this website: <a href="http://info.nsf.org/Certified/Wastewater/">http://info.nsf.org/Certified/Wastewater/</a></li> </ul>
<b>When will this rule affect dental offices?<sup>2</sup></b>	<p>The Effective Date of this rule is July 14, 2017.</p> <p>NEW dental offices:</p> <ul style="list-style-type: none"> <li>MUST return One-Time Compliance Report within 90 days following the introduction of wastewater to the sanitary sewer.</li> </ul> <p>TRANSFER OF OWNERSHIP:</p> <ul style="list-style-type: none"> <li>MUST return One-Time Compliance Report within 90 days after a transfer of ownership.</li> </ul>
<b>What steps are needed to be taken to come into compliance?</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Install new amalgam separator in offices that do not currently have one.</li> <li><input type="checkbox"/> Inspect existing models to make sure they are up to standard.</li> <li><input type="checkbox"/> Establish internal documentation tracking procedures related to the inspection and maintenance of your amalgam separator.</li> <li><input type="checkbox"/> Follow the ADA's Best Management Practices for handling dental amalgam.</li> <li><input type="checkbox"/> Complete the One-Time Compliance Report for Dental Discharges. MUST be returned to the Control Authority. Retain a copy of this report on site for the duration of your practice/ownership.</li> </ul>

**ONE-TIME COMPLIANCE CERTIFICATION MUST BE MAILED TO THE CITY WITHIN 30 DAYS FOLLOWING THE INTRODUCTION OF WASTEWATER INTO THE SANITARY SEWER OR 90 DAYS AFTER A TRANSFER OF OWNERSHIP.**



## American Dental Association

### Amalgam Waste Best Management Practices<sup>3</sup>

These Best Management Practices for Amalgam Waste encourages the dental community to follow the BMP for proper waste handling and disposal. The BMP by the American Dental Association calls for the use of ISO 11143-compliant amalgam separator as a recommendation. The ADA's BMP on Amalgam Waste follows the procedures outlined in the EPA's final rule on amalgam separators.

#### Do:

- Use pre-capsulated alloys & stock capsule size variety
- Recycle used disposable amalgam capsules
- Salvage, store, & recycle non-contact amalgam
- Salvage contact amalgam pieces from restorations after removal & recycle contents
- Recycle teeth containing dental amalgam restorations & verify whether or not teeth need disinfection
- Manage amalgam waste through recycling as much as possible
- Use line cleaners that minimize dissolution of amalgam

#### Don't:

- Use bulk mercury
- Put used disposable amalgam capsules in biohazard containers
- Put non-contact amalgam waste in biohazard containers, infectious waste containers, or regular garbage
- Rinse devices containing amalgam over drains or sinks
- Dispose of extracted teeth that contain amalgam restorations in biohazard containers. Infectious waste containers, sharps containers, or regular garbage
- Flush amalgam down the drain/toilet
- Use bleach or chlorine-containing cleaners to flush wastewater lines

#### Resources

1. U.S. Environmental Protection Agency. [Fact Sheet: Effluent Limitations Guidelines and Standards for Dental Offices.](#)
2. U.S. Environmental Protection Agency. [Effluent Limitations Guidelines and Standards for the Dental Category.](#)
3. American Dental Association. [Amalgam Separators and Waste Best Management.](#)

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## Chapter 42 - UTILITIES

### ARTICLE IV. - SEWER

#### DIVISION 1. - GENERALLY

##### Subdivision I. - In General

##### Sec. 42-398. - Purpose and policy.

- (a) This division sets forth uniform requirements for Users of the wastewater collection and publicly owned treatment works (POTW) for the City and enables the City to comply with all state and federal laws including the Clean Water Act (33 USC 1251 et seq.), and the General Pretreatment Regulations (40 CFR 403). The objectives of this division are:
- (1) To prevent the introduction of pollutants into the POTW that will interfere with the operation of the POTW;
  - (2) To prevent the introduction of pollutants into the POTW which will pass through the POTW, inadequately treated, into receiving waters of otherwise be incompatible with the POTW;
  - (3) To ensure that the quality of the wastewater treatment plant sludge is maintained at a level which allows its use and disposal in compliance with applicable statutes and regulations;
  - (4) To protect POTW personnel who may be affected by wastewater and sludge in the course of their employment and to protect the general public;
  - (5) To improve the opportunity to recycle and reclaim wastewater and sludge from the POTW;
  - (6) To provide for fees for the equitable distribution of the cost of operation, maintenance and improvement of the POTW; and
  - (7) To enable the City to comply with its NPDES permit conditions, sludge use and disposal requirements and any other federal or state laws to which the POTW is subject.
- (b) This division shall apply to all Users of the POTW. This division authorizes the issuance of wastewater discharge permits; authorizes monitoring, compliance and enforcement activities; establishes administrative review procedures; requires industrial User reporting; and provides for the setting of fees for the equitable distribution of costs resulting from the program established herein.

(Ord. No. 6894, § 1.1, 6-7-1993)

##### Sec. 42-290. - Administration.

Except as otherwise provided herein, the Public Utilities Director shall administer, implement and enforce the provisions of this division. Any powers granted to or duties imposed upon the Public Utilities Director may be delegated by the Public Utilities Director to other City personnel.

(Ord. No. 6894, § 1.2, 6-7-1993)

##### Sec. 42-291. - Abbreviations.

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- (a) The following abbreviations shall have the designated meanings:

BOD: Biochemical oxygen demand.

CFR: Code of Federal Regulations.

COD: Chemical oxygen demand.

EPA: U.S. Environmental Protection Agency.

GPD: Gallons per day.

L: Liter.

MDNR: Missouri Department of Natural Resources.

mg: Milligrams.

mg/l: Milligrams per liter.

NPDES: National pollutant discharge elimination system.

NSCIU: Non-Significant Categorical Industrial User

O&M: Operation and maintenance.

PW: Publicly owned treatment works.

RCRA: Resource Conservation and Recovery Act.

SIC: Standard industrial classifications.

SWDA: Solid Waste Disposal Act (42 USC 6901, et. seq.).

TSS: Total suspended solids.

USC: United States Code.

(Ord. No. 6894, § 1.3, 6-7-1993)

Sec. 42-292. - Definitions.

The following words, terms and phrases, when used in this division, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

*Act or the Act* means the Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 USC 1251 et seq.

*Approval authority* means the Missouri Department of Natural Resources (MDNR).

*Authorized representative of the industrial User* means:

- (1) If the industrial User is a corporation, the term "authorized representative" shall mean:
  - a. The president, secretary, treasurer, or a vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation;
  - b. The manager of one or more manufacturing, production, or operation facilities employing more than 250 persons or having gross annual sales or expenditures exceeding

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\$25,000,000.00 (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

- (2) If the industrial User is a partnership, or sole proprietorship, an authorized representative shall mean a general partner or proprietor, respectively;
- (3) If the industrial User is a federal, state or local governmental facility, an authorized representative shall mean a director or highest official appointed or designated to oversee the operation and performance of the activities of the government facility, or his designee;
- (4) Persons responsible for the overall operation of a facility that generates discharges regulated under this chapter may designate another authorized representative if the authorization is in writing, the authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or have overall responsibility for environmental matters for the company, and the written authorization is submitted to the City.

*Best Management Practices or BMPs* means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to implement the prohibitions listed in Sections 42-416(a) and (b) [40 CFR 403.5(a)(1) and (b)]. BMPs include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.

*Biochemical oxygen demand (BOD)* means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure, five days at 20 degrees centigrade expressed in terms of mass and concentration (milligrams per liter (mg/l)).

*Building sewer* means the extension from the building drain to the public sewer or other place of disposal.

*Categorical pretreatment standard or categorical standard* means any regulation containing pollutant discharge limits promulgated by the U.S. EPA in accordance with section 307(b) and (c) of the Act (33 USC 1317) which apply to a specific category of industrial Users and which appear in 40 CFR 405—471.

*Categorical Industrial User* means an Industrial User subject to categorical Pretreatment Standard or categorical Standard.

*City* means the City of Moberly or the City council of Moberly.

*Color* means the optical density at the visual wave length of maximum absorption, relative to distilled water. One hundred percent transmittance is equivalent to zero optical density.

*Combined sewer* means a sewer receiving both surface runoff and sewage.

*Composite sample* means the sample resulting from the combination of individual wastewater samples taken at selected intervals based on an increment of either flow or time.

*Control Authority* The City

*Daily Maximum* means the arithmetic average of all effluent samples for a pollutant collected during a calendar day.

*Daily Maximum Limit* means the maximum allowable discharge limit to a pollutant during a calendar day. Where Daily Maximum Limits are expressed in units of mass, the daily discharge is the total mass discharged over the course of the day. Where Daily Maximum Limits are expressed in terms of

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concentration, the daily discharge is the arithmetic average measurement of the pollutant concentration derived from all measurements taken that day.

*Enforcement officer* means the Public Utilities Director or such other persons as are designated to enforce this article.

*Environmental Protection Agency* or *EPA* means the U.S. Environmental Protection Agency or, where appropriate, the term may also be used as a designation for the Regional Water Management Division Director or other duly authorized official of the agency.

*Existing source* means any source of discharge, the construction or operation of which commenced prior to the publication of proposed categorical pretreatment standards which will be applicable to such source if the standard is thereafter promulgated in accordance with section 307 of the Act.

*Five-day biochemical oxygen demand (BOD)* means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five days at 20 degrees centigrade expressed in milligrams per liter.

*Garbage* means solid wastes from the domestic and commercial preparation, cooking and dispensing of food, and from the handling, storage and sale of produce.

*Grab sample* means a sample which is taken from a waste stream on a one-time basis without regard to the flow in the waste stream and without consideration of time.

*Indirect discharge* or *discharge* means the introduction of (nondomestic) pollutants into the POTW from any nondomestic source regulated under section 307(b), (c) or (d) of the Act.

*Industrial User* or *User* means a source of indirect discharge.

*Industrial wastes* means the liquid wastes from industrial manufacturing processes, trade, or business as distinct from sanitary sewage.

*Instantaneous maximum allowable discharge limit* means the maximum concentration (or loading) of a pollutant allowed to be discharged at any time, determined from the analysis of any discrete or composited sample collected, independent of the industrial flow rate and the duration of the sampling event.

*Interference* means a discharge which alone or in conjunction with a discharge or discharges from other sources:

- (1) Inhibits or disrupts the POTW, its treatment processes or operations or its sludge processes, use or disposal; and
- (2) Therefore is a cause of a violation of the City's NPDES permit or of the prevention of sewage sludge use or disposal in compliance with any of the following statutory/regulatory provisions or permits issued thereunder (or more stringent state or local regulations): section 405 of the Clean Water Act; the Solid Waste Disposal Act (SWDA), including Title II commonly referred to as the Resource Conservation and Recovery Act (RCRA); any State regulations contained in any State sludge management plan prepared pursuant to subtitle D of the SWDA; the Clean Air Act; the Toxic Substances Control Act; and the Marine Protection, Research and Sanctuaries Act.

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*Medical waste* means isolation wastes, infectious agents, human blood and blood byproducts, pathological wastes, sharps, body parts, fomites, etiologic agents, contaminated bedding, surgical wastes, potentially contaminated laboratory wastes and dialysis wastes.

*Monthly Average* means the sum of all “daily discharges” measured during a calendar month divided by the number of “daily discharges” measured during the month.

*Monthly Average Limit* means the highest allowable average of “daily discharges” measured during a calendar month, calculated as the sum of all “daily discharges” measured during a calendar month divided by the number of “daily discharges” measured during the month.

*Natural outlet* means any outlet into a watercourse, pond, ditch, lake or other body of surface water or groundwater.

*New source* means:

- (1) Any building, structure, facility or installation from which there is or may be a discharge of pollutants, the construction of which commenced after the publication of proposed pretreatment standards under section 307(c) of the Act which will be applicable to such source if such standards are thereafter promulgated in accordance with that section, provided that:
  - a. The building, structure, facility or installation is constructed at a site at which no other source is located;
  - b. The building, structure, facility or installation totally replaces the process or production equipment that causes the discharge of pollutants at an existing source; or
  - c. The production or wastewater generating processes of the building, structure, facility or installation are substantially independent of an existing source at the same site. In determining whether these are substantially independent, factors such as the extent to which the new facility is integrated with the existing plant, and the extent to which the new facility is engaged in the same general type of activity as the existing source, should be considered.
- (2) Construction on a site at which an existing source is located results in a modification rather than a new source if the construction does not create a new building, structure, facility or installation meeting the criteria of subsection (1)b or c of this definition but otherwise alters, replaces, or adds to existing process or production equipment.
- (3) Construction of a new source as defined under this subsection has commenced if the owner or operator has:
  - a. Begun, or caused to begin, as part of a continuous onsite construction program:
    1. Any payment, assembly, or installation of facilities or equipment; or
    2. Significant site preparation work, including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or
  - b. Entered into a binding contractual obligation for the purchase of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this subsection.

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*Noncontact cooling water* means water used for cooling which does not come into direct contact with any raw material intermediate product, waste product, or finished product.

*Pass through* means a discharge which exits the POTW into waters of the U.S. in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the City's NPDES permit (including an increase in the magnitude or duration of a violation).

*Person* means any individual, partnership, copartnership, firm, company, corporation, association, joint stock company, trust, estate, governmental entity or any other legal entity, or their legal representatives, agents or assigns. This definition includes all federal, state or local governmental entities.

*pH* means a measure of the acidity or alkalinity of a substance, expressed in standard units.

*Pollutant* means any dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, medical wastes, chemical wastes, industrial wastes, biological materials, radioactive materials, heat, wrecked or discharged equipment, rock, sand, cellar dirt, agricultural and industrial wastes, and the characteristics of the wastewater (i.e., pH, temperature, TSS, turbidity, color, BOD, chemical oxygen demand (COD), toxicity, odor).

*Pretreatment* means the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of introducing such pollutants into the POTW. This reduction of alteration can be obtained by physical, chemical or biological processes, by process changes, or by other means, except by diluting the concentration of the pollutants unless allowed by an applicable pretreatment standard.

*Pretreatment Requirement* means any substantive or procedural requirement related to pretreatment imposed on an industrial User, other than a pretreatment standard.

*Pretreatment Standards* or *Standards* means prohibitive discharge standards, categorical pretreatment standards, and local limits.

*Prohibited Discharge Standards* or *prohibited discharges* means absolute prohibitions against the discharge of certain substances; these prohibitions appear in section 42-417.

*Public sewer* means a sewer in which all owners of abutting properties have equal rights, and is controlled by public authority.

*Public Utilities Director* or *Director* means the person designated by the City to supervise the operation of the POTW and who is charged with certain duties and responsibilities by this ordinance. The term also means a Duly Authorized Representative of the Public Utilities Director.

*Publicly Owned Treatment Works* or *POTW* means a treatment works as defined by section 212 of the Act (33 USC 1292), which is owned by the City. The term "POTW" includes any devices or systems used in the collection, storage, treatment, recycling and reclamation of sewage or industrial wastes and any conveyances which convey wastewater to a treatment plant. The term "POTW" also means the municipal entity having jurisdiction over the industrial Users and responsibility for the operation and maintenance of the treatment works.

*Sanitary sewer* means a sewer which carries sewage and to which stormwaters, surface waters, and groundwaters are not intentionally admitted.

*Septic Tank Waste* means any sewage from holding tanks such as vessels, chemical toilets, campers trailers, and septic tanks.



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*Sewage* means a combination of the water-carried wastes from residences, business buildings, institutions and industrial establishments, together with such groundwater, surface water and stormwater as may be present.

*Sewer* means a pipe or conduit for carrying sewage.

*Sewerage system* means all facilities for collecting, pumping, treating and disposing of sewage.

*Significant Industrial User (SIU)* means:

- (1) Industrial Users subject to categorical Pretreatment Standards; and
- (2) Any other Industrial User that:
  - a. Discharges an average of 25,000 gpd or more of process wastewater;
  - b. Contributes a process wastestream which makes up five percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
  - c. Is designated as significant by the City on the basis that the industrial User has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement.
- (3) The City may determine that an Industrial User subject to categorical Pretreatment Standards is a Non-Significant Categorical Industrial User rather than a Significant Industrial User on a finding that the Industrial User never discharges more than 100 gallons per day (gpd) of total categorical wastewater (excluding sanitary, non-contact cooling and boiler blowdown wastewater, unless specifically included in the Pretreatment Standard) and the following conditions are met:
  - a. The Industrial User, prior to City's finding, has consistently complied with all applicable categorical Pretreatment Standards and Requirements;
  - b. The Industrial User annually submits the certification statement required in 42-553(b), together with any additional information necessary to support the certification statement; and
  - c. The Industrial User never discharges any untreated concentrated wastewater.
- (4) Upon a finding that a User meeting the criteria in Subsection (2) of this part has no reasonable potential for adversely affecting the POTW's operation or for violating any Pretreatment Standard or Requirement, the City may at any time, on its own initiative or in response to a petition received from an Industrial User, and in accordance with procedures in 40 CFR 403.8(f)(6), determine that such User should not be considered a Significant Industrial User.

*Slug load* means any discharge at a flow rate or concentration which could cause a violation of the prohibited discharge standards in section 42-417 or any discharge of a nonroutine, episodic nature, including, but not limited to, an accidental spill or a noncustomary batch discharge.

*Standard Industrial Classification (SIC) Code* means a classification pursuant to the Standard Industrial Classification Manual issued by the U.S. Office of Management and Budget.

*Stormwater* means any flow occurring during or following any form of natural precipitation, and resulting therefrom, including snowmelt.



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*Total Suspended Solids or Suspended Solids* means the total suspended matter than floats on the surface of, or is suspended in, water, wastewater, or other liquid, and which is removable by laboratory filtering.

*Toxic pollutant* means one of 126 pollutants, or combination of those pollutants, listed as toxic in regulations promulgated by the EPA under the provision of section 307 of the Act (33 USC 1317).

*Treatment facility* means any arrangement of biological organisms, devices and structures used for treating sewage.

*Treatment plant effluent* means any discharge of pollutants from the POTW into waters of the state.

*Wastewater* means liquid and water-carried industrial wastes, and sewage from residential dwellings, commercial buildings, industrial and manufacturing facilities, and institutions, whether treated or untreated, which are contributed to the POTW.

*Wastewater treatment plant* or *treatment plant* means that portion of the POTW designed to provide treatment of sewage and industrial waste.

(Ord. No. 6894, § 1.4, 6-7-1993)

(Code 1965, §§ 30-34.1, 30-94; Code 1987, § 28-91)

## DIVISION 2. – GENERAL REQUIREMENTS

### Sec. 42-295. – Vandalism and damaging sewage works equipment.

No person shall maliciously, willfully or negligently break, damage, destroy, uncover, deface, tamper with or prevent access to any structure, appurtenance or equipment, or other part of the POTW. Any person found in violation of this requirement shall be subject to the sanctions set out in subdivisions IX through XI of this division.

(Ord. No. 6894, § 3.6, 6-7-1993)

### Sec. 42-296. - Abandonment of sewers.

It is unlawful for any person to disconnect or abandon any connection to a sewer in the City without conforming to the following:

- (a) The enforcement officer shall be notified in writing in advance that a sewer connection is to be abandoned.
- (b) The sewer service shall be dug out at the joint of the pipe closest to the City lateral and a vitrified clay plug placed in the bell nearest to the lateral main. No opening to the sewer for abandoning a sewer connection shall be closed until the enforcement officer has an opportunity to inspect how the tap has been disconnected and plugged. If, in the opinion of the enforcement officer, the sewer tap or saddle connection is in poor condition, or if a violation of the City's plumbing code is revealed, the

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service tap shall be capped off in a manner satisfactory to the enforcement officer and in accordance with the plumbing code of the City.

(Code 1965, § 30-54; Code 1987, § 28-95)

Sec. 42-297. - Use of public sewers required.

- (a) It is unlawful for any person to place, deposit or permit to be deposited in any unsanitary manner on public or private property within the City, or in any area under the jurisdiction of such City, any human or animal excrement, garbage or other objectionable waste.
- (b) It is unlawful to discharge to any natural outlet within the City, or in any area under the jurisdiction of such City, any sewage or other polluted waters, except where suitable treatment has been provided in accordance with subsequent provisions of this article.
- (c) Except as otherwise provided, it is unlawful to construct or maintain any privy, privy vault, septic tank, cesspool or other facility intended or used for the disposal of sewage.
- (d) The owner of all houses, buildings, or properties used for human occupancy, employment, recreation or other purposes, situated within the City and abutting on any street, alley or right-of-way in which there is now located or may in the future be located a public sanitary sewer of the City, shall at such owner's expense install suitable toilet facilities therein, and connect such facilities directly with the proper public sewer in accordance with the provisions of this article, within 90 days after date of official notice to do so, provided that such public sewer is located within 500 feet of either: (i) the location of the sewer connection exit point, in the case of an existing structure; or (ii) the nearest exterior line of the structure, in the case of new or pending construction, of the principal building used or to be used for human occupancy, employment, or recreation situated or to be situated on the property, which distance shall be measured within the lot lines of the property along the shortest distance to the public sewer and along the abutting street, alley or right-of-way in which is located a public sanitary sewer. The 500 foot measurement shall not include or be taken along or across the property of another owner.
- (e) Connection to public sewer requires connection to City water where available.

(Code 1965, §§ 30-55—30-58; Code 1987, § 28-96; Ord. No. 9464 , § 1, 7-2-2018)

Secs. 42-298—42-320. - Reserved.

## DIVISION 2. - PRIVATE SEWAGE DISPOSAL SYSTEMS

Sec. 42-321. - When permitted.

Where a public sanitary sewer is not available, the building sewer shall be connected to a private sewage disposal system complying with the provisions of this division.

(Code 1965, § 30-59; Code 1987, § 28-111)

Sec. 42-322. - Additional requirements authorized.

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No statement contained in this division shall be construed to interfere with any additional requirements that may be imposed by the health officer.

(Code 1965, § 30-65; Code 1987, § 28-112)

#### Sec. 42-323. – Private Sewage Disposal System Permit.

- (a) Before commencement of construction of a private sewage disposal system, the owner shall first obtain a written permit signed by the enforcement officer. The application for such permit shall be made on a form furnished by the City, which the applicant shall supplement by any plans, specifications and other information as are deemed necessary by the enforcement officer.
- (b) A permit for a private sewage disposal system shall not become effective until the installation is completed to the satisfaction of the enforcement officer. He shall be allowed to inspect the work at any stage of construction and, in any event, the applicant for the permit shall notify the enforcement officer when the work is ready for final inspection, and before any underground portions are covered. The inspection shall be made within 24 hours of the receipt of notice by the enforcement officer.

(Code 1965, §§ 30-60, 30-61; Code 1987, § 28-113)

#### Sec. 42-324. - Construction standards.

The type, capacities, location and layout of a private sewage disposal system shall comply with all recommendations of the department of public health of the state. No permit shall be issued for any private sewage disposal system employing soil absorption facilities where the area of the lot is less than three acres. No septic tank or cesspool shall be permitted to discharge to any natural outlet.

(Code 1965, § 30-62; Code 1987, § 28-114)

#### Sec. 42-325. - Abandonment when public sewer becomes available.

At such time as a public sewer becomes available to a property served by a private sewage disposal system, a direct connection shall be made to the public sewer in compliance with this division, and any septic tanks, cesspools and similar private sewage disposal facilities shall be abandoned and filled with suitable material. When a public sewer becomes available, the building sewer shall be connected to such sewer within 90 days and the private sewage disposal system shall be cleaned of sludge and filled with clean bank-run gravel or dirt.

(Code 1965, §§ 30-63, 30-66; Code 1987, § 28-115)

#### Sec. 42-326. - Maintenance.

The owner shall operate and maintain the private sewage disposal facilities in a sanitary manner at all times, at no expense to the City.

(Code 1965, § 30-64; Code 1987, § 28-116)

Secs. 42-327—42-347. - Reserved.

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### DIVISION 3. - BUILDING SEWERS AND CONNECTIONS

#### Sec. 42-348. - Connection permit.

No unauthorized person shall uncover, make any connection with or opening into, use, alter or disturb any public sewer or appurtenance thereof without first obtaining a written permit from the enforcement officer.

(Code 1965, § 30-67; Code 1987, § 28-131)

#### Sec. 42-349. - Sewer taps on Reed Street sewer.

No person shall tap onto or permit a tap to be made onto the Reed Street sewer located in Reed Street at any point between Johnson Street and Morley Street in the City. Any person desiring to connect with the Reed Street sewer shall do so by tapping onto the main laterals, which laterals empty into the Reed Street sewer.

(Code 1965, § 30-45; Code 1987, § 28-132)

#### Sec. 42-350. - Separate building sewers required.

A separate and independent building sewer shall be provided for every building, except where one building stands at the rear of another on an interior lot and no private sewer is available or can be constructed to the rear building through an adjoining alley, court, yard or driveway, the building sewer from the front building may be extended to the rear building and the whole considered as one building sewer.

(Code 1965, § 30-69; Code 1987, § 28-133)

#### Sec. 42-351. - Use of old building sewers.

Old building sewers may be used in connection with new buildings only when they are found, on examination and test by the enforcement officer, to meet all requirements of this division.

(Code 1965, § 30-70; Code 1987, § 28-134)

#### Sec. 42-352. - General design and excavation standards.

The size, slope, alignment, materials of construction of a building sewer and the methods to be used in excavating, placing of the pipe, jointing, testing and backfilling the trench shall all conform to the requirements of the building code and plumbing code or other applicable rules and regulations of the City. In the absence of code provisions or in amplification thereof, the materials and procedures set forth in appropriate specifications of the rules of state department of natural resources, title 10, chapter 8, Design Guides, shall apply.

(Code 1965, § 30-71; Code 1987, § 28-135)

#### Sec. 42-353. - Elevation of connection with building drain.

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Whenever possible, the building sewer shall be brought to the building at an elevation below the basement floor. In all buildings in which any building drain is too low to permit gravity flow to the public sewer, sanitary sewage carried by such building drain shall be lifted by an approved means and discharged to the building sewer.

(Code 1965, § 30-72; Code 1987, § 28-136)

Sec. 42-354. - Building sewer connection with public sewer.

- (a) The connection of the building sewer into the public sewer shall conform to the requirements of the building code and plumbing code or other applicable rules and regulations of the City or the procedures set forth in appropriate specifications of the rules of state department of natural resources, title 10, chapter 8, Design Guides. All such connections shall be made gastight and watertight. Any deviation from the prescribed procedures and materials must be approved by the enforcement officer before installation.
- (b) The applicant for the building sewer permit shall notify the enforcement officer when the building sewer is ready for inspection and connection to the public sewer. The connection shall be made under the supervision of the enforcement officer or his representative.

(Code 1965, §§ 30-74, 30-75; Code 1987, § 28-137)

Sec. 42-355. - Connections of surface run-off or groundwater drains.

No person shall make connection of roof downspouts, interior and exterior foundation drains, areaway drains, sump pumps or other sources of surface runoff or groundwater to a building sewer or building drain which in turn is connected directly or indirectly to a public sanitary sewer.

(Code 1965, § 30-73; Code 1987, § 28-138)

Sec. 42-356. - Excavations.

All excavations for building sewer installation shall be adequately guarded with barricades to protect the public from hazard. Streets, sidewalks, parkways and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the City.

(Code 1965, § 30-76; Code 1987, § 28-139)

Sec. 42-357. - Costs and indemnification of City.

All costs and expense incident to the installation and connection of the building sewer shall be borne by the owner. The owner shall indemnify the City from any loss or damage that may directly or indirectly be occasioned by the installation of the building sewer. No claim shall be allowed to any person who is connected to any public sewer against the City by reason of the bursting or collapsing of any building sewer or building sewer connection or caused by the blockage of any building sewer or by reason of the flow of the building sewer backing up into the building sewer or structure which is connected to the public sewer.

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(Code 1965, § 30-68; Code 1987, § 28-140)

Secs. 42-358—42-382. - Reserved.

~~Sec. 42-386. — Special agreements.~~

~~No statement contained in this division shall be construed as preventing any special agreement or arrangement between the City and any industrial concern whereby an industrial waste of unusual strength or character may be accepted by the City for treatment, subject to payment therefor by the industrial concern.~~

#### DIVISION 4. - DISCHARGE REGULATIONS

No person shall discharge or cause to be discharged any stormwater, surface water, groundwater, roof run-off, subsurface drainage, uncontaminated cooling water or unpolluted industrial process waters to any sanitary sewer. Stormwater and all other unpolluted drainage shall be discharged to such sewers as are specifically designated as combined sewers or storm sewers or to a natural outlet approved by the enforcement officer. Industrial cooling water or unpolluted process waters may be discharged, on approval of the building inspector, to a storm sewer, combined sewer or natural outlet.

(Code 1965, §§ 30-77, 30-78; Code 1987, § 28-156)

~~Sec. 42-380. — Discharge of certain waters and wastes prohibited.~~

~~No person shall discharge or cause to be discharged any of the following described waters or wastes to any public sewers:~~

- ~~(1) — Any gasoline, benzene, naphtha, fuel oil or other flammable or explosive liquid, solid or gas.~~
- ~~(2) — Any waters or wastes containing toxic or poisonous solids, liquids or gases in sufficient quantity, either singly or by interaction with other wastes, to injure or interfere with any sewage treatment process, constitute a hazard to humans or animals, create a public nuisance or create any hazard in the receiving waters of the sewage treatment plant, including, but not limited to, cyanides in excess of two milligrams per liter as CN in the wastes as discharged to the public sewer.~~
- ~~(3) — Solid or viscous substances in quantities or of such size capable of causing obstruction to the flow in sewers or other interference with the proper operation of the sewage works, such as, but not limited to, ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, unground garbage, whole blood, paunch manure, hair and fleshings, entrails and paper dishes, cups, milk containers, etc., either whole or ground by garbage grinders.~~

~~(Code 1965, § 30-79; Code 1987, § 28-157)~~

~~Sec. 42-381. — Certain discharges subject to approval.~~

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No person shall discharge or cause to be discharged the following described substances, materials, waters or wastes if it appears likely, in the opinion of the enforcement officer, that such wastes can harm either the sewers, sewage treatment process or equipment, have an adverse effect on the receiving stream or can otherwise endanger life, limb, public property or constitute a nuisance. In forming his opinion as to the acceptability of these wastes, the enforcement officer will give consideration to such factors as the quantities of subject wastes in relation to flows and velocities in the sewers, materials of construction of the sewers, nature of the sewage treatment process, capacityCity of the sewage treatment plant, degree of treatability of wastes in the sewage treatment plant and other pertinent factors. The substances prohibited are:

- (1) ~~Any water or waste containing fats, wax, grease or oils, whether emulsified or not, in excess of 100 milligrams per liter or containing substances which may solidify or become viscous at temperatures between 32 and 150 degrees Fahrenheit (0 to 65 degrees Centigrade).~~
- (2) ~~Any garbage that has not been properly shredded. The installation and operation of any garbage grinder equipped with a motor of three fourths horsepower (0.76 horsepower metric) or greater, shall be subject to the review and approval of the enforcement officer.~~
- (3) ~~Any waters or wastes containing strong acid iron pickling wastes, or concentrated plating solutions whether neutralized or not.~~
- (4) ~~Any waters or wastes containing iron, chromium, copper, zinc, cadmium and similar objectionable or toxic substances; or wastes exerting an excessive chlorine requirement, to such degree that any such material received in the composite sewage at the sewage treatment works exceeds the limits established by the enforcement officer for such materials.~~
- (5) ~~Any radioactive wastes or isotopes of such half life or concentration as may exceed limits established by the enforcement officer in compliance with applicable state or federal regulations.~~
- (6) ~~Materials which exert or cause:~~
  - a. ~~Unusual concentrations of inert suspended solids, such as, but not limited to, Fullers' earth, lime slurries and lime residues, or of dissolved solids, such as, but not limited to, sodium ehloride and sodium sulfate.~~
  - b. ~~Excessive discoloration, such as, but not limited to, dye wastes and vegetable tanning solutions.~~
  - e. ~~Usual B.O.D., chemical oxygen demand, or chlorine requirements in such quantities as to constitute a significant load on the sewage treatment works.~~
- (7) ~~Any water or wastes having:~~
  - a. ~~A five day biochemical oxygen demand greater than 300 parts per million by weight;~~
  - b. ~~More than 350 parts per million by weight of suspended solids;~~
  - c. ~~An average daily flow greater than two percent of the average sewage flow of the cityCity;~~  
~~or~~
  - d. ~~A pH below 6.5 or greater than 9.0.~~

(Code 1965, §§ 30-80, 30-95; Code 1987, § 28-158)



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**Sec. 42-382. Authority to require pretreatment.**

- (a) ~~If any waters or wastes are discharged or are proposed to be discharged to the public sewers, which waters or wastes contain the substances or possess the characteristics enumerated in this division, and which in the judgment of the enforcement officer may have a deleterious effect upon the sewage works, processes, equipment or receiving waters or which otherwise create a hazard to life or constitute a public nuisance, the enforcement officer may take any or all following actions:~~
- ~~(1) Reject the wastes.~~
  - ~~(2) Require pretreatment to an acceptable condition for discharge to the public sewers.~~
  - ~~(3) Require control over the quantities and rates of discharge.~~
  - ~~(4) Require payment to cover the added cost of handling and treating the wastes not covered by existing taxes or sewer charges under the provisions of this division.~~
- (b) ~~If the enforcement officer permits the pretreatment or equalization of waste flows, the design and installation of the plants and equipment shall be subject to the review and approval of the enforcement officer, and subject to the requirements of all applicable codes, ordinances and laws.~~
- (c) ~~If, in the opinion of the officers and employees of the cityCity, before wastes described in section 42-381(7) are deposited in the cityCity sewer system, the owner of such water or wastes shall, at his own expense, provide such preliminary treatment of such waters and wastes necessary to accomplish the following before such waters or wastes are deposited in the cityCity sewer system:~~
- ~~(1) Reduce the biochemical oxygen demand to 300 parts per million by weight;~~
  - ~~(2) Reduce the suspended solids to 350 parts per million by weight;~~
  - ~~(3) Control the quantities and rates of discharge of such water or wastes; or~~
  - ~~(4) Control the pH between 6.5 and 9.0.~~

(Code 1965, §§ 30-81, 30-96; Code 1987, § 28-159)

**Sec. 42-383. - Pretreatment and flow-equalizing facilities.**

Where preliminary treatment or flow-equalizing facilities are provided for any waters or wastes, they shall be maintained continuously in satisfactory and effective operation by the owner at his expense. Plans, specifications and any other pertinent information relating to proposed preliminary treatment facilities shall be submitted for the approval of the cityCity, and no construction of such facilities shall be commenced until such approvals are obtained in writing.

(Code 1965, § 30-83, 30-97; Code 1987, § 28-160)

**Sec. 42-384. - Control manholes.**

When required by the enforcement officer, the owner of any property serviced by a building sewer carrying industrial wastes shall install a suitable control manhole together with such necessary meters and other appurtenances in the building sewer to facilitate observation, sampling and measurement of the wastes. Such manhole, when required, shall be accessibly and safely located, and shall be constructed in



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accordance with plans approved by the enforcement officer. The manhole shall be installed by the owner at his expense and shall be maintained by him to be safe and accessible at all times.

Secs. 42-385 – 42-397. – Reserved.



## DIVISION 5. - PRETREATMENT OF CERTAIN WASTEWATER DISCHARGES

### Subdivision I. – In General

#### Sec. 42-398. - Purpose and policy.

- (a) This division sets forth uniform requirements for Users of the wastewater collection and publicly owned treatment works (POTW) for the City and enables the City to comply with all state and federal laws including the Clean Water Act (33 USC 1251 et seq.), and the General Pretreatment Regulations (40 CFR 403). The objectives of this division are:
- (1) To prevent the introduction of pollutants into the POTW that will interfere with the operation of the POTW;
  - (2) To prevent the introduction of pollutants into the POTW which will pass through the POTW, inadequately treated, into receiving waters of otherwise be incompatible with the POTW;
  - (3) To ensure that the quality of the wastewater treatment plant sludge is maintained at a level which allows its use and disposal in compliance with applicable statutes and regulations;
  - (4) To protect POTW personnel who may be affected by wastewater and sludge in the course of their employment and to protect the general public;
  - (5) To improve the opportunity to recycle and reclaim wastewater and sludge from the POTW;
  - (6) To provide for fees for the equitable distribution of the cost of operation, maintenance and improvement of the POTW; and
  - (7) To enable the City to comply with its NPDES permit conditions, sludge use and disposal requirements and any other federal or state laws to which the POTW is subject.
- (b) This division shall apply to all Users of the POTW. This division authorizes the issuance of wastewater discharge permits; authorizes monitoring, compliance and enforcement activities; establishes administrative review procedures; requires industrial User reporting; and provides for the setting of fees for the equitable distribution of costs resulting from the program established herein.

(Ord. No. 6894, § 1.1, 6-7-1993)

Secs. 42-399 – 42-415. – Reserved.

### Subdivision II. - General Sewer Use Requirements

#### Sec. 42-416. - Prohibited discharge standards.

- (a) General Prohibitions. No User shall introduce or cause to be introduced into the POTW any pollutant or wastewater which causes pass through or interference. These general prohibitions apply to all industrial Users of the POTW whether or not they are subject to categorical pretreatment standards or any other national, state or local pretreatment standards or requirement.

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(b) Specific Prohibitions. Furthermore, no industrial User may introduce or cause to be introduced into the POTW the following pollutants, substances, or wastewater:

- (1) Pollutants which create a fire or explosive hazard in the municipal wastewater collection and POTW, including, but not limited to, wastestreams with a closed-cup flashpoint of less than 140 degrees Fahrenheit (60 degrees Celsius) using the test methods specified in 40 CFR 261.21.
- (2) Any wastewater having a pH less than 6.0 or more than 11, or otherwise causing corrosive structural damage to the POTW or equipment, or endangering City personnel.
- (3) Solid or viscous substances in amounts which will cause obstruction of the flow in the POTW resulting in interference, but in no case solids greater than three (3) inches in any dimension.
- (4) Any wastewater containing pollutants, including oxygen demanding pollutants (BOD, etc.), released in a discharge at a flow rate or pollutant concentration which, either singly or by interaction with other pollutants, will cause interference with either the POTW; or any wastewater treatment or sludge process, or which will constitute a hazard to humans or animals.
- (5) Any wastewater having a temperature greater than 104 degrees Fahrenheit (40 degrees Celsius), or which will inhibit biological activity in the treatment plant resulting in interference.
- (6) Petroleum oil, nonbiodegradable cutting oil or products of mineral oil origin, in amounts that will cause interference or pass through.
- (7) Any pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems.
- (8) Any trucked or hauled pollutants, except at discharge points designated by the City in accordance with section 42-454.
- (9) Any noxious or malodorous liquids, gases, solids, or other wastewater which, either singly or by interaction with other wastes, are sufficient to create a public nuisance, a hazard to life, or to prevent entry into the sewers for maintenance and repair.
- (10) Any wastewater which imparts color which cannot be removed by the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions, which consequently imparts color to the treatment plant's effluent thereby violating the City's NPDES permit. Color (in combination with turbidity) shall not cause the treatment plant effluent to reduce the depth of the compensation point for photosynthetic activity by more than ten percent from the seasonably established norm for aquatic life.
- (11) Any wastewater containing any radioactive wastes or isotopes except as specifically approved by the Director in compliance with applicable state or federal regulations.
- (12) Stormwater, surface water, groundwater, artesian well water, roof runoff, subsurface drainage, swimming pool drainage, condensate, deionized water, noncontact cooling water, and unpolluted industrial wastewater, unless specifically authorized by the Director.
- (13) Any sludges, screenings, or other residues from the pretreatment of industrial wastes.
- (14) Any medical wastes, except as specifically authorized by the Director in a wastewater discharge permit.
- (15) Any wastewater causing the treatment plant's effluent to fail a toxicity test.
- (16) Any wastes containing detergents, surface active agents, or other substances which may cause excessive foaming in the POTW.

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(17) Any discharge of fats, oils, or greases of animal or vegetable origin is limited to 100 mg/l.

(18) At no time shall two readings on an explosion hazard meter at the point of discharge into the POTW, or at any point in the POTW, be more than five percent nor any single reading over ten percent of the lower explosive limit (LEL) of the meter.

- (b) Wastes prohibited by this section shall not be processed or stored in such a manner that they could be discharged to the POTW. All floor drains located in process or materials storage areas must discharge to the industrial User's pretreatment facility before connecting with the POTW.

(Ord. No. 6894, § 2.1, 6-7-1993)

Sec. 42-417. -National categorical pretreatment standards.

Users must comply with the categorical Pretreatment Standards found at 40 CFR Chapter I, Subchapter N, Parts 405–471.

