



# AGENDA

## Board of Supervisors Meeting

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6:00 PM

October 18, 2022

### WORK SESSION

- A. Discussion – FY 2021-2022 Fund Carryover Package – Matt Robertson
- B. Training Session for CivicClerk Agenda Management Software – Jesse Porquis, CivicPlus
- C. Adjournment

### 7:00 PM – REGULAR MEETING

Opening with Prayer

- A. Call to Order and Pledge of Allegiance of the United States of America
- B. Adoption of Agenda – Additions or Deletions
- C. Public Comment Period (60 Minute Time Limit)
- D. Reports – Board Members, County Administrator, County Attorney
- E. Appropriations and Transfers
- F. Approval of Accounts
- G. Approval of Minutes
  - 1. Special Meeting of August 23, 2022
  - 2. Regular Meeting of September 6, 2022
  - 3. Regular Meeting of September 20, 2022

### NEW BUSINESS

- H. Consent Agenda
  - 1. Authorization to Advertise for Public Hearing – Amend the Fiscal Year 2022-2023 Budget Based on Fiscal Year 2021-2022 Carryover – Matt Robertson
  - 2. Sole Source Contract with Titan Aviation Fuels – Mike Berry/Alisa Scott
  - 3. Award Recommendation for Environmental Engineering Services Firm Fixed Pricing Contract with Labella Associates – Mike Berry/Alisa Scott
  - 4. *This item has been removed from the agenda.*
  - 5. Purchase of (1) 2025 Pierce Enforcer Pumper and Budget Transfer – Chief James Bonzano/Alisa Scott

6. Purchase of Two (2) Medic Units and Preventative Maintenance – Chief James Bonzano/  
Alisa Scott
7. Adoption of Resolution Relating to the Support of the Virginia America 250 Commission  
Recitals – Matt Wendling
- I. Closed Session – Sections 2.2-3711(A)(7) and (A)(8) of the Virginia Freedom of Information Act  
Consultation with Legal Counsel Pertaining to Actual or Probable Litigation and for the Provision  
of Legal Advice
- J. Additional New Business (If needed)
- K. Adjournment

Documentation for this  
work session item is  
under Consent Agenda  
**item H-1**

<https://warrencountyva.civicclerk.com/BoardView>

## Fiscal Year 2022-2023 Budget Appropriations and Transfers

|   | Dept/Fund       | Tran/Appr | Description                                                                                           | Amount      | Source                |
|---|-----------------|-----------|-------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| 1 | County Attorney | Transfer  | Transfer funds from Lodging to Miscellaneous Services for a notary renewal                            | \$45        | Operating Budget      |
| 2 | Fire and Rescue | Transfer  | Transfer funds from high budgeted line items into new accounts in anticipation of future expenditures | \$68,500    | Operating Budget      |
| 3 | Sheriff         | Transfer  | Transfer funds from high budgeted line items into new accounts in anticipation of future expenditures | \$192,000   | Operating Budget      |
| 4 | School Division | Appr      | Appropriate the FY 20-21 Surplus of local funding as approved by the BOS on September 20, 2022        | \$3,087,026 | Local Surplus Funding |

**Warren County Appropriation and Transfer Form**Department: County AttorneyFiscal Year: 22-23Contact: Caitlin JordanDate Submitted: 9/13/2022Type of adjustment: Transfer Appropriation ☒**Explanation of request (Required):**

Transfer funds to "Miscellaneous Services" for the cost to renew Caitlyn Shelton's notary.

**Revenue**

| Account Title     | Account Code<br>(3-<br>xxx-xxxxxx-xxxx) | Current Budget | Adjustment<br>Amount (+/-) | Revised Budget | Finance<br>Use Only |
|-------------------|-----------------------------------------|----------------|----------------------------|----------------|---------------------|
|                   |                                         |                |                            |                | CR                  |
|                   |                                         |                |                            | -              |                     |
|                   |                                         |                |                            | -              |                     |
|                   |                                         |                |                            | -              |                     |
|                   |                                         |                |                            | -              |                     |
|                   |                                         |                |                            | -              |                     |
|                   |                                         |                |                            | -              |                     |
| Total Adjustments |                                         |                | -                          |                |                     |

**Expenditure**

| Account Title          | Account Code<br>(4-xxx-xxxxxx-xxxx) | Current Budget | Adjustment<br>Amount (+/-) | Revised Budget | Finance<br>Use Only |
|------------------------|-------------------------------------|----------------|----------------------------|----------------|---------------------|
| Lodging                | 4-112040-5504                       | 2,500          | (45)                       | 2,455          | DR                  |
| Miscellaneous Services | 4-112040-3399                       | -              | 45                         | 45             |                     |
|                        |                                     |                |                            |                |                     |
|                        |                                     |                |                            |                |                     |
|                        |                                     |                |                            |                |                     |
|                        |                                     |                |                            |                |                     |
|                        |                                     |                |                            | -              |                     |
|                        |                                     |                |                            | -              |                     |
|                        |                                     |                |                            | -              |                     |
|                        |                                     |                |                            | -              |                     |
| Total Adjustments      |                                     |                | -                          |                |                     |