- (a) Where a categorical Pretreatment Standard is expressed only in terms of either the mass or the concentration of a pollutant in wastewater, the Director may impose equivalent concentration or mass limits in accordance with Section 42-417(e) and 42-417(f).
- (b) When the limits in a categorical Pretreatment Standard are expressed only in terms of mass of pollutant per unit of production, the Director may convert the limits to equivalent limitations expressed either as mass of pollutant discharged per day or effluent concentration for purposes of calculating effluent limitations applicable to individual Industrial Users.
- (c) When wastewater subject to a categorical Pretreatment Standard is mixed with wastewater not regulated by the same Standard, the Director shall impose an alternate limit in accordance with 40 CFR 403.6(e).
- (d) A CIU may obtain a net/gross adjustment to a categorical Pretreatment Standard in accordance with the following paragraphs of this Section.
  - (1) Categorical Pretreatment Standards may be adjusted to reflect the presence of pollutants in the Industrial User's intake water in accordance with this Section. Any Industrial User wishing to obtain credit for intake pollutants must make application to the City. Upon request of the Industrial User, the applicable Standard will be calculated on a "net" basis (i.e., adjusted to reflect credit for pollutants in the intake water) if the requirements of paragraph (2) of this Section are met.
  - (2) Criteria.
    - a. Either (i) The applicable categorical Pretreatment Standards contained in 40 CFR subchapter N specifically provide that they shall be applied on a net basis; or (ii) The Industrial User demonstrates that the control system it proposes or uses to meet applicable categorical Pretreatment Standards would, if properly installed and operated, meet the Standards in the absence of pollutants in the intake waters.
    - b. Credit for generic pollutants such as biochemical oxygen demand (BOD), total suspended solids (TSS), and oil and grease should not be granted unless the Industrial User demonstrates that the constituents of the generic measure in the User's effluent are

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substantially similar to the constituents of the generic measure in the intake water or unless appropriate additional limits are placed on process water pollutants either at the outfall or elsewhere.

- c. Credit shall be granted only to the extent necessary to meet the applicable categorical Pretreatment Standard(s), up to a maximum value equal to the influent value. Additional monitoring may be necessary to determine eligibility for credits and compliance with Standard(s) adjusted under this Section.
  - d. Credit shall be granted only if the User demonstrates that the intake water is drawn from the same body of water as that into which the POTW discharges. The [City] may waive this requirement if it finds that no environmental degradation will result.
- (e) When a categorical Pretreatment Standard is expressed only in terms of pollutant concentrations, an Industrial User may request that the City convert the limits to equivalent mass limits. The determination to convert concentration limits to mass limits is within the discretion of the Director. The City may establish equivalent mass limits only if the Industrial User meets all the conditions set forth in Sections 42-417(e)(1)a through 42-417(e)(1)e below.

(1) To be eligible for equivalent mass limits, the Industrial User must:

- a. Employ, or demonstrate that it will employ, water conservation methods and technologies that substantially reduce water use during the term of its individual wastewater discharge permit;
- b. Currently use control and treatment technologies adequate to achieve compliance with the applicable categorical Pretreatment Standard, and not have used dilution as a substitute for treatment;
- c. Provide sufficient information to establish the facility's actual average daily flow rate for all wastestreams, based on data from a continuous effluent flow monitoring device, as well as the facility's long-term average production rate. Both the actual average daily flow rate and the long-term average production rate must be representative of current operating conditions;
- d. Not have daily flow rates, production levels, or pollutant levels that vary so significantly that equivalent mass limits are not appropriate to control the Discharge; and
- e. Have consistently complied with all applicable categorical Pretreatment Standards during the period prior to the Industrial User's request for equivalent mass limits.

(2) An Industrial User subject to equivalent mass limits must:

- a. Maintain and effectively operate control and treatment technologies adequate to achieve compliance with the equivalent mass limits;
- b. Continue to record the facility's flow rates through the use of a continuous effluent flow monitoring device;
- c. Continue to record the facility's production rates and notify the Director whenever production rates are expected to vary by more than 20 percent from its baseline production rates determined in paragraph 42-417(f)(1)c of this Section. Upon notification of a revised

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production rate, the Director will reassess the equivalent mass limit and revise the limit as necessary to reflect changed conditions at the facility; and

- d. Continue to employ the same or comparable water conservation methods and technologies as those implemented pursuant to paragraphs 42-417(e)(1)a of this Section so long as it discharges under an equivalent mass limit.

(3) When developing equivalent mass limits, the Director:

- a. Will calculate the equivalent mass limit by multiplying the actual average daily flow rate of the regulated process(es) of the Industrial User by the concentration-based Daily Maximum and Monthly Average Standard for the applicable categorical Pretreatment Standard and the appropriate unit conversion factor;
  - b. Upon notification of a revised production rate, will reassess the equivalent mass limit and recalculate the limit as necessary to reflect changed conditions at the facility; and
  - c. May retain the same equivalent mass limit in subsequent individual wastewater discharger permit terms if the Industrial User's actual average daily flow rate was reduced solely as a result of the implementation of water conservation methods and technologies, and the actual average daily flow rates used in the original calculation of the equivalent mass limit were not based on the use of dilution as a substitute for treatment pursuant to Section 42-421. The Industrial User must also be in compliance with Section 42-756 regarding the prohibition of bypass.
- (f) The Director may convert the mass limits of the categorical Pretreatment Standards of 40 CFR Parts 414, 419, and 455 to concentration limits for purposes of calculating limitations applicable to individual Industrial Users. The conversion is at the discretion of the Director.
- (g) Once included in its permit, the Industrial User must comply with the equivalent limitations developed in this Section 42-417 in lieu of the promulgated categorical Standards from which the equivalent limitations were derived.
- (h) Many categorical Pretreatment Standards specify one limit for calculating maximum daily discharge limitations and a second limit for calculating maximum Monthly Average, or 4-day average, limitations. Where such Standards are being applied, the same production or flow figure shall be used in calculating both the average and the maximum equivalent limitation.
- (i) Any Industrial User operating under a permit incorporating equivalent mass or concentration limits calculated from a production-based Standard shall notify the Director within two (2) business days after the User has a reasonable basis to know that the production level will significantly change within the next calendar month. Any User not notifying the Director of such anticipated change will be required to meet the mass or concentration limits in its permit that were based on the original estimate of the long term average production rate.

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(Ord. No. 6894, § 2.2, 6-7-1993)

Sec. 42-418. - State Pretreatment Standards

Users must comply with Missouri Pretreatment Standards codified at 10 CSR 20-6.100.

Sec. 42-419. – Local Limits.

- (a) The Director is authorized to establish Local Limits pursuant to 40 CFR 403.5(c). Refer to 42-417(e) for established maximum allowable industrial loadings (**reserved**).
- (b) The Director may develop Best Management Practices (BMPs), by ordinance or in individual wastewater discharge permits to implement Local Limits and the requirements of Section 42-416.

(Ord. No. 6894, § 2.3, 6-7-1993)

Sec. 42-420. - City's right of revision.

The City reserves the right to establish, by ordinance or in wastewater discharge permits, more stringent standards or requirements on discharges to the POTW consistent with the purpose of this ordinance.

(Ord. No. 6894, § 2.4, 6-7-1993)

~~Sec. 42-421. — Special agreement.~~

~~The cityCity reserves the right to enter into special agreements with industrial userUsers setting out special terms under which they may discharge to the POTW. In no case will a special agreement waive compliance with a pretreatment standard or requirement. However, the industrial userUser may request a net gross adjustment to a categorical standard in accordance with 40 CFR 403.15. They may also request a variance from the categorical pretreatment standard from EPA. Such a request will be approved only if the industrial userUser can prove that factors relating to its discharge are fundamentally different from the factors considered by EPA when establishing that pretreatment standard. An industrial userUser requesting a fundamentally different factor variance must comply with the procedural and substantive provisions in 40 CFR 403.13.~~

(Ord. No. 6894, § 2.5, 6-7-1993)

Sec. 42-421. - Dilution.

No User shall ever increase the use of process water, or in any way attempt to dilute a discharge, as a partial or complete substitute for adequate treatment to achieve compliance with a discharge limitation unless expressly authorized by an applicable pretreatment standard or requirement. The Director may impose mass limitations on Users which are using dilution to meet applicable pretreatment standards or requirements, or in other cases when the imposition of mass limitations is appropriate.

(Ord. No. 6894, § 2.6, 6-7-1993)

Secs. 42-422—42-448. - Reserved.

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### Subdivision III. - Pretreatment of Wastewater

#### Sec. 42-449. - Pretreatment facilities.

Users shall provide necessary wastewater treatment as required to comply with this subdivision and shall achieve compliance with all categorical pretreatment standards, local limits, and the prohibitions set out in section 42-416 within the time limitations specified by the EPA, the state, or the Director, whichever is more stringent. Any facilities required to pretreat wastewater to a level acceptable to the City shall be provided, operated, and maintained at the industrial User's expense. Detailed plans showing the pretreatment facilities and operating procedures shall be submitted to the Director for review, and shall be acceptable to the Director before construction of the facility. The review of such plans and operating procedures shall in no way relieve the User from the responsibility of modifying the facilities as necessary to produce an acceptable discharge to the City under the provisions of this ordinance.

(Ord. No. 6894, § 3.1, 6-7-1993)

#### Sec. 42-450. - Additional pretreatment measures.

- (a) Whenever deemed necessary, the Director or designee may require Users to restrict their discharge during peak flow periods, designate that certain wastewater be discharged only into specific sewers, relocate and/or consolidate points of discharge, separate sewage waste streams from industrial waste streams, and such other conditions as may be necessary to protect the POTW and determine the User's compliance with the requirements of this ordinance.
- (b) The Director may require any person discharging into the POTW to install and maintain, on their property and at their expense, a suitable storage and flow-control facility to ensure equalization of flow. An individual wastewater discharge permit may be issued solely for flow equalization.
- (c) Grease, oil, and sand interceptors shall be provided when, in the opinion of the Director or designee, they are necessary for the proper handling of wastewater containing excessive amounts of grease and oil, or sand; except that such interceptors shall not be required for residential Users. All interception units shall be of a type and capacity approved by the Director or designee. Shall comply with the following City ordinance: Chapter 42; Division 4: Discharge Regulations; Section 42-385 and shall be so located to be easily accessible for cleaning and inspection. Such interceptors shall be inspected, cleaned, and repaired by the User at their expense.
- (d) Industrial Users with the potential to discharge flammable substances may be required to install and maintain an approved combustible gas detection meter.

(Ord. No. 6894, § 3.2, 6-7-1993)

#### Sec. 42-451. - Grease, oil and sand interceptors. *(Relocated section)*

- (a) Grease, oil and sand interceptors shall be provided when, in the opinion of the enforcement officer, they are necessary for the proper handling of liquid wastes containing grease in excessive amounts or any flammable wastes, sand or other harmful ingredients; except that such interceptors shall not be required for private living quarters or dwelling units. All interceptors shall be located as to be readily and easily accessible for cleaning and inspection.



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- (b) All grease traps shall be cleaned out and inspected annually with the inspection to be documented to the Director on an approved form. The inspections may be completed by the company providing the cleaning and removal of grease from the grease trap, or in the case of small, under-sink grease traps, the owner or manager of the facility may provide the certification.
- (c) Facilities required to have a grease trap shall maintain records of the cleaning and maintenance of all grease traps. Such records shall be kept at the location of the facility required to have a grease trap for a period of three years.
- (d) Failure to provide certification of the maintenance requirements shall result in a \$100.00 to \$1,000.00 fine.
- (e) If a City sewer backs up due to grease in the main, the facilities connected to that portion of the collection system shall be subject to inspection including a review of the cleaning records.
- (f) Any facilities that have not cleaned the grease trap properly, or the grease trap is not working properly, may be held liable for any damage caused by the sewer back up, even if the damage is to another facility or property.
- (g) Any existing facility that has an under-sink grease trap that has repeated problems with discharges of grease into the City sewer main shall be required to install a larger grease trap. City inspectors shall be allowed access to the grease trap for the purposes of inspection during normal business hours.
- (h) Sizing and installation of grease traps shall meet the requirements of the City's current building and construction codes.

(Code 1965, § 30-82; Code 1987, § 28-162; Ord. No. 7597, § 1, 6-16-2003)

Sec. 42-452. - Accidental discharge/slug control plans.

The Director shall evaluate whether each SIU needs an accidental discharge/slug discharge control plan or other action to control Slug Discharges. The Director may require any User to develop, submit for approval, and implement such a plan or take such other action that may be necessary to control Slug Discharges. Alternatively, the Director may develop such a plan for any User. An accidental discharge/slug discharge control plan shall address, at a minimum, the following:

- (a) Description of discharge practices, including nonroutine batch discharges.
- (b) Description of stored chemicals.
- (c) Procedures for immediately notifying the POTW of any accidental or slug discharge. Such notification must also be given for any discharge which would violate any of the prohibited discharges in section 42-416.
- (d) Procedures to prevent adverse impact from any accidental or slug discharge. Such procedures include, but are not limited to, inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site run-off, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents), or measures and equipment for emergency response.

(Ord. No. 6894, § 3.3, 6-7-1993)

Sec. 42-453. - Tenant responsibility.



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Where an owner of property leases premises to any other person as a tenant, under any rental or lease agreement, if either the owner or the tenant is an industrial User, either or both may be held responsible for compliance with the provisions of this subdivision.

(Ord. No. 6894, § 3.4, 6-7-1993)

Sec. 42-454. - Hauled wastewater.

- (a) Septic tank waste may be accepted into the POTW at a designated receiving structure within the treatment plant area, and at such times as are established by the Director, provided such wastes do not violate section 42-416 or any other requirements established or adopted by the City. The Director may require septic tank waste haulers to obtain individual wastewater discharge permits.
- (b) The discharge of hauled industrial wastes as industrial septage requires prior approval and a wastewater discharge permit from the City. The Director shall have authority to prohibit the disposal of such wastes, if such disposal would interfere with the treatment plant operation. Waste haulers are subject to all other sections of this subdivision.
- (c) Industrial waste haulers may discharge loads only at locations designated by the Director. No load may be discharged without prior consent. Samples may be collected of each hauled load to ensure compliance with applicable standards. The Director may require the industrial waste hauler to provide a waste analysis of any load prior to discharge.
- (d) Industrial waste haulers must provide a waste-tracking form for every load. This form shall include, at a minimum, the name and address of the industrial waste hauler, permit number, truck identification, names and addresses of sources of waste, and volume and characteristics of waste. The form shall identify the type of industry, known or suspected waste constituents, and whether any wastes are RCRA hazardous wastes.
- (e) Fees for dumping septage will be established as part of the industrial User fee system as authorized in section 42-4439.

(Ord. No. 6894, § 3.5, 6-7-1993)

Secs. 42-455—42-470. - Reserved.

#### Subdivision IV. – Individual Wastewater Discharge Permits

Sec. 42-471. - Wastewater analysis.

When requested by the Public Utilities Director, all Users must submit information on the nature and characteristics of their wastewater by completing a wastewater survey prior to commencing their discharge within sixty (60) days of the request. The Director is authorized to prepare a form for this purpose and may periodically require industrial Users to update the survey. Failure to complete this survey shall be reasonable grounds for terminating service to the User and shall be considered a violation of this subdivision.

(Ord. No. 6894, § 4.1, 6-7-1993)

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Sec. 42-472. – Individual wastewater discharge permit requirement.

- (a) It shall be unlawful for any Significant Industrial User to discharge wastewater in the City's POTW without first obtaining a wastewater discharge permit from the Director, except that a Significant Industrial User that has filed a timely application pursuant to Section 42-473 of this ordinance may continue to discharge for the time period specified therein
- (b) The Director may require other industrial Users, including liquid waste haulers, to obtain wastewater discharge permits as necessary to carry out the purposes of this subdivision.
- (c) Any violation of the terms and conditions of a wastewater discharge permit shall be deemed a violation of this subdivision and subjects the wastewater discharge permittee to the sanctions set out in subdivisions X through XII of this division. Obtaining a wastewater discharge permit does not relieve a permittee of its obligation to comply with all federal and state pretreatment standards or requirements or with any other requirements of federal, state and local law.

(Ord. No. 6894, § 4.2, 6-7-1993)

Sec. 42-473. – Individual wastewater discharge permitting: existing connections.

Any User which discharges industrial waste into the POTW prior to the effective date of the ordinance from which this subdivision is derived and who wishes to continue such discharges in the future, shall, within 90 days after the date, apply to the City for an individual wastewater discharge permit in accordance with section 42-475, and shall not cause or allow discharges to the POTW to continue after 180 days of the effective date of the ordinance from which this subdivision is derived except in accordance with a wastewater discharge permit issued by the Director.

(Ord. No. 6894, § 4.3, 6-7-1993)

Sec. 42-474. – Individual wastewater discharge permitting: new connections.

Any User proposing to begin or recommence discharging industrial wastes into the POTW must obtain an individual wastewater discharge permit prior to the beginning or recommencing of such discharge. An application for this individual wastewater discharge permit, in accordance with 42-475 of this ordinance, must be filed at least 90 days prior to the date upon which any discharge will begin.

(Ord. No. 6894, § 4.4, 6-7-1993)

Sec. 42-475. - Wastewater discharge permit application contents.

- (a) In order to be considered for a wastewater discharge permit, all industrial Users required to have an individual wastewater discharge permit must submit a permit application. The Director may require Users to submit all or some of the following information as part of the permit application:
  - (1) Identifying Information.
    - a. The name and address of the facility, including the name of the operator and owner.
    - b. Contact information, description of activities, facilities, and plant production processes on the premises;

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- (2) Environmental Permits. A list of any environmental control permits held by or for the facility.
- (3) Description of Operations.
  - a. A brief description of the nature, average rate of production (including each product produced by type, amount, processes, and rate of production), and standard industrial classifications of the operation(s) carried out by such User. This description should include a schematic process diagram, which indicates points of discharge to the POTW from the regulated processes.
  - b. Types of wastes generated, and a list of all raw materials and chemicals used or stored at the facility which are, or could accidentally or intentionally be, discharged to the POTW;
  - c. Number and type of employees, hours of operation, and proposed or actual hours of operation;
  - d. Type and amount of raw materials processed (average and maximum per day);
  - e. Site plans, floor plans, mechanical and plumbing plans, and details to show all sewers, floor drains, and appurtenances by size, location, and elevation, and all points of discharge;
- (4) Time and duration of discharges;
- (5) The location for monitoring all wastes covered by the permit;
- (6) Flow Measurement. Information showing the measured average daily and maximum daily flow, in gallons per day, to the POTW from regulated process streams and other streams, as necessary, to allow use of the combined wastestream formula set out in 42-417(c) (40 CFR 403.6(e)).
- (7) Measurement of Pollutants.
  - a. The categorical Pretreatment Standards applicable to each regulated process and any new categorically regulated processes for Existing Sources.
  - b. The results of sampling and analysis identifying the nature and concentration, and/or mass, where required by the Standard or by the Director, of regulated pollutants in the discharge from each regulated process.
  - c. Instantaneous, daily Maximum, and long-term average concentrations, or mass, where required, shall be reported.
  - d. The sample shall be representative of daily operations and shall be analyzed in accordance with procedures set out in section 42-548 of this ordinance. Where the Standard requires compliance with a BMP or pollution prevention alternative, the User shall submit documentation as required by the Director or the applicable Standards to determine compliance with the Standard.
  - e. Sampling must be performed in accordance with procedures set out in section 42-549 of this ordinance.
- (8) Any requests for a monitoring waiver (or a renewal of an approved monitoring waiver) for a pollutant neither present nor expected to be present in the discharge based on section 42-542 [40 CFR 403.12(e)(2)].

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(9) Any other information as may be deemed necessary by the Director to evaluate the permit application.

(b) Incomplete or inaccurate applications will not be processed and will be returned to the User for revision.

(Ord. No. 6894, § 4.6, 6-7-1993)

Sec. 42-476. - Application signatories and certification.

(a) All wastewater discharge permit applications, User reports and certification statements must be signed by an Authorized Representative of the User and contain the certification statement in section 42-553(a).

(b) If the designation of an Authorized Representative is no longer accurate because a different individual or position has responsibility for the overall operation of the facility or overall responsibility for environmental matters for the company, a new written authorization satisfying the requirements of this section must be submitted to Director prior to or together with any reports to be signed by an Authorized Representative.

(c) A facility determined to be a Non Significant Categorical Industrial User by the Director pursuant to 42-292 must annually submit the signed certification statement in 42-553(b).

(Ord. No. 6894, § 4.7, 6-7-1993)

Sec. 42-477. - Wastewater discharge permit decisions.

The Director will evaluate the date furnished by the industrial User and may require additional information. Within 60 days of receipt of a complete wastewater discharge permit application, the Director will determine whether or not to issue a wastewater discharge permit. If no determination is made within this time period, the application will be deemed denied. The Director may deny any application for a wastewater discharge permit.

(Ord. No. 6894, § 4.8, 6-7-1993)

Secs. 42-478—42-504. - Reserved.

Subdivision V. – Individual Wastewater Discharge Permit Issuance

Sec. 42-505. - Wastewater discharge permit duration.

Wastewater discharge permits shall be issued for a specified time period, not to exceed five (5) years from the effective date of the permit. A wastewater discharge permit may be issued for a period less than five years, at the discretion of the Director. Each wastewater discharge permit will include a specific date upon which it will expire.

(Ord. No. 6894, § 5.1, 6-7-1993)

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Sec. 42-506. - Wastewater discharge permit contents.

An individual wastewater discharge permit shall include such conditions as are deemed reasonably necessary by the Director to prevent pass through or interference, protect the quality of the water body receiving the treatment plant's effluent, protect worker health and safety, facilitate sludge management and disposal, protect ambient air quality, and protect against damage to the POTW.

(a) An individual wastewater discharge permit must contain the following conditions:

- (1) A statement that indicates wastewater discharge permit duration, which in no event shall exceed five years, issuance date, expiration date and effective date.
- (2) A statement that the wastewater discharge permit is nontransferable without prior notification to and approval from the City in accordance with section 42-509, and provisions for furnishing the new owner or operator with a copy of the existing wastewater discharge permit.
- (3) Effluent limits, including Best Management Practices, applicable to the User based on applicable standards in federal, state, and local law.
- (4) Self-monitoring, sampling, reporting, notification, and record keeping requirements. These requirements shall include an identification of pollutants to be monitored, sampling location, sampling frequency, and sample type based on federal, state, and local law.
- (5) The process for seeking a waiver from monitoring for a pollutant neither present nor expected to be present in the Discharge in accordance with Section 42-542(b).
- (6) Statement of applicable civil, criminal, and administrative penalties for violation of pretreatment standards and requirements and any applicable compliance schedule. Such schedule may not extend the time for compliance beyond that required by applicable federal, state, or local law.
- (7) Requirements to control Slug Discharge, if determined by the Director to be necessary.
- (8) Any grant of the monitoring waiver by the Director (section 42-542 (b)) must be included as a condition in the User's permit.

(b) Wastewater discharge permits may contain, but need not be limited to, the following:

- (1) Limits on the average or maximum rate of discharge, time of discharge, or requirements for flow regulation and equalization.
- (2) Limits on the instantaneous, daily and monthly average or maximum concentration, mass, or other measure of identified wastewater pollutants or properties.
- (3) Requirements for the installation of pretreatment technology, pollution control, or construction of appropriate containment devices, designed to reduce, eliminate, or prevent the introduction of pollutants into the treatment works.
- (4) Development and implementation of spill control plans or other special conditions including management practices necessary to adequately prevent accidental, unanticipated, or routine discharges.
- (5) Development and implementation of waste minimization plans to reduce the amount of pollutants discharged to the POTW.

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- (6) The unit charge or schedule of industrial User charges and fees for the management of the wastewater discharged to the POTW.
- (7) Requirements for installation and maintenance of inspection and sampling facilities and equipment.
- (8) A statement that compliance with the wastewater discharge permit does not relieve the permittee of responsibility for compliance with all applicable federal and state pretreatment standards, including those which become effective during the term of the wastewater discharge permit.
- (9) Other conditions as deemed appropriate by the Director to ensure compliance with this subdivision, and state and federal laws, rules, and regulations.

(Ord. No. 6894, § 5.2, 6-7-1993)

Sec. 42-507. - Wastewater discharge permit appeals.

Any person, including the User, may petition the Director to reconsider the terms of a wastewater discharge permit within 30 days of its issuance.

- (a) Failure to submit a timely petition for review shall be deemed to be a waiver of the administrative appeal.
- (b) In its petition, the appealing party must indicate the wastewater discharge permit provisions objected to, the reasons for this objection, and the alternative condition, if any, it seeks to place in the wastewater discharge permit.
- (c) The effectiveness of the wastewater discharge permit shall not be stayed pending the appeal.
- (d) If the Director fails to act within 45 days, a request for reconsideration shall be deemed to be denied. Decisions not to reconsider a wastewater discharge permit, not to issue a wastewater discharge permit, or not to modify a wastewater discharge permit, shall be considered final administrative action for purposes of judicial review.
- (e) Aggrieved parties seeking judicial review of the final administrative wastewater discharge permit decision must do so by filing a complaint with the 14<sup>th</sup> Judicial Circuit Court within the appropriate State Statute of Limitations.

(Ord. No. 6894, § 5.3, 6-7-1993)

Sec. 42-508. - Wastewater discharge permit modification.

- (a) The Director may modify the wastewater discharge permit for good cause, including, but not limited to, the following:
  - (1) To incorporate any new or revised federal, state, or local pretreatment standards or requirements.
  - (2) To address significant alternations or additions to the industrial User's operation, processes, or wastewater volume or character since the time of wastewater discharge permit issuance.
  - (3) A change in the POTW that requires either a temporary or permanent reduction or elimination of the authorized discharge.

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- (4) Information indicating that the permitted discharge poses a threat to the City's POTW, City personnel, or the receiving waters.
- (5) Violation of any terms or conditions of the wastewater discharge permit.
- (6) Misrepresentations or failure to fully disclose all relevant facts in the wastewater discharge permit application or in any required reporting.
- (7) Revision of or a grant of variance from categorical pretreatment standards pursuant to 40 CFR 403.13.
- (8) To correct typographical or other errors in the wastewater discharge permit.
- (9) To reflect a transfer of the facility ownership or operation to a new owner/operator where requested in accordance with section 42-509.
- (b) The filing of a request by the permittee for a wastewater discharge permit modification does not stay any wastewater discharge permit condition.

(Ord. No. 6894, § 5.4, 6-7-1993)

Sec. 42-509. - Wastewater discharge permit transfer.

- (a) Wastewater discharge permits may be reassigned or transferred to a new owner or operator only if the permittee gives at least 30 days advance notice to the Director and the Director approves the wastewater discharge permit transfer. The notice to the Director must include a written certification by the new owner or operator which:
  - (1) States that the new owner or operator has no immediate intent to change the facility's operations and processes.
  - (2) Identifies the specific date on which the transfer is to occur.
  - (3) Acknowledges full responsibility for complying with the existing wastewater discharge permit.
- (b) Failure to provide advance notice of a transfer renders the wastewater discharge permit voidable on the date of facility transfer.

(Ord. No. 6894, § 5.5, 6-7-1993)

Sec. 42-510. - Wastewater discharge permit revocation.

- (a) The Director may revoke an individual wastewater discharge permit for good cause, including but not limited to, the following reasons:
  - (1) Failure to notify the Director of significant changes to the wastewater prior to the changed discharge.
  - (2) Failure to provide prior notification to the City of changed condition pursuant to section 42-543.
  - (3) Misrepresentation or failure to fully disclose all relevant facts in the wastewater discharge permit application.
  - (4) Falsifying self-monitoring reports and certification statements.



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- (5) Tampering with monitoring equipment.
- (6) Refusing to allow the Director timely access to the facility premises and records.
- (7) Failure to meet effluent limitations.
- (8) Failure to pay fines.
- (9) Failure to pay sewer charges.
- (10) Failure to meet compliance schedules.
- (11) Failure to complete a wastewater survey or the wastewater discharge permit application.
- (12) Failure to provide advance notice of the transfer of a permitted facility.
- (13) Violation of any pretreatment standard or requirement, or any terms of the wastewater discharge permit or this subdivision.
- (b) Wastewater discharge permits shall be voidable upon nonuse, cessation of operations, or transfer of business ownership. All wastewater discharge permits are void upon the issuance of a new wastewater discharge permit.

(Ord. No. 6894, § 5.6, 6-7-1993)

#### Sec. 42-511. - Wastewater discharge permit reissuance.

A User shall apply for wastewater discharge permit reissuance by submitting a complete wastewater discharge permit application in accordance with section 42-475 a minimum of ninety (90) days prior to the expiration of the industrial User's existing wastewater discharge permit.

(Ord. No. 6894, § 4.4, 6-7-1993)

#### Sec. 42-512. – Regulation of Waste Received from Other Jurisdictions

- (a) If another municipality, or User located with another municipality, contributes all or a portion of its wastewater to the POTW, the POTW shall enter into an intermunicipal agreement with the contributing municipality.
- (b) Prior to entering into an agreement required by paragraph (a), above, the Director shall request the following information from the contributing municipality:
  - (1) A description of the quality and volume of the wastewater at the point where it enters the POTW.
  - (2) An inventory of all industrial Users discharging to the municipality.
  - (3) Such other information as may be required by the Director.
- (b) An intermunicipal agreement, as required by paragraph (a), shall contain the following conditions:
  - (1) A requirement for the contributing municipality to adopt a sewer use ordinance which is at least as stringent as this subdivision and local limits, including required Baseline Monitoring Reports (BMRs) which are at least as stringent as those set out in section 42-420. The requirement shall specify that such ordinance and limits must be revised as necessary to reflect changes made to the City's ordinance or Local Limits;



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- (2) A requirement for the contributing municipality to submit a revised industrial User inventory on at least an annual basis.
  - (3) A provision specifying which pretreatment implementation activities, including individual wastewater discharge permit issuance, inspection and sampling, and enforcement, will be conducted by the contributing municipality; which of these activities will be conducted by the Director; and which of these activities will be conducted jointly by the contributing municipality and the City
  - (4) A requirement for the contributing municipality to provide the City with access to all information that the municipal User obtains as part of its pretreatment activities.
  - (5) Limits on the nature, quality, and volume of the municipal User's wastewater at the point where it discharges to the POTW.
  - (6) Requirements for monitoring the contributing municipality's discharge.
  - (7) A provision ensuring the Director access to the facilities of Users located within the contributing municipality's jurisdictional boundaries for the purpose of inspection, sampling, and any other duties deemed necessary by the Director; and
  - (8) A provision specifying remedies available for breach of the terms of the intermunicipal agreement.
- (c) Violation of the terms and conditions of interjurisdictional agreement subjects the contributing municipality to the sanctions set out in subdivisions IX through XI of this division.

(Ord. No. 6894, § 5.8, 6-7-1993)

Secs. 42-513—42-538. - Reserved.

Subdivision VI. - Reporting Requirements

Sec. 42-539. - Baseline monitoring reports.

- (a) Within either 180 days after the effective date of a categorical pretreatment standard, or the final administrative decision on a category determination under 40 CFR 403.6(a)(4), whichever is later, existing significant industrial Users subject to such categorical pretreatment standards, and currently discharging to or scheduled to discharge to the POTW, shall be required to submit to the Director a report which contains the information listed in subsection (b) of this section. At least ninety (90) days prior to commencement of their discharge, new sources, and sources that become industrial Users subsequent to the promulgation of an applicable categorical standard, shall be required to submit to the Director a report which contains the information listed in subsection (b) of this section. A new source shall also be required to report the method of pretreatment it intends to use to meet applicable pretreatment standards. A new source shall also give estimates of its anticipated flow and quantity of pollutants discharged.
- (b) The User described above shall submit the information required by this section, including:
  - (1) All information required in sections 42-475(a)(1)a, 42-475(a)(2), 42-475(a)(3)a, and 42-475(a)(6).
  - (2) Measurement of pollutants.

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- b. The User shall provide the information required in section 42-475(a)(7) (a) through (d).
  - c. The User shall take a minimum of one representative sample to compile that data necessary to comply with the requirements of this paragraph.
  - d. Samples should be taken immediately downstream from pretreatment facilities if such exist or immediately downstream from the regulated process if no pretreatment exists. If other wastewaters are mixed with the regulated wastewater prior to pretreatment the User should measure the flows and concentrations necessary to allow use of the combined wastestream formula in 40 CFR 403.6(e) to evaluate compliance with the Pretreatment Standards. Where an alternate concentration or mass limit has been calculated in accordance with 40 CFR 403.6(e) this adjusted limit along with supporting data shall be submitted to the Control Authority;
  - e. Sampling and analysis shall be performed in accordance with section 42-549;
  - f. The Public Utilities may allow the submission of a baseline report which utilizes only historical data so long as the data provides information sufficient to determine the need for industrial pretreatment measures;
  - g. The baseline report shall indicate the time, date and place of sampling and methods of analysis, and shall certify that such sampling and analysis is representative of normal work cycles and expected pollutant Discharges to the POTW.
- (3) *Compliance Certification.* A statement reviewed by the industrial User's Authorized Representative and certified by a qualified professional, indicating whether pretreatment standards are being met on a consistent basis, and, if not, whether additional operation and maintenance (O&M) or additional pretreatment is required to meet the pretreatment standards and requirements.
- (4) *Compliance schedule.* If additional pretreatment or O&M will be required to meet the pretreatment standards; the shortest schedule by which the industrial User will provide such additional pretreatment or O&M. The completion date in this schedule shall not be later than the compliance date established for the applicable pretreatment standard. A compliance schedule pursuant to this section must meet the requirements set out in section 42-475.
- (5) *Certification of reports.* All baseline monitoring reports must be signed and certified in accordance with section 42-476 of this ordinance and signed by an Authorized Representative as defined in section 42-292.

(Ord. No. 6894, § 6.1, 6-7-1993)

Sec. 42-540. - Compliance schedule progress report.

The following conditions shall apply to the schedule required by section 42-539(d).

- (1) The schedule shall contain progress increments in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the User to meet the applicable pretreatment standards (such events include hiring an engineer, completing preliminary and final plans, executing contracts for major components, commencing and completing construction, beginning and conducting routine operation).
- (2) No increment referred to above shall exceed nine months.

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- (3) The industrial User shall submit a progress report to the Director no later than fourteen (14) days following each date in the schedule and the final date of compliance including, as a minimum, whether or not it complied with the increment of progress, the reason for any delay and, if appropriate, the steps being taken by the industrial User to return to the established schedule.
- (4) In no event shall more than nine months elapse between such progress reports to the Director.

(Ord. No. 6894, § 6.2, 6-7-1993)

Sec. 42-541. - Report on compliance with categorical pretreatment standard deadline.

Within 90 days following the date for final compliance with applicable categorical pretreatment standards, or in the case of a new source following commencement of the introduction of wastewater into the POTW, any industrial User subject to such pretreatment standards and requirements shall submit to the Director a report containing the information described in section 42-475(a)(6), 42-475(a)(7) and 42-539(b)(2). For industrial Users subject to equivalent mass or concentration limits established in accordance with the procedures in 40 CFR 403.6(c), this report shall contain a reasonable measure of the industrial User's long term production rate. For all other industrial Users subject to categorical pretreatment standards expressed in terms of allowable pollutant discharge per unit of production (or other measure of operation), this report shall include the industrial User's actual production during the appropriate sampling period. All compliance reports must be signed and certified in accordance with section 42-553. All sampling will be done in conformance with section 42-549.

(Ord. No. 6894, § 6.3, 6-7-1993)

Sec. 42-542. - Periodic compliance reports.

- (a) Any Significant Industrial User subject to a pretreatment standard shall, at a frequency determined by the Director but in no case less than twice per year (in June and December), or as otherwise required by the Director or his/her designee, submit a report indicating the nature and concentration of pollutants in the discharge which are limited by such pretreatment standards and the measured or estimated average and maximum daily flows for the reporting period. In cases where the pretreatment standard requires compliance with a Best Management Practice (BMP) or pollution prevention alternative, the User must submit documentation required by the Director or the pretreatment standard necessary to determine the compliance status of the User.
- (b) The City may authorize an Industrial User subject to a categorical Pretreatment Standard to forego sampling of a pollutant regulated by a categorical Pretreatment Standard if the Industrial User has demonstrated through sampling and other technical factors that the pollutant is neither present nor expected to be present in the discharge, or is present only at background levels from intake water and without any increase in the pollutant due to activities of the Industrial User. [see 40 CFR 403.12(e)(2)] This authorization is subject to the following conditions:
  - (1) The waiver may be authorized where a pollutant is determined to be present solely due to sanitary wastewater discharged from the facility provided that the sanitary wastewater is not regulated by an applicable categorical Standard and otherwise includes no process wastewater.
  - (2) The monitoring waiver is valid only for the duration of the effective period of the individual wastewater discharge permit, but in no case longer than 5 years. The User must submit a new

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request for the waiver before the waiver can be granted for each subsequent individual wastewater discharge permit. See section 42-475(a)(8).

- (3) In making a demonstration that a pollutant is not present, the User must provide data from at least one sampling of the facility's process wastewater prior to any treatment present at the facility that is representative of all wastewater from all processes.
  - (4) The request for a monitoring waiver must be signed in accordance with section 42-292, and include the certification statement in 42-553(a) (40 CFR 403.6(a)(2)(ii)).
  - (5) Non-detectable sample results may be used only as a demonstration that a pollutant is not present if the EPA approved method from 40 CFR Part 136 with the lowest minimum detection level for that pollutant was used in the analysis.
  - (6) Any grant of the monitoring waiver by the Director must be included as a condition in the User's permit. The reasons supporting the waiver and any information submitted by the User in its request for the waiver must be maintained by the Director for three (3) years after expiration of the waiver.
  - (7) Upon approval of the monitoring waiver and revision of the User's permit by the Director, the Industrial User must certify on each report with the statement in 42-553(b) below, that there has been no increase in the pollutant in its wastestream due to activities of the Industrial User.
  - (8) In the event that a waived pollutant is found to be present or is expected to be present because of changes that occur in the User's operations, the User must immediately: Comply with the monitoring requirements of section 42-542(a), or other more frequent monitoring requirements imposed by the Director, and notify the Director.
  - (9) This provision does not supersede certification processes and requirements established in categorical pretreatment standards, except as otherwise specified in the categorical pretreatment standard.
- (c) The City may reduce the requirement for periodic compliance reports to a requirement to report no less frequently than once a year, unless required more frequently in the Pretreatment Standard or by the State, where the Industrial User's total categorical wastewater flow does not exceed any of the following:
- (1) 350 gallons per day, as measured by a continuous effluent flow monitoring device unless the Industrial User discharges in batches
  - (2) 0.85 lbs of BOD; and
  - (3) 0.01 percent of the maximum allowable headworks loading for any pollutant regulated by the applicable categorical Pretreatment Standard for which approved Local Limits were developed.

Reduced reporting is not available to Industrial Users that have in the last two (2) years been in Significant Noncompliance, as defined in Subdivision IX of this ordinance. In addition, reduced reporting is not available to an Industrial User with daily flow rates, production levels, or pollutant levels that vary so significantly that, in the opinion of the

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[Superintendent], decreasing the reporting requirement for this Industrial User would result in data that are not representative of conditions occurring during the reporting period.

- (d) All periodic compliance reports must be signed and certified in accordance with section 42-553.
- (e) All wastewater samples must be representative of the industrial User's discharge. Wastewater monitoring and flow measurement facilities shall be properly operated, kept clean, and maintained in good working order at all times. The failure of an industrial User to keep its monitoring facility in good working order shall not be grounds for the industrial User to claim that sample results are unrepresentative of its discharge.
- (f) If an industrial User subject to the reporting requirement in and of this section monitors any pollutant more frequently than required by the POTW, using the procedures prescribed in section 42-549 the results of this monitoring shall be included in the report.

(Ord. No. 6894, § 6.4, 6-7-1993)

#### Sec. 42-543. - Report of changed conditions.

Each industrial User is required to notify the Director of any planned significant changes to the industrial User's operations or system which might alter the nature, quality or volume of its wastewater at least thirty (30) days before the change.

- (a) The Director may require the industrial User to submit such information as may be deemed necessary to evaluate the changed condition, including the submission of a wastewater discharge permit application under section 42-475.
- (b) The Director may issue a wastewater discharge permit under section 42-477 or modify an existing wastewater discharge permit under section 42-508.

~~(c) No industrial User shall implement the planned changed conditions until and unless the Director has responded to the industrial User's notice.~~

~~(4) For purposes of this requirement, flow increases of ten percent or greater, and the discharge of any previously unreported pollutants, shall be deemed significant.~~

(Ord. No. 6894, § 6.5, 6-7-1993)

#### Sec. 42-544. - Reports of potential problems.

- (a) In the case of any discharge, including, but not limited to, accidental discharges, discharges of a non-routine, episodic nature, a non-customary batch discharge, or a slug load which may cause potential problems for the POTW (including a violation of the prohibited discharge standards in section 42-416), it is the responsibility of the industrial User to immediately telephone and notify the Director of the incident. This notification shall include the location of discharge, type of waste, concentration and volume, if known, and corrective actions taken by the industrial User.
- (b) Within five days following such discharge, the industrial User shall, unless waived by the Director, submit a detailed written report describing the cause of the discharge and the measures to be taken by the industrial User to prevent similar future occurrences. Such notification shall not relieve the industrial User of any expense, loss, damage, or other liability which may be incurred as a result of damage to the POTW, natural resources, or any other damage to person or property; nor shall such

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notification relieve the industrial User of any fines, civil penalties, or other liability which may be imposed by this subdivision.

- (c) A notice shall be permanently posted on the industrial User's bulletin board and other prominent place advising employees whom to call in the event of a discharge described in subsection (a) of this section. Employers shall ensure that all employees, who may cause or suffer such a discharge to occur, are advised of the emergency notification procedure.

(d) Significant Industrial Users are required to notify the Director immediately of any changes at its facility affecting the potential for a Slug Discharge.

(Ord. No. 6894, § 6.6, 6-7-1993)

Sec. 42-545. - Reports from nonsignificant industrial Users.

All Users not subject to categorical pretreatment standards and not required to obtain a wastewater discharge permit shall provide appropriate reports to the Director of Public Utilities as the Director may require.

(Ord. No. 6894, § 6.7, 6-7-1993)

Sec. 42-546. - Notice of violation; repeat sampling and reporting.

If sampling performed by an User indicates a violation, the industrial User must notify the Director within 24 hours of becoming aware of the violation. The User shall also repeat the sampling and analysis and submit the results of the repeat analysis to the Director within 30 days after becoming aware of the violation. The industrial User is not required to resample if the City performs monitoring at the industrial User's at least once a month, or if the City performs sampling between the industrial User's initial sampling and when the industrial User receives the results of this sampling, or if the City has performed the sampling and analysis in lieu of the Industrial User.

(Ord. No. 6894, § 6.8, 6-7-1993)

Sec. 42-547. - Notification of the discharge of hazardous waste.

- (a) Any User who commences the discharge of hazardous waste shall notify the POTW, the EPA Regional Waste Management Division Director, and state hazardous waste authorities in writing of any discharge into the POTW of a substance which, if otherwise disposed of, would be a hazardous waste under 40 CFR 261. Such notification must include the name of the hazardous waste as set forth in 40 CFR 261, the EPA hazardous waste number, and the type of discharge (continuous, batch, or other). If the User discharges more than ten kilograms of such waste per calendar month to the POTW, the notification shall also contain the following information to the extent such information is known and readily available to the industrial User: an identification of the hazardous constituents contained in the wastes, an estimation of the mass and concentration of such constituents in the wastestream discharged during that calendar month, and an estimation of the mass of constituents in the wastestream expected to be discharged during the following 12 months. All notifications must take place no later than 180 days after the discharge commences. Any notification under this subsection need be submitted only once for each hazardous waste discharged. However, notifications of changed discharges must be submitted under section 42-543. The notification requirement in this



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section does not apply to pollutants already reported under the self-monitoring requirements of sections 42-539, 42-541, and 42-542.

- (b) Dischargers are exempt from the requirements of subsection (a) of this section during a calendar month in which they discharge no more than 15 kilograms of hazardous wastes, unless the wastes are acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e). Discharge of more than 15 kilograms of non-acute hazardous wastes in a calendar month, or of any quantity of acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e), requires a onetime notification. Subsequent months during which the industrial User discharges more than such quantities of any hazardous waste do not require additional notification.
- (c) In the case of any new regulations under section 3001 of RCRA identifying additional characteristics of hazardous waste or listing any additional substance as a hazardous waste, the industrial User must notify the POTW, the EPA Regional Waste Management Waste Division Director, and state hazardous waste authorities of the discharge of such substance within 90 days of the effective date of such regulations.
- (d) In the case of any notification made under this section, the industrial User shall certify that it has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree it has determined to be economically practical.
- (e) This provision does not create a right to discharge any substance not otherwise permitted to be discharged by this subdivision, a permit issued thereunder, or any applicable federal and state law.

(Ord. No. 6894, § 6.9, 6-7-1993)

#### Sec. 42-548. - Analytical requirements.

All pollutant analyses, including sampling techniques, to be submitted as part of a wastewater discharge permit application or report shall be performed in accordance with the techniques prescribed in 40 CFR 136, unless otherwise specified in an applicable categorical pretreatment standard. If 40 CFR 136 does not contain sampling or analytical techniques for the pollutant in question, or where the EPA determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analyses must be performed by using validated analytical methods or any other applicable sample and analytical procedures, including procedures suggested the Director or in accordance with procedures approved by the EPA.

(Ord. No. 6894, § 6.10, 6-7-1993)

#### Sec. 42-549. - Sample collection.

Samples collected to satisfy reporting requirements must be based on data obtained through appropriate sampling and analysis performed during the period covered by the report, based on data that is representative of conditions occurring during the reporting period.

- (a) Except as indicated in Section (b) and (c) below, the User must collect wastewater samples using 24-hour flow-proportional composite sampling techniques, unless time-proportional composite sampling or grab sampling is authorized by the Director or designee. Where time-proportional composite sampling or grab sampling is authorized by the City, the samples must be representative of the discharge. Using protocols (including appropriate preservation) specified in 40 CFR Part 136 and appropriate EPA guidance, multiple grab samples collected during a 24-hour period may be

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composited prior to the analysis as follows: for cyanide, total phenols, and sulfides the samples may be composited in the laboratory or in the field; for volatile organics and oil and grease, the samples may be composited in the laboratory. Composite samples for other parameters unaffected by the compositing procedures as documented in approved EPA methodologies may be authorized by the City, as appropriate. In addition, grab samples may be required to show compliance with instantaneous limits.

- (b) Samples for oil and grease, temperature, pH, cyanide, phenols, toxicity, sulfides, and volatile organic chemicals must be obtained using grab collection techniques.
- (c) For sampling required in support of baseline monitoring and 90-day compliance reports required in sections 42-539 and 42-541[40 CFR 403.12(b) and (d)], a minimum of four (4) grab samples must be used for pH, cyanide, total phenols, oil and grease, sulfide and volatile organic compounds for facilities for which historical sampling data do not exist; for facilities for which historical sampling data are available, the Director or designee may authorize a lower minimum. For the reports required by paragraphs section 42-542 (40 CFR 403.12(e) and 403.12(h)), the Industrial User is required to collect the number of grab samples necessary to assess and assure compliance by with applicable pretreatment standards and requirements

(Ord. No. 6894, § 6.11, 6-7-1993)

#### Sec. 42-550. - Determination of noncompliance.

The Director may use a grab sample to determine noncompliance with pretreatment standards.

(Ord. No. 6894, § 6.12, 6-7-1993)

#### Sec. 42-551. – Date of Receipt of Reports.

Written reports will be deemed to have been submitted on the date postmarked. For reports, which are not mailed, postage prepaid, into a mail facility served by the U.S. Postal Service, the date of receipt of the report shall govern.

(Ord. No. 6894, § 6.13, 6-7-1993)

#### Sec. 42-552. - Record keeping.

Users subject to the reporting requirements of this ordinance shall retain, and make available for inspection and copying, all records of information obtained pursuant to any monitoring activities required by this ordinance, any additional records of information obtained pursuant to monitoring activities undertaken by the User independent of such requirements, and documentation associated with Best Management Practices established under section 42-419(b). Records shall include the date, exact place, method, and time of sampling, and the name of the person(s) taking the samples; the dates analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses. These records shall remain available for a period of at least three (3) years. This period shall be automatically extended for the duration of any litigation concerning the User or the City, or where the User has been specifically notified of a longer retention period by the Director.



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(Ord. No. 6894, § 6.14, 6-7-1993)

Secs. 42-553 Certification Statements

- (a) Certification of Permit Applications, User Reports and Initial Monitoring Waiver—The following certification statement is required to be signed and submitted by Users submitting permit applications in accordance with Section 42-476; Users submitting baseline monitoring reports under section 42-539(b)(5); Users submitting reports on compliance with the categorical Pretreatment Standard deadlines under section 42-541; Users submitting periodic compliance reports required by section 42-542 a–d, and Users submitting an initial request to forego sampling of a pollutant on the basis of Section 42-542(b)(4). The following certification statement must be signed by an Authorized Representative as defined in section 42-292:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

- (b) Annual Certification for Non-Significant Categorical Industrial Users—A facility determined to be a Non Significant Categorical Industrial User by the Director pursuant to 42-292 and 42-476(c) must annually submit the following certification statement signed in accordance with the signatory requirements in 1.4 C. This certification must accompany an alternative report required by the Director:

(1) Based on my inquiry of the person or persons directly responsible for managing compliance with the categorical Pretreatment Standards under 40 CFR \_\_\_\_\_, I certify that, to the best of my knowledge and belief that during the period from \_\_\_\_\_, \_\_\_\_\_ to \_\_\_\_\_, \_\_\_\_\_ [months, days, year]:

(a) The facility described as \_\_\_\_\_ [facility name] met the definition of a Non Significant Categorical Industrial User as described in 42-292; [Note: See 40 CFR 403.3(v)(2)]

(2) The facility complied with all applicable Pretreatment Standards and requirements during this reporting period; and (c) the facility never discharged more than 100 gallons of total categorical wastewater on any given day during this reporting period.

(3) This compliance certification is based on the following information.

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(c) Certification of Pollutants Not Present

Users that have an approved monitoring waiver based on section 42-542(b) must certify on each report with the following statement that there has been no increase in the pollutant in its wastestream due to activities of the User.

Based on my inquiry of the person or persons directly responsible for managing compliance with the Pretreatment Standard for 40 CFR \_\_\_\_\_ [specify applicable National Pretreatment Standard part(s)], I certify that, to the best of my knowledge and belief, there has been no increase in the level of \_\_\_\_\_ [list pollutant(s)] in the wastewaters due to the activities at the facility since filing of the last periodic report under section 42-542(a).

Secs. 42-554—42-578. - Reserved.

Subdivision VII. - Compliance Monitoring

Sec. 42-579. - Inspection and sampling.

The Director shall have the right to enter the facilities of any industrial User to ascertain whether the purpose of this subdivision, and any permit or order issued hereunder, is being met and whether the industrial User is complying with all requirements thereof. Industrial Users shall allow the Director or his representatives ready access to all parts of the premises for the purposes of inspection, sampling, records examination and copying, and the performance of any additional duties.

- (a) Where an industrial User has security measures in force which require proper identification and clearance before entry into its premises, the industrial User shall make necessary arrangements with its security guards so that, upon presentation of suitable identification, the Public Utilities Director, state, and EPA will be permitted to enter without delay, for the purposes of performing their specific responsibilities.
- (b) The Director shall have the right to set up on the industrial User's property, or require installation of, such devices as are necessary to conduct sampling or metering of the User's operations.
- (c) The Director may require the industrial User to install monitoring equipment as necessary. The facility's sampling and monitoring equipment shall be maintained at all times in a safe and proper operating condition by the industrial User at its own expense. All devices used to measure wastewater flow and quality shall be calibrated annually to ensure their accuracy.
- (d) Any temporary or permanent obstruction to safe and easy access to the industrial facility to be inspected or sampled shall be promptly removed by the industrial User at the written or verbal request of the Director and shall not be replaced. The costs of clearing such access shall be borne by the industrial User.
- (e) Unreasonable delays in allowing Director access to the industrial User's premises shall be violation of this subdivision.

(Ord. No. 6894, § 7.1, 6-7-1993)

Sec. 42-580. - Search warrants.

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If the Director has been refused access to a building, structure or property or any part thereof, and has demonstrated probable cause to believe that there may be a violation of this subdivision or that there is a need to inspect as part of a routine inspection program of the City designed to verify compliance with this subdivision or any permit or order issued hereunder, or to protect the overall public health, safety and welfare of the community, then upon application by the City attorney, the associate division court judge shall issue a search or seizure warrant describing therein the specific location subject to the warrant. The warrant shall specify what, if anything, may be searched or seized on the property described. Such warrant shall be served at reasonable hours by the Director in the company of a uniformed police officer of the City. In the event of an emergency affecting public health and safety, inspections shall be made without the issuance of a warrant.

(Ord. No. 6894, § 7.2, 6-7-1993)

Secs. 42-581—42-606. - Reserved.

#### Subdivision VIII. - Confidential Information

Sec. 42-607. - Information available to the public.

Information and data on an industrial User obtained from reports, surveys, wastewater discharge permit applications, wastewater discharge permits, and monitoring programs, and from Director's inspection and sampling activities, shall be available to the public without restriction, unless the industrial User specifically requests, and is able to demonstrate to the satisfaction of the Director, that the release of such information would divulge information, processes or methods of production entitled to protection as trade secrets under applicable state law. When requested and demonstrated by the industrial User furnishing a report that such information should be held confidential, the portions of a report that might disclose trade secrets or secret processes shall not be made available for inspection by the public, but shall be made available immediately upon request to governmental agencies for uses related to the NPDES program or pretreatment program, and in enforcement proceedings involving the person furnishing the report. Wastewater constituents and characteristics and other effluent data as defined by 40 CFR 2.302 will not be recognized as confidential information and will be available to the public without restriction.

(Ord. No. 6894, § 8, 6-7-1993)

Secs. 42-608—42-633. - Reserved.

#### Subdivision IX. - Publication of Industrial Users in Significant Noncompliance

Sec. 42-634. - List to be published annually.

The Director shall publish annually, in a newspaper of general circulation that provides meaningful public notice within the jurisdictions served by the City, a list of the industrial Users which, during the previous 12 months, were in significant noncompliance with applicable pretreatment standards and requirements. The term Significant Noncompliance shall be applicable to all Significant Industrial Users (or any other Industrial User that violates paragraphs (c), (d), or (h) of this section and shall mean:

- (a) Chronic violations of wastewater discharge limits, defined here as those in which 66 percent or more of all the wastewater measurements taken for the same pollutant parameter taken during a six-

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month period exceeds (by any amount) a numeric Pretreatment Standard or Requirement, including Instantaneous Limit, as defined in Division 5, Subdivision II;

- (b) Technical review criteria (TRC) violations, defined here as those in which 33 percent or more of wastewater measurements taken for each pollutant parameter during a six-month period equals or exceeds the product of the numeric Pretreatment Standard or Requirement including Instantaneous Limits multiplied by the applicable criteria (1.4 for BOD, TSS, fats, oils, and grease, and 1.2 for all other pollutants except pH);
- (c) Any other discharge violation of a Pretreatment Standard or Requirement as defined by Division 5, Subdivision II (Daily Maximum, long-term average, Instantaneous Limit, or narrative standard), that the Director believes has caused, alone or in combination with other discharges, Interference or Pass Through, including endangering the health of City personnel or the general public;
- (d) Any discharge of pollutants that has caused imminent endangerment to the public or to the environment, or has resulted in the Director's exercise of its emergency authority to halt or prevent such a discharge;
- (e) Failure to meet, within ninety (90) days of the scheduled date, a compliance schedule milestone contained in a wastewater discharge permit or enforcement order for starting construction, completing construction, or attaining final compliance;
- (f) Failure to provide, within forty-five (45) days after the due date, any required reports, including baseline monitoring reports, 90 day compliance reports, periodic self-monitoring reports, and reports on compliance with compliance schedules;
- (g) Failure to accurately report noncompliance;
- (h) Any other violation, which may include Best Management Practices, which the Director determines will adversely affect the operation of implementation of the local pretreatment program.

(Ord. No. 6894, § 9, 6-7-1993)

Secs. 42-635—42-660. - Reserved.

Subdivision X. - Administrative Enforcement Remedies

Sec. 42-661. - Notification of violation.

Whenever the Director finds that any User has violated or is violating this subdivision, a wastewater discharge permit or order issued hereunder, or any other pretreatment requirement, the Director or his agent may serve upon the User a written notice of violation. Within 15 days of the receipt of this notice, an explanation of the violation and a plan for the satisfactory correction and prevention thereof, to include specific required actions, shall be submitted by the User to the Director. Submission of this plan in no way relieves the industrial User of liability for any violations occurring before or after receipt of the notice of violation. Nothing in this section shall limit the authority of the Director to take any action, including emergency actions or any other enforcement action, without first issuing a notice of violation.

(Ord. No. 6894, § 10.1, 6-7-1993)

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#### Sec. 42-662. - Consent orders.

The Director is hereby empowered to enter into consent orders, assurances of voluntary compliance, or other similar documents establishing an agreement with any User responsible for noncompliance. Such orders will include specific action to be taken by the User to correct the noncompliance within a time period also specified by the order. Consent orders shall have the same force and effect as the administrative orders issued pursuant to sections 42-664 and 42-665 and shall be judicially enforceable.

(Ord. No. 6894, § 10.2, 6-7-1993)

#### Sec. 42-663. - Show cause hearing.

The Director may order any User which causes or contributes to violations of this subdivision, wastewater discharge permits, or orders issued hereunder, or any other pretreatment standard or requirement, to appear before the Director and show cause why a proposed enforcement action should not be taken. Notice shall be served on the User specifying the time and place for the meeting, the proposed enforcement action, the reasons for such action, and a request that the User show cause why this proposed enforcement action should not be taken. The notice of the meeting shall be served personally or by registered or certified mail (return receipt requested) at least 14 days prior to the hearing. Such notice may be served on any authorized representative of the User. Whether or not the User appears as ordered, immediate enforcement action may be pursued following the hearing date. Such notice may be served on any Authorized Representative of the User as defined in section 42-292 and required by section 42-475(a). A show cause hearing shall not be a prerequisite for taking any other action against the User.

(Ord. No. 6894, § 10.3, 6-7-1993)

#### Sec. 42-664. Compliance orders.

When the Director finds that a User has violated or continues to violate the subdivision, wastewater discharge permits or orders issued hereunder, or any other pretreatment standard or requirement, he may issue an order to the User responsible for the discharge directing that the User come into compliance within five days. If the User does not come into compliance within 30 days, sewer service shall be discontinued unless adequate treatment facilities, devices, or other related appurtenances are installed and properly operated. Compliance orders may also contain other requirements to address the noncompliance, including additional self-monitoring, and management practices designed to minimize the amount of pollutants discharged to the sewer. A compliance order may not extend the deadline for compliance established for a federal pretreatment standard or requirement, nor does a compliance order release the User of liability for any violation, including any continuing violation. Issuance of a compliance order shall not be a prerequisite to taking any other action against the User.

(Ord. No. 6894, § 10.4, 6-7-1993)

#### Sec. 42-665. Cease and desist orders.

When the Director finds that a User is violating this subdivision, the User's wastewater discharge permit, any order issued hereunder, or any other pretreatment standard or requirement, or that the User's

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past violations are likely to recur, the Director may issue an order to the User directing it to cease and desist all such violations and directing the User to:

- (1) Immediately comply with all requirements.
- (2) Take such appropriate remedial or preventive action as may be needed to properly address a continuing or threatened violation, including halting operations or terminating the discharge. Issuance of a cease and desist order shall not be a prerequisite to taking any other action against the User.

(Ord. No. 6894, § 10.5, 6-7-1993)

Sec. 42-666. - Administrative fines.

- (a) Notwithstanding any other section of this subdivision, any User that is found to have violated any provision of this subdivision, its wastewater discharge permit, and orders issued hereunder, or any other pretreatment standard or requirement shall be fined in an amount not to exceed \$1,000.00. Such fines shall be assessed on a per violation, per day basis. In the case of monthly or other long term average discharge limits, fines shall be assessed for each day during the period of violation.
- (b) Assessments may be added to the User's next scheduled sewer service charge and the Director shall have such other collection remedies as may be available for other service charges and fees.
- (c) Unpaid charges, fines, and penalties shall, after 30 calendar days, be assessed an additional penalty of percent five percent (5%) of the unpaid balance and interest shall accrue thereafter at a rate of one percent (1%) per month. A lien against the individual User's property will be sought for unpaid charges, fines, and penalties.
- (d) Users desiring to dispute such fines must file a written request for the Director to reconsider for the fine along with full payment of the fine amount within 30 days of being notified of the fine. Where a request has merit, the Director shall convene a hearing on the matter within 20 days of receiving the request from the industrial User. In the event the User's appeal is successful, the payment together with an interest accruing thereto shall be returned to the industrial User. The Director may add the costs of preparing administrative enforcement actions such as notices and orders to the fine.
- (e) Issuance of an administrative fine shall not be a prerequisite for taking any other action against the User.

(Ord. No. 6894, § 10.6, 6-7-1993)

Sec. 42-667. - Emergency suspensions.

- (a) The Director may immediately suspend a User's discharge (after informal notice to the User) whenever such suspension is necessary in order to stop an actual or threatened discharge which reasonably appears to present or cause an imminent or substantial endangerment to the health or welfare of persons. The Director may also immediately suspend a User's discharge (after notice and opportunity to respond) that threatens to interfere with the operation of the POTW, or which presents or may present an endangerment to the environment.
  - (1) Any User notified of a suspension of its discharge shall immediately stop or eliminate its contribution. In the event of a User's failure to immediately comply voluntarily with the

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suspension order, the Director shall take such steps as deemed necessary, including immediate severance of the sewer connection, to prevent or minimize damage to the POTW, its receiving stream, or endangerment to any individuals. The Director shall allow the User to recommence its discharge when the User has demonstrated to the satisfaction of the City that the period of endangerment has passed, unless the termination proceedings set forth in section 42-668 are initiated against the User.

- (2) A User that is responsible, in whole or in part, for any discharge presenting imminent endangerment shall submit a detailed written statement describing the causes of the harmful contribution and the measures taken to prevent any future occurrence to the Director, prior to the date of any show cause or termination hearing under sections 42-663 and 42-667.
- (b) Nothing in this section shall be interpreted as requiring a hearing prior to any emergency suspension under this section.

(Ord. No. 6894, § 10.7, 6-7-1993)

Sec. 42-668. - Termination of discharge.

- (a) In addition to those provisions in section 42-510, any User that violates the following conditions of this subdivision, wastewater discharge permits, or orders issued hereunder, is subject to discharge termination:
  - (1) Violation of wastewater discharge permit conditions.
  - (2) Failure to accurately report the wastewater constituents and characteristics of its discharge.
  - (3) Failure to report significant changes in operations or wastewater volume, constituents and characteristics prior to discharge.
  - (4) Refusal of reasonable access to the User's premises for the purpose of inspection, monitoring or sampling.
  - (5) Violation of the pretreatment standards in section 42-416.
- (b) Such User will be notified of the proposed termination of its discharge and be offered an opportunity to show cause under section 42-663 why the proposed action should not be taken.

(Ord. No. 6894, § 10.8, 6-7-1993)

Secs. 42-669—694. - Reserved.

Subdivision XI. - Judicial Enforcement Remedies

Sec. 42-695. - Injunctive relief.

Whenever a User has violated a pretreatment standard or requirement or continues to violate the provisions of this subdivision, wastewater discharge permits or orders issued hereunder, or any other pretreatment requirement, the Director may petition the Randolph County Circuit Court through the City's attorney for the issuance of a temporary or permanent injunction, as appropriate, which restrains or compels the specific performance of the wastewater discharge permit, order, or other requirement imposed by this subdivision on activities of the industrial User. Such other action as appropriate for legal



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or equitable relief may also be sought by the Director. A petition for injunctive relief need not be filed as a prerequisite to taking any other action against a User.

(Ord. No. 6894, § 11.1, 6-7-1993)

Sec. 42-696. - Civil penalties.

- (a) A User which has violated or continues to violate this subdivision, any order or wastewater discharge permit hereunder, or any other pretreatment standard or requirement, shall be liable to the City for a maximum civil penalty of (minimum \$1,000.00) per violation per day. In the case of a monthly or other long-term average discharge limit, penalties shall accrue for each day during the period of the violation.
- (b) The Director may recover reasonable attorney's fees, court costs, and other expenses associated with enforcement activities, including sampling and monitoring expenses, and the cost of any actual damages incurred by the City.
- (c) In determining the amount of civil liability, the court shall take into account all relevant circumstances, including, but not limited to, the extent of harm caused by the violation, the magnitude and duration, any economic benefit gained through the User's violation, corrective actions by the User, the compliance history of the User, and any other factor as justice requires.
- (d) Filing a suit for civil penalties shall not be a prerequisite for taking any other action against a User.

(Ord. No. 6894, § 11.2, 6-7-1993)

Sec. 42-697. - Criminal prosecution.

- (a) Any User that willfully or negligently violates any provision of this subdivision, any orders or wastewater discharge permits issued hereunder, or any other pretreatment requirement, shall, upon conviction, be guilty of a misdemeanor, punishable by a fine of not more than \$1,000.00 per violation per day or imprisonment for not more than six months or both.
- (b) Any User that willfully or negligently introduces any substance into the POTW which causes personal injury or property damage shall, upon conviction, be guilty of a misdemeanor and be subject to a penalty of at least \$1,000.00 or be subject to imprisonment for six months. This penalty shall be in addition to any other cause of action for personal injury or property damage available under state law.
- (c) Any User that knowingly makes any false statements, representations, or certifications in any application, record, report, plan or other documentation filed, or required to be maintained, pursuant to this subdivision, wastewater discharge permit or order, or who falsifies, tampers with or knowingly renders inaccurate any monitoring device or method required under this subdivision shall, upon conviction, be punished by a fine of not more than \$1,000.00 per violation per day or imprisonment for not more than six months or both.
- (d) In the event of a second conviction, a User shall be punished by a fine of not more than \$1000.00 per violation per day or imprisonment for not more than one year, or both.

(Ord. No. 6894, § 11.3, 6-7-1993)



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Sec. 42-698. - Remedies nonexclusive.

The provisions in subdivisions IX through XII of this division are not exclusive remedies. The Director reserves the right to take any, all, or any combination of these actions against a noncompliant User. Enforcement of pretreatment violations will generally be in accordance with the City's enforcement response plan. However, the Director reserves the right to take other action against any User when the circumstances warrant. Further, the Director is empowered to take more than one enforcement action against any noncompliant User. These actions may be taken concurrently.

(Ord. No. 6894, § 11.4, 6-7-1993)

Secs. 42-699—42-723. - Reserved.

## Subdivision XII. - Supplemental Enforcement Action

### Sec. 42-724. – Penalties for Late Reports

A penalty of twenty-five dollars (\$25) may be assessed to any User for each day that a report required by this ordinance, a permit or order issued hereunder is late, beginning five days after the date of the report is due. Actions taken by the Director to collect late reporting penalties shall not limit the Director's authority to initiate other enforcement actions that may include penalties for late reporting violations.

### Sec. 42-725. - Performance bonds.

The Director may decline to issue or reissue a wastewater discharge permit to any User which has failed to comply with the provisions of this subdivision, any orders, or a previous wastewater discharge permit issued hereunder, unless such User first files a satisfactory bond, payable to the City, in a sum not to exceed a value determined by the Director to be necessary to achieve consistent compliance.

(Ord. No. 6894, § 12.1, 6-7-1993)

### Sec. 42-726. - Water supply severance.

Whenever a User has violated or continues to violate the provisions of this subdivision, orders, or wastewater discharge permits issued hereunder, water service to the User may be severed. Service will only recommence, at the User's expense, after it has satisfactorily demonstrated its ability to comply.

(Ord. No. 6894, § 12.2, 6-7-1993)

### Sec. 42-727. - Payment of Outstanding Fees and Penalties

The Director or designee may decline to issue or reissue an individual wastewater discharge permit to any User who has failed to pay any outstanding fees, fines or penalties incurred as a result of any provision of this ordinance, a previous individual wastewater discharge permit or order issued hereunder.

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Secs. 42-728—42-753. - Reserved.

### Subdivision XIII. - Affirmative Defenses to Discharge Violations

Sec. 42-754. - Upset.

- (a) For the purposes of this section, the term "upset" means an exceptional incident in which there is unintentional and temporary noncompliance with categorical pretreatment standards because of factors beyond the reasonable control of the industrial User. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- (b) An upset shall constitute an affirmative defense to an action brought for noncompliance with categorical pretreatment standards if the requirements of subsection (c) of this section are met.
- (c) An industrial User who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - (1) An upset occurred and the industrial User can identify the cause of the upset;
  - (2) The facility was at the time being operated in a prudent and workmanlike manner and in compliance with applicable operation and maintenance procedures;
  - (3) The industrial User has submitted the following information to the POTW and treatment plant operator within 24 hours of becoming aware of the upset (if this information is provided orally, a written submission must be provided within five days):
    - a. A description of the indirect discharge and cause of noncompliance;
    - b. The period on noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue;
    - c. Steps being taken or planned to reduce, eliminate and prevent recurrence of the non-compliance.
- (d) In any enforcement proceeding, the industrial User seeking to establish the occurrence of an upset shall have the burden of proof.
- (e) Industrial Users will have the opportunity for a judicial determination on any claim of upset only in an enforcement action brought for noncompliance with categorical pretreatment standards.
- (f) The industrial User shall control production of all discharges to the extent necessary to maintain compliance with categorical pretreatment standards upon reduction, loss, or failure of its treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost or fails.

(Ord. No. 6894, § 13.1, 6-7-1993)

Sec. 42-755. – Prohibited Discharge Standards

An industrial User shall have an affirmative defense to an enforcement action brought against it for noncompliance with the general prohibitions in section 42-416 if it can prove that it did not know or have

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reason to know that its discharge, along or in conjunction with discharges from other sources, would cause pass through or interference and that either:

- (a) A local limit exists for each pollutant discharged and the industrial User was in compliance with each limit directly prior to, and during the pass through or interference; or
- (b) No local limit exists, but the discharge did not change substantially in nature or constituents from the User's prior discharge when the City was regularly in compliance with its NPDES permit, and in the case of interference, was in compliance with applicable sludge use or disposal requirements.

(Ord. No. 6894, § 13.2, 6-7-1993)

Sec. 42-756. - Bypass.

- (a) Definitions. The following words, terms and phrases, when used in this section, shall have the meanings ascribed to them in this subsection, except where the context clearly indicates a different meaning:
  - (1) *Bypass* means the intentional diversion of wastestreams from any portion of an industrial User's treatment facility.
  - (2) *Severe property damage* means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- (b) A User may allow any bypass to occur which does not cause pretreatment standards or requirements to be violated, but only if it also is for essential maintenance to ensure efficient operation. These bypasses are not subject to the provision of subsections (c) and (d) of this section.
- (c) If an industrial User knows in advance of the need for a bypass, it shall submit prior notice to the POTW, at least ten (10) days before the date of the bypass, if possible. An industrial User shall submit oral notice of an unanticipated bypass that exceeds applicable pretreatment standards to the POTW within 24 hours from the time it becomes aware of the bypass. A written submission shall also be provided within five days of the time the industrial User becomes aware of the bypass. The written submission shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times, and, if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass. The POTW may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- (d) Bypass is prohibited, and the POTW may take enforcement action against an industrial User for a bypass, unless:
  - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
  - (2) There was no feasible alternative to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
  - (3) The industrial User submitted notices as required under subsection (c) of this section.

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- (e) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in subsection (d) of this section.

Subdivision XIV: Wastewater Treatment Rates [Reserved]

(Ord. No. 6894, § 13.3, 6-7-1993)

Secs. 42-757—42-822. - Reserved.

Secs. 42-823—42-837. - Reserved.

## DIVISION 6. - RATES, CHARGES AND COST RECOVERY

Sec. 42-838. - Review of sewer rates; disposition of funds.

- (a) The sewer rates will be reviewed every two years and revised as necessary to ensure that the system generates adequate revenues to pay the costs of operation and maintenance including replacement and that the system continues to provide for the proportional distribution of operation and maintenance including replacement costs among Users and User classes. A portion of the total sewer User charge shall be designated for operation and maintenance, including replacement purposes, and shall be deposited in a separate nonlapsing fund known as the operation, maintenance and replacement fund and will be kept in two primary accounts as follows:
- (1) An account designated for the specific purpose of defraying operation and maintenance costs of the treatment works (operation and maintenance account).
  - (2) An account designated for the specific purpose of ensuring replacement needs over the useful life of the treatment works (replacement account). Deposits in the replacement account shall be made annually from the operation, maintenance and replacement revenue in the amount of \$8,575.00.

(Code 1965, § 30-25.1; Code 1987, § 28-97)

### Sec. 42-839. - Pretreatment charges and fees.

The City may adopt reasonable charges and fees for reimbursement of costs of setting up and operating the City's pretreatment program which may include:

- (a) Fees for wastewater discharge permit applications, including the cost of processing such applications.
- (b) Fees for monitoring, inspection, and surveillance procedures, including the cost of collection and analyzing an industrial User's discharge, and reviewing monitoring reports submitted by industrial Users.
- (c) Fees for reviewing and responding to accidental discharge procedures and construction.

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(d) Fees for filing appeals.

(e) Fees to recover administrative and legal costs (not included in Section 42-439(b)) associated with enforcement activity taken by the Director to address IU noncompliance.

(f) Other fees as the City may deem necessary to carry out the requirements contained herein. These fees relate solely to the matters covered by this subdivision and are separate from all other fees, fines and penalties chargeable by the City.

(Ord. No. 6894, § 15.1, 6-7-1993)

# CITY OF MOBERLY

## Industrial Pretreatment Program

FALL 2021 City Council Handout

### What is a Pretreatment Program?

The General Pretreatment Standards were promulgated by EPA in 1983 under the Clean Water Act. The City of Moberly Wastewater Treatment Plant (WWTP) is required to meet effluent limits for wastewater discharged into a tributary of Coon Creek. By having a Pretreatment Program, Moberly is able to regulate the industrial discharges into its system to protect its WWTP.

### What is Being Updated?

#### LEGAL AUTHORITY

The City of Moberly is authorized in their WWTP permit from the state to implement a pretreatment program. The legal authority for the City of Moberly must be adopted as part of the city code. This gives the City the ability to permit the industries, inspect the industries, monitor the industries, and enforce the program requirements.

The city code was updated to adopt "Streamlining" regulations promulgated by EPA in 2005. These regulations are intended to provide the City and industries with more flexibility in implementation. Examples include authority to grant waivers for any categorical pollutant and the authority to require best management practices to meet local limits.

#### ENFORCEMENT RESPONSE PLAN

The City of Moberly must also provide a method of consistent and appropriate enforcement of the Pretreatment Program. DNR requires that an Enforcement Response Plan (ERP) be developed and implemented by the

City to ensure that different types of violations are addressed. The ERP defines actions Moberly must take in response to violations. The objective of the ERP is to provide consistent enforcement for all types of violations. The ERP also defines the required responses of the industry for each type of violation.

The city code is referenced throughout the ERP with specific consideration to the fine amounts and the personnel required to respond to the escalating enforcement actions.

#### LOCAL LIMIT CALCULATIONS

Local Limits are also in the process of being updated. The code includes a "reserved" section which may be used depending on the results of the calculations which are currently being evaluated. The calculations include specific information from the wastewater plant such as the design capacity (hydraulic/flow, pollutants, etc.) and how pollutants are removed through the treatment plant. The calculations ensure permit limits, stream criteria, and biosolids are protected.

#### PROCEDURES

The City's Pretreatment Program will use standard forms and templates to help facilitate the implementation of the program. Examples include permit applications, formats for notices of violations, reporting templates for industries, etc.

#### FUNDING AND SUPPORT

In order for the City of Moberly to implement their Pretreatment Program, they must have the continued support for the authority and the funding

*Continued*

### Pretreatment Program Components

- + Legal Authority
- + ERP
- + Local Limit Calculations
- + Procedures
- + Funding and Support
- + List of Significant Industrial Users

### The City of Moberly's Responsibilities Include:

- + Identifying and locating all IUs subject to the pretreatment program
- + Identifying the character and volume of pollutants contributed by such users
- + Notifying users of applicable pretreatment standards and requirements
- + Receiving and analyzing reports from IUs
- + Sampling and analyzing IU discharges
- + Evaluating the need for IU slug control plans
- + Investigating instances of noncompliance
- + Complying with public participation requirements

## Funding and Support Continued

necessary to implement the program. This includes monitoring (Moberly is required to “cross-check” the industries for the pollutants of concern and they must monitor the WWTP and biosolids), personnel for the day-to-day and escalated responsibilities of enforcement of the program (inspections, violations, legal action).

The City of Moberly will initially “endorse” the submittal of the program modifications to the State. Once approved by DNR they will be public noticed for 30 days if DNR determines that these edits are considered a substantial modification to the program. DNR will approve the changes once it comes off public notice in consideration of any comments. The City will then adopt the revised code.

## LIST OF SIGNIFICANT INDUSTRIAL USERS

Publicly Owned Treatment Works (POTW) must identify and locate all Industrial Users (IUs) that might be subject to the pretreatment program. The POTW must also prepare and maintain a list of its Significant Industrial Users (SIUs).

## What’s next?

- + After the revised code is adopted, Moberly will need to re-issue permits for the industries which incorporate the new legal authority.
- + Complete Local Limit calculations and submit to the State for approval and incorporate into the City code as relevant.

## Take-Home Messages

- + The Pretreatment Program is required by the State and adequate resources must be provided to appropriately implement the program.
- + This program update incorporates required and optional changes but those optional provisions allow the City of Moberly more flexibility in the implementation of the program.

## Definitions

**Allocation:** The portion of allowable loading designated to an industry.

**BOD:** Biological Oxygen Demand – measure of how much “food” is in the wastewater.

**Categorical User:** A type of Significant Industrial User (SIU) which is specifically regulated by EPA based on the type of manufacturing process. Examples include metal finishers and pharmaceutical manufacturers.

**Conventional Pollutants:** BOD, TKN, TSS

**Domestic Wastewater:** Wastewater from non-industrial sources such as houses, commercial buildings, apartments (residential).

**Effluent:** The wastewater that discharges from your WWTP. Treated wastewater.

**ERP:** Enforcement Response Plan

**Headworks:** This is the front end of the WWTP. In the “headworks” building you typically have influent pumps, an influent screen, etc., where you monitor influent loading.

**Influent:** The wastewater that comes into the headworks/enters the WWTP. Untreated wastewater.

**Loading:** What you send to the WWTP; arrives at your “headworks”.

**Local Limits:** A “local limit” converts the MAIL into a uniform concentration. It limits the pollutant concentration to protect the POTW. Based on local conditions such as the State Operating Permit, water quality criteria, sludge disposal requirements.

**MAHL:** Maximum Allowable Headworks Loading – what comes into your plant. Includes domestic and industrial sources. The MAHL is defined in the City’s operating permit from the state.

**MAIL:** Maximum Allowable Industrial Loading – industrial load that comes into your plant. Excludes domestic. The MAIL is calculated after you subtract off allowances for residential/ domestic sources of wastewater units are pounds per day – takes into account the flow and concentration.

**POCs:** Pollutants of concern include arsenic, cadmium, chromium, copper, cyanide, lead, mercury, molybdenum, nickel, selenium, silver and zinc.

**POTW:** Publicly Owned Treatment Works – includes the wastewater treatment plant, collection system (pipes, force mains, lift stations, pumps, etc.).

**Significant Industrial User (SIU):** A non-domestic discharger which discharges more than 25,000 gpd of process wastewater or contributes more than 5% of the hydraulic or organic (BOD) capacity of the POTW. Also includes Categorical dischargers and dischargers which are otherwise determined to have the ability to impact the City’s POTW.

**Slug Discharge:** Any discharge of a nonroutine, episodic nature, including an accidental spill or a noncustomary batch discharge that has a reasonable potential to cause interference or pass through, or in any other way violate the POTW’s regulations, local limits, or permit conditions. In other words a chemical spill or other discharge that can kill the City’s bugs that treat the wastewater.

**TSS:** Total Suspended Solids

**TKN:** Total Kjeldahl Nitrogen – Nitrogen is in protein (blood), amino acids, air (78%). TKN is part of the nitrogen cycle.

**WWTP:** Wastewater Treatment Plant



# City of Moberly

## City Council Agenda Summary

Agenda Number: #13.

Department: Administration

Date: October 18, 2021

**Agenda Item:** A Resolution Approving A Lease Agreement With Marine Toys For Tots Foundation For Property Located At 218 W Reed Street And Authorizing The City Manager To Execute The Lease.

**Summary:** Toys for Tots has requested the use of 218 W. Reed for their 2021 collection, and distribution, campaign. They have agreed to enter into a lease with the city beginning October 1, 2021 through December 31, 2021. The lease agreement presented sets forth the rights and liabilities of the participating parties. Toys for Tots is agreeable to paying \$1 for each month the unit is rented.

**Recommended Action** Approve this resolution.

**Fund Name:**

**Account Number:**

**Available Budget \$:**

### ATTACHMENTS:

<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input checked="" type="checkbox"/> Proposed Resolution
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____

### Roll Call

**Aye** **Nay**

### Mayor

M\_\_\_ S\_\_\_ **Jeffrey** \_\_\_\_\_

### Council Member

M\_\_\_ S\_\_\_ **Brubaker** \_\_\_\_\_

M\_\_\_ S\_\_\_ **Kimmons** \_\_\_\_\_

M\_\_\_ S\_\_\_ **Davis** \_\_\_\_\_

M\_\_\_ S\_\_\_ **Kyser** \_\_\_\_\_

Passed Failed



BILL NO. \_\_\_\_\_

RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION APPROVING A LEASE AGREEMENT WITH MARINE TOYS FOR TOTS FOUNDATION FOR PROPERTY LOCATED AT 218 W REED STREET AND AUTHORIZING THE CITY MANAGER TO EXECUTE THE LEASE.**

**WHEREAS**, Marine Toys for Tots Foundation is desirous of renting retail office space from the city at 218 W Reed Street for a charitable holiday fund raising venture; and

**WHEREAS**, it is desirable to the city to have tenants using retail business space in the downtown Moberly and to assist charitable fundraising; and

**WHEREAS**, the lease agreement attached hereto provides for a lease term beginning October 19, 2021 and ending December 31, 2021 and sets forth the rights and liabilities of the parties.