**\*APPROVALS\***

Department (Required)

Signature

9/13/2022  
Date

Finance

Comments:

Signature

Date

County Administration

Comments:

Signature

9/27/2022  
Date

Board Approval

Comments:

Submission Packet:

Date

# Warren County Appropriation and Transfer Form

Department: **Fire and Rescue**

Fiscal Year: **22-23**

Contact: **James Bonzano**

Date Submitted: **9/28/2022**

Type of adjustment: **Transfer**

Appropriation ☐

## Explanation of request (Required):

The purpose of this transfer is to move funds from high budgeted line items into new accounts in anticipation of future expenditures

### Revenue

| Account Title     | Account Code<br>(3-xxx-xxxxxx-xxxx) | Current<br>Budget | Adjustment<br>Amount (+/-) | Revised<br>Budget | Finance<br>Use Only |
|-------------------|-------------------------------------|-------------------|----------------------------|-------------------|---------------------|
|                   |                                     |                   |                            |                   | CR                  |
| Total Adjustments |                                     |                   | -                          |                   |                     |

### Expenditure

| Account Title                           | Account Code<br>(4-xxx-xxxxxx-xxxx) | Current<br>Budget | Adjustment<br>Amount (+/-) | Revised<br>Budget | Finance<br>Use Only |
|-----------------------------------------|-------------------------------------|-------------------|----------------------------|-------------------|---------------------|
| Telephone                               | 4-001-035050-5203                   | 15,000            | (13,500)                   | 1,500             | <del>DR</del> CR    |
| Cellular Phone                          | 4-001-035050-5205                   | -                 | 13,500                     | 13,500            | DR                  |
| Office Supplies                         | 4-001-035050-5401                   | 11,000            | (5,000)                    | 6,000             | <del>DR</del> CR    |
| Lease/Rent of Equipment                 | 4-001-035050-5601                   | -                 | 5,000                      | 5,000             | DR                  |
| Office Supplies                         | 4-001-035050-5401                   | 11,000            | (500)                      | 10,500            | <del>DR</del> CR    |
| Laundry & Janitorial Supplies           | 4-001-035050-5405                   | -                 | 500                        | 500               | DR                  |
| Office Supplies                         | 4-001-035050-5401                   | 11,000            | (1,500)                    | 9,500             | <del>DR</del> CR    |
| Computer Supplies                       | 4-001-035050-5413                   |                   | 1,500                      | 1,500             | DR                  |
| Vehicle and Power Equipment Fuels       | 4-001-035050-5408                   | 48,000            | (48,000)                   | -                 | <del>DR</del> CR    |
| Motor Vehicle Repairs                   | 4-001-035050-3101                   | -                 | 32,500                     | 32,500            | DR                  |
| Equipment Maintenance                   | 4-001-035050-3102                   | -                 | 12,000                     | 12,000            | DR                  |
| Vehicle and Power Equipment Maintenance | 4-001-035050-5407                   | -                 | 3,500                      | 3,500             | DR                  |
|                                         |                                     |                   |                            | -                 |                     |
|                                         |                                     |                   |                            | -                 |                     |
|                                         |                                     |                   |                            | -                 |                     |
|                                         |                                     |                   |                            | -                 |                     |
|                                         |                                     |                   |                            | -                 |                     |
|                                         |                                     |                   |                            | -                 |                     |
| Total Adjustments                       |                                     |                   | -                          |                   |                     |

### APPROVALS\*

Department (Required)

N/A

Signature

Date

Finance

Comments:

9/28/22

Signature

Date

County Administration

Comments:

9/29/2022

Signature

Date

Board Approval

Comments:

Submission Packet:

Date

# Warren County Appropriation and Transfer Form

|                                |                                  |
|--------------------------------|----------------------------------|
| <b>Department:</b> Sheriff     | <b>Fiscal Year:</b> FY 22-23     |
| <b>Contact:</b> Vanessa Sutton | <b>Date Submitted:</b> 9/28/2022 |

**Type of adjustment:** ☒ **Transfer** ☐ **Appropriation**

## Explanation of request (Required):

The purpose of this Transfer is to move funds from High Budgeted Line items into new accounts in anticipation of future Expenditures

| Revenue                  |                                     |                   |                            |                   |                     |
|--------------------------|-------------------------------------|-------------------|----------------------------|-------------------|---------------------|
| Account Title            | Account Code<br>(3-xxx-xxxxxx-xxxx) | Current<br>Budget | Adjustment<br>Amount (+/-) | Revised<br>Budget | Finance<br>Use Only |
|                          |                                     |                   |                            |                   | CR                  |
| <b>Total Adjustments</b> |                                     |                   | -                          |                   |                     |