**NOW, THEREFORE**, the lease agreement with Marine Toys for Tots Foundation is hereby approved and the City Manager is hereby authorized to execute the Agreement on behalf of the City of Moberly, Missouri.

**RESOLVED** this 18th day of October, 2021, by the Council of the City of Moberly, Missouri.

\_\_\_\_\_  
Presiding Officer at Meeting

**ATTEST:**

\_\_\_\_\_  
Shannon Hance, City Clerk

OFFICE LEASE  
CITY OF MOBERLY, MISSOURI  
218 WEST REED STREET

THIS LEASE is made this \_\_\_\_ day of \_\_\_\_\_, 2021, between the City of Moberly, Missouri, (hereinafter "City") a municipal corporation and Marine Toys for Tots Foundation (hereinafter "Lessee").

**RECITALS**

- A. City is a Third-Class statutory city duly organized and validly existing under the laws of the state of Missouri with the power to conduct municipal business pursuant to Missouri law and the Ordinances duly enacted by the Moberly City Council.
- B. City is the owner of various downtown retail buildings which are available to local businesses to rent.
- C. City leases office space in a building at 218 W Reed Street and desires to lease said space to Lessee.
- D. Lessee is desirous of operating a charitable holiday fundraising venture.

**AGREEMENT**

**SECTION 1. RECITALS**

The above stated Recitals are true and correct and are incorporated herein and made a part of this Lease agreement (hereinafter "Agreement").

**SECTION 2. PREMISES**

City hereby leases to Lessee, and Lessee hereby leases from City, the office space located at 218 W. Reed Street, Moberly, Missouri 65270 (hereinafter the "Premises"). Lessee accepts the Premises "As Is," subject to all applicable municipal, state and federal laws, ordinances, regulations and policies governing and regulating the use of the Premises, and any covenants or restrictions of record. Lessee acknowledges that City has made no representations or warranties as to the physical state of the Premises, or any suitability of the Premises.

2.1 Waiver. Lessee hereby waives any claims for damages for any injury or inconvenience or interference with Lessee's use and occupancy of the Premises, any loss of occupancy or quiet enjoyment of the Premises or any other loss occasioned by City's exercise of its rights under this Agreement or by the City's actions taken for management and protection of the City's property resources and visitors.

2.2 Ownership of Premises. This Agreement does not vest in Lessee any fee interest in the Premises. Title to the Premises at all times is with and shall remain solely with City.

**SECTION 3. TERM**

3.1 The term of the lease shall be from October 19, 2021 to December 31, 2021.

3.2 Renewal. This lease shall not be automatically renewed.

3.3 Abandonment. Lessee shall occupy the Premises during the entire Lease Term, as described herein. If it fails to do so, Lessee may be determined as in default for abandoning the Premises.

**SECTION 4. RENTAL AMOUNT**

4.1 Monthly. Lessee shall pay One Dollar each month during the term of this lease.

**SECTION 5. LESSEE'S PERMITTED USE AND ACTIVITY**

5.1 Use. Lessee may utilize the Premises only for the purposes necessary to conduct its usual business operations. Lessee intends to operate a charitable fundraising venture.

5.2 Access and Key. Lessee shall be issued a key. Lessee shall be charged \$20 to replace a door key.

5.3 Alterations. Lessee shall not make any alterations of any nature to the Premises without the written permission of the City.

**SECTION 6. CITY'S OBLIGATIONS**

6.1 City Inspection. City shall, at all reasonable times, have the full and unrestricted right to enter the Premises for the purpose of inspecting the leased area, for maintenance and to determine compliance with the terms of this Agreement.

6.2 Maintenance. City agrees to maintain the leased Premises in the same condition as when leased, ordinary wear and tear excepted, during the term of this Agreement.

6.3 Trash Disposal. Lessee shall be responsible for set up and payment of trash service.

6.4 Utilities. Lessee shall be responsible for set up and payment of all utilities used at the premises including internet or phone service.

**SECTION 7. ASSIGNMENT**

7.1 Lessee shall not assign, hypothecate, or in any manner transfer any interest in this Agreement to any person or entity directly or indirectly, by operation of law or otherwise, without first securing City's express written approval of such transfer.

**SECTION 8. LIABILITY**

8.1 To the extent governed by applicable state law, each party will be responsible for its own acts and results arising from those actions, and shall not be responsible for the acts of the other party and results arising from those actions.

8.2 Each party agrees, to the extent allowed by law, that it will assume all risk and liability to itself and its agents and employees for any cause of action resulting from any operations or conduct of its agents or employees under this Agreement. Each party's liabilities shall be governed by applicable state law.

8.3 Lessee agrees to indemnify and hold the city harmless for any claim, causes of action, or judgement resulting from Lessee's use of the property or injury or damage to any third party.

## **SECTION 9. INSURANCE**

9.1 Lessor. Lessee agrees to maintain Commercial General Liability coverage for the structure in an amount not less than \$1,000,000 per occurrence.

9.2 Lessee. Lessee shall be responsible for maintaining renter's insurance or business interruption coverage, if desired.

9.3 Immunities. The parties hereto understand and agree that City is relying on and does not waive or intend to waive by any provision of this Agreement, any monetary limitations or any other applicable sovereign, governmental, or official immunities and protections provided by the state of Missouri, from time to time as amended, or otherwise available to City, or its elected officials or employees.

## **SECTION 10. DAMAGE OR DESTRUCTION**

If the Premises or any portion thereof are damaged or destroyed at any time during the lease term, the City, as promptly as reasonably practicable and with all due diligence, shall repair or replace the damaged or destroyed Premises to the condition that existed prior to the damage or destruction and the Lessee's rent obligation during that time shall be abated. Or the City may terminate this Agreement without liability and the Lessee's rental obligation shall terminate.

## **SECTION 11. DEFAULTS**

The occurrence of any one or more of the following events shall constitute a material default and breach of this lease Agreement by Lessee:

- A. The failure by Lessee to make any payment of Rent; or any other payment required to be made by Lessee hereunder, as and when due, where such failure shall continue for a period of ten (10) calendar days after written notice from City to Lessee.
- B. The failure by Lessee to comply with Section 5.3 of this Agreement.
- C. An unapproved or unauthorized transfer of any interest acquired under this Agreement.

- D. The occurrence of any other event described as constituting an “Event of Default” elsewhere in this Agreement.
- E. The discovery by City that any material information provided by Lessee related to this Agreement is materially false.

## **SECTION 12. REMEDIES**

In the event of any material default or breach by Lessee, City may at any time thereafter, with or without notice or demand and without limiting City in the exercise of any right or remedy which City may have by reason of such default or breach, avail itself of the following remedies, which are cumulative and not exclusive:

- A. City may recover possession of the leased Premises by any lawful means available to it, including self-entry, in which case this lease Agreement shall terminate immediately and Lessee shall immediately remove all personal property from the Premises. If, after thirty days’ notice in writing, Lessee shall fail to remove personal property City may remove such property to another location with Lessee assuming any risk of loss or damage to such property.

## **SECTION 13. TERMINATION**

This lease Agreement is terminable with or without cause by either party upon thirty (30) calendar days written notice setting forth a date of termination of the Agreement. Upon notice of termination, Lessee shall be obligated to pay immediately any Rent , obligations or other fees due and owing to City. By the date given for termination, Lessee shall vacate the Premises and immediately remove all personal property.

If Lessee fails to vacate the Premises or fails to remove all personal property from the Premises, City may enter and recover possession. City may also, at its election, dispose of any remaining personal property and charge all costs associated with such disposal to Lessee. City shall deem any personal property remaining on the Premises as having been abandoned by Lessee.

## **SECTION 14. NOTICES**

All notices, demands, requests or approvals to be given under this lease Agreement shall be given in writing and shall be by hand delivery, overnight mail service, registered or certified mail, or regular first-class mail. All notices, demands, requests or approvals from Lessee to City shall be addressed to:

Brian Crane  
City Manager  
101 West Reed Street  
Moberly, MO 65270

All notices, demands, requests or approvals from City to Lessee shall be addressed to:

**SECTION 15. MUNICIPAL AUTHORITY**

City may only act through its City Council to approve this Agreement therefore execution of this Agreement is contingent upon approval by the Moberly City Council.

**SECTION 16. GOVERNING LAW**

This lease Agreement has been made and shall be construed and interpreted in accordance with the laws of the State of Missouri. Venue may be appropriate in the Randolph County Circuit Court.

**SECTION 17. EMPLOYMENT OF UNAUTHORIZED ALIENS PROHIBITED**

Lessee agrees to comply with Missouri Revised Statute Section 285.530 in that Lessee shall not knowingly employ, hire for employment, or continue to employ an unauthorized alien to perform work within the State of Missouri.

**SECTION 18. PUBLIC RECORDS ACT**

City is subject to the Missouri Sunshine Law. The Parties agree that this Agreement shall be interpreted in accordance with the provisions of the Missouri Sunshine Law.

**SECTION 19. ENTIRE AGREEMENT**

This Agreement represents the entire agreement between the Parties relative to the lease. All previous or contemporaneous contracts, representations, promises and conditions relating to the lease are superseded.

**SECTION 15. COUNTERPARTS**

This lease Agreement may be executed in several counterparts, each of which is an original, and all of which together constitute but one and the same document.

**SECTION 16. NO PROMISE OF FUNDING**

Other than as specifically set forth herein, this Agreement is not an obligation or commitment of funds, nor a basis for transfer of funds. Each party shall bear its own costs in relation to this Agreement. Expenditures by each party will be subject to applicable budgetary processes and to availability of funds pursuant to applicable laws, regulations, and policies. The parties expressly acknowledge that this in no way implies that any appropriation, tender, or allocation of funds for such expenditures.

**IN WITNESS WHEREOF**, the parties have executed this lease Agreement on the date set forth above.

APPROVED AS TO FORM:

CITY OF MOBERLY, MISSOURI

\_\_\_\_\_  
Randall D. Thompson

By: \_\_\_\_\_

Brian Crane

City Attorney

City Administrator

ATTEST:

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City Clerk

LESSEE

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Marine Toys for Tots Foundation

# City of Moberly

## City Council Agenda Summary

Agenda Number: \_\_\_\_\_

#14.

Department: Comm. Dev.

Date: October 18, 2021

**Agenda Item:** A Resolution Authorizing Execution Of An Addendum To The Fuel Card Services Agreement Between Wex Bank And Sourcewell For The State Of Missouri.

**Summary:** The City of Moberly has maintained our own fuel system at the Street Department location for many years now. The current UST's that we have are at the end of their life expectancy (25 years) and we have a very high-water table out there. Below is a report I got from Tim Grimsley who oversees the fuel system, maintenance and insurance fund for the UST's;

*I met with Jarod from mid-state petroleum about our UST's and discussed installing an above ground tank system. Jarod and one of his engineers looked at what we had going on. The structural life of a plastic underground tank is 25-30 years, we are at the 25-year mark now, we have had numerous problems within the last year on these tanks and currently are in the process of getting a quote for the spill bucket repairs on both tanks as well as the overfill floats, these repairs are necessary to stay compliant with Missouri petroleum tank insurance fund and keep our liability insurance for these tanks. As you know we have to do yearly testing on these tanks as well as all underground piping from tanks to dispensers. I think the water entry problem we had last week on the unleaded tank has been repaired for now, but we haven't refilled that tank as of yet, as I am watching the tank monitor to verify that were not getting any more water in it. I think this episode is just an indication of things to come with these tanks at their age. Jarod is putting together a quote for me for installing (2) new 2000-gallon AST's with new dispensers at our current dispenser location under the awning east of the shop. An AST system does not require annual testing or liability insurance with MO PTIF. He is also giving me a quote on removing the UST's. There is a strict process we have to go through for closing UST's. The main issue with our UST's is that the water table at this location is so high that the tanks are constantly surrounded by water, even in the heat of summer which makes it difficult to keep water out of them. The older the tanks are the more difficult it is. We currently have a 2000-gallon unleaded UST and a 6000-gallon diesel UST and if we installed ASTs I see no reason to have that big of a diesel tank as we order fuel weekly, and MFA is just across the street. (2) 2000-gallon tanks should work just fine, and we can also still utilize our fuel master tracking system with the AST's. As I stated earlier I still have some repairs that need to be made now to our tanks to stay in compliance with MO PTIF. I will get this done but I think this is only the tip of the iceberg.*

After more discussion, we need to budget for the UST removals next year and while we are considering putting in the AST's, but we would still have old underground piping to the dispensers, have to replace dispensers and I am not sure the cost for these and the liability of maintaining the fuel on-site anymore is enough benefit when each vehicle or employee that operates a vehicle could use the State of Missouri Fuel Card Program which cuts cost, has good security measures in



participate. As we go through repairs, replacement or removal of our fuel system, this would be good to have in place now to track outside fuel purchases and to start evaluating if we want to utilize this exclusively for our fleet fuel

**Recommended**

**Action:** Approve this resolution.

**Fund Name:**

**Account Number:**

**Available Budget \$:**

**ATTACHMENTS:**

<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input checked="" type="checkbox"/> Proposed Resolution
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____

**Roll Call**

**Aye**

**Nay**

**Mayor**

M\_\_\_ S\_\_\_ **Jeffrey**

\_\_\_ \_\_\_

**Council Member**

M\_\_\_ S\_\_\_ **Brubaker**

\_\_\_ \_\_\_

M\_\_\_ S\_\_\_ **Kimmons**

\_\_\_ \_\_\_

M\_\_\_ S\_\_\_ **Davis**

\_\_\_ \_\_\_

M\_\_\_ S\_\_\_ **Kyser**

\_\_\_ \_\_\_

Passed Failed

BILL NO. \_\_\_\_\_

RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION AUTHORIZING EXECUTION OF AN ADDENDUM TO THE FUEL CARD SERVICES AGREEMENT BETWEEN WEX BANK AND SOURCEWELL FOR THE STATE OF MISSOURI.**

**WHEREAS**, the State of Missouri has created a Fuel Card Program for competitive purchasing of fuel by public entities; and

**WHEREAS**, the Fuel Card Program is administered through an agreement Wex Bank and Sourcewell, a copy of which is attached hereto; and

**WHEREAS**, city staff has reviewed the city's current fuel purchasing program and believes purchasing fuel through the state's cooperative venture is more economical; and

**WHEREAS**, city staff recommends acceptance of the attached agreement and contracting for the service.

**THEREFORE**, the Moberly, Missouri, City Council authorizes the use of the Missouri Fuel Card Program and directs the City Manager to execute the attached Addendum to the Fuel Card Services Agreement with Wex Bank and Soucewell on behalf of the city and to take such other and further steps to accomplish the purposes of this Resolution.

**RESOLVED** this 18th day of October, 2021, by the Council of the City of Moberly, Missouri.

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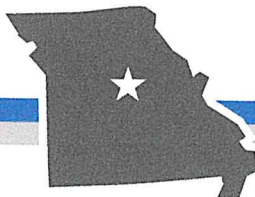
Presiding Officer at Meeting

**ATTEST:**

---

Shannon Hance, City Clerk

# STATE OF MISSOURI FUEL CARD PROGRAM



CONTRACT NO. CC160898001

## BETTER SAVINGS

Get monthly rebates based on gallons purchased

Use electronic billing to reduce administrative costs

Participation is **FREE** — no enrollment, setup, or card fees

## BETTER SECURITY

Manage spending with purchase limits you control

Use Driver IDs at the pump to help prevent fraud and misuse

## BETTER ACCOUNTING

Track spending online and see fuel grade, cost per gallon, and sales tax for every purchase

Download monthly reports including exception reporting

Tax exemption and reporting available for qualified fleets

## A BETTER EXPERIENCE



## APPLY TODAY

State of Missouri Fuel Card Contract No. CC160898001

**FAX** the enclosed addendum to 1-866-527-8873

WEXG\_236921\_DM MO 3/20

FOR MORE INFORMATION

CALL 1-866-527-8870

412

wexinc.com/Missouri



**ADDENDUM TO THE FUEL CARD SERVICES AGREEMENT BETWEEN  
WEX BANK ("WEX") AND SOURCEWELL (FORMERLY THE NATIONAL JOINT POWERS ALLIANCE  
(NJPA)) FOR THE STATE OF MISSOURI UNDER CONTRACT # CC16089001**

**CREDIT INFORMATION**

Participating Entity has requested a credit account pursuant to the Agreement #042016-WEX (the "Agreement"), entered into between the Sourewell (formerly National Joint Powers Alliance ("NJPA")) and WEX Bank ("WEX") as adopted by the State of Missouri through the execution of Missouri Contract # CC16089001. By enrolling in this Program, the Participating Entity named below agrees that in the event their account is not paid as agreed, WEX may report the undersigned's liability for and the status of the account to credit bureaus and others who may lawfully receive such information.

Participating Entity			Phone #	Fax#
Headquarters Name and Physical Address (Do not include PO Box)				
Sourewell (formerly NJPA) Member ID Number			Applicant's Taxpayer ID # (TIN, FEIN or SSN)	
In Business Since (yyyy)	Year of Incorporation (yyyy)	Number of Vehicles	Avg Monthly Fuel Expenditures \$	Avg Monthly Service Expenditures \$

**ACCOUNT SETUP INFORMATION**

Write Participating Entity name as you wish it to appear on cards. Limit of 20 characters & spaces. Unless specified, no company name will appear on cards.

Billing Contact	Billing Address	City	State	Zip+4
-----------------	-----------------	------	-------	-------

Designate the Fleet Contact authorized to receive all charge cards, reports, and other such information we provide from time to time and to take actions with respect to your account and account access. This is also the person designated by your company to provide all fleet vehicles, driver and other information we may request.

Authorized Fleet Contact Name	Title	Phone #	Fax #
-------------------------------	-------	---------	-------

Mailing Address (if different from billing address)	City	State	Zip+4
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Email address (required to take advantage of product type card controls)

☐ Check here if business is exempt from motor fuels tax

**TERMS**

1. This Addendum is to allow the Participating Entity to participate under the Agreement between WEX and Sourewell (formerly NJPA) as adopted by the State of Missouri through the execution of Missouri Contract #CC16089001. It does not modify, amend or change the Agreement or Missouri Contract #CC16089001 in any way.
2. Participating Entity hereby requests the services of WEX described in the Agreement as adopted by the State of Missouri through the execution of Missouri Contract # CC16089001, and agrees to perform all duties required under the Agreement, including, without limitation, timely payment of all charges (including any additional fees) on its account(s). Participating Entity agrees to be bound by the terms and conditions of the Agreement as adopted by the State of Missouri through the execution of Missouri Contract # CC16089001, including, without limitation, rules for authorized and unauthorized use of cards, disputes of charges, reporting lost and stolen cards, and all other rules and provisions relating to use of Participating Entity's account.
3. Participating Entity acknowledges that its failure to make timely payment in accordance with the terms of the Agreement and Missouri Contract #Cc16089001 may result in suspension or cancellation of the account(s).

**INFORMATION SHARING DISCLOSURE:** Information regarding your transactions may be provided to Sourewell (formerly NJPA) accepting merchants or their service providers.

**Compliance with Federal Law:** WEX Bank complies with federal law which requires all financial institutions to obtain, verify, and record information that identifies each company or person who opens an account. What this means for you: when you open an account, we will ask for your name, address, date of birth, and other information that will allow us to identify you. We may also ask to see your driver's license or other identifying documents for your business.

**DISCLAIMER:** THIS IS AN APPLICATION FOR SERVICES AND SHALL NOT BE BINDING UPON WEX UNTIL FINAL CREDIT APPROVAL HAS BEEN GRANTED BY WEX.

4. WEX Bank shall pay financial incentives in accordance with the terms and conditions set forth in the Agreement between WEX and Sourewell (formerly NJPA) and Missouri Contract #CC16089001.

**PARTICIPATING ENTITY AUTHORIZED SIGNATURE REQUIRED**

Any person signing on behalf of the Participating Entity has been duly authorized by all necessary action of Applicant's governing body, and that the undersigned is authorized to make this application and accept the terms referenced herein on behalf of the Participating Entity.

Signature: _____	Print Name: _____
Title: _____	Date: _____

**Complete and sign addendum. Fax to 1- \_\_\_\_\_ .**

FOR OFFICE USE ONLY	Oppty Number	Sales Code	Plastic Type	Coupon Code QM1	Account Number 04
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# City of Moberly

## City Council Agenda Summary

**Agenda Number:** \_\_\_\_\_  
**Department:** City Clerk  
**Date:** October 18, 2021

**Agenda Item:** A Resolution Appropriating Money Out Of The Treasury Of The City Of Moberly, Missouri.

**Summary:** Appropriation Resolution.

**Recommended**

**Action:** Please approve this Resolution.

**Fund Name:** N/A

**Account Number:** N/A

**Available Budget \$:** N/A

**ATTACHMENTS:**

<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input checked="" type="checkbox"/> Proposed Resolution
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____

**Roll Call**

**Aye**

**Nay**

**Mayor**

M\_\_\_ S\_\_\_ **Jeffrey** \_\_\_\_\_

**Council Member**

M\_\_\_ S\_\_\_ **Brubaker** \_\_\_\_\_

M\_\_\_ S\_\_\_ **Kimmons** \_\_\_\_\_

M\_\_\_ S\_\_\_ **Davis** \_\_\_\_\_

M\_\_\_ S\_\_\_ **Kyser** \_\_\_\_\_

Passed Failed



BILL NO. \_\_\_\_\_

RESOLUTION NO. \_\_\_\_\_

**A RESOLUTION APPROPRIATING MONEY OUT OF THE TREASURY OF THE CITY OF MOBERLY, MISSOURI IN THE AMOUNT OF \$954,883.05.**

**WHEREAS**, the funds are to be disbursed as follows;

SECTION 1: There is hereby appropriated out of the **General Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$77,404.29.

SECTION 2: There is hereby appropriated out of the **Payroll Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$42,722.72.

SECTION 3: There is hereby appropriated out of the **Solid Waste Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$65,013.37.

SECTION 4: There is hereby appropriated out of the **Heritage Hills Golf Course Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$20,096.80.

SECTION 5: There is hereby appropriated out of the **Parks and Recreation Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$56,315.81.

SECTION 6: There is hereby appropriated out of the **Airport Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$506,436.69.

SECTION 7: There is hereby appropriated out of the **Utilities Collection Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$3,604.24.

SECTION 8: There is hereby appropriated out of the **Utilities OP & Maintenance Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$63,997.71.

SECTION 9: There is hereby appropriated out of the **Utilities OP Reserve Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$9,400.79.

SECTION 10: There is hereby appropriated out of the **Route JJ Sewer Extension Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$15,176.38.

SECTION 11: There is hereby appropriated out of the **2021 EDA Grant Projects Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$9,114.44.

SECTION 12: There is hereby appropriated out of the **Emergency Telephone Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$1,270.91.

SECTION 13: There is hereby appropriated out of the **Transportation Trust Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$33,866.37.

SECTION 14: There is hereby appropriated out of the **Street Improvement Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$29,410.53.

SECTION 15: There is hereby appropriated out of the **Downtown CID Sales Tax Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$131.00.

SECTION 16: There is hereby appropriated out of the **Downtown CID Property Tax Fund** of the Treasury of the City of Moberly, Missouri to pay expenses due October 14, 2021 in the amount of \$20,921.00.

**NOW, THEREFORE**, the Moberly City Council authorizes these expenditures.

**RESOLVED** this 14th day of October 2021 by the Council of the City of Moberly, Missouri.

ATTEST:

\_\_\_\_\_  
Presiding Officer

\_\_\_\_\_  
City Clerk

I hereby certify that there is sufficient money standing to the credit of the City of Moberly, Missouri, unappropriated in the several funds covered by this resolution to meet the requirements of this resolution.

\_\_\_\_\_  
City Treasurer, City of Moberly, Missouri

**EXPENSES PAID OCTOBER 2, 2021 - OCTOBER 14, 2021 FOR THE  
FOLLOWING FUNDS ARE TO BE INCLUDED WITH THE  
OCTOBER 18, 2021 APPROPRIATION RESOLUTION TOTAL.**

General Fund	\$ 77,404.29
Payroll Fund	\$ 42,722.72
Solid Waste Fund	\$ 65,013.37
Heritage Hills Golf Course Fund	\$ 20,096.80
Parks and Recreation Fund	\$ 56,315.81
Airport Fund	\$ 506,436.69
Utilities Collection Fund	\$ 3,604.24
Utilities OP & Maintenance Fund	\$ 63,997.71
Utilities OP Reserve Fund	\$ 9,400.79
Route JJ Sewer Extension Fund	\$ 15,176.38
2021 EDA Grant Projects Fund	\$ 9,114.44
Emergency Telephone Fund	\$ 1,270.91
Transportation Trust Fund	\$ 33,866.37
Street Improvement Fund	\$ 29,410.53
Downtown CID Sales Tax Fund	\$ 131.00
Downtown CID Property Tax Fund	\$ 20,921.00
<b>Total</b>	<b>\$ 954,883.05</b>

I hereby certify that there is sufficient money standing to the credit of the City of Moberly, Missouri, unappropriated to cover the above funds.

\_\_\_\_\_  
City Treasurer, City of Moberly, Missouri

\_\_\_\_\_  
Date



BANK#	BANK NAME	CHECK#	DATE	ACCOUNT#	NAME	CHECK AMOUNT	CLEARED	MANUAL	VOID	REASON FOR VOID
24 DISBURSEMENTS										
		87948	10/08/2021	5754	FIRST STATE COMMUNITY BANK	16,134.01				
		87949	10/08/2021	6610	GENE'S WOOD SHOP	125.00				
*		87950	Thru 87962							
		87963	10/14/2021	2078	ALEXANDER GUYLA	100.00				
		87964	10/14/2021	6120	AMAZON CAPITAL SERVICES	1,273.81				
		87965	10/14/2021	6	AMEREN MISSOURI	30.02				
		87966	10/14/2021	3	AFLAC GROUP INSURANCE	2,064.13				
		87967	10/14/2021	3112	ARAMARK UNIFORM SERVICES	1,214.30				
		87968	10/14/2021	30	WOOGEDY LLC	76.00				
		87969	10/14/2021	17	AT&T 5001	10.25				
		87970	10/14/2021	4504	AT&T 5011	671.72				
		87971	10/14/2021	15	AUSTIN COFFEE SERVICE	145.87				
		87972	10/14/2021	6245	AZAVAR	437.21				
		87973	10/14/2021	34	BOB'S TIRE, LLC	75.00				
		87974	10/14/2021	2885	BOTKINS TRUCKING LLC	663.79				
		87975	10/14/2021	2975	BRENNTAG MID SOUTH INC	2,853.30				
		87976	10/14/2021	6001	CARDINAL PUMP COMPANY	2,690.00				
		87977	10/14/2021	6611	CHRISTINA BROWER	25.00				
		87978	10/14/2021	4327	COLE-PARMER	99.45				
		87979	10/14/2021	3063	CONLEY FOREST DO	.00				VOID:
		87980	10/14/2021	3063	CONLEY FOREST DO	715.00				
		87981	10/14/2021	1110	CONTROLLED AIRE LLC	120.00				
		87982	10/14/2021	2645	CORE & MAIN LP	5,922.36				
		87983	10/14/2021	678	CROWN POWER & EQUIPMENT	782.00				
		87984	10/14/2021	2913	CULLIGAN WATER CONDITIONING	40.55				
		87985	10/14/2021	2908	CUNNINGHAM VOGEL & ROST PC	4,458.96				
		87986	10/14/2021	5797	DA-COM	200.00				
		87987	10/14/2021	194	DMC CONCRETE CONSTRUCTION	54,770.00				
		87988	10/14/2021	6498	DOLL SHERI	100.00				
		87989	10/14/2021	3441	DON'S FAMILY STYLE BUFFET	1,690.00				
		87990	10/14/2021	2959	DR PEPPER SNAPPLE GROUP	85.50				
		87991	10/14/2021	37	EMERY SAPP & SONS INC	470,429.84				
		87992	10/14/2021	3139	EVOQUA WATER TECHNOLOGIES LLC	8,385.74				
		87993	10/14/2021	3103	FASTENAL COMPANY	273.27				
		87994	10/14/2021	699	FEDERAL EXPRESS	144.92				
		87995	10/14/2021	6437	FROG FURNISHINGS	906.21				
		87996	10/14/2021	6620	GILBERT SHAUNA	25.00				
		87997	10/14/2021	3011	GLENN'S GARAGE DOORS LLC	153.00				
		87998	10/14/2021	2956	GREEN HILLS VET CLINIC LLC	243.49				
		87999	10/14/2021	6616	GUILE, JONAH	45.00				
		88000	10/14/2021	988	GULF STATES DISTRIBUTORS	245.00				
		88001	10/14/2021	1338	HAWKINS INC	3,912.47				
		88002	10/14/2021	471	HYDRO KINETICS	1,595.93				
		88003	10/14/2021	227	IDEMIA IDENTITY & SECURITY LLC	318.00				
		88004	10/14/2021	763	SUMNER ONE	184.08				
		88005	10/14/2021	5591	INOVATIA LABORATORIES LLC	596.75				
		88006	10/14/2021	2812	JACOBS ENGINEERING GROUP INC	24,290.82				
		88007	10/14/2021	5965	KIM HOSKINS ENVIRONMENTAL	4,200.00				
		88008	10/14/2021	4776	KNOT AS IT SEEMS FLOWERS AND	172.00				
		88009	10/14/2021	1319	KOHL WHOLESALE	222.45				
		88010	10/14/2021	5916	KOWALSKI MARILYN	100.00				



BANK#	BANK NAME	ACCOUNT#	NAME	CHECK AMOUNT	CLEARED	MANUAL	VOID	REASON FOR VOID
CHECK#	DATE							
88011	10/14/2021	579	LAND/CHARITON COUNTY CONCRETE	561.75				
88012	10/14/2021	1381	LEON UNIFORM COMPANY	548.94				
88013	10/14/2021	5881	LINDSEY RENTALS & SALES INC	118.80				
88014	10/14/2021	1246	LOCHNER	34,848.33				
88015	10/14/2021	3015	LOWE'S HOME CENTERS, LLC	479.57				
88016	10/14/2021	1565	MACON ELECTRIC COOP	53.49				
88017	10/14/2021	4370	MARTIN ENERGY GROUP SERVICES L	575.55				
88018	10/14/2021	2717	MATHESON TRI GAS INC	177.30				
88019	10/14/2021	1694	MFA INCORPORATED	387.50				
88020	10/14/2021	4734	MID-CONTINENTAL RESTORATION CO	11,824.00				
88021	10/14/2021	5239	MISSOURI DEPART OF REV 3375	3,604.24				
88022	10/14/2021	72	MISSOURI PARK AND RECREATION A	347.00				
88023	10/14/2021	834	MISSOURI STATE HIGHWAY PATROL	210.00				
88024	10/14/2021	3041	MO ONE CALL SYSTEM INC	281.25				
88025	10/14/2021	1908	MOBERLY AREA COMMUNITY COLLEGE	21,000.00				
88026	10/14/2021	6617	MOBERLY HOUSING AUTHORITY	765.00				
88027	10/14/2021	1921	MOBERLY LUMBER INC	.00			VOID:	
88028	10/14/2021	1921	MOBERLY LUMBER INC	1,079.15				
88029	10/14/2021	1935	MOBERLY MONITOR INDEX	131.00				
88030	10/14/2021	1954	MOBERLY MOTOR COMPANY	27,887.00				
88031	10/14/2021	2907	MOBERLY READY MIX	4,541.88				
88032	10/14/2021	4906	MUTTER FARMS LLC	1,395.70				
88033	10/14/2021	1604	NAPA AUTO PARTS OF MOBERLY	.00			VOID:	
88034	10/14/2021	1604	NAPA AUTO PARTS OF MOBERLY	.00			VOID:	
88035	10/14/2021	1604	NAPA AUTO PARTS OF MOBERLY	1,173.49				
88036	10/14/2021	2734	NARTEC, INC	189.04				
88037	10/14/2021	2152	NEMO ELECTRIC CO INC	1,945.75				
88038	10/14/2021	2976	NEUMAYER EQUIPMENT CO INC	769.32				
88039	10/14/2021	6621	NEWBERRY DAVID	100.00				
88040	10/14/2021	2299	O'REILLY AUTOMOTIVE STORES INC	406.43				
88041	10/14/2021	1618	ONMEDIA COLUMBIA, MO	215.00				
88042	10/14/2021	4860	OVERFELT LINDSAY	25.00				
88043	10/14/2021	6613	PATHWAY MEMORIAL FUNERAL	50.00				
88044	10/14/2021	2822	PEPSI-COLA	296.42				
88045	10/14/2021	6551	PRO PUMPING & HYDROJETTING LLC	2,420.00				
88046	10/14/2021	5829	Q SECURITY SOLUTIONS LLC	198.00				
88047	10/14/2021	4924	R P LUMBER COMPANY INC	.00			VOID:	
88048	10/14/2021	4924	R P LUMBER COMPANY INC	4,468.07				
88049	10/14/2021	415	RANDOLPH AREA YMCA	1,299.25				
88050	10/14/2021	2198	RANDOLPH CO SHELTERED INDUSTRI	354.90				
88051	10/14/2021	6243	ROBB DEREK	25.00				
88052	10/14/2021	2600	SAFE PASSAGE	108.00				
88053	10/14/2021	6615	SAMUELS FLOORING & REMODELING	5,622.37				
88054	10/14/2021	617	SCHULTE SUPPLY INC	200.85				
88055	10/14/2021	6609	SEWAH STUDIOS INC	1,140.00				
88056	10/14/2021	5456	SMART HORIZONS	449.00				
88057	10/14/2021	5639	SOCKET	.00			VOID:	
88058	10/14/2021	5639	SOCKET	2,543.52				
88059	10/14/2021	6321	SURVEYING & MAPPING LLC	140.00				
88060	10/14/2021	4913	THE AUSTIN PETERS GROUP INC	2,125.00				
88061	10/14/2021	5737	THOMSON REUTERS-WEST	53.00				
88062	10/14/2021	2644	USA BLUE BOOK	4,157.93				
88063	10/14/2021	2646	VALIC	1,042.00				

BANK#	BANK NAME	ACCOUNT#	NAME	CHECK AMOUNT	CLEARED	MANUAL	VOID	REASON FOR VOID
CHECK#	DATE							
88064	10/14/2021	6343	WASTE MANAGEMENT SOLUTIONS	65,658.84				
88065	10/14/2021	6622	WATERS EDGE	30,500.00				
88066	10/14/2021	2656	WESTLAKE HARDWARE	.00			VOID:	
88067	10/14/2021	2656	WESTLAKE HARDWARE	.00			VOID:	
88068	10/14/2021	2656	WESTLAKE HARDWARE	.00			VOID:	
88069	10/14/2021	2656	WESTLAKE HARDWARE	1,327.90				
88070	10/14/2021	2772	WIRELESS USA	25.57				
88071	10/14/2021	6619	WORLEY ADAM	2,447.00				
88072	10/14/2021	4936	YANCEY LARRY	35.00				
*20190907								
20190908	10/04/2021	1800	MO LAGERS	39,126.59		E-PAY		
20190909	10/08/2021	2591	MOBERLY AREA ECONOMIC DEVELOPM	43,750.00		E-PAY		
20190910	10/08/2021	5898	MOBERLY SOLAR, LLC	15,660.16		E-PAY		

\* See Check Summary below for detail on gaps and checks from other modules.

BANK TOTALS:	
OUTSTANDING	954,883.05
CLEARED	.00
	-----
BANK 24 TOTAL	954,883.05
**VOIDED**	.00

FUND	TOTAL	OUTSTANDING	CLEARED	VOIDED
100 GENERAL FUND	77,404.29	77,404.29	.00	.00
105 PAYROLL FUND	42,722.72	42,722.72	.00	.00
110 SOLID WASTE FUND	65,013.37	65,013.37	.00	.00
114 HERITAGE HILLS GOLF CRSE	20,096.80	20,096.80	.00	.00
115 PARKS & RECREATION FUND	56,315.81	56,315.81	.00	.00
120 AIRPORT FUND	506,436.69	506,436.69	.00	.00
300 UTILITIES COLLECTION FUND	3,604.24	3,604.24	.00	.00
301 UTILITIES OP & MAINT	63,997.71	63,997.71	.00	.00
303 UTILITIES OP RESERVE	9,400.79	9,400.79	.00	.00
314 ROUTE JJ SEWER EXTENSION	15,176.38	15,176.38	.00	.00
350 2021 EDA GRANT PROJECTS	9,114.44	9,114.44	.00	.00
400 EMERGENCY TELEPHONE FUND	1,270.91	1,270.91	.00	.00
600 TRANSPORTATION TRUST FUND	33,866.37	33,866.37	.00	.00
601 STREET IMPROVEMENT FUND	29,410.53	29,410.53	.00	.00
911 DOWNTOWN CID SALES TAX	131.00	131.00	.00	.00
912 DOWNTOWN CID PROP TAX	20,921.00	20,921.00	.00	.00

**ACCOUNTS PAYABLE CHECK REGISTER**  
\*\*\* CHECK SUMMARY \*\*\*

#15.

BANK#	BANK NAME		
CHECK#		DESCRIPTION	

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**24 DISBURSEMENTS**

87948 Thru	87949	Accounts Payable Checks
87950 Thru	87962	Utility Billing Checks
87963 Thru	88072	Accounts Payable Checks

20190908 Thru	20190910	Accounts Payable E-Pay
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# City of Moberly

## City Council Agenda Summary

Agenda Number: #16.  
 Department: City Manager  
 Date: October 18, 2021

**Agenda Item:** Department Head Monthly Reports

**Summary:** Attached is Community Development Monthly Report/Public Works Monthly, Finance Department Monthly Report, Parks and Rec. Monthly Report, Police Department Monthly Report, Fire Department Monthly Report, Public Utility Monthly Report, Moberly Area Economic Development, Moberly Chamber of Commerce.

These are for you to review on the activity that each Department has accomplished for the Month September.

**Recommended**

**Action:** Just for your review

**Fund Name:** N/A

**Account Number:** N/A

**Available Budget \$:** N/A

**ATTACHMENTS:**

<input type="checkbox"/> Memo	<input type="checkbox"/> Council Minutes
<input checked="" type="checkbox"/> Staff Report	<input type="checkbox"/> Proposed Ordinance
<input type="checkbox"/> Correspondence	<input type="checkbox"/> Proposed Resolution
<input type="checkbox"/> Bid Tabulation	<input type="checkbox"/> Attorney's Report
<input type="checkbox"/> P/C Recommendation	<input type="checkbox"/> Petition
<input type="checkbox"/> P/C Minutes	<input type="checkbox"/> Contract
<input type="checkbox"/> Application	<input type="checkbox"/> Budget Amendment
<input type="checkbox"/> Citizen	<input type="checkbox"/> Legal Notice
<input type="checkbox"/> Consultant Report	<input type="checkbox"/> Other _____

**Roll Call**

**Aye** **Nay**

**Mayor**

M\_\_\_ S\_\_\_ **Jeffrey** \_\_\_\_\_ \_\_\_\_\_

**Council Member**

M\_\_\_ S\_\_\_ **Brubaker** \_\_\_\_\_ \_\_\_\_\_

M\_\_\_ S\_\_\_ **Kimmons** \_\_\_\_\_ \_\_\_\_\_

M\_\_\_ S\_\_\_ **Davis** \_\_\_\_\_ \_\_\_\_\_

M\_\_\_ S\_\_\_ **Kyser** \_\_\_\_\_ \_\_\_\_\_

Passed Failed

# COMMUNITY DEVELOPMENT/PUBLIC WORKS MONTHLY REPORT

September 2021

## A. PROJECTS

### Community Development

**Demolition Grant** – Most of the lots from the first rounds have now been addressed by the contractor. They still have to make repairs to damaged sidewalks. We have signed the contracts on the last 8 properties from the final phase, the contractor has a waiting period for DNR approval. These last few should go quickly.

We have several other fire and dangerous structures that have accumulated while we were pushing through this grant program. We will need to address them shortly after we close out the grant demos.

**Waste Management/Advanced Disposal** – Based on the level of complaints, the cart deliveries and reliability of service seems to continually be improving. There is still significant room for improvement. The bulk item pick up is still sketchy at best. They are supposed to be picking up the one bulk item each week at the same time as trash service, and that's not happening reliably. They send another truck for larger items and unless people have called them in, they are missing many things. We had talked about going to a system where people had to call in to schedule bulk item pick up, but we were not willing to change anything until they get their problems cleared up.

On top of the regular routes, we continue to have complaints about the transfer station accessibility. While the hours are better, they are bringing all their trash trucks there to dump and they bring their trash trucks in ahead of customers and they can't dump while the trash trucks are in the bay, and then customers have to wait on them to clear materials and often change out trailer dumps. We have had several people tell us of an hour plus wait times to dump and, in some cases, getting turned away after the waits as the trash trucks used all of the available capacity. I have asked the facility manager in Macon to look into it and get me a response as to what can be done, however he is not over the transfer station, and the regional manager I was dealing with is no longer with the company. I am trying to get a new regional contact.

**Fennel Marketing Study** – McClure has been working with local and regional partners to help craft an actionable market strategy to revitalize the Fennel building project.

The proposed use of the space is focused on incorporating family-friendly activities like pickleball, bocce, bags, etc. with potential for a small dog park within the footprint of the outdoor space on the north side of the property. It's TBD whether the exterior activities will be operated by the City or the business inside the facility.

For the interior business use, our primary idea is a craft distillery, winery, or microbrewery. The proposals strategy is to attract an existing business interested in establishing a satellite facility in Moberly. Another less costly option is the craft taproom approach featuring Missouri beers, wines and/or spirits. Light snacks would be offered by the business, but full food service would be delegated to a cycle calendar of food trucks and/or partnerships with other local restaurants.

The current proposed layout of the building is the taproom space in the eastern most commercial bay with the brewery/distillery operation in the central commercial bay and an event space/rental room for the western most bay. The central bay would also be the access point to upper story rental units.

Draft concept visuals should be made available by the end of the month.

**Staffing** – We have hired Skyler Frazer as a part-time airport attendant. Skyler has some aircraft maintenance experience and works for Edge Aviation in Moberly when not working the part-time position with the City. We are pleased to have someone with his experience and knowledge on with us.

We have found a couple of people with relevant experience for our PIO position but can't seem to make their work schedules or level of employment fit with our needs. We have tried to flex and adjust, but at this point we are still looking for the right fit.

**Pavement maintenance** – In following up with Capital paving, they are telling me it will be late October and possibly leak into early November. While this is not ideal as temperature could start to dip down below where we would want them, the forecast isn't looking too bad. We have followed up with the Special Road District and they will be paving the Park Road extension between Hwy 24 & JJ through a co-op with them under our contract. This road is in bad shape and most people incorrectly assume it is the City of Moberly's.

Following the overlay, we will have the application of reclamite to the new asphalt and the streets in town with 5-year-old asphalt. For those that may not be that familiar with this product, it doesn't add color or a wear surface, it adds the flexibility back to the oil/binders that get "cooked" out during initial heating and over time after application. It can look a little messy on initial application due to the sand we put down as a friction enhancer, but it doesn't stick to vehicles like oil would and we sweep up the loose sand a day or two after initial application.

**Equipment** – Purple Wave Auction continue to produce good results for us on our resale of old equipment. Our street sweeper just sold for \$84,700, and our trade-in value that was offered was \$52,000. A very rough 2008 F-250 regular cab w/129K from utilities just sold for \$7,260 and a Hustler zero turn mower that had been cycled through the cemetery and street department brought \$2,860. Our John Deere rubber tire loader is on Purple Wave now, we had a trade-in offer of \$72,000, and the bids are already up to \$51K with 10 days to go. They usually shoot up in the last two days, we are hoping it will bring \$90K+ at auction.

We have been approached by the Special Road District about purchasing our 2011 F-350 dually dump bed truck directly. We can do that with other government entities, like we have done with the school in the past. We are reviewing values at this time and will present it formally once we have some values and a recommendation.

## **Airport**

**Magic City Aviation/Graves Sanford** – I have spent more hours than I can count in discussion with Mr. Sanford on the hangars. We have had the same conversations many times. He has finally decided to go with the termination agreement and turn the Hangars over to the City and we will make repairs and lease them back to him, first 60 months, the equity of the hangars would be compensation for this initial term. Assuming council approves the agreement on the 18th, they would be in on the 19th to execute the agreement.

**Runway Construction** - Runway is completed, lots of positive comments. Ribbon cutting will be October 29th at 11:30. You will all get formal invitations. Food and drinks will be provided for RSVP lunch.

There were three (3) grave lots sold; six (6) graves opened; and five (5) monument permits sold during the month of September.

**B. Planning & Zoning Commission**

The Planning and Zoning Commission for the City of Moberly held a meeting on Monday, September 27, 2021.

1. Notice of a Public Hearing for a re-zoning application submitted by Redhead Properties Family Trust for 317 Patton St. from R-1(Single Family Residential District) to R-3 (Multi-family Dwelling District).
2. Notice of Public Hearing for a site plan review submitted by Nate Kohl on behalf of Richard Stuck for a proposed storage units located at 106 Shepherd Brothers Blvd. This location is currently zoned B-3 (General Commercial District).

**C. Code Enforcement****Month of September: Rick**

- Completed 29 building inspections.
- Working on accessory building for abatement.
- Final inspection on Swift Foods facility.
- 5 permits for single family residence in September with 30 new S/F homes for the tear.
- Drive wards for nuisance violations.
- Continue to work on Demolition project.
- Attended Plan Review and Planning & Zoning meetings as scheduled.
- Remainder of month was issuing permits, answering phones, code violations, commercial occupancy permits and zoning matters.

**Month of September: Karen**

- 56 occupancy inspections and re-inspections.
- 68 trash cans tagged for being left on the curb
- Respond to citizen complaints, returned phone calls.
- Attended safety meetings as were scheduled, the health fair was Oct. 1<sup>st</sup> and we had 19 vendors and food and decorations, it was a great success this year with close to 100 attending.
- Over all a very successful month was had.

**Month of September: Aaron**

- Construction began on Hils Pharmacy and Wendy's / Scooters near completion.
- Monitoring the lack of diligent progress at the Moberly Inn.
- Progress on the demolition lots has continued and the previously cleared lots are being filled and graded in preparation for final seed and straw.
- Approximately 40 residential and 20 commercial inspections were executed.
- Continue to issue permits, accept and review Planning and Zoning applications, inspect new construction and address complaints surrounding nuisance properties.
- Attend Plan Review as scheduled.



- Several initial nuisance letters were sent and several reached compliances.
- Historic preservation has been on the table with discussions with downtown businesses that are new to the district as well as some that are seeking signage in the district.

#16.

City of Moberly - Street Department Sept-21					
MAINTENANCE FACILITY					
	Hours	O/T	Loads	Tons	Cost
Compost Mixing	0	0	0	0	\$0.00
Load Compost, Millings, & Mulch	10	0	30	0	\$0.00
Sand, Salt, & Geomelt Mixing	0	0	0	0	\$0.00
Tub Grinder Operation	7	0	0	0	\$0.00
Winter Weather Equipment Preparations	0	0	0	0	\$0.00
ROADS & ALLEYWAYS					
	Hours	O/T	Loads	Tons	Cost
Alleys, Grade & Rock	0	0	0	0	\$0.00
Catch Basin Maintenance	40	0	4	0	\$0.00
Crack Sealing	144	0	231	0	\$0.00
Culvert Flushing	0	0	0	0	\$0.00
Culvert Installation	0	0	0	0	\$0.00
Curb Repair	96	0	0	0	\$0.00
Ditch Maintenance	16	0	0	0	\$0.00
Ice & Snow Removal	0	0	0	0	\$0.00
Milling	0	0	0	0	\$0.00
Mowing, Right-Of-Ways	88	0	0	0	\$0.00
Rock Loaded/Hauled	0	0	0	0	\$0.00
Street Repair & Maintenance	363	0	0	2	\$0.00
Street Sign Maintenance	12	0	0	0	\$0.00
Street Sweeper Operation	60	0	19	0	\$0.00
Street Sweepings Hauled To Disposal	16	0	0	0	\$0.00
Weedeating & Brush Removal, Alleys	78	0	24	0	\$0.00
Weedeating & Brush Removal, Streets	133	0	24	0	\$0.00
Weedkiller Application, Alleys	0	0	0	0	\$0.00
Weedkiller Application, Streets	8	0	0	0	\$0.00
MISCELLANEOUS					
	Hours	O/T	Loads	Tons	Cost
Inmate Labor	770	0	0	0	\$0.00
Mowing, City Lots	95	425	0	0	\$0.00



Outer Road Fill Dump Site Grading	0	0	0	0	\$0.00
Sidewalk Maintenance	88	0	0	0	\$0.00
Trash Removal & Clean-Up, Downtown	16	0	71	0	\$0.00
Trash Removal & Clean-Up, All Wards	0	0	0	0	\$0.00
<b>FACILITIES &amp; EQUIPMENT MAINTENANCE</b>					
	Hours	O/T	Loads	Tons	Cost
Airport Maintenance	50	0	0	0	\$0.00
Building Maintenance	14	0	0	0	\$0.00
Cemetery Maintenance	272	0	0	0	\$0.00
Grounds Maintenance	8	0	0	0	\$0.00
Landfill Maintenance	8	0	0	0	\$0.00
Maintenance Facility Maintenance	31	0	0	0	\$0.00
Wash Trucks & Equipment	6	0	0	0	\$0.00
<b>MATERIALS PURCHASED</b>					
	Loads	Tons	Cubic Yards	Gallons	Cost
Asphalt	0	0	0	0	\$0.00
Road Marking Paint, White	0	0	0	0	\$0.00
Road Marking Paint, Yellow	0	0	0	0	\$0.00
Salt	0	0	0	0	\$0.00
Sand	0	0	0	0	\$0.00
<b>MECHANIC WORK PERFORMED</b>					
	Units	Hours			
Routine Service	11	31			
Maintenance And Repair	27	69			

**To:** Moberly City Council; Brian Crane, City Manager

**From:** Greg Hodge, Director of Finance

**Subject:** Monthly Report – September 2021

### General Information

- ✚ Sales revenues remained strong this month, and use tax revenues dropped off slightly.
- ✚ Health claims were much closer to normal this month.
- ✚ The auditors were on-site the week of September 27 to perform the majority of work on the 2020-2021 financial audit. This audit is much more extensive because we had federal grant expenditures in excess of \$750,000. They have to go through these records very meticulously which requires considerable time and effort. Of course, we will see a higher fee for this audit and next year's due to the extra labor time.
- ✚ Progress continued on the Caselle software. Matt and I met with the programmers twice during the month to review the database conversion, and they are making good progress. Matt and I have to provide some clarification and additional data for portions of it, but overall we are getting pretty close to having a usable framework in which to import the datafiles into.

### Sales Tax Revenues

Charts for each sales and use tax fund are included for your review. Below are the comparisons of current YTD to prior YTD.

General Fund	+4.12%	Parks	+4.14%	Capital Improvement	+4.14%
Transportation	+4.14%	Use Tax	+0.02%	Downtown CID	+57.76%

### Employee Health Insurance

Health claims	\$47,032.74	Pharmaceutical claims	\$21,367.65
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### **Health Insurance Contributions & Budget**

Health Trust Contribution This Month	HSA Contributions This Month	Total Contributions This Month	Annual Budget	Budget Remaining
\$112,106.06	\$2,775.00	\$114,881.10	\$1,535,265.52	\$1,201,594.34

### **Health Trust Fund Cash Balance**

	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022
<b>July</b>	\$953,912.59	\$959,446.10	\$789,647.32	\$600,499.65	\$452,115.58	\$350,783.18	\$516,952.83
<b>August</b>	\$950,828.33	\$978,085.80	\$800,479.76	\$558,026.39	\$289,833.52	\$353,291.19	\$476,840.46
<b>September</b>	\$1,000,905.00	\$974,427.10	\$684,692.43	\$519,407.60	\$239,111.95	\$358,230.40	\$516,375.33
<b>October</b>	\$1,008,278.61	\$990,003.69	\$665,224.98	\$533,065.43	\$161,101.66	\$361,082.82	
<b>November</b>	\$1,000,000.00	\$1,000,000.00	\$689,931.75	\$521,176.81	\$161,006.25	\$359,913.42	
<b>December</b>	\$1,002,488.15	\$867,421.94	\$524,297.94	\$521,228.06	\$244,153.89	\$341,280.69	
<b>January</b>	\$997,205.10	\$888,519.67	\$590,612.39	\$549,457.98	\$309,105.79	\$436,448.97	
<b>February</b>	\$1,001,764.14	\$815,725.20	\$712,106.49	\$559,700.67	\$297,198.27	\$462,855.81	
<b>March</b>	\$980,176.79	\$762,230.98	\$587,567.48	\$578,509.63	\$273,648.37	\$481,687.90	
<b>April</b>	\$968,681.17	\$710,720.45	\$640,541.51	\$599,662.04	\$278,933.28	\$520,587.99	
<b>May</b>	\$1,000,000.00	\$762,796.66	\$608,960.67	\$543,627.95	\$309,247.58	\$473,770.32	
<b>June</b>	\$1,000,000.00	\$807,724.83	\$569,163.71	\$512,223.04	\$360,812.59	\$519,861.25	

TO THE HONORABLE MAYOR  
and  
CITY COUNCIL  
of the  
CITY OF MOBERLY, MISSOURI



Per RSMo 78.620 I have hereby filed an itemized statement  
of receipts and expenditures with the City Clerk for your review upon request.

I submit herein a summary of the business transactions for the month of  
September 2021

\_\_\_\_\_  
Gregory L. Hodge, City Treasurer

## City of Moberly Cash Balance Report - September 2021

Fund #	Fund Name	Beginning Cash Balance	Revenues	Transfers In	Expenditures	Transfers Out	Ending Cash Balance
100	General	998,049.24	803,932.64	-	561,904.04	20,833.33	1,219,244.51
102	Non-Resident Lodging Tax	171,184.48	10,297.11	-	7,082.33	-	174,399.26
105	Payroll	463,528.53	25.91	-	(75,755.91)	-	539,310.35
110	Solid Waste	691,738.81	92,596.95	-	83,394.08	-	700,941.68
114	Heritage Hills Golf Course	-	-	7,183.82	7,183.82	-	-
115	Parks and Recreation	(26,876.03)	33,221.58	82,869.59	111,206.64	-	(21,991.50)
116	Park Sales Tax	961,355.79	144,995.56	-	-	90,053.41	1,016,297.94
120	Airport	(113,001.05)	1,280,288.62	-	1,462,161.92	-	(294,874.35)
125	Perpetual Care Cemetery Sales	7,694.23	3,021.00	-	-	-	10,715.23
126	Perpetual Care Cemetery Investment	504,067.63	26.48	-	-	-	504,094.11
135	ARPA Grant Fund	1,373,655.28	71.07	-	-	-	1,373,726.35
137	Use Tax Trust	248,848.65	12.88	-	-	-	248,861.53
140	Veterans Memorial Flag Project	43,814.90	152.27	-	-	-	43,967.17
300	Utilities Collection	-	494,392.26	-	44,435.87	449,956.39	-
301	Utilities Operation and Maintenance	(34,620.50)	-	278,055.51	268,495.15	-	(25,060.14)
302	Utilities Replacement	669,788.58	-	4,125.00	-	-	673,913.58
303	Utilities Operating Reserve	1,351,679.93	104.60	38,122.83	9,419.46	-	1,380,487.90
306	Utilities Consumer Security	209,197.19	937.68	-	-	-	210,134.87
307	Sugar Creek Lake Fund	59,597.85	163.08	-	-	-	59,760.93
314	Route JJ Sewer Extension Fund	(28,714.32)	-	-	28,126.25	-	(56,840.57)
350	EDA Grant Projects Fund	(143,850.12)	-	-	9,020.00	-	(152,870.12)
377	2004B SRF Bonds Debt Service	1,136,790.81	58.82	43,179.84	38,195.69	-	1,141,833.78
378	2006A SRF Bonds Debt Service	1,660,605.70	85.93	36,014.90	27,572.66	-	1,669,133.87
379	2004C Bond Debt Service	108,539.60	5.62	30,104.17	26,552.63	-	112,096.76
380	2008A Bonds Debt Service	65,375.97	3.38	14,853.45	-	-	80,232.80
381	ESP Projects Debt Service	60,945.30	3.15	50,458.31	-	-	111,406.76
Escrow		1,017,859.66	-	-	-	-	1,017,859.66
Total CWWSS (funds 300-381 + escrow)		6,133,195.65	495,754.52	494,914.01	451,817.71	449,956.39	6,222,090.08

# City of Moberly Cash Balance Report - September 2021

Fund #	Fund Name	Beginning Cash Balance	Revenues	Transfers In	Expenditures	Transfers Out	Ending Cash Balance
304	Capital Improvement Trust	129,674.54	134,710.98		12,044.96	55,040.95	197,299.61
400	911 Emergency Telephone	210,133.81	18,532.08	20,833.33	31,115.40	-	218,383.82
406	Inmate Security Fund	14,224.95	58.74	-	-	-	14,283.69
408	Police Forfeiture Fund	4,320.59	-	-	-	-	4,320.59
600	Transportation Trust	1,812,099.75	134,854.81	-	6,641.55	-	1,940,313.01
601	Street Improvement	434,755.05	33,469.13	-	365,320.14	-	102,904.04
900	MODAG Grant/Loan	21,801.13	1.13	-	-	-	21,802.26
901	Misc. Project Residuals	150,125.06	7.77	-	-	-	150,132.83
903	Ameren MO Solar Rebates	362,670.00	-	-	-	-	362,670.00
904	Hometown Strong Fund	290,000.00	-	-	-	-	290,000.00
905	Retail Consulting Fund	11,631.52	0.60	-	-	-	11,632.12
908	Railcar Preservation Fund	587.68	0.03	-	-	-	587.71
909	Lucille Manor CDBG Reimbursement	236,117.55	3,816.33	-	-	-	239,933.88
911	Downtown CID Sales Tax	64,706.73	7,567.97	-	33.00	-	72,241.70
912	Downtown CID Property Tax	310,959.78	16.09	-	339.00	1,733.84	308,903.03
914	Downtown NID Cost of Issuance	-	-	-	-	-	-
915	Downtown NID Street Projects	137,005.59	-	-	-	-	137,005.59
916	Downtown NID Sewer Projects	1,516,994.41	-	-	-	-	1,516,994.41
918	Downtown NID Debt Service	88,100.96	4.56	11,817.17	64,457.30	-	35,465.39
995	Health Trust	476,840.46	150,684.18	-	111,149.31	-	516,375.33
995	Investments	-	-	-	-	-	-
Total Health Trust		476,840.46	150,684.18	-	111,149.31	-	516,375.33
Total Cash		17,730,005.67	3,348,120.99	617,617.92	3,200,095.29	617,617.92	17,878,031.37
Less Escrow Accounts		(1,017,859.66)	-	-	-	-	(1,017,859.66)
<b>Net Cash per Bank Cash Report</b>		<b>16,712,146.01</b>	<b>3,348,120.99</b>	<b>617,617.92</b>	<b>3,200,095.29</b>	<b>617,617.92</b>	<b>16,860,171.71</b>

# City of Moberly Budget Comparison Report - September 2021

#16.

		Percentage of Year Completed							25.00%
		Revenues				Expenditures			
Fund #	Fund Name	Month	Year to Date	Total Budget	% of Budget	Month	Year to Date	Total Budget	% of Budget
100	General	803,932.64	2,010,368.14	8,790,906.19	22.87%	622,869.61	1,944,280.11	8,790,906.19	22.12%
102	Non-Resident Lodging Tax	10,297.11	29,501.65	100,150.00	29.46%	7,082.33	14,164.66	100,000.00	14.16%
105	Payroll	25.91	93.31	0.00	0.00%	-39,126.59	1,919.81	0.00	0.00%
110	Solid Waste	92,596.95	277,879.88	1,090,150.00	25.49%	83,281.29	259,562.79	1,072,330.00	24.21%
114	Heritage Hills Golf Course	7,183.82	14,287.77	206,134.01	6.93%	7,183.82	14,287.77	206,134.01	6.93%
115	Parks and Recreation	116,091.17	462,437.81	2,467,648.36	18.74%	116,091.17	462,437.81	2,467,648.36	18.74%
116	Park Sales Tax	144,995.56	393,705.44	1,415,500.00	27.81%	90,053.41	336,113.67	1,479,682.37	22.72%
120	Airport	1,280,288.62	2,934,140.56	3,276,669.15	89.55%	1,462,431.22	3,097,118.19	3,276,669.15	94.52%
125	Perpetual Care Cemetery Sales	3,021.00	9,629.00	20,000.00	48.15%	0.00	0.00	20,000.00	0.00%
126	Perpetual Care Cemetery Investment	26.48	94.11	20,500.00	0.46%	0.00	0.00	500.00	0.00%
135	ARPA Grant Fund	71.07	1,373,726.35	0.00	0.00%	0.00	0.00	0.00	0.00%
140	Veterans Memorial Flag Project	152.27	158.13	3,050.00	5.18%	0.00	138.69	2,500.00	5.55%
300	Utilities Collection	494,392.26	1,696,878.50	6,727,154.82	25.22%	490,431.87	1,708,746.29	6,727,154.82	25.40%
301	Utilities Operation and Maintenance	278,055.51	831,858.26	4,429,570.44	18.78%	278,055.51	831,858.26	4,429,570.44	18.78%
302	Utilities Replacement	4,125.00	12,375.00	49,500.00	25.00%	0.00	0.00	0.00	0.00%
303	Utilities Operating Reserve	38,227.43	355,150.23	103,200.00	344.14%	9,419.46	28,258.38	359,774.82	7.85%
304	Capital Improvement Trust	134,710.98	361,629.59	1,302,000.00	27.77%	67,085.91	192,003.81	1,066,401.45	18.00%
307	Sugar Creek Lake Fund	163.08	376.03	2,050.00	18.34%	0.00	0.00	0.00	0.00%
314	Route JJ Sewer Extension Fund	0.00	0.00	1,582,723.00	0.00%	28,126.25	44,968.75	1,582,723.00	2.84%
350	EDA Grant Projects Fund	0.00	0.00	6,376,600.00	0.00%	9,020.00	79,619.53	6,376,600.00	1.25%
377	2004B SRF Bonds Debt Service	43,238.66	129,749.25	519,258.13	24.99%	38,195.69	114,587.07	472,143.75	24.27%
378	2006A SRF Bonds Debt Service	36,100.83	108,351.54	433,778.75	24.98%	27,572.66	92,412.57	394,162.50	23.45%
379	2004C Bond Debt Service	30,109.79	90,331.91	361,330.00	25.00%	26,552.63	79,657.89	329,500.00	24.18%
380	2008A Bonds Debt Service	14,856.83	44,574.49	178,291.45	25.00%	0.00	37,896.84	162,719.50	23.29%
381	ESP Projects Debt Service	50,461.46	151,385.52	605,599.74	25.00%	0.00	135,340.85	551,363.40	24.55%
400	911 Emergency Telephone	39,365.41	144,638.34	610,080.00	23.71%	33,115.25	113,901.01	797,121.03	14.29%
406	Inmate Security Fund	58.74	214.62	810.00	26.50%	0.00	0.00	0.00	0.00%
600	Transportation Trust	134,854.81	411,174.35	1,340,650.00	30.67%	6,641.55	150,160.04	849,675.00	17.67%
601	Street Improvement	33,469.13	100,324.74	415,500.00	24.15%	365,320.14	581,682.09	675,275.00	86.14%

# City of Moberly Budget Comparison Report - September 2021

#16.

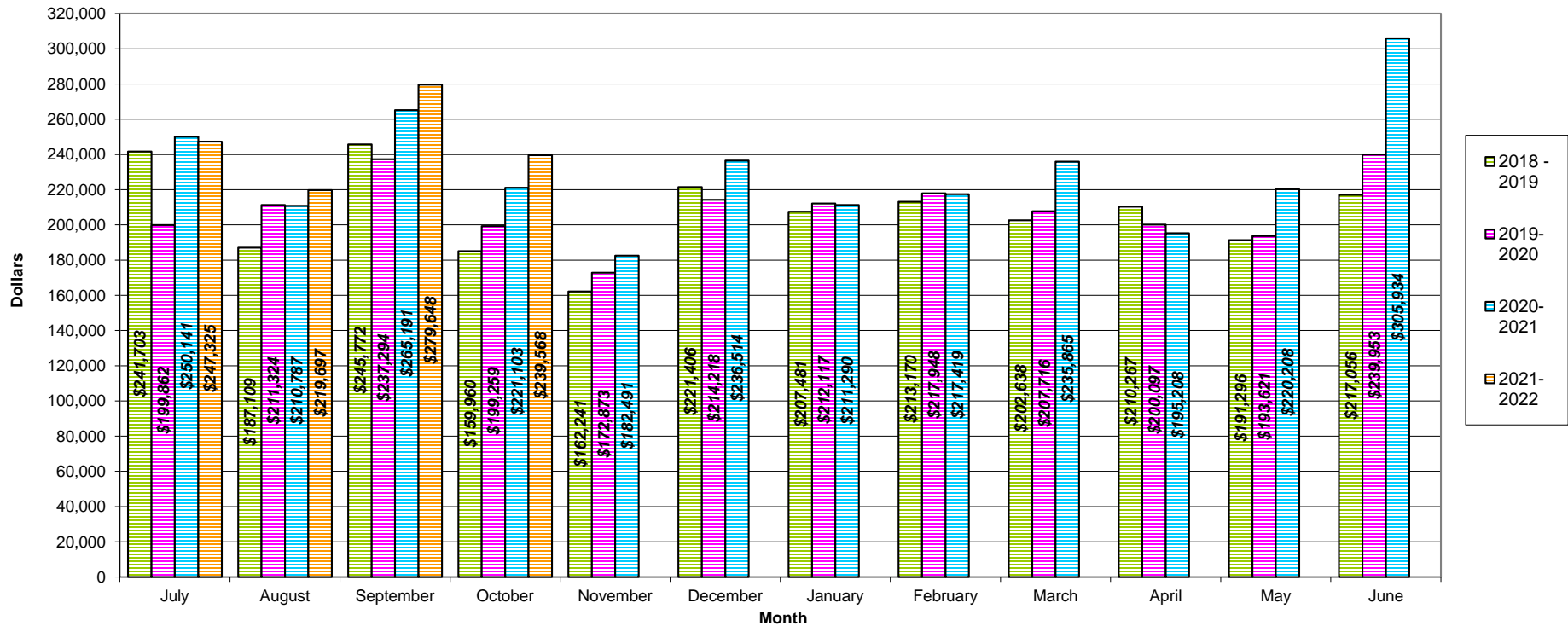
		Percentage of Year Completed								25.00%
		Revenues				Expenditures				
Fund #	Fund Name	Month	Year to Date	Total Budget	% of Budget	Month	Year to Date	Total Budget	% of Budget	
903	Ameren MO Solar Rebates	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00%	
904	Hometown Strong Fund	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00%	
905	Retail Consulting Fund	0.60	2.16	0.00	0.00%	0.00	0.00	0.00	0.00%	
908	Railcar Preservation Fund	0.03	0.11	0.00	0.00%	0.00	0.00	0.00	0.00%	
909	Lucille Manor CDBG Reimbursement	3,816.33	9,553.57	23,075.00	41.40%	0.00	0.00	40,000.00	0.00%	
911	Downtown CID Sales Tax	7,567.97	21,313.64	55,530.00	38.38%	33.00	640.50	51,800.00	1.24%	
912	Downtown CID Property Tax	16.09	6,408.48	215,250.00	2.98%	2,072.84	41,655.27	214,810.00	19.39%	
914	Downtown NID Cost of Issuance	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00%	
915	Downtown NID Street Projects	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00%	
916	Downtown NID Sewer Projects	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00%	
918	Downtown NID Debt Service	11,821.73	35,465.43	142,010.00	24.97%	64,457.30	64,457.30	128,914.60	50.00%	
995	Health Trust	150,684.18	423,630.61	0.00	0.00%	111,149.31	427,116.53	0.00	0.00%	
<b>TOTALS</b>		<b>3,964,779.45</b>	<b>12,441,408.52</b>	<b>42,864,669.04</b>	<b>29.02%</b>	<b>3,907,115.63</b>	<b>10,854,986.48</b>	<b>42,626,079.39</b>	<b>25.47%</b>	

**City of Moberly**  
**One Percent (1%) General Fund Sales Tax Analysis**

#16.

	2018 - 2019				2019-2020				2020-2021				2021-2022			
			Prior year comparison				Prior year comparison				Prior year comparison				Prior year comparison	
	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change
July	9.73%	\$241,703	-5.45%	-5.45%	7.97%	\$199,862	-17.31%	-17.31%	9.09%	\$250,141	25.16%	25.16%	25.08%	\$247,325	-1.13%	-1.13%
August	7.53%	\$187,109	21.72%	4.75%	8.43%	\$211,324	12.94%	-4.11%	7.66%	\$210,787	-0.25%	12.10%	22.28%	\$219,697	4.23%	1.32%
September	9.89%	\$245,772	7.02%	5.57%	9.47%	\$237,294	-3.45%	-3.87%	9.64%	\$265,191	11.76%	11.97%	28.36%	\$279,648	5.45%	2.83%
October	7.45%	\$185,111	-8.96%	2.06%	7.95%	\$199,259	7.64%	-1.39%	8.03%	\$221,103	10.96%	11.73%	24.29%	\$239,568	8.35%	4.12%
November	6.53%	\$162,241	34.26%	6.10%	6.90%	\$172,873	6.55%	-0.13%	6.63%	\$182,491	5.56%	10.69%	0.00%		-100.00%	
December	8.91%	\$221,406	-23.98%	-0.88%	8.55%	\$214,218	-3.25%	-0.68%	8.59%	\$236,514	10.41%	10.64%	0.00%		-100.00%	
January	8.35%	\$207,481	18.27%	1.47%	8.46%	\$212,117	2.23%	-0.27%	7.68%	\$211,290	-0.39%	9.02%	0.00%		-100.00%	
February	8.58%	\$213,170	3.32%	1.70%	8.70%	\$217,948	2.24%	0.05%	7.90%	\$217,419	-0.24%	7.81%	0.00%		-100.00%	
March	8.15%	\$202,638	-2.26%	1.25%	8.29%	\$207,716	2.51%	0.32%	8.57%	\$235,865	13.55%	8.45%	0.00%		-100.00%	
April	8.46%	\$210,267	0.72%	1.20%	7.98%	\$200,097	-4.84%	-0.20%	7.09%	\$195,208	-2.44%	7.40%	0.00%		-100.00%	
May	7.70%	\$191,296	13.53%	2.14%	7.73%	\$193,621	1.22%	-0.08%	8.00%	\$220,208	13.73%	7.94%	0.00%		-100.00%	
June	8.73%	\$217,056	-4.78%	1.49%	9.57%	\$239,953	10.55%	0.85%	11.12%	\$305,934	27.50%	9.81%	0.00%		-100.00%	
<b>Total</b>	<b>100.00%</b>	<b>\$2,485,248</b>			<b>100.00%</b>	<b>\$2,506,282</b>			<b>100.00%</b>	<b>\$2,752,151</b>			<b>100.00%</b>	<b>\$986,238</b>		

**Annual Comparison by Month**



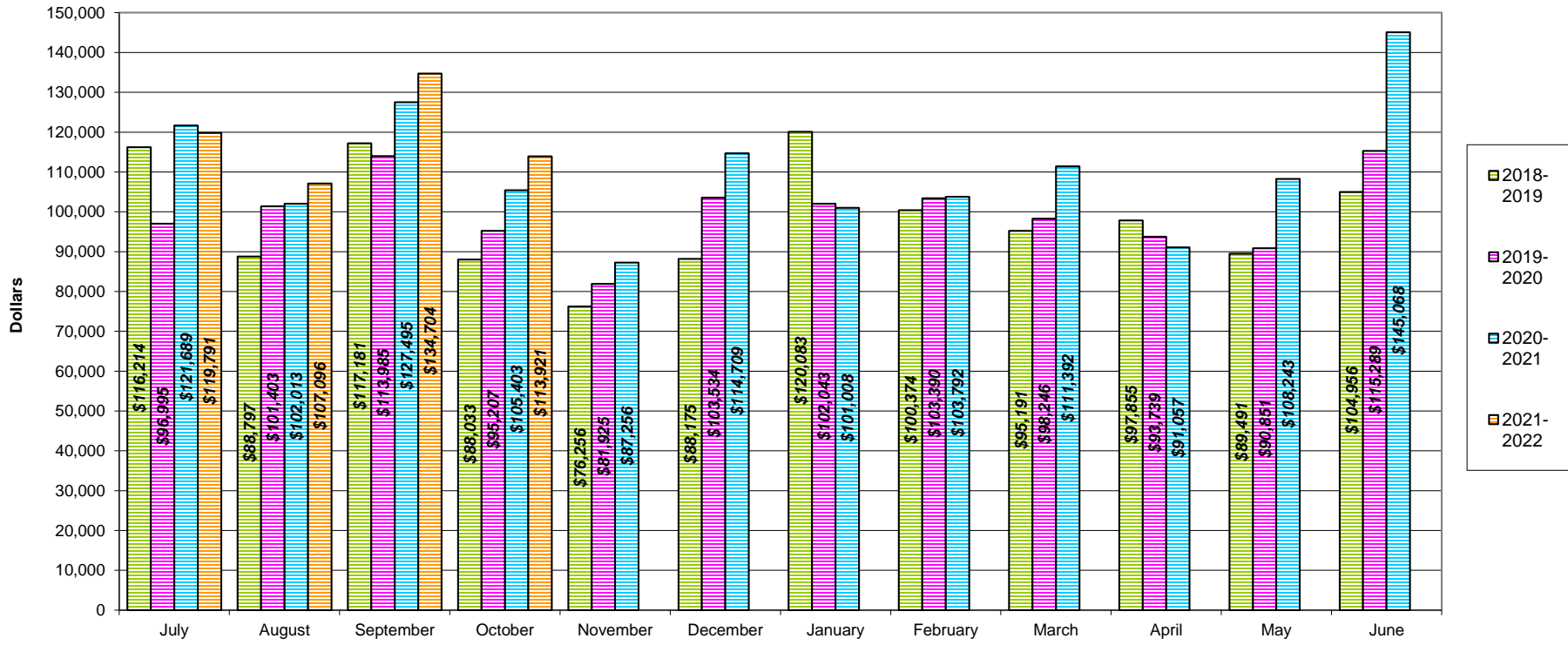


**City of Moberly  
One-Half Percent (1/2%) Parks Fund Sales Tax Analysis**

#16.

	2018-2019				2019-2020				2020-2021				2021-2022			
			Prior year comparison				Prior year comparison				Prior year comparison				Prior year comparison	
	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change
July	9.83%	\$116,214	-4.54%	-4.54%	8.11%	\$96,995	-16.54%	-16.54%	9.23%	\$121,689	25.46%	25.46%	25.19%	\$119,791	-1.56%	-1.56%
August	7.51%	\$88,797	15.53%	3.22%	8.47%	\$101,403	14.20%	-3.23%	7.73%	\$102,013	0.60%	12.75%	22.52%	\$107,096	4.98%	1.42%
September	9.91%	\$117,181	10.81%	5.86%	9.53%	\$113,985	-2.73%	-3.04%	9.67%	\$127,495	11.85%	12.42%	28.33%	\$134,704	5.65%	2.96%
October	7.44%	\$88,033	-9.24%	2.21%	7.96%	\$95,207	8.15%	-0.64%	7.99%	\$105,403	10.71%	12.02%	23.96%	\$113,921	8.08%	4.14%
November	6.45%	\$76,256	26.13%	5.34%	6.85%	\$81,925	7.43%	0.62%	6.61%	\$87,256	6.51%	11.10%	0.00%		-100.00%	
December	7.46%	\$88,175	-37.56%	-4.70%	8.65%	\$103,534	17.42%	3.20%	8.70%	\$114,709	10.79%	11.05%	0.00%		-100.00%	
January	10.15%	\$120,083	46.93%	1.46%	8.53%	\$102,043	-15.02%	0.05%	7.66%	\$101,008	-1.01%	9.28%	0.00%		-100.00%	
February	8.49%	\$100,374	2.44%	1.58%	8.64%	\$103,390	3.00%	0.42%	7.87%	\$103,792	0.39%	8.13%	0.00%		-100.00%	
March	8.05%	\$95,191	-7.45%	0.53%	8.21%	\$98,246	3.21%	0.72%	8.44%	\$111,392	13.38%	8.70%	0.00%		-100.00%	
April	8.27%	\$97,855	5.53%	1.01%	7.83%	\$93,739	-4.21%	0.23%	6.90%	\$91,057	-2.86%	7.61%	0.00%		-100.00%	
May	7.57%	\$89,491	13.37%	1.93%	7.59%	\$90,851	1.52%	0.34%	8.21%	\$108,243	19.14%	8.58%	0.00%		-100.00%	
June	8.87%	\$104,956	-4.21%	1.35%	9.63%	\$115,289	9.85%	1.18%	11.00%	\$145,068	25.83%	10.24%	0.00%		-100.00%	
Total	100.00%	\$1,182,605			100.00%	\$1,196,607			100.00%	\$1,319,125			100.00%	\$475,513		

**Annual Comparison by Month**

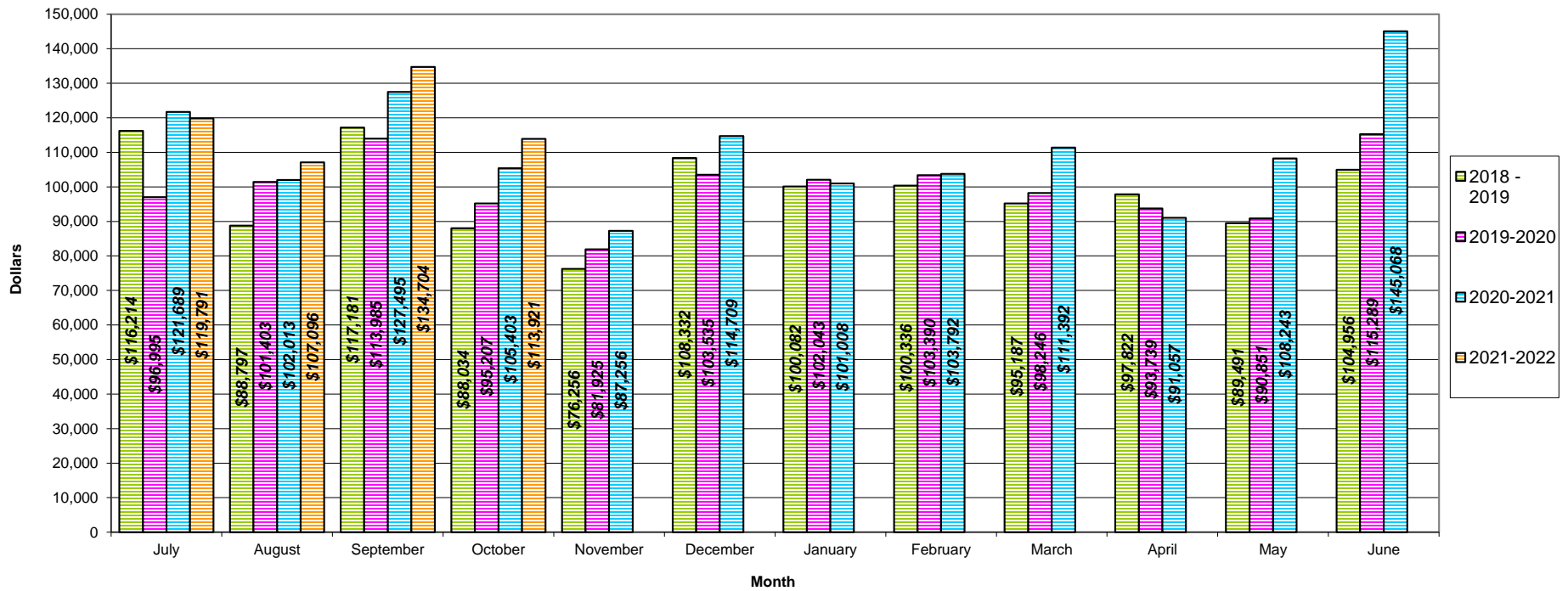


**City of Moberly**  
**One-Half Percent (1/2%) Capital Improvement Fund Sales Tax Analysis**

#16.

	2018 - 2019				2019-2020				2020-2021				2021-2022			
			Prior year comparison				Prior year comparison				Prior year comparison				Prior year comparison	
	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change
July	9.83%	\$116,214	-4.54%	-4.54%	8.11%	\$96,995	-16.54%	-16.54%	9.23%	\$121,689	25.46%	25.46%	25.19%	\$119,791	-1.56%	-1.56%
August	7.51%	\$88,797	15.53%	3.22%	8.47%	\$101,403	14.20%	-3.23%	7.73%	\$102,013	0.60%	12.75%	22.52%	\$107,096	4.98%	1.42%
September	9.91%	\$117,181	10.81%	5.86%	9.53%	\$113,985	-2.73%	-3.04%	9.67%	\$127,495	11.85%	12.42%	28.33%	\$134,704	5.65%	2.96%
October	7.44%	\$88,034	-9.24%	2.21%	7.96%	\$95,207	8.15%	-0.64%	7.99%	\$105,403	10.71%	12.02%	23.96%	\$113,921	8.08%	4.14%
November	6.45%	\$76,256	26.13%	5.34%	6.85%	\$81,925	7.43%	0.62%	6.61%	\$87,256	6.51%	11.10%	0.00%		-100.00%	
December	9.16%	\$108,332	-23.29%	-1.36%	8.65%	\$103,535	-4.43%	-0.30%	8.70%	\$114,709	10.79%	11.05%	0.00%		-100.00%	
January	8.46%	\$100,082	22.45%	1.48%	8.53%	\$102,043	1.96%	0.03%	7.66%	\$101,008	-1.01%	9.28%	0.00%		-100.00%	
February	8.48%	\$100,336	2.40%	1.60%	8.64%	\$103,390	3.04%	0.41%	7.87%	\$103,792	0.39%	8.13%	0.00%		-100.00%	
March	8.05%	\$95,187	-7.45%	0.55%	8.21%	\$98,246	3.21%	0.71%	8.44%	\$111,392	13.38%	8.70%	0.00%		-100.00%	
April	8.27%	\$97,822	5.49%	1.01%	7.83%	\$93,739	-4.17%	0.23%	6.90%	\$91,057	-2.86%	7.61%	0.00%		-100.00%	
May	7.57%	\$89,491	13.37%	1.94%	7.59%	\$90,851	1.52%	0.33%	8.21%	\$108,243	19.14%	8.58%	0.00%		-100.00%	
June	8.87%	\$104,956	-4.21%	1.36%	9.63%	\$115,289	9.85%	1.18%	11.00%	\$145,068	25.83%	10.24%	0.00%		-100.00%	
<b>Total</b>	<b>100.00%</b>	<b>\$1,182,688</b>			<b>100.00%</b>	<b>\$1,196,609</b>			<b>100.00%</b>	<b>\$1,319,126</b>			<b>100.00%</b>	<b>\$475,513</b>		

**Annual Comparison by Month**

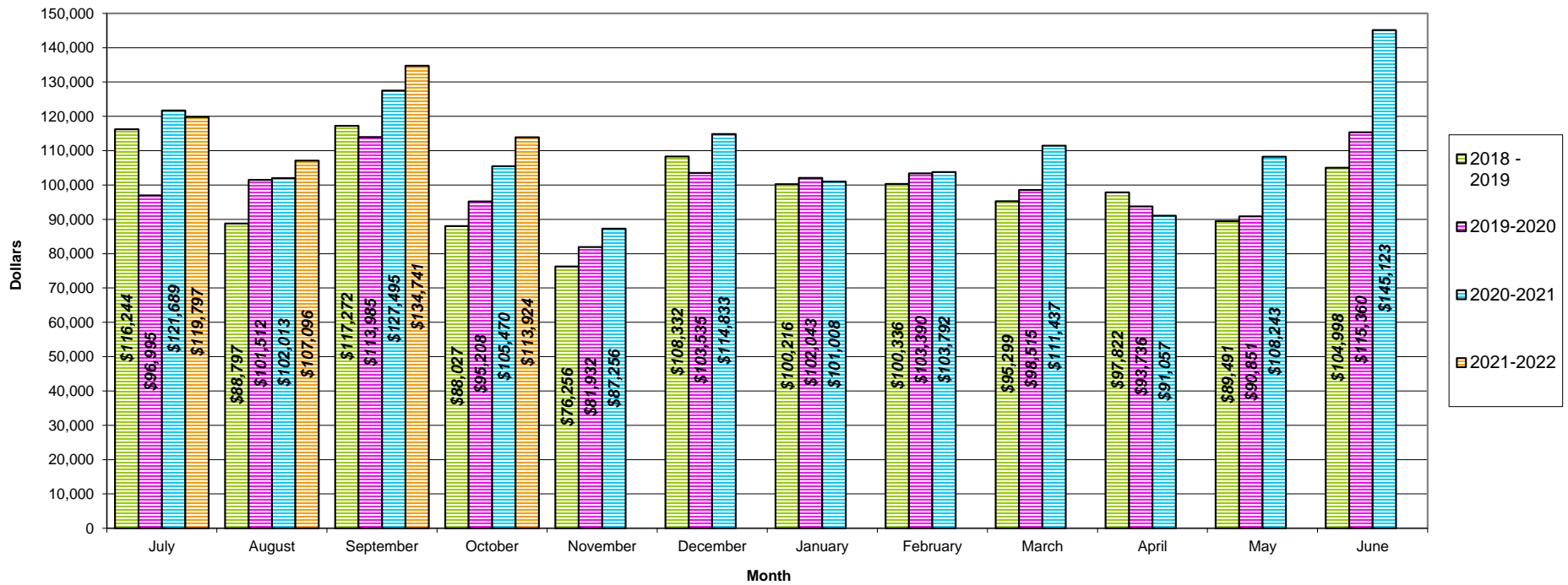


**City of Moberly**  
**One-Half Percent (1/2%) Transportation Trust Fund Sales Tax Analysis**

#16.

	2018 - 2019				2019-2020				2020-2021				2021-2022			
			Prior year comparison				Prior year comparison				Prior year comparison				Prior year comparison	
	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change
July	9.83%	\$116,244	-4.52%	-4.52%	8.10%	\$96,995	-16.56%	-16.56%	9.22%	\$121,689	25.46%	25.46%	25.19%	\$119,797	-1.55%	-1.55%
August	7.51%	\$88,797	15.53%	3.24%	8.48%	\$101,512	14.32%	-3.19%	7.73%	\$102,013	0.49%	12.69%	22.52%	\$107,096	4.98%	1.43%
September	9.91%	\$117,272	10.87%	5.89%	9.52%	\$113,985	-2.80%	-3.05%	9.66%	\$127,495	11.85%	12.39%	28.33%	\$134,741	5.68%	2.97%
October	7.44%	\$88,027	-9.27%	2.22%	7.95%	\$95,208	8.16%	-0.64%	7.99%	\$105,470	10.78%	12.01%	23.96%	\$113,924	8.02%	4.14%
November	6.45%	\$76,256	26.13%	5.35%	6.84%	\$81,932	7.44%	0.62%	6.61%	\$87,256	6.50%	11.09%	0.00%		-100.00%	
December	9.16%	\$108,332	-23.29%	-1.35%	8.65%	\$103,535	-4.43%	-0.30%	8.70%	\$114,833	10.91%	11.06%	0.00%		-100.00%	
January	8.47%	\$100,216	22.56%	1.50%	8.52%	\$102,043	1.82%	0.01%	7.66%	\$101,008	-1.01%	9.29%	0.00%		-100.00%	
February	8.48%	\$100,336	2.40%	1.62%	8.64%	\$103,390	3.04%	0.39%	7.87%	\$103,792	0.39%	8.13%	0.00%		-100.00%	
March	8.06%	\$95,299	-7.36%	0.57%	8.23%	\$98,515	3.37%	0.71%	8.45%	\$111,437	13.12%	8.68%	0.00%		-100.00%	
April	8.27%	\$97,822	5.49%	1.04%	7.83%	\$93,736	-4.18%	0.23%	6.90%	\$91,057	-2.86%	7.59%	0.00%		-100.00%	
May	7.56%	\$89,491	13.37%	1.96%	7.59%	\$90,851	1.52%	0.33%	8.20%	\$108,243	19.14%	8.56%	0.00%		-100.00%	
June	8.87%	\$104,998	-4.17%	1.38%	9.64%	\$115,360	9.87%	1.18%	11.00%	\$145,123	25.80%	10.22%	0.00%		-100.00%	
<b>Total</b>	<b>100.00%</b>	<b>\$1,183,089</b>			<b>100.00%</b>	<b>\$1,197,062</b>			<b>100.00%</b>	<b>\$1,319,415</b>			<b>100.00%</b>	<b>\$475,558</b>		

**Annual Comparison by Month**

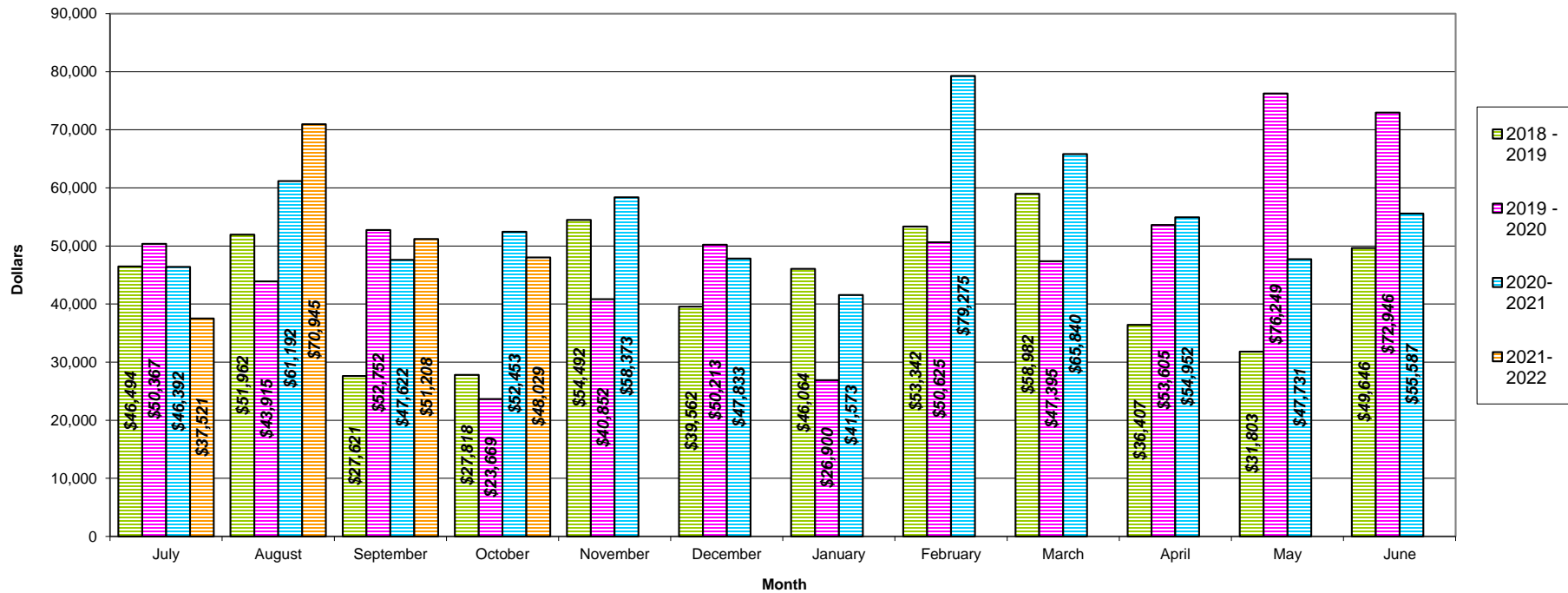


**City of Moberly**  
**Two & One-Half Percent (2-1/2%) Use Tax Analysis**

#16.

	2018 - 2019				2019 - 2020				2020-2021				2021-2022			
			Prior year comparison				Prior year comparison				Prior year comparison				Prior year comparison	
	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change
July	8.87%	\$46,494	33.98%	33.98%	8.54%	\$50,367	8.33%	8.33%	7.04%	\$46,392	-7.89%	-7.89%	18.06%	\$37,521	-19.12%	-19.12%
August	9.91%	\$51,962	76.73%	53.59%	7.45%	\$43,915	-15.49%	-4.24%	9.29%	\$61,192	39.34%	14.11%	34.16%	\$70,945	15.94%	0.82%
September	5.27%	\$27,621	-60.92%	-6.46%	8.95%	\$52,752	90.99%	16.62%	7.23%	\$47,622	-9.73%	5.56%	24.65%	\$51,208	7.53%	2.88%
October	5.31%	\$27,818	99.55%	3.47%	4.02%	\$23,669	-14.91%	10.92%	7.96%	\$52,453	121.61%	21.65%	23.12%	\$48,029	-8.44%	0.02%
November	10.40%	\$54,492	99.30%	18.35%	6.93%	\$40,852	-25.03%	1.52%	8.86%	\$58,373	42.89%	25.75%	0.00%		-100.00%	
December	7.55%	\$39,562	-9.57%	12.80%	8.52%	\$50,213	26.92%	5.57%	7.26%	\$47,833	-4.74%	19.90%	0.00%		-100.00%	
January	8.79%	\$46,064	17.37%	13.49%	4.56%	\$26,900	-41.60%	-1.82%	6.31%	\$41,573	54.55%	23.13%	0.00%		-100.00%	
February	10.18%	\$53,342	-37.08%	1.02%	8.59%	\$50,625	-5.09%	-2.32%	12.03%	\$79,275	56.59%	28.12%	0.00%		-100.00%	
March	11.25%	\$58,982	0.52%	0.95%	8.04%	\$47,395	-19.65%	-4.84%	9.99%	\$65,840	38.92%	29.45%	0.00%		-100.00%	
April	6.95%	\$36,407	6.51%	1.38%	9.09%	\$53,605	47.24%	-0.55%	8.34%	\$54,952	2.51%	26.17%	0.00%		-100.00%	
May	6.07%	\$31,803	-17.39%	-0.14%	12.93%	\$76,249	139.75%	8.85%	7.24%	\$47,731	-37.40%	16.78%	0.00%		-100.00%	
June	9.47%	\$49,646	4.21%	0.26%	12.37%	\$72,946	46.93%	12.46%	8.44%	\$55,587	-23.80%	11.76%	0.00%		-100.00%	
<b>Total</b>	<b>100.00%</b>	<b>\$524,193</b>			<b>100.00%</b>	<b>\$589,488</b>			<b>100.00%</b>	<b>\$658,823</b>			<b>100.00%</b>	<b>\$207,702</b>		

**Annual Comparison by Month**

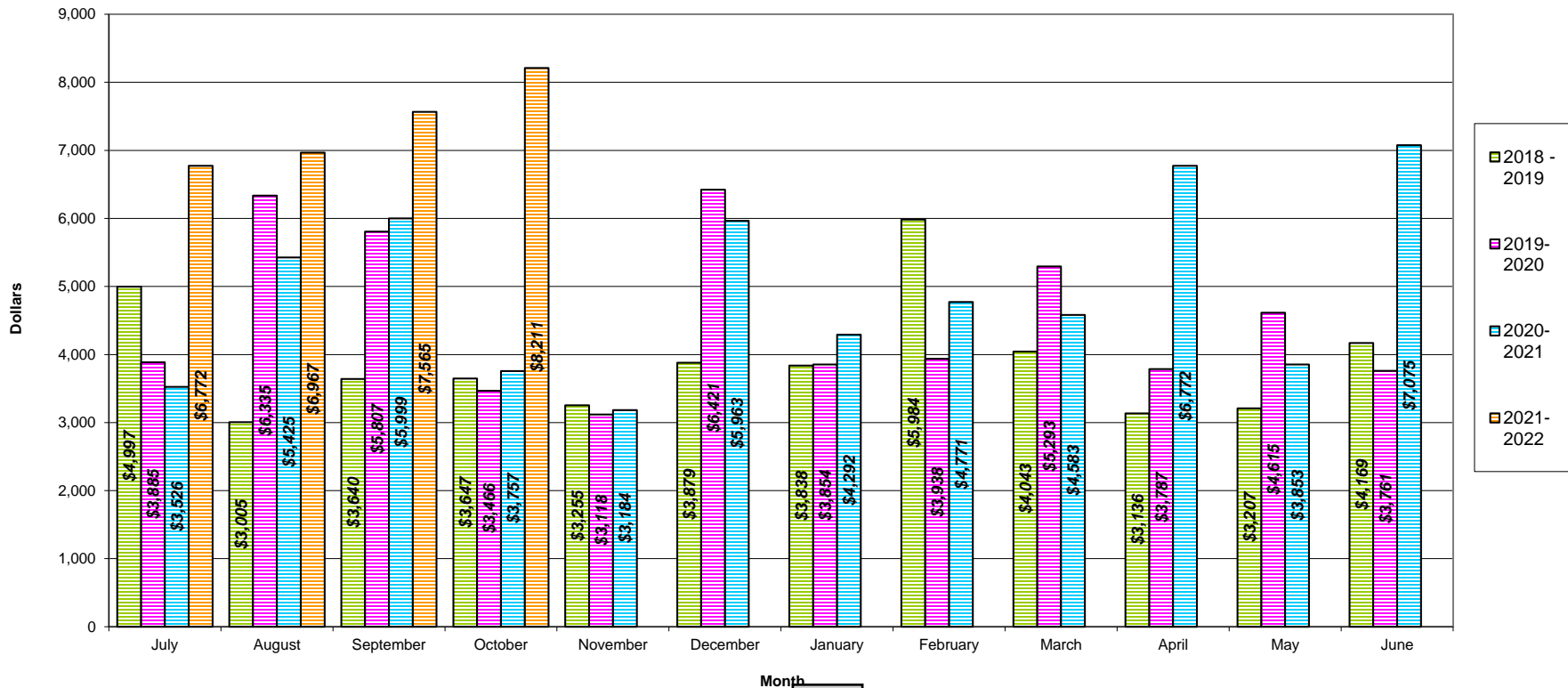


**City of Moberly**  
**One Percent (1%) Downtown Community Improvement District Sales & Use Tax Analysis**

#16.

	2018 - 2019				2019-2020				2020-2021				2021-2022			
			Prior year comparison				Prior year comparison				Prior year comparison				Prior year comparison	
	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change	% of total	Amount	Monthly Change	YTD Change
July	10.68%	\$4,997	NA	NA	7.16%	\$3,885	-22.25%	-22.25%	5.96%	\$3,526	-9.24%	-9.24%	22.94%	\$6,772	92.03%	92.03%
August	6.42%	\$3,005	NA	NA	11.67%	\$6,335	110.82%	27.72%	9.16%	\$5,425	-14.37%	-12.42%	23.61%	\$6,967	28.42%	53.48%
September	7.78%	\$3,640	NA	NA	10.70%	\$5,807	59.53%	37.67%	10.13%	\$5,999	3.32%	-6.72%	25.63%	\$7,565	26.09%	42.49%
October	7.79%	\$3,647	NA	NA	6.39%	\$3,466	-4.97%	27.50%	6.35%	\$3,757	8.39%	-4.03%	27.82%	\$8,211	118.56%	57.76%
November	6.96%	\$3,255	NA	NA	5.75%	\$3,118	-4.21%	21.93%	5.38%	\$3,184	2.09%	-3.19%	0.00%		-100.00%	
December	8.29%	\$3,879	20.72%	20.72%	11.83%	\$6,421	65.55%	29.48%	10.07%	\$5,963	-7.14%	-4.06%	0.00%		-100.00%	
January	8.20%	\$3,838	18.14%	19.42%	7.10%	\$3,854	0.40%	25.23%	7.25%	\$4,292	11.36%	-2.25%	0.00%		-100.00%	
February	12.79%	\$5,984	3.69%	12.00%	7.26%	\$3,938	-34.19%	14.20%	8.06%	\$4,771	21.14%	0.25%	0.00%		-100.00%	
March	8.64%	\$4,043	-8.74%	6.48%	9.75%	\$5,293	30.90%	16.06%	7.74%	\$4,583	-13.42%	-1.47%	0.00%		-100.00%	
April	6.70%	\$3,136	19.03%	8.20%	6.98%	\$3,787	20.74%	16.44%	11.44%	\$6,772	78.83%	5.15%	0.00%		-100.00%	
May	6.85%	\$3,207	23.58%	10.02%	8.50%	\$4,615	43.88%	18.50%	6.51%	\$3,853	-16.50%	3.18%	0.00%		-100.00%	
June	8.91%	\$4,169	-22.83%	3.52%	6.93%	\$3,761	-9.77%	15.98%	11.95%	\$7,075	88.10%	9.06%	0.00%		-100.00%	
<b>Total</b>	<b>100.00%</b>	<b>\$46,801</b>			<b>100.00%</b>	<b>\$54,280</b>			<b>100.00%</b>	<b>\$59,199</b>			<b>100.00%</b>	<b>\$29,514</b>		

**Annual Comparison by Month**



**City of Moberly Health Plan Trust**  
**Comparative Profit & Loss Statement**  
**September 2021**

<u>Income</u>	<u>July-September 2021</u>	<u>July-September 2020</u>	<u>\$ Change</u>	<u>% Change</u>
4900 Miscellaneous	0.00	3,060.00	(3,060.00)	-100.00%
4901 Interest Income	23.54	94.07	(70.53)	-74.98%
4950 Employer Contributions	333,671.18	343,555.55	(9,884.37)	-2.88%
4951 Employee Contributions	74,551.62	42,318.50	32,233.12	76.17%
4952 Employee Cobra Payments	0.00	2,973.71	(2,973.71)	-100.00%
4953 Reinsurance Refunds	13,509.27	9,448.28	4,060.99	42.98%
4954 Employee Buy-up Premiums	<u>1,875.00</u>	<u>0.00</u>	<u>1,875.00</u>	<u>0.00%</u>
Total Income	423,630.61	401,450.11	22,180.50	5.53%
 <u>Expenditures</u>				
5406 Contracted Services	0.00	0.00	0.00	100.00%
5806 Miscellaneous	126.00	0.00	126.00	100.00%
5817 Bank Fees	0.00	261.39	(261.39)	-100.00%
5850 Health Claims Paid	225,269.26	190,807.47	34,461.79	18.06%
5851 Pharmaceuticals	61,827.71	93,967.14	(32,139.43)	-34.20%
5852 Reinsurance Premiums	92,475.44	86,121.25	6,354.19	7.38%
5853 Life Insurance Premiums	5,940.93	6,237.91	(296.98)	-4.76%
5854 Medical Claims Admin Fees	19,015.42	5,131.35	13,884.07	270.57%
5855 Dental Claims Admin Fees	1,319.50	1,313.00	6.50	0.50%
5856 Air Ambulance Memberships	6,300.00	0.00	6,300.00	100.00%
5857 Dental Claims Paid	14,629.77	20,192.79	(5,563.02)	-27.55%
5858 HSA Account Fees	<u>212.50</u>	<u>0.00</u>	<u>212.50</u>	<u>100.00%</u>
Total Expenditures	<u>427,116.53</u>	<u>404,032.30</u>	<u>23,084.23</u>	<u>5.71%</u>
 <b>Net Income (Loss)</b>	 <b><u>(3,485.92)</u></b>	 <b><u>(2,582.19)</u></b>	 <b><u>(903.73)</u></b>	 <b><u>35.00%</u></b>

**City of Moberly Health Plan Trust**  
**Comparative Balance Sheet**  
**September 30, 2021**

<u>ASSETS</u>	<u>September 30, 2021</u>	<u>September 30, 2020</u>	<u>\$ Change</u>	<u>% Change</u>
Current Assets				
1000 Cash	<u>516,375.33</u>	<u>358,230.40</u>	<u>158,144.93</u>	<u>44.15%</u>
Total Current Assets	516,375.33	358,230.40	158,144.93	44.15%
Other Assets				
1300 Investments	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>100.00%</u>
Total Other Assets	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>100.00%</u>
<b>TOTAL ASSETS</b>	<b><u>516,375.33</u></b>	<b><u>358,230.40</u></b>	<b><u>158,144.93</u></b>	<b><u>44.15%</u></b>
<u>LIABILITIES &amp; EQUITY</u>				
Equity				
3000 Unreserved Fund Balance	519,861.25	360,812.59	159,048.66	44.08%
Net Income (Loss)	<u>(3,485.92)</u>	<u>(2,582.19)</u>	<u>(903.73)</u>	<u>35.00%</u>
Total Equity	<u>516,375.33</u>	<u>358,230.40</u>	<u>158,144.93</u>	<u>44.15%</u>
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b><u>516,375.33</u></b>	<b><u>358,230.40</u></b>	<b><u>158,144.93</u></b>	<b><u>44.15%</u></b>



**City of**

**Police Department**  
 Troy Link  
 Chief of Police  
 264<sup>th</sup> Session FBI Academy

300 N Clark Street  
 Moberly, MO 65270  
 Phone: 660-263-0346  
 Fax: 660-263-8540

**Division of Criminal Investigation**  
**Monthly Report**  
**September 2021**

1. Domestic Assault 3<sup>rd</sup> Degree: Suspect: MT, B/M, 34 yoa; Victim: AM, W/F, 32 yoa. Reports sent to RCPA.
2. Domestic Assault 3<sup>rd</sup> Degree: Suspect: BC, W/F, 29 yoa; Victim: MR, W/M, 34 yoa. Reports sent to RCPA.
3. DWI: Suspect: KG, W/M, 62 yoa; Victim: State of Missouri. Reports sent to RCPA.
4. Domestic Assault 1<sup>st</sup>; Suspect: DB 41 yo B/F, Victim: PL 44 yo B/M Disposition: Reports sent to RCPA
5. Child Molestation 1<sup>st</sup>; Suspect: DC 46 yo W/M, Victim: EV 17 yo W/F Disposition: Unfounded forwarded to Monroe County
6. Arson; Suspect; HM 39 yo W/F, Victim: CR 40 yo W/F, Disposition: Unfounded. Fire Marshall unable to determine arson
7. Taney County Warrant (Domestic Assault): Suspect; SW, W/M, 28 yoa, Victim: State of Missouri, Disposition: Reports sent to Taney County PA
8. Randolph County Warrant (FTA-Drug Possession): Suspect; CJ, W/M, 32 yoa, Victim; State of Missouri, Disposition: Reports sent to RCPA
9. Randolph County Warrant (Drug Possession): Suspect; CJ, W/M, 32 yoa, Victim; State of Missouri, Disposition: Reports sent to RCPA
10. Resisting Arrest for a Felony: Suspect; CJ, W/M, 32 yoa, Victim; State of Missouri, Disposition: Reports sent to RCPA
11. Delivery of a Controlled Substance Except 35 Grams or Less of Marijuana: Suspect; CJ, W/M, 32 yoa, Victim; State of Missouri, Disposition: Reports sent to RCPA
12. Involuntary Manslaughter 1<sup>st</sup> : Suspect; DB, B/M, 38 yoa, Victim; LO, W/F, 47 yoa, Disposition: Reports sent to RCPA.



<b>Cases Cleared.....</b>	<b>12</b>
<b>Interviews.....</b>	<b>104</b>
<b>Interrogations.....</b>	<b>3</b>
<b>Reports Written.....</b>	<b>94</b>

### **Special Assignments**

#### Monthly Report

Completed Paycom for detective unit.  
 Approved numerous reports for Detective Unit.  
 Tagged numerous body camera videos.  
 Assisted with Pursuit Review Board.  
 Assisted with Peace Disturbance call at Tannehill Park.  
 Filled in as Watch Commander for night shift on 9/3/21.  
 Assisted with Harassment call.  
 Assisted with Domestic Abuse call.  
 Assisted with DWI arrest.  
 Conducted numerous building security checks.  
 Assisted with K9 track due to domestic assault investigation.  
 Assisted with warrant/ drugs arrest.  
 Assisted with a Hotline Report in reference to a Child Molestation investigation.  
 Spoke with Randolph Co Sheriff's Office about a reported Rape.  
 Spoke with North Village Staff and State investigator in reference to Rape investigation.  
 Assisted US Marshals Service with serving a criminal complaint.  
 Court in Huntsville.  
 Assisted with Domestic Assault (Stabbing) investigation.  
 Assisted with serving search warrant in reference to Domestic Assault investigation.  
 Assisted Patrol Division with a medical assistance call.  
 Attended Illicit Discharge training.  
 Assisted the Randolph County Children's Division with a check the well being.  
 Death Investigation involving two deceased  
 Responded to University Hospital to pick up a Sexual Assault Examination kit.  
 Responded to Women and Children's Hospital to pick up a Sexual Assault Examination kit.  
 Assisted with returning property to owner.  
 Attended a forensic interview in Columbia reference a Rape investigation.  
 Attended two autopsies in Columbia reference to overdose Death Investigation.  
 Interviewed witness in Murder investigation.  
 Assisted Patrol Division with a warrant arrest.  
 Court in Huntsville.  
 Assisted with recovering stolen license plate.  
 Assisted with Trespassing arrest.



**City of**

**Police Department**

Troy Link

Chief of Police

264<sup>th</sup> Session FBI Academy

300 N Clark Street

Moberly, MO 65270

Phone: 660-263-0346

Fax: 660-263-8540

Attended Supervisor's Meeting.

Assisted dispatch 9/3/21

Assisted Patrol with a peace disturbance

Attempted to locate escapee subject with warrants

Assisted patrol with a subject with warrants who ran on foot

Investigation of sexual assault

Assisted US Marshalls

Investigation of sexual assault involving two minors

Investigation of child molestation

Investigation of domestic assault 1<sup>st</sup> degree

Investigation of endangering welfare of a child

Assist dispatch 9/28/21

Attended three forensic interviews

Submitted two search warrants for child endangerment case

Submitted one search warrant for domestic assault

Typed Reports

Assisted NOMO Drug Task Force with setting up surveillance camera

Watched recorded interviews

Conducted knock and talk and arrested subject on a warrant

Investigated lead with NOMO in reference to escaped inmate from RCJC

Attended info sharing brief at the Sherriff's Office in reference to escaped inmate

Conducted surveillance on residence with NOMO

Assisted patrol/MSHP K9 Unit with attempting to locate a fleeing person

Investigated statutory rape case

Took initial for drug related child abuse investigation

Conducted field contact with suspicious person

Attended court

Interviewed alleged rape victim at jail

Assisted patrol with bomb threat at Moberly High School

Called in for overdose death investigation

Testified in court

Attended the National Tactical Offices Association week long training conference

Interviewed sources/family of overdose victims for information regarding the victim's deaths.

Coordinated with Calloway County PA to obtain DNA search warrant

Assisted Patrol staff with calls for service due to manpower

MPD SWAT meeting/gear out of new operator

Interviewed subject in reference to OD death investigations

OT detail for Gussmacker/Junk Junction

Testified in court

Assisted NOMO with Narcotics investigations/intelligence gathering

Pulled trash for NOMO narcotics investigation

Follow up interview with subject involved in overdose death investigation

Attempted contact with person with warrants at residence, met with negative results

Field contact with suspected drug activity at Fox Park

Collected intelligence from residences known for drug activity

Examined phones for multiple overdose death investigations

Traffic stop on known subjects involved in distribution of drugs

Recruitment of LETI Cadet

### **Recovered Property**

- MO License Plate / 43K-0KD / \$25.00

Respectfully Submitted,  
Tracey Hayes  
Commander

10/01/21  
07:49

Moberly Police Department  
Total CAD Calls Received, by Nature of Call

Page: 343  
1

Nature of Call	Total Calls Received	% of Total
Abandoned Vehicle	3	0.35
Accident/Motor Vehicle	30	3.50
Alarm Call	17	1.99
Animal Bite	1	0.12
Animal Complaint	9	1.05
Assault	5	0.58
Assist Other Agency	32	3.74
Assist Public/Employee	72	8.41
Building Check	140	16.36
City Ordinance Violation	5	0.58
Damage Property	8	0.93
Dangerous Drug	1	0.12
Death Investigation	2	0.23
Document Delivery/Pickup	1	0.12
Domestic Abuse	4	0.47
DWI	1	0.12
E911 Check	2	0.23
Extra Watch	53	6.19
Field Contact	14	1.64
Fire Health Safety Check	2	0.23
Found Property/Contraband	13	1.52
Fraud	3	0.35
Funeral Escort	7	0.82
Harassment	14	1.64
Health Safety	4	0.47
Intoxicated Person	1	0.12
Keeping the Peace	3	0.35
Medical Assist\RCAD	1	0.12
Missing Person	3	0.35
Motor Vehicle Theft	1	0.12
Parking Violation	10	1.17
Peace Disturbance	72	8.41
Runaway Juv	2	0.23
Sex Offenses	1	0.12
Special Assignment	8	0.93
Stealing	30	3.50
Suicide/Suicide Attempt	2	0.23
Suspicious Activity	68	7.94
Suspicious Person	11	1.29
Suspicious Vehicle	8	0.93
Traffic Complaint	137	16.00
Trespass/Refusing to Leave	5	0.58
Warrant Arrest	14	1.64
Try to Contact/Well-Being	36	4.21
Total Calls:		856

Report Includes:

All dates between `00:00:01 09/01/21` and `23:59:59 09/30/21`  
 All nature of incidents  
 All cities matching `MOB`  
 All types  
 All priorities  
 All agencies matching `1`

# Moberly Fire Department September Monthly Report 2021

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## *City of Moberly Fire Department*

**Emergency Dial 911**  
**Station #1 660-269-8705 EXT 2035**  
**Fax# 660-263-0596**  
**E-mail ryand@moberlyfd.com**  
**Station #2 660-263-4121**

**310 N. Clark**  
**Moberly, MO 65270-1520**  
**Fire Chief**  
**Don Ryan**

To: Mayor and City Council  
 From: Don Ryan, Fire Chief  
 Date: September 2, 2021  
 Re: August Monthly Council Report:

- Last month the fire department responded to 116 incidents (28 different types) this included: **18 fire related calls, 51 EMS Calls, 10 hazardous conditions, 28 service calls, 5 good intent calls, 4 false alarms & false calls, and 17 fire inspections.**
- The Department's three shifts combined training hours was **509**. The following topics were covered: Tower Operations; Fire Extinguisher Training for Personnel and Local Businesses; Recruit Training (consisting of Air Packs, Street Recognition, Driving Skills, and Hydrants); Ventilation; Storm Water; PPE; and Health and Wellness.
- COVID cases continue to be of concern statewide. The Chief participated in the COVID-19 weekly conference call (COAD).
- Vehicle maintenance: Engine 304 had to have the accelerator pedal and sensor replaced. Engine 302 remains out for service (repairing head gaskets and related engine issues). Engine 305 has incurred a similar fate as Engine 302; the engine has a blown head gasket and at least one injector is bad. This engine will be out of service until we can get Engine 302 back. We are doing our best to keep enough engines in service. We are re-experiencing water leakage around the pump packing seals and the cab hydraulic cylinders (to be able to raise the cab) need rebuilt on 304. This will be addressed when 302 and 305 returns.
- Equipment/station maintenance: The new door and other related renovation project at Station 2 had to be put on hold due to the other issues we have been dealing with regarding vehicles and other assignments that came up during the month.
- The Department continues with the hydrant location mapping project in conjunction with the Water Department. This will bring the mapping of all hydrants up-to-date.
- Hydrant testing for the year is on-going.
- Building inspections (CFOs) and annual business inspections continue to be performed on a regular basis.
- Annual hose testing has been completed for the year.
- The Department held a new recruit entrance exam test on September 17<sup>th</sup>. There were 5 participants who made it through the written, physical agility and oral interview process. We currently have no openings, and the testing was undertaken to provide a list for future hiring possibilities.

- Chief provided the interview for the City Manager's spot on the radio on September 22<sup>nd</sup>.
- Chief Ryan and Assistant City Clerk Woodin held the opening of the sealed bids for the new supervisor vehicle on Friday, September 24<sup>th</sup>.
- The Fire Chief and A-Shift participated in the CFO inspection at the SWIFT Foods plant.
- Chief Ryan and A-Shift attended the Annual Patriot's Dinner on September 11<sup>th</sup>. Moberly Fire Department (along with other First Responders from Randolph County) was awarded a resolution from Representative Ed Lewis recognizing their continuous efforts and work over the years.
- Emergency Management/Fire Chief: Submitted the final application for FY21 EMP Grant paperwork and forwarded it to the City Manager for final authorization.
- Emergency Management/Fire Chief and A-Shift were part of an exercise via webinar with Homeland Security.

#### Notice for October 2021

- October is Fire Prevention Month; the Department will continue the tradition of presentations/drills at the local schools and other institutions.
- In October, the Moberly Fire Department will have three personnel beginning their Hutchinson Community College Fire Academy commitment, starting of their on-line portion of the academy.
- Hydrant testing and business inspections will continue to move forward.
- Chief Ryan will be attending the Region B Homeland Security Oversight Committee Meeting on October 18<sup>th</sup> at the MACC Activity Center.
- Chief Ryan will be attending the LEPC meeting on October 28<sup>th</sup>.
- The Chief will be participating in the Randolph County Health Dept. COVID-19 conference calls, if held trughout the month.

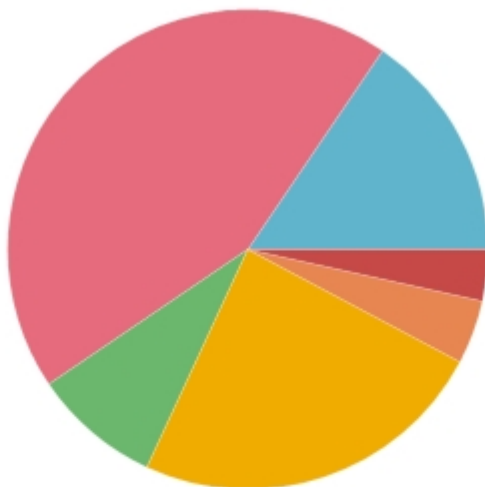


Emergency: Dial 911  
 Station #1: 660-269-8705 Ext: 2035  
 Fax: 600-263-0596  
 Station #2: 660-263-4121

## City of Moberly Fire Department

310 N. Clark  
 Moberly, MO 65270-1520

### Incident Reports By Incident Type, Summary



Incident Type	Total Incidents	Percent
111 - Building fire	2	1.72%
113 - Cooking fire, confined to container	1	0.86%
142 - Brush or brush-and-grass mixture fire	1	0.86%
151 - Outside rubbish, trash or waste fire	1	0.86%
1511 - Household Refuse Fire	1	0.86%
1512 - Building Materials/ Demo Mat. Fire	1	0.86%
1513 - Yard Waste/ Refuse Fire	6	5.17%
1514 - Recreational Fire	3	2.59%
1601 - Fence or other outside structure	1	0.86%
1605 - Power Pole	1	0.86%
3112 - Lift Assistance	15	12.93%
3113 - Standby, No care provided	2	1.72%



<b>Incident Type</b>	<b>Total Incidents</b>	<b>Percent</b>
321 - EMS call, excluding vehicle accident with injury	30	25.86%
322 - Motor vehicle accident with injuries	2	1.72%
324 - Motor vehicle accident with no injuries.	2	1.72%
412 - Gas leak (natural gas or LPG)	6	5.17%
424 - Carbon monoxide incident	1	0.86%
444 - Power line down	1	0.86%
445 - Arcing, shorted electrical equipment	1	0.86%
463 - Vehicle accident, general cleanup	1	0.86%
5001 - Gas Appliance Inspection	13	11.21%
5005 - CFO Inspection	4	3.45%
522 - Water or steam leak	1	0.86%
5311 - Report of odor with nothing found	9	7.76%
551 - Assist police or other governmental agency	1	0.86%
611 - Dispatched & canceled en route	3	2.59%
622 - No incident found on arrival at dispatch address	1	0.86%
661 - EMS call, party transported by non-fire agency	1	0.86%
735 - Alarm system sounded due to malfunction	3	2.59%
743 - Smoke detector activation, no fire - unintentional	1	0.86%

**Total Number of Incidents: 116**

**Total Number of Incident Types: 30**

Incident Type	Total Incidents	Percent
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**Report Filter Settings**

**Report File Name:** Incidents by Incident Type, Summary with Major Type Graph

**Filter Name:** Last Calendar Month

**Filter Expression:** [AlarmDateTime] is between '9/1/2021 12:00:00 AM' and '9/30/2021 11:59:59 PM'

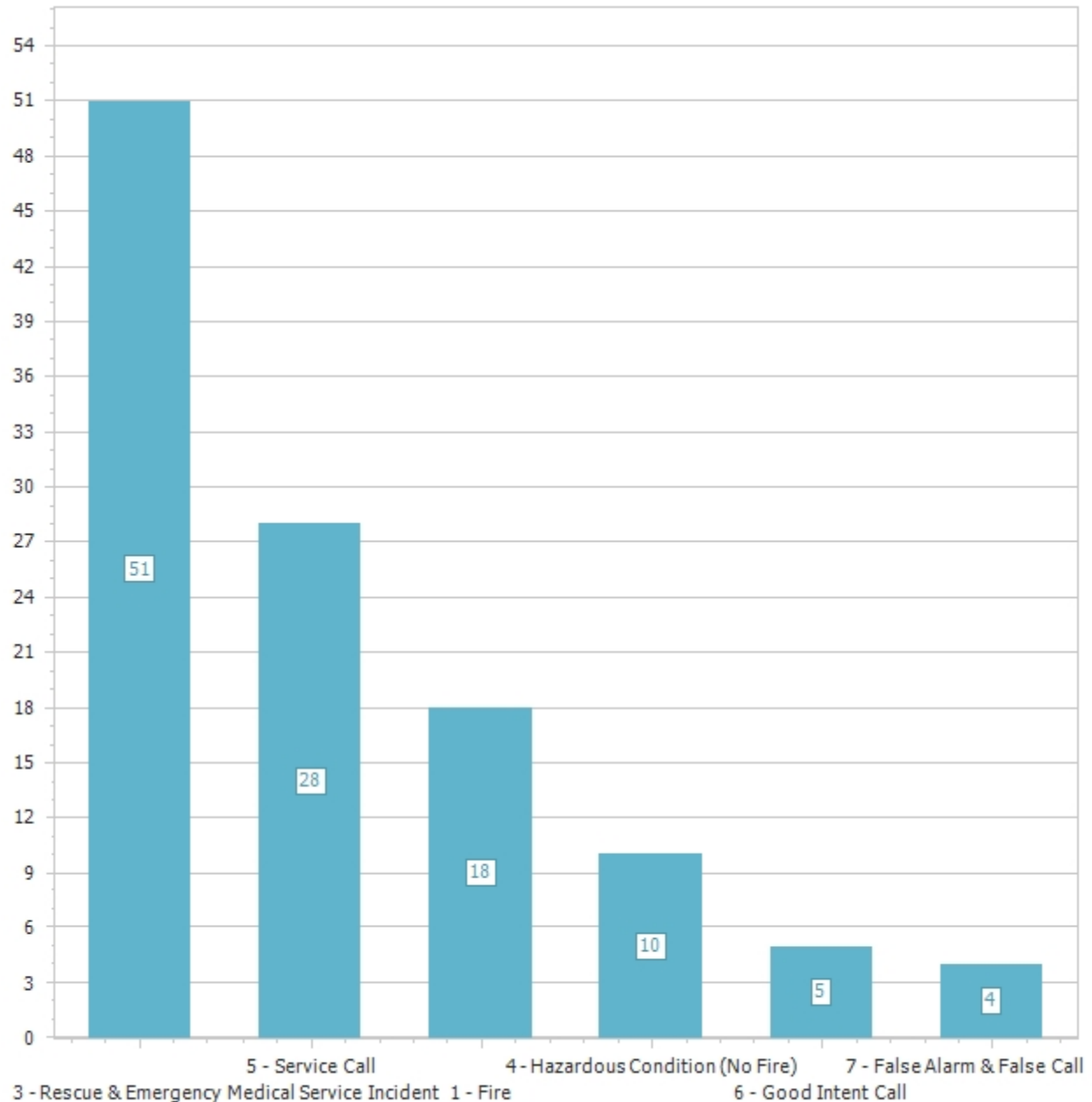


Emergency: Dial 911  
 Station #1: 660-269-8705 Ext: 2035  
 Fax: 600-263-0596  
 Station #2: 660-263-4121

## City of Moberly Fire Department

310 N. Clark  
 Moberly, MO 65270-1520

### Incident Reports by Incident Type Series, Detailed



**Incident Type:** 1 - Fire

Incident #	Exp #	Alarm Date/Time	Address
2100740	0	9/1/2021 1:51:36 PM	496 WOODLAND AVE, Moberly, MO 65270
2100746	0	9/2/2021 4:10:09 PM	200 BERTLEY, Moberly, MO 65270
2100759	0	9/7/2021 10:21:00 PM	714 Benson ST, Moberly, MO 65270
2100762	0	9/8/2021 5:22:48 PM	492 WOODLAND, Moberly, MO 65270
2100765	0	9/9/2021 8:13:04 AM	837 COATES, Moberly, MO 65270
2100783	0	9/14/2021 8:15:00 PM	407 Bertley ST, Moberly, MO 65270
2100785	0	9/15/2021 12:11:59 AM	400 US 24, Moberly, MO 65270
2100788	0	9/15/2021 5:21:00 PM	County Road 1218 RD, Moberly, MO 65270
2100798	0	9/18/2021 11:15:00 PM	215 Union AVE, Moberly, MO 65270
2100800	0	9/19/2021 6:28:29 PM	21 WINDSOR, Moberly, MO 65270
2100807	0	9/20/2021 8:38:27 PM	512 N Ault, Moberly, MO 65270
2100812	0	9/21/2021 5:10:00 PM	212 Walnut ST, Moberly, MO 65270
2100827	0	9/24/2021 6:12:00 PM	518 Johnson ST, Moberly, MO 65270
2100830	0	9/25/2021 8:15:00 PM	510 Fulton AVE, Moberly, MO 65270
2100845	0	9/28/2021 2:18:00 PM	503 S Fourth ST, Moberly, MO 65270
2100849	0	9/29/2021 5:15:00 PM	421 Tara Park DR, Moberly, MO 65270
2100852	0	9/30/2021 6:31:30 AM	1045 West End ST W, Moberly, MO 65270
2100853	0	9/30/2021 6:50:00 PM	1043 West End PL W, Moberly, MO 65270

**Total Incidents: 18****Incident Type:** 3 - Rescue & Emergency Medical Service Incident

Incident #	Exp #	Alarm Date/Time	Address
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2100738	0	9/1/2021 3:53:01 AM	224 Hinton ST #7, Moberly, MO 65270
2100743	0	9/1/2021 5:27:37 PM	1000 WILLIAMS #211, Moberly, MO 65270
2100744	0	9/1/2021 7:55:29 PM	714 COATES, Moberly, MO 65270
2100745	0	9/2/2021 1:35:28 AM	800 SINNOCK #24, Moberly, MO 65270
2100750	0	9/3/2021 7:40:00 PM	1403 MORLEY, Moberly, MO 65270
2100751	0	9/4/2021 11:18:19 AM	1355 Lantern PT, Moberly, MO 65270
2100752	0	9/4/2021 12:32:59 PM	E Highway 24 & N Highway 63, Moberly, MO
2100753	0	9/4/2021 4:59:30 PM	E Highway 24 & W Outer RD, Moberly, MO
2100754	0	9/4/2021 9:53:01 PM	111 E Coates ST, Moberly, MO 65270
2100755	0	9/4/2021 10:12:03 PM	422 TAYLOR, Moberly, MO 65270
2100756	0	9/5/2021 12:59:03 PM	302 COLLEGE, Moberly, MO 65270
2100757	0	9/6/2021 6:29:21 AM	709 ROLLINS, Moberly, MO 65270
2100758	0	9/6/2021 5:17:00 PM	423 5TH, Moberly, MO 65270
2100766	0	9/9/2021 3:16:09 PM	614 WILLIAMS, Moberly, MO 65270
2100767	0	9/9/2021 7:12:00 PM	1403 Henry ST, Moberly, MO 65270
2100768	0	9/10/2021 5:47:00 AM	1028 Sinnock AVE #53, Moberly, MO 65270
2100771	0	9/10/2021 3:31:00 PM	920 Henry ST, Moberly, MO 65270
2100775	0	9/11/2021 6:54:47 AM	1400 BLK HULEN, Moberly, MO 65270
2100776	0	9/12/2021 2:29:00 PM	15 MCCORMICK, Moberly, MO 65270
2100778	0	9/13/2021 3:11:03 PM	941 ROLLINS, Moberly, MO 65270
2100784	0	9/14/2021 11:18:00 PM	205 205 Farror, Moberly, MO 65270
2100789	0	9/15/2021 6:46:00 PM	800 Sinnock AVE #2, Moberly, MO 65270
2100790	0	9/15/2021 6:59:00 PM	812 Franklin ST, Moberly, MO 65270

2100796	0	9/18/2021 3:31:25 AM	721 BENSON, Moberly, MO 65270
2100797	0	9/18/2021 3:40:00 PM	220 Taylor ST, Moberly, MO 65270
2100799	0	9/19/2021 3:02:00 AM	601 McKinley AVE, Moberly, MO 65270
2100801	0	9/20/2021 4:41:22 AM	1000 WILLIAMS #201, Moberly, MO 65270
2100802	0	9/20/2021 9:42:52 AM	913 BOND, Moberly, MO 65270
2100803	0	9/20/2021 3:04:04 PM	909 PORTER, Moberly, MO 65270
2100808	0	9/21/2021 8:55:00 AM	1000 S Williams ST S, Moberly, MO 65270
2100810	0	9/21/2021 10:34:00 AM	1801 W Outer RD W, Moberly, MO 65270
2100813	0	9/21/2021 5:38:00 PM	801 Monroe AVE, Moberly, MO 65270
2100815	0	9/22/2021 9:31:42 PM	800 SINNOCK #22, Moberly, MO 65270
2100816	0	9/22/2021 11:20:02 PM	1216 SHEPHERDS, Moberly, MO 65270
2100818	0	9/23/2021 4:02:25 AM	1013 BURKHART, Moberly, MO 65270
2100819	0	9/23/2021 1:10:00 PM	200 Porter ST, Moberly, MO 65270
2100820	0	9/23/2021 3:56:00 PM	717 Garfield AVE, Moberly, MO 65270
2100822	0	9/23/2021 7:03:04 PM	845 HOMESTEAD, Moberly, MO 65270
2100824	0	9/24/2021 8:18:00 AM	S Williams ST S & W Lee ST W, Moberly, MO
2100828	0	9/25/2021 12:18:40 PM	805 Monroe, Moberly, MO 65270
2100831	0	9/26/2021 12:31:50 AM	1222 HURLEY, Moberly, MO 65270
2100832	0	9/26/2021 4:58:41 AM	1000 S WILLIAMS STS #403, Moberly, MO 65270
2100834	0	9/26/2021 1:20:23 PM	954 meadowbrook, moberly, MO 65270
2100835	0	9/27/2021 6:23:44 AM	1216 SHEPHERDS, Moberly, MO 65270
2100838	0	9/27/2021 3:21:09 PM	AULT, Moberly, MO 65270
2100839	0	9/27/2021 5:23:00 PM	1736 Eastbrook CIR, Moberly, MO 65270

2100840	0	9/27/2021 5:38:00 PM	Hwy 63 RT & EE RT, Moberly, MO
2100841	0	9/27/2021 7:53:00 PM	1625 Gratz Brown ST, Moberly, MO 65270
2100842	0	9/28/2021 2:05:44 AM	715 N MORLEY ST, Moberly, MO 65270
2100844	0	9/28/2021 11:52:04 AM	456 Woodland AVE, Moberly, MO 65270
2100851	0	9/30/2021 3:54:13 AM	1600 ROLLINS, Moberly, MO 65270

**Total Incidents: 51**

**Incident Type:** 4 - Hazardous Condition (No Fire)

Incident #	Exp #	Alarm Date/Time	Address
2100748	0	9/3/2021 12:13:00 PM	324 Taylor ST, Moberly, MO 65270
2100760	0	9/7/2021 5:15:00 PM	500 S Williams ST, Moberly, MO 65270
2100763	0	9/8/2021 7:03:55 PM	1000 Kwix, Moberly, MO 65270
2100764	0	9/9/2021 1:56:24 AM	1376 Lantern Pointe, Moberly, MO 65270
2100794	0	9/17/2021 1:30:00 PM	411 Union AVE, Moberly, MO 65270
2100809	0	9/21/2021 9:20:00 AM	669 N Morlery ST N #B, Moberly, MO 65270
2100823	0	9/24/2021 12:07:27 AM	38 KENNEDY, Moberly, MO 65270
2100826	0	9/24/2021 3:52:00 PM	926 W Reed ST W, Moberly, MO 65270
2100836	0	9/27/2021 9:17:00 AM	709 W Rollins ST W, Moberly, MO 65270
2100850	0	9/29/2021 6:26:53 PM	1400 S Morley ST S, Moberly, MO 65270

**Total Incidents: 10**

**Incident Type:** 5 - Service Call

Incident #	Exp #	Alarm Date/Time	Address
2100739	0	9/1/2021 12:50:00 PM	705 W Coates ST, Moberly, MO 65270
2100742	0	9/1/2021 4:30:00 PM	920 S Fourth ST, Moberly, MO 65270

2100747	0	9/3/2021 10:00:00 AM	301 N Morley ST #B, Moberly, MO 65270
2100749	0	9/3/2021 3:00:00 PM	459 E Burkhart ST, Moberly, MO 65270
2100761	0	9/8/2021 11:17:29 AM	1016 ROLLINS, Moberly, MO 65270
2100769	0	9/10/2021 3:00:00 PM	1316 Cedar Ridge DR, Moberly, MO 65270
2100770	0	9/10/2021 3:30:00 PM	1304 N Morley ST, Moberly, MO 65270
2100772	0	9/10/2021 4:00:00 PM	402 S Ault ST, Moberly, MO 65270
2100773	0	9/10/2021 4:30:00 PM	817 S Morley ST, Moberly, MO 65270
2100774	0	9/10/2021 7:51:00 PM	1218 Fisk AVE, Moberly, MO 65270
2100777	0	9/13/2021 11:38:00 AM	1316 Cedar Ridge DR, Moberly, MO 65270
2100779	0	9/13/2021 8:47:00 PM	220 Taylor ST, Moberly, MO 65270
2100781	0	9/14/2021 1:45:00 PM	522 Burkholder ST, Moberly, MO 65270
2100786	0	9/15/2021 8:15:00 AM	837 Tuley RD, Moberly, MO 65270
2100791	0	9/15/2021 8:20:00 PM	220 Taylor ST, Moberly, MO 65270
2100793	0	9/16/2021 1:59:00 PM	22 Westwood PL, Moberly, MO 65270
2100795	0	9/17/2021 8:14:00 PM	220 Taylor ST, Moberly, MO 65270
2100805	0	9/20/2021 4:00:00 PM	2002 Silva LN, Moberly, MO 65270
2100806	0	9/20/2021 5:00:00 PM	1847 Cedar Lake DR, Moberly, MO 65270
2100814	0	9/22/2021 1:45:00 PM	524 Wescott LN, Moberly, MO 65270
2100817	0	9/23/2021 12:48:44 AM	220 TAYLOR, Moberly, MO 65270
2100821	0	9/23/2021 7:05:41 PM	220 TAYLOR, Moberly, MO 65270
2100829	0	9/25/2021 6:00:00 PM	220 Taylor ST, Moberly, MO 65270
2100837	0	9/27/2021 3:12:00 PM	416 E Logan ST E, Moberly, MO 65270
2100843	0	9/28/2021 8:00:00 AM	350 Oak TER, Moberly, MO 65270



2100846	0	9/28/2021 8:57:54 PM	220 Taylor ST, Moberly, MO 65270
2100847	0	9/28/2021 10:15:42 PM	407 BERTLEY, Moberly, MO 65270
2100848	0	9/29/2021 2:30:00 AM	220 Taylor ST, Moberly, MO 65270

**Total Incidents: 28**

**Incident Type:** 6 - Good Intent Call

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date/Time</b>	<b>Address</b>
2100741	0	9/1/2021 4:32:07 PM	317 W. HINTON, Moberly, MO 65270
2100782	0	9/14/2021 3:27:39 PM	300 HIGHWAY 24, Moberly, MO 65270
2100787	0	9/15/2021 10:01:00 AM	205 Farror ST, Moberly, MO 65270
2100804	0	9/20/2021 3:37:50 PM	1711 MORLEY, Moberly, MO 65270
2100811	0	9/21/2021 11:47:00 AM	100 McKeown DR, Moberly, MO 65270

**Total Incidents: 5**

**Incident Type:** 7 - False Alarm & False Call

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date/Time</b>	<b>Address</b>
2100780	0	9/14/2021 8:25:00 AM	1021 N Morley ST, Moberly, MO 65270
2100792	0	9/15/2021 11:35:00 PM	901 Union AVE, Moberly, MO 65270
2100825	0	9/24/2021 3:46:00 PM	903 W Reed ST W, Moberly, MO 65270
2100833	0	9/26/2021 8:14:54 AM	1332 HIGHWAY 24, Moberly, MO 65270

**Total Incidents: 4**

**Total Number of Distict Incidents: 116**

**Total Number of Distict Incident Types: 30**

**Report Filter Settings**

**Report File Name:** Incident Reports by Incident Major Type, Detailed

**Filter Name:** Last Month

**Filter Expression:** [AlarmDateTime] is between '9/1/2021 12:00:00 AM' and '9/30/2021 11:59:59 PM'

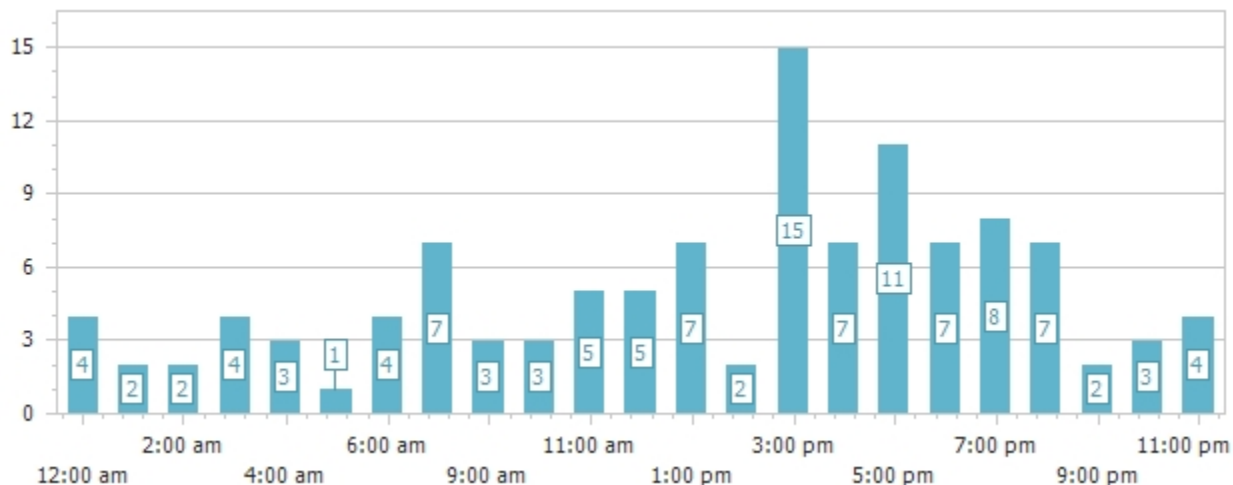


Emergency: Dial 911  
 Station #1: 660-269-8705 Ext: 2035  
 Fax: 600-263-0596  
 Station #2: 660-263-4121

## City of Moberly Fire Department

310 N. Clark  
 Moberly, MO 65270-1520

### Incident Reports by Time of Day, Detailed



#### 12:00 am

Incident #	Exp #	Alarm Date	Incident Type
2100785	0	9/15/2021	1605 - Power Pole
2100817	0	9/23/2021	5311 - Report of odor with nothing found
2100823	0	9/24/2021	412 - Gas leak (natural gas or LPG)
2100831	0	9/26/2021	321 - EMS call, excluding vehicle accident with injury

**Total Number of Incidents:** 4

#### 1:00 am

Incident #	Exp #	Alarm Date	Incident Type
2100745	0	9/2/2021	3112 - Lift Assistance
2100764	0	9/9/2021	424 - Carbon monoxide incident

**Total Number of Incidents:** 2

#### 2:00 am

Incident #	Exp #	Alarm Date	Incident Type
------------	-------	------------	---------------

2100842	0	9/28/2021	321 - EMS call, excluding vehicle accident with injury
2100848	0	9/29/2021	5311 - Report of odor with nothing found

**Total Number of Incidents:** 2

### 3:00 am

Incident #	Exp #	Alarm Date	Incident Type
2100738	0	9/1/2021	321 - EMS call, excluding vehicle accident with injury
2100796	0	9/18/2021	321 - EMS call, excluding vehicle accident with injury
2100799	0	9/19/2021	321 - EMS call, excluding vehicle accident with injury
2100851	0	9/30/2021	321 - EMS call, excluding vehicle accident with injury

**Total Number of Incidents:** 4

### 4:00 am

Incident #	Exp #	Alarm Date	Incident Type
2100801	0	9/20/2021	3112 - Lift Assistance
2100818	0	9/23/2021	3112 - Lift Assistance
2100832	0	9/26/2021	3112 - Lift Assistance

**Total Number of Incidents:** 3

### 5:00 am

Incident #	Exp #	Alarm Date	Incident Type
2100768	0	9/10/2021	321 - EMS call, excluding vehicle accident with injury

**Total Number of Incidents:** 1

### 6:00 am

Incident #	Exp #	Alarm Date	Incident Type
2100757	0	9/6/2021	3112 - Lift Assistance
2100775	0	9/11/2021	321 - EMS call, excluding vehicle accident with injury
2100835	0	9/27/2021	3112 - Lift Assistance
2100852	0	9/30/2021	111 - Building fire

**Total Number of Incidents:** 4

**8:00 am**

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date</b>	<b>Incident Type</b>
2100765	0	9/9/2021	1513 - Yard Waste/ Refuse Fire
2100780	0	9/14/2021	735 - Alarm system sounded due to malfunction
2100786	0	9/15/2021	5001 - Gas Appliance Inspection
2100808	0	9/21/2021	3112 - Lift Assistance
2100824	0	9/24/2021	321 - EMS call, excluding vehicle accident with injury
2100833	0	9/26/2021	735 - Alarm system sounded due to malfunction
2100843	0	9/28/2021	5001 - Gas Appliance Inspection

**Total Number of Incidents:** 7

**9:00 am**

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date</b>	<b>Incident Type</b>
2100802	0	9/20/2021	321 - EMS call, excluding vehicle accident with injury
2100809	0	9/21/2021	412 - Gas leak (natural gas or LPG)
2100836	0	9/27/2021	412 - Gas leak (natural gas or LPG)

**Total Number of Incidents:** 3

**10:00 am**

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date</b>	<b>Incident Type</b>
2100747	0	9/3/2021	5005 - CFO Inspection
2100787	0	9/15/2021	611 - Dispatched & canceled en route
2100810	0	9/21/2021	3112 - Lift Assistance

**Total Number of Incidents:** 3

**11:00 am**

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date</b>	<b>Incident Type</b>
2100751	0	9/4/2021	3112 - Lift Assistance
2100761	0	9/8/2021	551 - Assist police or other governmental agency
2100777	0	9/13/2021	5001 - Gas Appliance Inspection
2100811	0	9/21/2021	611 - Dispatched & canceled en route

2100844      0      9/28/2021      321 - EMS call, excluding vehicle accident with injury

**Total Number of Incidents:**      5

**12:00 pm**

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date</b>	<b>Incident Type</b>
2100739	0	9/1/2021	5001 - Gas Appliance Inspection
2100748	0	9/3/2021	444 - Power line down
2100752	0	9/4/2021	324 - Motor vehicle accident with no injuries.
2100756	0	9/5/2021	321 - EMS call, excluding vehicle accident with injury
2100828	0	9/25/2021	3112 - Lift Assistance

**Total Number of Incidents:**      5

**1:00 pm**

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date</b>	<b>Incident Type</b>
2100740	0	9/1/2021	111 - Building fire
2100781	0	9/14/2021	5001 - Gas Appliance Inspection
2100793	0	9/16/2021	5001 - Gas Appliance Inspection
2100794	0	9/17/2021	412 - Gas leak (natural gas or LPG)
2100814	0	9/22/2021	5001 - Gas Appliance Inspection
2100819	0	9/23/2021	321 - EMS call, excluding vehicle accident with injury
2100834	0	9/26/2021	321 - EMS call, excluding vehicle accident with injury

**Total Number of Incidents:**      7

**2:00 pm**

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date</b>	<b>Incident Type</b>
2100776	0	9/12/2021	321 - EMS call, excluding vehicle accident with injury
2100845	0	9/28/2021	151 - Outside rubbish, trash or waste fire

**Total Number of Incidents:**      2

**3:00 pm**

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date</b>	<b>Incident Type</b>
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2100749	0	9/3/2021	5001 - Gas Appliance Inspection
2100766	0	9/9/2021	3112 - Lift Assistance
2100769	0	9/10/2021	5001 - Gas Appliance Inspection
2100770	0	9/10/2021	5005 - CFO Inspection
2100771	0	9/10/2021	3112 - Lift Assistance
2100778	0	9/13/2021	321 - EMS call, excluding vehicle accident with injury
2100782	0	9/14/2021	611 - Dispatched & canceled en route
2100797	0	9/18/2021	321 - EMS call, excluding vehicle accident with injury
2100803	0	9/20/2021	3112 - Lift Assistance
2100804	0	9/20/2021	661 - EMS call, party transported by non-fire agency
2100820	0	9/23/2021	3113 - Standby, No care provided
2100825	0	9/24/2021	743 - Smoke detector activation, no fire - unintentional
2100826	0	9/24/2021	412 - Gas leak (natural gas or LPG)
2100837	0	9/27/2021	5001 - Gas Appliance Inspection
2100838	0	9/27/2021	324 - Motor vehicle accident with no injuries.

**Total Number of Incidents:** 15

#### 4:00 pm

Incident #	Exp #	Alarm Date	Incident Type
2100742	0	9/1/2021	5001 - Gas Appliance Inspection
2100741	0	9/1/2021	622 - No incident found on arrival at dispatch address
2100746	0	9/2/2021	113 - Cooking fire, confined to container
2100753	0	9/4/2021	322 - Motor vehicle accident with injuries
2100772	0	9/10/2021	5005 - CFO Inspection
2100773	0	9/10/2021	5005 - CFO Inspection
2100805	0	9/20/2021	5001 - Gas Appliance Inspection

**Total Number of Incidents:** 7

#### 5:00 pm

Incident #	Exp #	Alarm Date	Incident Type
2100743	0	9/1/2021	3112 - Lift Assistance
2100758	0	9/6/2021	321 - EMS call, excluding vehicle accident with injury

2100760	0	9/7/2021	463 - Vehicle accident, general cleanup
2100762	0	9/8/2021	1513 - Yard Waste/ Refuse Fire
2100788	0	9/15/2021	142 - Brush or brush-and-grass mixture fire
2100806	0	9/20/2021	5001 - Gas Appliance Inspection
2100812	0	9/21/2021	1511 - Household Refuse Fire
2100813	0	9/21/2021	321 - EMS call, excluding vehicle accident with injury
2100839	0	9/27/2021	321 - EMS call, excluding vehicle accident with injury
2100840	0	9/27/2021	322 - Motor vehicle accident with injuries
2100849	0	9/29/2021	1513 - Yard Waste/ Refuse Fire

**Total Number of Incidents:** 11

#### 6:00 pm

Incident #	Exp #	Alarm Date	Incident Type
2100789	0	9/15/2021	321 - EMS call, excluding vehicle accident with injury
2100790	0	9/15/2021	321 - EMS call, excluding vehicle accident with injury
2100800	0	9/19/2021	1601 - Fence or other outside structure
2100827	0	9/24/2021	1513 - Yard Waste/ Refuse Fire
2100829	0	9/25/2021	5311 - Report of odor with nothing found
2100850	0	9/29/2021	445 - Arcing, shorted electrical equipment
2100853	0	9/30/2021	1512 - Building Materials/ Demo Mat. Fire

**Total Number of Incidents:** 7

#### 7:00 pm

Incident #	Exp #	Alarm Date	Incident Type
2100744	0	9/1/2021	321 - EMS call, excluding vehicle accident with injury
2100750	0	9/3/2021	321 - EMS call, excluding vehicle accident with injury
2100763	0	9/8/2021	412 - Gas leak (natural gas or LPG)
2100767	0	9/9/2021	321 - EMS call, excluding vehicle accident with injury
2100774	0	9/10/2021	522 - Water or steam leak
2100822	0	9/23/2021	321 - EMS call, excluding vehicle accident with injury
2100821	0	9/23/2021	5311 - Report of odor with nothing found
2100841	0	9/27/2021	3113 - Standby, No care provided



**Total Number of Incidents:** 8

**8:00 pm**

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date</b>	<b>Incident Type</b>
2100779	0	9/13/2021	5311 - Report of odor with nothing found
2100783	0	9/14/2021	1514 - Recreational Fire
2100791	0	9/15/2021	5311 - Report of odor with nothing found
2100795	0	9/17/2021	5311 - Report of odor with nothing found
2100807	0	9/20/2021	1513 - Yard Waste/ Refuse Fire
2100830	0	9/25/2021	1514 - Recreational Fire
2100846	0	9/28/2021	5311 - Report of odor with nothing found

**Total Number of Incidents:** 7

**9:00 pm**

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date</b>	<b>Incident Type</b>
2100754	0	9/4/2021	321 - EMS call, excluding vehicle accident with injury
2100815	0	9/22/2021	321 - EMS call, excluding vehicle accident with injury

**Total Number of Incidents:** 2

**10:00 pm**

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date</b>	<b>Incident Type</b>
2100755	0	9/4/2021	321 - EMS call, excluding vehicle accident with injury
2100759	0	9/7/2021	1513 - Yard Waste/ Refuse Fire
2100847	0	9/28/2021	5311 - Report of odor with nothing found

**Total Number of Incidents:** 3

**11:00 pm**

<b>Incident #</b>	<b>Exp #</b>	<b>Alarm Date</b>	<b>Incident Type</b>
2100784	0	9/14/2021	321 - EMS call, excluding vehicle accident with injury
2100792	0	9/15/2021	735 - Alarm system sounded due to malfunction
2100798	0	9/18/2021	1514 - Recreational Fire

2100816            0            9/22/2021    3112 - Lift Assistance

**Total Number of Incidents:**            4

**Report Filter Settings**

**Report Name:** Incident Reports by Time of Day, Detailed

**Filter Name:** last month

**Filter Expression:** [AlarmDateTime] is between '9/1/2021 12:00:00 AM' and '9/30/2021 11:59:59 PM'



Emergency: Dial 911  
 Station #1: 660-269-8705 Ext: 2035  
 Fax: 600-263-0596  
 Station #2: 660-263-4121

## *City of Moberly Fire Department*

310 N. Clark  
 Moberly, MO 65270-1520

### Incident Reports by Apparatus, Summary

Apparatus:	Total Number of Incidents Responded to:
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	1
300 Pickup	63
2007 Chevy	
301	13
303	6
304 Contender	35
305 Contender	21
306 Reg. Cab	3
P/U	
310 P/U	5
POV	1

**Total Number of Incidents: 116**

**Report Filter Settings**

**Report Name:** Incident Reports by Apparatus, Summary

**Filter Name:** Last Month

**Filter Expression:** [AlarmDateTime] is between '9/1/2021 12:00:00 AM' and '9/30/2021 11:59:59 PM'



Emergency: Dial 911  
 Station #1: 660-269-8705 Ext: 2035  
 Fax: 600-263-0596  
 Station #2: 660-263-4121

## City of Moberly Fire Department

310 N. Clark  
 Moberly, MO 65270-1520

### Hydrant Flow Tests by Hydrant Number

#### Hydrant Number: 1W423

**Location:** Ault Street N, Moberly, MO **Color:** Red  
**District:** WARD ONE **Township:** **Year:**  
**Next Test Date:** 09/01/2022 **Make:**

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/01/2021		630	494	55	10	15	531

#### Hydrant Number: 1W424

**Location:** Moulton N., Moberly, MO **Color:** Red  
**District:** WARD ONE **Township:** **Year:**  
**Next Test Date:** 09/02/2021 **Make:**

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/01/2021		1041	816	55	20	25	750

#### Hydrant Number: 1W426

**Location:** Ault Street N, Moberly, MO **Color:** Red

**District:** WARD ONE      **Township:**  
**Next Test Date:** 09/14/2021

**Year:**  
**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/01/2021		630	494	55	10	15	531

**Hydrant Number: 1W426A**

**Location:** Ault N., Moberly, MO      **Color:** Red  
**District:** WARD ONE      **Township:**      **Year:**  
**Next Test Date:** 09/14/2021      **Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/01/2021		418	328	55	5	10	375

**Hydrant Number: 1W427**

**Location:** Ault Street N, Moberly, MO      **Color:** Red  
**District:** WARD ONE      **Township:**      **Year:**  
**Next Test Date:** 09/14/2021      **Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/01/2021		418	328	55	5	10	375

**Hydrant Number: 1W428**

**Location:** Ault Street N, Moberly, MO      **Color:** Red  
**District:** WARD ONE      **Township:**      **Year:**

Next Test Date: 09/14/2021

Make:

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/01/2021		430	313	45	5	10	375

Hydrant Number: 2W456

Location: E Rollins ST &amp; S Ault ST, Moberly, MO

Color: Green

District: WARD TWO

Township:

Year:

Next Test Date: 09/25/2021

Make:

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/01/2021		2002	1569	55	35	40	993

Hydrant Number: 2W457

Location: E Rollins ST &amp; N Morley ST, Moberly, MO

Color: Green

District: WARD TWO

Township:

Year:

Next Test Date: 09/25/2020

Make:

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/01/2021		4109	3219	55	45	50	1126

Hydrant Number: 2W459

Location: E Rollins ST &amp; Lotter ST, Moberly, MO

Color: Orange

District: WARD TWO

Township:

Year:

Next Test Date: 09/25/2020

Make:



**FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/01/2021		1091	828	50	20	25	750

**Hydrant Number: 2w460****Location:** E Rollins ST, Moberly, MO**Color:** Red**District:** WARD TWO**Township:****Year:****Next Test Date:** 09/25/2019**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/01/2021		418	328	55	5	10	375

**Hydrant Number: 2w461****Location:** S Morley ST & E Burkhart ST, Moberly, MO**Color:** Green**District:** WARD TWO**Township:****Year:****Next Test Date:** 09/25/2020**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/01/2021		1231	934	50	20	30	750

**Hydrant Number: 2w462****Location:** S Morley ST & Woodland AVE, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 06/17/2017**Make:****FLOW TEST SUMMARY**

Flow at	Flow at	Static	Pitot	Actual Residual	Calculated
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Test Date	Test Purpose	0 PSI	20 PSI	Pressure	Pressure	Pressure	Flow
09/01/2021		599	454	50	10	10	531

**Hydrant Number: 2w463**

**Location:** Woodland AVE & Virginia ST, Moberly, MO      **Color:** Orange  
**District:** WARD TWO      **Township:**      **Year:**  
**Next Test Date:** 07/01/2017      **Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose	0 PSI	20 PSI	Pressure	Pressure	Pressure	Flow
09/01/2021		643	488	50	10	15	531

**Hydrant Number: 2w464**

**Location:** 418 Woodland AVE, Moberly, MO      **Color:** Red  
**District:** WARD TWO      **Township:**      **Year:**  
**Next Test Date:** 06/17/2017      **Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose	0 PSI	20 PSI	Pressure	Pressure	Pressure	Flow
09/01/2021		0	0	50	0	0	0

**Hydrant Number: 2w465**

**Location:** 498 Woodland AVE, Moberly, MO      **Color:** Red  
**District:** WARD TWO      **Township:**      **Year:**  
**Next Test Date:** 06/17/2017      **Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose	0 PSI	20 PSI	Pressure	Pressure	Pressure	Flow

09/01/2021                      423              321              50              5              10              375

### Hydrant Number: 2w466

**Location:** 541 Woodland AVE, Moberly, MO                      **Color:** Orange  
**District:** WARD TWO                      **Township:**                      **Year:**  
**Next Test Date:** 06/17/2016                      **Make:**

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/01/2021		3442	2612	50	35	45	993

### Hydrant Number: 2w467

**Location:** 531 E. Burkhart, Moberly, MO                      **Color:** Orange  
**District:** WARD TWO                      **Township:**                      **Year:**  
**Next Test Date:** 06/17/2021                      **Make:**

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/01/2021		2192	1663	50	30	40	919

### Hydrant Number: 2w468

**Location:** Mid 500 E. Burkhart, Moberly, MO                      **Color:** Orange  
**District:** WARD TWO                      **Township:**                      **Year:**  
**Next Test Date:** 06/17/2021                      **Make:**

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/01/2021		2192	1663	50	30	40	919

**Hydrant Number: 2w469****Location:** E Burkhart ST, Moberly, MO**Color:** Red**District:** WARD TWO **Township:****Year:****Next Test Date:** 06/17/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/01/2021		0	0	50	0	0	0

**Hydrant Number: 2w470****Location:** E Rollins ST, Moberly, MO**Color:** Orange**District:** WARD TWO **Township:****Year:****Next Test Date:** 06/17/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/07/2021		643	488	50	10	15	531

**Hydrant Number: 2w471****Location:** 209 S Ault ST, Moberly, MO**Color:** Orange**District:** WARD TWO **Township:****Year:****Next Test Date:** 06/17/2017**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/07/2021							

**Hydrant Number: 2w472**

**Location:** S Ault ST & E Logan ST, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 06/17/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/07/2021		1761	1336	50	30	35	919

**Hydrant Number: 2w473****Location:** S Morley ST & E Logan ST, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 06/17/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/07/2021		856	650	50	15	20	650

**Hydrant Number: 2w474****Location:** E Logan ST & Virginia ST, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 06/17/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/07/2021		643	488	50	10	15	531

**Hydrant Number: 2w475**

**Location:** S. Morely St. & E Lee ST**Color:** Orange**District:** WARD TWO **Township:****Year:****Next Test Date:** 06/17/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/07/2021		856	650	50	15	20	650

**Hydrant Number: 2w476****Location:** E Lee ST & Olive ST, Moberly, MO**Color:** Red**District:** WARD TWO **Township:****Year:****Next Test Date:** 06/17/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/07/2021		643	488	50	10	15	531

**Hydrant Number: 2w478****Location:** E Carpenter ST & Promenade ST, Moberly, MO**Color:** Orange**District:** WARD TWO **Township:****Year:****Next Test Date:** 10/20/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/07/2021		660	481	45	10	15	531
09/07/2021		1376	1044	50	25	30	839

**Hydrant Number: 2w480**

**Location:** E. Carpent St. & Monroe AVE**Color:** Red**District:** WARD TWO**Township:****Year:****Next Test Date:** 07/01/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/07/2021		423	321	50	5	10	375

**Hydrant Number: 2W481****Location:** E Logan ST & Monroe AVE, Moberly, MO**Color:** Red**District:** WARD TWO**Township:****Year:****Next Test Date:** 07/01/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/07/2021		643	488	50	10	15	531

**Hydrant Number: 2W484****Location:** E Carpenter ST & Garfield AVE, Moberly, MO**Color:** Red**District:** WARD TWO**Township:****Year:****Next Test Date:** 07/01/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/07/2021		893	650	45	15	20	650

**Hydrant Number: 2W485****Location:** 515 Garfield AVE, Moberly, MO**Color:** Orange

**District:** WARD TWO      **Township:**  
**Next Test Date:** 07/01/2021

**Year:**  
**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/07/2021		1507	1144	50	30	30	919

**Hydrant Number: 2W486**

**Location:** E Logan ST & Garfield AVE, Moberly, MO  
**District:** WARD TWO      **Township:**  
**Next Test Date:** 08/01/2021

**Color:** Red  
**Year:**  
**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/07/2021		1507	1144	50	30	30	919

**Hydrant Number: 2W487**

**Location:** 414 Harrison, Moberly, MO  
**District:** WARD TWO      **Township:**  
**Next Test Date:** 08/01/2017

**Color:** Red  
**Year:**  
**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/13/2021		1902	1443	50	35	35	993

**Hydrant Number: 2W488A**

**Location:**  
**District:** WARD 2      **Township:**

**Color:** Red  
**Year:**



Next Test Date: 08/01/2017

Make:

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/13/2021		599	454	50	10	10	531

Hydrant Number: 2W489

Location: Carpenter &amp; Gratzbrown, Moberly, MO

Color: Orange

District: WARD TWO

Township:

Year:

Next Test Date: 09/30/2021

Make:

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/13/2021		2307	1808	55	30	45	919

Hydrant Number: 2W491

Location: Logan Street E, Moberly, MO

Color: Red

District: WARD TWO

Township:

Year:

Next Test Date: 09/30/2021

Make:

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/13/2021		3187	2418	50	30	45	919

Hydrant Number: 2W491A

Location: Gratz Brown 415, Moberly, MO

Color: Green

District: WARD TWO

Township:

Year:

Next Test Date: 09/30/2021

Make:

**FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/13/2021		2192	1663	50	30	40	919

**Hydrant Number: 2W492****Location:** 415 BETTY, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 09/30/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/13/2021		2531	1921	50	40	40	1061

**Hydrant Number: 2W494****Location:** Halleck, Moberly, MO**Color:** Red**District:** WARD TWO**Township:****Year:****Next Test Date:** 09/15/2022**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/15/2021		599	454	50	10	10	531

**Hydrant Number: 2W495****Location:** Morley Street S, Moberly, MO**Color:** Red**District:** WARD TWO**Township:****Year:****Next Test Date:** 09/15/2022**Make:****FLOW TEST SUMMARY**

Flow at	Flow at	Static	Pitot	Actual Residual	Calculated
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Test Date	Test Purpose	0 PSI	20 PSI	Pressure	Pressure	Pressure	Flow
09/15/2021		599	454	50	10	10	531

**Hydrant Number: 2w495A**

**Location:** 1000 Blk Cecile, Moberly, MO **Color:** Orange  
**District:** WARD TWO **Township:** **Year:**  
**Next Test Date:** 09/15/2022 **Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose	0 PSI	20 PSI	Pressure	Pressure	Pressure	Flow
09/15/2021		989	750	50	20	20	750

**Hydrant Number: 2W496**

**Location:** Mckinsey Street E, Moberly, MO **Color:** Orange  
**District:** WARD TWO **Township:** **Year:**  
**Next Test Date:** 09/15/2022 **Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose	0 PSI	20 PSI	Pressure	Pressure	Pressure	Flow
09/15/2021		989	750	50	20	20	750

**Hydrant Number: 2W496A**

**Location:** 1201 Russhaven DR, Moberly, MO 65270 **Color:**  
**District:** 2 **Township:** MOBERLY **Year:**  
**Next Test Date:** 09/15/2022 **Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose	0 PSI	20 PSI	Pressure	Pressure	Pressure	Flow

09/15/2021                      2192      1663              50              30              40              919

**Hydrant Number: 2W496B**

**Location:** 1035 Russhaven DR, Moberly, MO 65270

**Color:**

**District:** 2                      **Township:** MOBERLY

**Year:**

**Next Test Date:** 09/15/2022

**Make:**

**FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/15/2021		788	598	50	15	15	650

**Hydrant Number: 2w497**

**Location:** Mckinsey Street E, Moberly, MO

**Color:** Orange

**District:** WARD TWO                      **Township:**

**Year:**

**Next Test Date:** 09/15/2022

**Make:**

**FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/15/2021		3903	2962	50	45	45	1126

**Hydrant Number: 2w498**

**Location:** Halleck, Moberly, MO

**Color:** Orange

**District:** WARD TWO                      **Township:**

**Year:**

**Next Test Date:** 09/15/2022

**Make:**

**FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/15/2021		599	454	50	10	10	531

**Hydrant Number: 2w499****Location:** Mckinsey Street E, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 09/15/2022**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/15/2021		1308	993	50	35	20	993

**Hydrant Number: 2W499A****Location:** Halleck ST, Moberly, MO 65270**Color:****District:** 2**Township:** MOBERLY**Year:****Next Test Date:** 09/15/2022**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/15/2021		599	454	50	10	10	531

**Hydrant Number: 2w500****Location:** Mckinsey Street E, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 09/15/2022**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/15/2021		1507	1144	50	30	30	919

**Hydrant Number: 2w501**

**Location:** Halleck, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 09/15/2022**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/15/2021		599	454	50	10	10	531

**Hydrant Number: 2w502****Location:** Mckinsey Street E, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 10/01/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/16/2021		2664	2087	55	40	45	1061

**Hydrant Number: 2w503****Location:** Halleck, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 10/14/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/16/2021		2367	1797	50	35	40	993

**Hydrant Number: 2w504**

**Location:** Mckinsey Street E, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 10/14/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/16/2021		2192	1663	50	30	40	919

**Hydrant Number: 2w505****Location:** Halleck, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 10/14/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/16/2021		3624	2839	55	35	50	993

**Hydrant Number: 2w506****Location:** 700 Blk. Harrison, Moberly, MO**Color:** Red**District:** WARD TWO**Township:****Year:****Next Test Date:** 10/14/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/16/2021		1761	1336	50	30	35	919

**Hydrant Number: 2w507****Location:** Mckinsey Street E, Moberly, MO**Color:** Green

**District:** WARD TWO      **Township:**  
**Next Test Date:** 10/14/2021

**Year:**  
**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/16/2021		3442	2612	50	35	45	993

**Hydrant Number: 2w508**

**Location:** Halleck, Moberly, MO      **Color:** Green  
**District:** WARD TWO      **Township:**      **Year:**  
**Next Test Date:** 10/14/2021      **Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/16/2021		2367	1797	50	35	40	993

**Hydrant Number: 2w509**

**Location:** Hulen DR, Moberly, MO      **Color:** Green  
**District:** WARD TWO      **Township:**      **Year:**  
**Next Test Date:** 10/14/2021      **Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/16/2021		3680	2793	50	40	45	1061

**Hydrant Number: 2w510**

**Location:** Hulen St. & Willman St., Moberly, MO      **Color:** Orange  
**District:** WARD TWO      **Township:**      **Year:**



Next Test Date: 10/14/2021

Make:

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/16/2021		3680	2793	50	40	45	1061

Hydrant Number: 2w511

Location: Weintz &amp; Hulen Dr, Moberly, MO

Color: Orange

District: WARD TWO

Township:

Year:

Next Test Date: 10/14/2021

Make:

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/16/2021		3442	2612	50	35	45	993

Hydrant Number: 2w512

Location: Hulen &amp; Wescott, Moberly, MO

Color: Orange

District: WARD TWO

Township:

Year:

Next Test Date: 09/16/2017

Make:

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/27/2021	Annual Flow Test	989	750	50	20	20	750

Hydrant Number: 2w512a

Location: Wescott (South End) &amp; Hulen DR

Color: Orange

District: WARD TWO

Township:

Year:

Next Test Date: 09/16/2017

Make:

**FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/27/2021		1091	828	50	20	25	750

**Hydrant Number: 2w513****Location:** 1218 E Logan ST, Moberly, MO**Color:** Green**District:** WARD TWO**Township:****Year:****Next Test Date:** 09/16/2014**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/27/2021		1004	807	60	20	25	750

**Hydrant Number: 2w514****Location:** W of Cat E Rollins ST, Moberly, MO**Color:** Green**District:** WARD TWO**Township:****Year:****Next Test Date:** 10/18/2014**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/27/2021		1475	1185	60	30	35	919

**Hydrant Number: 2w515****Location:** E of Cat E Rollins ST, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 07/06/2017**Make:****FLOW TEST SUMMARY**

Flow at	Flow at	Static	Pitot	Actual Residual	Calculated
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Test Date	Test Purpose	0 PSI	20 PSI	Pressure	Pressure	Pressure	Flow
09/27/2021		591	463	55	10	10	531

**Hydrant Number: 2w516**
**Location:** 535 Meadowbrook DR, Moberly, MO

**Color:** Green

**District:** WARD TWO

**Township:**
**Year:**
**Next Test Date:** 07/06/2017

**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose	0 PSI	20 PSI	Pressure	Pressure	Pressure	Flow
09/27/2021		1004	807	60	20	25	750

**Hydrant Number: 2w517**
**Location:** 1613 Eastbrook CIR, Moberly, MO

**Color:** Orange

**District:** WARD THREE

**Township:**
**Year:**
**Next Test Date:** 07/06/2017

**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose	0 PSI	20 PSI	Pressure	Pressure	Pressure	Flow
09/27/2021		856	650	50	15	20	650

**Hydrant Number: 2w518**
**Location:** 1637 Eastbrook CIR, Moberly, MO

**Color:** Red

**District:** WARD TWO

**Township:**
**Year:**
**Next Test Date:** 07/06/2017

**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose	0 PSI	20 PSI	Pressure	Pressure	Pressure	Flow

09/27/2021                      599           454           50           10           10           531

### Hydrant Number: 2w519

**Location:** 1712 Eastbrook CIR, Moberly, MO                      **Color:** Red  
**District:** WARD TWO                      **Township:**                      **Year:**  
**Next Test Date:** 07/06/2017                      **Make:**

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/27/2021		677	531	55	10	20	531

### Hydrant Number: 2W520

**Location:** 1818 Eastbrook CIR, Moberly, MO                      **Color:** Orange  
**District:**                      **Township:**                      **Year:**  
**Next Test Date:** 08/26/2017                      **Make:**

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/27/2021		902	706	55	15	25	650

### Hydrant Number: 2w521

**Location:** 1626 Prarie Ln., Moberly, MO                      **Color:** Orange  
**District:** WARD TWO                      **Township:**                      **Year:**  
**Next Test Date:** 08/26/2017                      **Make:**

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/27/2021		1091	828	50	20	25	750

**Hydrant Number: 2w522****Location:** 1930 Eastbrook CIR, Moberly, MO**Color:** Orange**District:** WARD TWO **Township:****Year:****Next Test Date:** 08/26/2017**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/27/2021		1761	1336	50	30	35	919

**Hydrant Number: 2w523****Location:** 527 Meadowbrook CIR, Moberly, MO**Color:** Orange**District:** WARD TWO **Township:****Year:****Next Test Date:** 11/03/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/27/2021		630	494	55	10	15	531

**Hydrant Number: 2w524****Location:** 631 Meadowbrook CIR, Moberly, MO**Color:** Orange**District:** WARD TWO **Township:****Year:****Next Test Date:** 11/03/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/27/2021		1376	1044	50	25	30	839

**Hydrant Number: 2w525**

**Location:** 715 Meadowbrook CIR, Moberly, MO

**Color:** Orange

**District:** WARD TWO **Township:**

**Year:**

**Next Test Date:** 11/03/2021

**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/28/2021		945	717	50	15	25	650

**Hydrant Number: 2w525a**

**Location:** 763 Meadowbrook CIR, Moberly, MO

**Color:** Orange

**District:** WARD TWO **Township:**

**Year:**

**Next Test Date:** 11/03/2021

**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/28/2021		945	717	50	15	25	650

**Hydrant Number: 2w526**

**Location:** 639 Meadowbrook DR, Moberly, MO

**Color:** Orange

**District:** WARD TWO **Township:**

**Year:**

**Next Test Date:** 11/03/2021

**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/28/2021		1149	900	55	20	30	750

**Hydrant Number: 2w527**

**Location:** 725 Weintz ST, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 11/03/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/28/2021		1231	934	50	20	30	750

**Hydrant Number: 2W528****Location:** Amanda DR, Moberly, MO**Color:** Orange**District:** WARD TWO**Township:****Year:****Next Test Date:** 11/03/2021**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/28/2021		2192	1663	50	30	40	919

**Hydrant Number: 2w529****Location:** 1300 blk McKinsey Street E, Moberly, MO**Color:** Green**District:** WARD TWO**Township:****Year:****Next Test Date:** 07/14/2017**Make:****FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/28/2021		2962	2380	60	45	50	1126

**Hydrant Number: 2w530****Location:** 1400blk McKinsey Street E, Moberly, MO**Color:** Green

**District:** WARD TWO      **Township:**  
**Next Test Date:** 11/03/2021

**Year:**  
**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/28/2021		1231	934	50	20	30	750

**Hydrant Number: 2w531**

**Location:** 600 McKinsey Place, Moberly, MO  
**District:** WARD TWO      **Township:**  
**Next Test Date:** 11/03/2021

**Color:** Orange  
**Year:**  
**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/28/2021		1231	934	50	20	30	750

**Hydrant Number: 2w532**

**Location:** 802 McKinsey Place, Moberly, MO  
**District:** WARD TWO      **Township:**  
**Next Test Date:** 11/03/2021

**Color:** Orange  
**Year:**  
**Make:**

<i>FLOW TEST SUMMARY</i>		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/28/2021		1663	1336	60	30	40	919

**Hydrant Number: 2w533**

**Location:** Hwy. 63 S. of Mckinsey ---N. s, Moberly, MO  
**District:** WARD TWO      **Township:**

**Color:** Green  
**Year:**



Next Test Date: 11/03/2021

Make:

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/28/2021		1943	1561	60	30	45	919

Hydrant Number: 2w534

Location: Rollins Street E, Moberly, MO

Color: Orange

District: WARD TWO

Township:

Year:

Next Test Date: 11/04/2021

Make:

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/28/2021		1854	1452	55	30	40	919

Hydrant Number: 2w535

Location: Rollins Street E, Moberly, MO

Color: Green

District: WARD TWO

Township:

Year:

Next Test Date: 11/04/2021

Make:

FLOW TEST SUMMARY		Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
Test Date	Test Purpose						
09/28/2021		1663	1336	60	30	40	919

Hydrant Number: 2w536

Location: Hwy 63 at Old Steak Resturant, Moberly, MO

Color: Green

District: WARD TWO

Township:

Year:

Next Test Date: 11/04/2021

Make:

**FLOW TEST SUMMARY**

Test Date	Test Purpose	Flow at 0 PSI	Flow at 20 PSI	Static Pressure	Pitot Pressure	Actual Residual Pressure	Calculated Flow
09/28/2021		1663	1336	60	30	40	919

**Report Filter Settings**

**Report Name:** Hydrant Flow Tests by Test Date  
**Filter Name:** Last Month  
**Filter Expression:** [TestDate] is between '9/1/2021 12:00:00 AM' and '9/30/2021 11:59:59 PM'

October 01, 2021 07:00

Page 1 of 1



# Monthly Report

## September 2021

#16.

		2021	2020
<b>Parks</b>	Thompson Campground	259	Daily(180) Monthly(13) Tent(66) 219
	Misc Thompson Campground	\$0	\$180
	Miscellaneous Park Fees	\$660.00	Complex Lights(\$20) Dump Station(2) Memorial Trees(2) \$115.80
	Overnight Fishing Passes	0	2
	Paddleboat Rental	22	0
	Canoe Storage	\$50.00	Boat Storage(2) \$25.00
	Archery Range	-	-
	Overlook & Plaza	-	-
	Midway	-	-
	Agricultural Barns	-	-
	Equestrian Area/		
	Rodeo Ground	1	4-H Equestrian rental(1) 0
			Baby Shower(1) 4-H Meeting(1)
	James Youth Center	5	Fair Board Meeting(1) Private Gatherings(2) 11
			Wedding(2, 1 for 2 days) Family
	Lodge	5	Reunion(1) RCDD Picnic(1) Bridal Shower(1 res. 2 days) 5
	Lion's Beuth Park	-	-
	Fox Park (entire)	-	-
	Tannehill Park	0	1
	Depot Park	1	<b>Internal:</b> Hold for Homecoming Weekend Activities(1 res. 2 days) -
	Rothwell Park 5K / Complex 5K	1	MHS Cross Country Invitational(1) 0
		2021	2020
<b>Courts</b> (Please note Games/Schedules are fluent due to weather)	HHAC Entire Complex	1	MHS Cross Country Invitational(1) 0
	Red 1	1	<b>Internal:</b> Internal: Block for MHS Cross Country Invitational(1) 0
	Red 2	1	<b>Internal:</b> Internal: Block for MHS Cross Country Invitational(1) 0
	Blue 1	9	Little Spartan Football Practices(7 days of Practices) Drone Qualifying Race(1) <b>Internal:</b> Block for MHS Cross Country Invitational(1) 13
	Blue 2	2	Drone Qualifying Race(1) <b>Internal:</b> Block for MHS Cross Country Invitational(1) 1
	Blue 3	9	Little Spartan Football Practices(7 days of practices) Drone Qualifying Race(1) <b>Internal:</b> Block for MHS Cross Country Invitational(1) 11
	Green 1	1	<b>Internal:</b> Block for MHS Cross Country Invitational(1) 0
	Green 2	1	<b>Internal:</b> Block for MHS Cross Country Invitational(1) 0
	Green 3	2	<b>Internal:</b> Hold for field work(1) Block for MHS Cross Country Invitational(1) 12
	Green 4	1	<b>Internal:</b> Block for MHS Cross Country Invitational(1) 0

## Fields/C

Green 5	17	Fall Coed Slow-Pitch Softball(16 games) <b>Internal:</b> Block for MHS Cross Country Invitational(1)	8
Green 6	1	<b>Internal:</b> Block for MHS Cross Country Invitational(1)	0
Groeber	2	Softball Practice(2)	5
Meinert	5	Adult Softball Practice(5)	1
Patrick	0		1
Fox Field	0		1
Fox Park Pickleball/ Tennis Courts	2	Private Pickleball court rentals(2)	5
Batting Cages	1	<b>Internal:</b> Block for MHS Cross Country Invitational(1)	0
Shelter 1 Tennis Courts	-		-
Wilhite Tennis Courts	-		-

2021

2020

## Shelters

Shelter 1	5	Family Reunion(1) Private Gathering(2) Church Service(1) Church Picnic(1)	3
Shelter 3	1	Baby Shower(1)	3
Shelter 5	5	Birthday Party(3) Company Lunch(1) Private Gathering(1)	1
Fox Park Shelter	2	Birthday Party(2)	3
Klein Shelter	4	Family Reunion(1) Birthday Party(2) Baby Shower(1)	1
Lake Pavilion	7	Private Gatherings(4) Family Reunion(1) Church Service(1) Baby Shower(1)	5
Riley Pavilion	1	RCDD Picnic(1)	2
Meditation Garden and Legacy Overlook	-		-
Depot Park Shelter	1	Class Reunion(1)	0

2021

2020

## Auditorium

Entire Facility	5	Patriot Day Commemoration(1) Wedding(1 res. 2 days) <b>Internal:</b> Tuck Pointing(1 res. 8 days) Junk Junction Parking(1 res. 3 days) City Health Fair Setup(1)	2
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2021

2020

## Aquatic Center

Entire Facility	-		-
Party Area	-		-

2021

2020

## Recreation

Homecoming Weekend Festival	Estimated attendance is 6,000	Junk Junction, Gus Macker, Bicenntenial Train Robbery Reenactment, Depot Park Activities(bounce houses, face painter, caricature drawings, Trolley	No Activities Scheduled for September 2020
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**Director – Troy Bock**

- Water's Edge finished the design and bid documents and has sent the splash pad out for bids. They used generic descriptions on features to allow some flexibility for contractors and their subcontractors and we can adjust final feature appearances in the end. There are limited options available to capture the train theme with a little variety, so we largely had to go with what was available.
- The 3D tour was completed at the miniature railroad and launched.
- OnMedia finished their second video shoot and are working on the update to the Rothwell Park web video. Aside from updates and additions on our offerings, they will be paring the video down from the old 10-minute video to a 2–3-minute video highlighting are most important amenities.
- We are continuing discussions with ESP regarding the solar pavilion. We hope to receive a proposal soon to get it moving forward.
- Dirk and I met with Tony Harlan on lighting options at Candy Cane City. Dirk will continue those discussions and see what we can work out. Utilities, landscape, the trail, and the size of the playground are limiting factors, but we will find a solution in coordination with Harlan.
- Attended a few sessions virtually at the annual NRPA conference.
- Met Ameren at the Auditorium to discuss the regulator in the alley which was faulty, causing issues with our boiler in the past. It has now been replaced so hopefully we will not have boiler issues this winter.
- Discussed with Smith H/C adding heat packs to the downstairs A/C units to provide us backup heat for the basement. They will send a proposal soon.
- We were disappointed with our previous fire extinguisher company both in terms of cost and performance. Greg rebid for the City as a whole and a local company owned by Jerry Swartz was far more affordable than our previous vendor and has a good track record so they will handle this going forward.

**Administration – Leslie Keeney**

- Processed bills and timesheets for the department.
- Set-Up trip with ICAN clients, going to the Runge Nature Center in Jefferson City in October.
- Attended various sessions online at the National Recreation and Park Association conference.
- Continued working to rectify elevator issues with Todd.
- Set-up annual inspection of department backflows.
- Oversaw day to day operations of Parks and Recreation Office.

**Dirk Miller – Park Superintendent**

- Painted Dugouts at Patrick and Meinert ball fields; applied Penofin to “new” up rights at Lodge, Shelters 1 & 3, and to carved bear at mini railroad.
- Removed fountain in Rothwell Lake as it had the wires cut.
- Received Memorial Benches for Don Orscheln, Louie & Edna Calderello, which will go to Heritage Hills Golf Course, where we recently poured two new pads. Tamara Shepherd bench is done and will need to be installed.
- Installed “new” temporary Disc Golf signage on six holes in time for Disc Golf tournament.
- Met with contractor for new solar building.

- Had contractors water blasting and painting on Pool which is now finished. Removed all umbrellas and stored chairs, etc. for winter. Removed plantings from area in front of Guard House and replaced with concrete. Relocated plants and mulch.
- Sprayed for weeds in Park, and Lilly Pads/Algae on both Rothwell and Works Lakes. Water tests also performed.
- Cut down large dead Oak tree at south entrance to Meditation Garden. Trimmed tree with dead branches at Rothwell Boat Ramp.
- Fixed Dog Park light by gates. Cleaned up after vandals Labor Day weekend and the weekend after. Started on new Christmas displays we received from the prison for Altrusa.
- Hired Pete Agree and Tony Harlan to dig up and fix a broken wire at the Complex. Tony is to work on light pole at Meinert for additional outlets for Altrusa displays. Will meet with Deb Derbovan of Ameren to discuss power at Tannehill.
- Meeting with potential contractors for painting Pool slide.

### **Jacob Buntun – Athletic Complex Supervisor/Sports Manager**

#### **Athletic Complex:**

- Continued holding Little Spartans football practice on Tuesday and Thursday nights from 6 pm to 8 pm on Blue 1 and Blue 3 football fields.
- Hosted the Moberly Cross Country Invitational on September 30th. Over 400 runners participated.
- Field amendments were completed on Green fields 3 and 4.

#### **Sports:**

- Competitive Adult Softball league is held on Tuesday nights on Green field 5.

### **Amanda White/Jenna Kitchen – Recreation**

#### **Concessions:**

- Pepsi came out and winterized equipment. Staff deep cleaned guard room/concessions area.
- Had high school cross country meet and Lewis & Clark Softball Tournament. Will be getting Pepsi out to winterize concessions. Had staff deep clean concessions area. Will send back whatever leftover product we can and then use items for Trick-or-Treat Trail and look into selling to surrounding schools.

#### **Events**

- Moberly's Homecoming Festival went great!! The trolley shuttled approx. 200 people just on Saturday between downtown and Rothwell Park. The mini train had approx. 550 riders. Our face painter and caricaturist had good a turn out. We are excited for next year to make it even better!
- Updates/Edits to the 2022 Activity Guide are being made. Will be getting the 1st draft sent to Art Department shortly.

#### **Aquatics:**

- Closed for the season.

Director of Utilities Monthly Report  
September 2021 (Presented at the October Meeting)

### Director's Summary

During September multiple meetings, discussions, a radio interview, familiarizations with Moberly Policies & Procedures took up a good chunk of the Director's time. Department staff as well as other city staff have been amazingly helpful in learning all of these and the City of Moberly. Visited with multiple consultants and contractors to immerse myself with current projects and projects on the planning board to follow the current projects. Worked with staff to make routine tasks routine, and to identify opportunities for efficiency and to formalize policies and procedures within the Utilities Department.

**Route JJ Sewer Extension:** Siting for the pump stations and routing for the individual force mains is complete. Survey work is underway; more than 18,000 linear feet of survey needs to be done. The critical remaining task is the completion of easements from over 40 property owners affected by the project. Once easements have been obtained then the construction portion can be bid and construction scheduled.

**EDA Infrastructure Grant:** Project update meetings are now held bi-weekly with Jacobs Engineering to track progress and make sure items are addressed timely. The stormwater project for the Industrial Park is not a Jacobs project. The five (5) projects include and the status of each is:

- **Morley St. Pump Station Retrofit** – Survey complete; design underway.
- **North Morley Water Main Loop** – Survey complete, Jacobs had concern that surveyors picked up all utilities within the congested right-of-way on Highway 24. Close to having 100% documents finished.
- **Sturgeon and Rollins Water Main Replacement** – Survey work is complete, design underway. Close to having 50% plans finished.
- **Downtown Sewer Rehab** – Working on RFQ for CCTV work and preparing maps of area to be CCTV'd.
- **Downtown CSO Storage Facility** – Survey is complete. Geotech work is complete. Design nearing completion.

**Sugar Creek Lake Dam Grout Project:** The Lake is declining due to lack of rainfall. Water level has dropped sufficiently to resume final grouting. Jacobs Engineering is in the process of drafting a change order to complete work once levels drop to an acceptable level.

**Utility Dept. Staffing:** The Department is not fully staffed at this time.

Matt Everts, Water plant Chief Operator, received the 2021 Robert S Miller Award from the Missouri Water and Wastewater Conference.



"For Outstanding Devotion, Dedication, Loyalty, Leadership and Exceptional Service..."

**Dept. Summary:**

Drinking water produced:	32.730 MG (1.091 MG/Day)
Wastewater Treated:	29.390 MG (0.980 MG/Day)
Wastewater from Combined Sewer Overflows:	0.00 MG
Total precipitation for September	1.44 inches

**Wastewater Treatment Facility**

- Treated 29.390 MGM an average of 0.980 MGD.
- Transferred 1,999,525 gallons of sludge from the SBRs to the digesters.
- Land applied 552,398 gallons of biosolids on the land application field at WWTP.
- 1.44 inches of rain fell over a 3-day period
- No discharge from Taylor CSO (outfall 002).
- No discharge from Rollins CSO (outfall 003).
- No discharge from Seven Bridges CSO (outfall 004).
- No discharge from Holman Rd CSO (outfall 005).
- Oros Environmental completed the Taylor CSO biosolids removal project.
- Willis Bros. cleaned out the sludge from SHB#2 at WWTP and replaced 340 diffuser valves, the project order was 10 valves short, the vendor has been contacted to complete the order and will complete installation upon valve delivery.
- Vandevanter Engineering installed a new SCADA system at WWTP.
- Brush hogging was done on biosolids fields to prepare for land improvements.
- KimHEC has been working on the final drafts of the Pretreatment Ordinances and Enforcement Response Plan (ERP) for MoDNR review.
- Held project kick-off meeting with Jacob's Engineering for Digester #1 rehab project.
- September 23, 2021 grease was discovered at Rollins Pumpstation. After investigation, it was coming from grease build-up at Morley Pump Station. This station collects wastewater from Swift Prepared Foods.
- Barr Engineering was contracted to perform a Local Limits review required by DNR for the pretreatment program.

**Water Plant**

- 9-4 Leak on the 300 block of Reed was reported to Matt by the City Manager.
- 9-5 Ran plant through the night due to loss of water.
- Matt attended a MWWC annual business meeting via zoom. He was awarded the 2021 Robert S Miller award during the meeting.

**Water Quality Coordinator****Hazardous Waste**

- Accepted 2084.4 lbs hazardous waste into the Household Hazardous Waste Facility
- Stabilized and disposed of 670.4 lbs non-reusable materials
- Distributed 1077.65 lbs of recycled material to Moberly residents for reuse
- Managed Open Household Hazardous Waste Day on September 11th
- Cleaned and organized Household Hazardous Waste Facility
- Organized delivery of HHW return



#### Public Education and Involvement

- Made appointments with Moberly residents at Household Hazardous Waste Facility
- Met with Moberly High School Adventure Club to clean up trash and evaluate stream health
- Created anti-grease handout for food truck events
- Wrote brief introduction to rain gardens for social media

#### Illicit Discharge Detection and Elimination

- Performed water quality monitoring of Rothwell Lake and Waterworks Lake
- Responded to an illicit discharge report
- Investigated potential SSO

#### Construction Stormwater Runoff Control

- Performed 22 regular construction inspections
- Performed Land Disturbance Inspections for all Land Disturbance sites
- Performed post-construction inspection for LVS at Cobblestone Creek
- Met with Edgar Luna from ES&S at airport

#### Post-Construction Stormwater Controls

- Cleaned weeds and trash out of city hall rain gardens
- Met with Moberly residents about post-construction runoff issues
- Responded to complaint forms about stormwater issues
- Contacted Crockett Engineering about future development at high school

#### Municipal Good Housekeeping

- Provided stormwater training to Police Department
- Performed annual Stormwater inspection of Police Department
- Met with representative from MEC to survey city sites for SOPs

#### Education and Certifications

- Registered for BMP Webinar
- Worked with Master Gardeners to learn about native plants

## **MAEDC Economic Development Report**

### **September 19, 2021 – October 16, 2021**

#### **Goals from Last Month**

- (Complete) Assist with planning and attend the September 23 Leadership NE Workshop Conference.
- (Complete) Attend the Veterans Business Project presentation on September 17.
- (Complete) Attend the PGAV Planning session in Fayette on September 20.
- (Complete) Participate in the NEMO Manufacturer's Infinity Robotics Zoom call.
- (Complete) Finalize draft of Project Medical development agreement
- (Complete) Host Downtown Moberly Hotel site visit
- (Complete) Meet with Alpha Media regarding their web marketing product

#### **Business Growth**

- Connected Anastasia Tiedemann, SBDC counselor, with a potential Moberly entrepreneur.
- Checked in with Jason Monnig, Monnig Industries. Provided him information regarding the FEMA/SEMA disaster declaration process.
- Spoke with Luke Dieterle, Mid-MO Regional Planning Commission regarding an update of their conversations with a Fayette entrepreneur seeking to use their revolving loan fund.
- Met with a Mid-Missouri based organization considering expanding a manufacturing operation to Moberly. Project has a facility under contract and is in the due diligence period.
- Conducted the downtown hotel site visit which allowed for 3 local banks to meet with the prospect. Received positive feedback from the banks about their potential interest in the project. Traded several revisions to the development agreement back and forth with the developer.
- Toured a large downtown redevelopment project with a local developer. Developer had interest in moving forward and began work on a comprehensive development agreement. Met with the developer and the City to work out questions.
- Met with a prospective local entrepreneur about opening a downtown retail business. Prospect has secured real estate and began remodeling with plans to open in 2022.
- Completed draft of development agreement on Project Medical and shared with the prospect.
- Received project information from Moberly Natural Crush. Facility is progressing and targeting an operational start of December 2021.

## **Business & Community Partnership**

- Conference call with Austin Consulting regarding planning for the last transference of Chapter 100 bond paperwork. Plan to be complete by November 2021.
- Met with Bartlett and West, and City of Moberly regarding rail capabilities at MAIP. Engineers assessed the rail assets and gave advice on how best to utilize rail moving forward.
- Assisted with publication of invitation to bid for Tannehill Apartments on social media.
- Sent out courtesy email reminders and certified letters to multiple Moberly CID PPI grant recipients reminding them of contract requirements.
- Provided CID Board a memorandum outlining three new PPI applications.
- Provided Tom Sanders, City of Moberly, a list of investments made in various Downtown Depot District properties.
- Worked with Tom Sanders, City of Moberly, to develop a new window program scoring rubrics.
- Worked with several PPI grant recipients to answer questions or process reimbursement requests.
- Met with the Howard County Commission to discuss a potential easement at the Howard County Industrial Park.
- Attended the PGAV City of Fayette Revitalization Plan briefing to Fayette community leaders.
- Attended Veterans Business Project presentation at CMU in Fayette. Followed up with presenter Lynn Lowder regarding their veteran onboarding process.
- Assisted Higbee City Clerk Shelly Stewart-Luth to identify a potential city grant writer.
- Michael and Randy met with Doug Burnett, Monroe County IDA, to discuss their future engagement with MAEDC.
- Joined City of Moberly leadership, and Russ Freed, Orscheln Property Management, for introductions and discussions with Mark Miles, the new Orscheln Executive VP.

## **Regional Engagement**

- Met with Lauren Mann, field representative for Congresswoman Vicky Hartzler.
- Randy participated as a speaker on the Leadership NE Missouri Workforce Session panel.
- Participated on two NE Regional Manufacturing Roundtable Zoom calls.
- Conference call with Justin Erickson of Community Venture Network

## **Internal Development and Marketing**

- Met with Les Tuttle of Alpha Media to discuss web marketing solutions they provide. Scheduled follow up conversation.

- Touched base with multiple large Moberly employers to obtain their current employee head count.
- Provided a brief update and extended discussion invitations to numerous MAEDC Industrial Club members.
- Interviewed by Notionfront for latest videos

**Goals for Next Month**

- Complete fall BRE visits and conversations
- Officially roll out the Moberly CID window program
- Finalize development agreement on Project Medical
- Finalize development agreement with downtown redevelopment project
- Host follow up meeting with Mid-Missouri prospect that is in due diligence phase of facility they have purchased
- Receive feedback on feasibility study for Project North
- Host conference call with hotel feasibility study consultant to update pro forma with latest numbers
- Finalize 2022 Industrial Club mailing literature

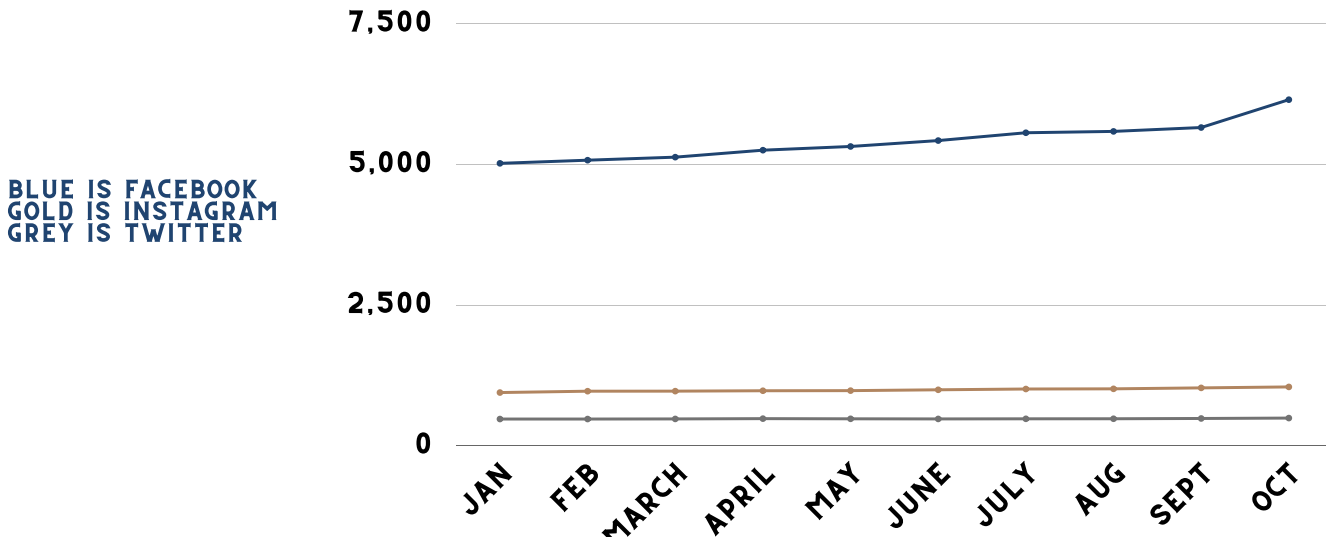


# OCTOBER REPORT

## 2021

## SOCIAL MEDIA STATS

### LIKES/FOLLOWS



### TOP POSTS FOR OCTOBER

Rothwell Park Landscapes

58 likes



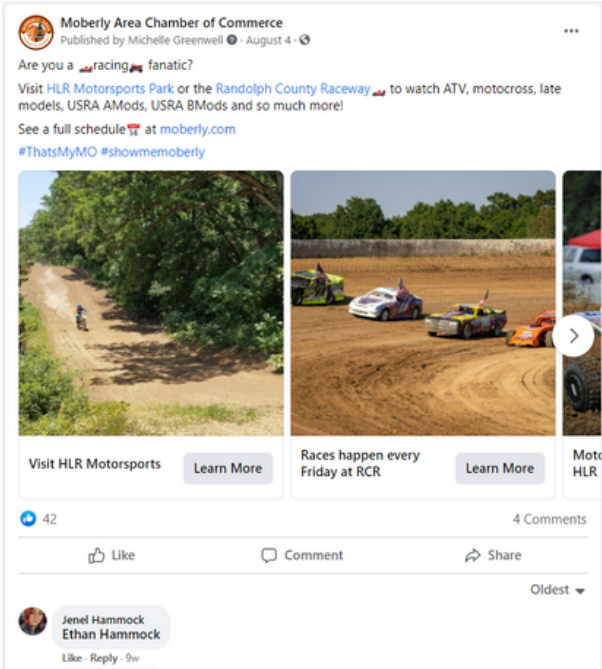
Gus Macker photos

10,131

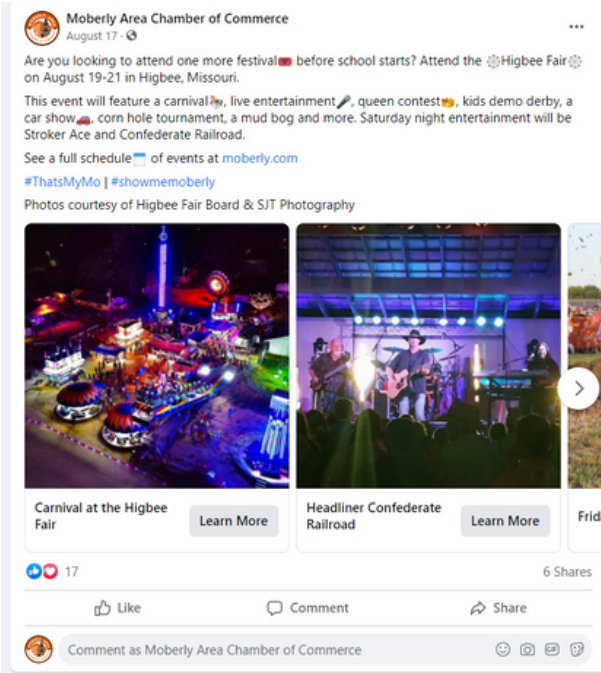


# PAID MEDIA STATS/ MISSOURI DIVISION OF TOURISM ADS

#16.

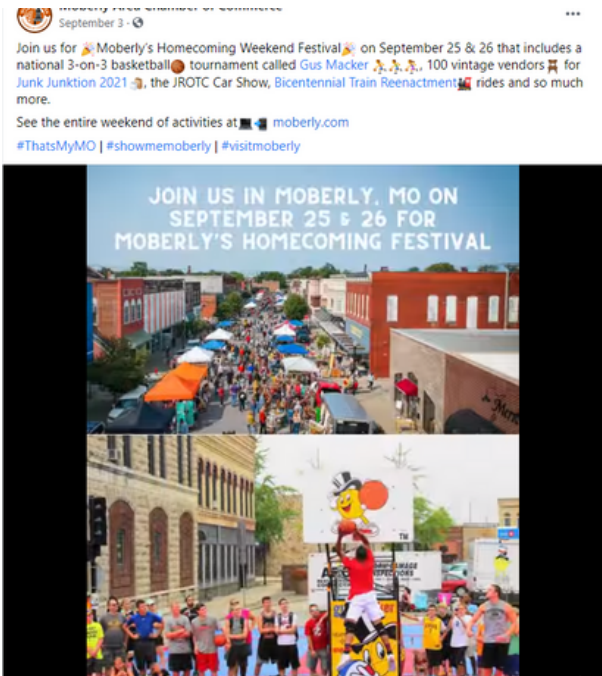


Medium	Date Ad Ran	Reach	Impressions	Likes	Comments	Shares	Amount Spent
Facebook/Instagram	August 4 - Sept 3	93,722	210,094	87	4	0	\$364.99



Medium	Date Ad Ran	Reach	Impressions	Likes	Comments	Shares	Amount Spent
Facebook/Instagram	Aug 17-Sept 3	88,809	136,756	22	0	4	\$300





Medium	Date Ad Ran	Reach	Impressions	Likes	Comments	Shares	Amount Spent
Facebook/Instagram	Sept 3 - Sept 30	67,474	155,032	213	17	93	\$794.09



Medium	Issue	Subscribers	Amount Spent
Missouri Life Magazine	September	29,699	\$1,686.00
Show Me Missouri	Fall Issue	24,000	\$1,225.00

# PAID MEDIA STATS/ MISSOURI DIVISION OF TOURISM ADS

#16.



Medium	Date Ad Ran	Ad Spots	Reach	Amount Spent
KTVO - Kirksville	Sept 18-Sept 25	40		\$2,000.00
Hulu	Sept 18-Sept 25		24,662	\$2,000.00

## 2021 AD SPEND

Media	2019	2020	2021
Digital	\$10,644.12	\$8,530.54	\$5,808.00
Show me strong digital	0	\$2,989.99	
print	\$800.00	\$1,200.00	\$4,111.00
Radio	0	\$4,998.00	
SEM	\$1,332.93	\$3,465.62	\$1,422.01
Billboard	0	\$2,000.00	
Commercials			\$4,000.00
Total:	\$12,777.05	\$23,184.15	\$15,341.01

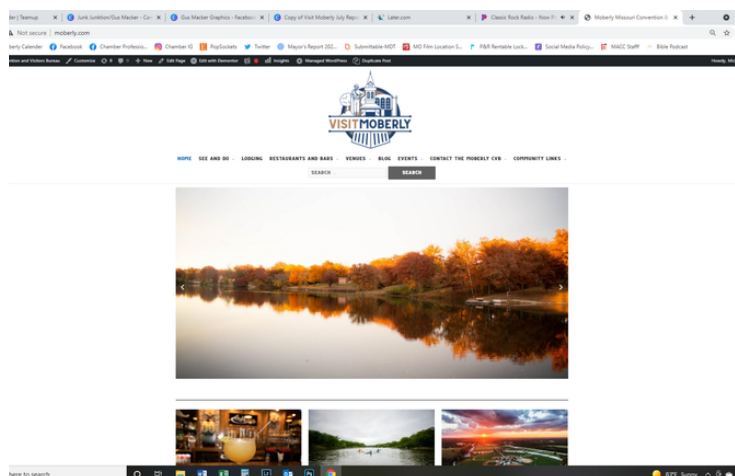
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# OWNED COMMUNICATION ASSETS

#16.

	Jan	Feb	March	April	May	June	July	August	Sept.
Website Views	1,724	1,240	3,462	5,529	4,041	4,920	3,011	2,574	3,690



- Updated tourism website to reflect updates/changes
- Continued adding 2021 & started asking partners for 2022 events
- Created graphics, videos and all other social media posts

# CAMPGROUND STAYS

Report is one month behind due to ongoing rentals for the current month.

	Jan	Feb	March	April	May	June	July	August	Sept
Daily Rentals	22	37	72	120	111	190	150	79	180
Monthly Rentals	11	11	11	8	10	8	11	12	13
Tent Stays					16	23	21	7	66
Total:	33	48	83	128	121	223	182	98	193

# ADDITIONAL ITEMS

#16.

- Executed Gus Macker and Junk Junktion, held a recap meeting with partners and we have started on ideas/improvements for 2022
- Attended Mark Twain Regional Council of Governments Annual Meeting
- Passed out materials at Northeast Commissioner Meeting held in Moberly
- Moberly was the host site for a disc golf tournament over the first weekend in October



## PLANNED ACTIVITIES



- Began working on Moberly's Christmas Festival soliciting vendors, marketing the parade and online fundraiser for Christmas decorations

## MONTHLY BILLING

Item # Description	Jan	Feb	March	April	May	June	July	August	Sept	Oct
102.000.521: Advertising	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
102.000.540: Contract Labor	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
102.000.541: Administrative Fees	\$583	\$583	\$583	\$583	\$583	\$583	\$583	\$583	\$583	\$583
102.000.550: Consultant Contract	\$417	\$417	\$417	\$417	\$417	\$417	\$417	\$417	\$417	\$417
Total:	\$7,083	\$7,083	\$7,083	\$7,083	\$7,083	\$7,083	\$7,083	\$7,083	\$7,083	\$7,083