| Expenditure                                |                                     |                   |                            |                   |                     |
|--------------------------------------------|-------------------------------------|-------------------|----------------------------|-------------------|---------------------|
| Account Title                              | Account Code<br>(4-xxx-xxxxxx-xxxx) | Current<br>Budget | Adjustment<br>Amount (+/-) | Revised<br>Budget | Finance<br>Use Only |
| Vehicle & Powered Equipment Fuels          | 4-001-031020-5408                   | 300,000           | (120,000)                  | 180,000           | DR                  |
| Motor Vehicle Repairs                      | 4-001-031020-3101                   | -                 | 120,000                    | 120,000           | DR                  |
| Laundry and Janitorial Supplies            | 4-001-031020-5405                   | 10,500            | (1,000)                    | 9,500             | CR                  |
| Filing and Services Fess                   | 4-001-031020-3301                   | -                 | 1,000                      | 1,000             | DR                  |
| Laundry and Janitorial Supplies            | 4-001-031020-5405                   | 10,500            | (4,000)                    | 6,500             | CR                  |
| Laundry                                    | 4-001-031020-3303                   | -                 | 4,000                      | 4,000             | DR                  |
| Laundry and Janitorial Supplies            | 4-001-031020-5405                   | 10,500            | (4,000)                    | 6,500             | CR                  |
| Maintenance Supplies                       | 4-001-031020-5406                   | -                 | 4,000                      | 4,000             | DR                  |
| Laundry and Janitorial Supplies            | 4-001-031020-5405                   | 10,500            | (1,000)                    | 9,500             | CR                  |
| Meals                                      | 4-001-031020-5503                   | -                 | 1,000                      | 1,000             | DR                  |
| Telephone                                  | 4-001-031020-5203                   | 55,000            | (35,000)                   | 20,000            | CR                  |
| Cell Phone                                 | 4-001-031020-5205                   | -                 | 35,000                     | 35,000            | DR                  |
| Other Operating Supplies                   | 4-001-031020-5415                   | 71,000            | (10,000)                   | 61,000            | CR                  |
| Small Tools                                | 4-001-031020-5420                   | -                 | 10,000                     | 10,000            | DR                  |
| Other Operating Supplies                   | 4-001-031020-5415                   | 71,000            | (15,000)                   | 56,000            | CR                  |
| Misc. Software                             | 4-001-031020-5421                   | -                 | 15,000                     | 15,000            | DR                  |
| Other Operating Supplies                   | 4-001-031020-5415                   | 71,000            | (2,000)                    | 69,000            | CR                  |
| Vehicle & Powered Equipment Maint/Supplies | 4-001-031020-5407                   | -                 | 2,000                      | 2,000             | DR                  |
| <b>Total Adjustments</b>                   |                                     |                   | -                          |                   |                     |

## APPROVALS\*

|                                                                                     |  |                  |
|-------------------------------------------------------------------------------------|--|------------------|
| <b>Department (Required)</b>                                                        |  |                  |
| N/A                                                                                 |  |                  |
| <b>Signature</b>                                                                    |  | <b>Date</b>      |
| <b>Finance</b>                                                                      |  | <b>Comments:</b> |
|   |  | 9/28/22          |
| <b>Signature</b>                                                                    |  | <b>Date</b>      |
| <b>County Administration</b>                                                        |  | <b>Comments:</b> |
|  |  | 9/29/2022        |
| <b>Signature</b>                                                                    |  | <b>Date</b>      |
| <b>Board Approval</b>                                                               |  | <b>Comments:</b> |
| <b>Submission Packet:</b>                                                           |  | <b>Date</b>      |

# Warren County Appropriation and Transfer Form

Department: School Division

Fiscal Year: 2023

Contact: Matt Robertson

Date Submitted: 9/14/2022

Type of adjustment:      Transfer      ☐      Appropriation      ☒

Explanation of request (Required):

The purpose of this form is to appropriate the FY20-21 surplus of local funding for the School Division as approved by the Board of Supervisors at their meeting on September 20th, 2022.

## Revenue

| Account Title              | Account Code<br>(3-xxx-xxxxxx-xxxx) | Current<br>Budget | Adjustment<br>Amount (+/-) | Revised<br>Budget | Finance<br>Use Only |
|----------------------------|-------------------------------------|-------------------|----------------------------|-------------------|---------------------|
| Prior Year Fund Balance    | 3-1-41900-10                        | 995,424           | 1,677,113                  | 2,672,537         | CR                  |
| Transfer from General Fund | 3-59-41500-1                        | 1,220,125         | 409,913                    | 1,630,038         | CR                  |
| Transfer from General Fund | 3-60-41500-1                        | 1,844,583         | 1,000,000                  | 2,844,583         | CR                  |
| Total Adjustments          |                                     |                   | 3,087,026                  |                   |                     |

## Expenditure

| Account Title                        | Account Code<br>(4-xxx-xxxxxx-xxxx) | Current<br>Budget | Adjustment<br>Amount (+/-) | Revised<br>Budget | Finance<br>Use Only |
|--------------------------------------|-------------------------------------|-------------------|----------------------------|-------------------|---------------------|
| Transfer to Asset Replacement Fund   | 4-1-99010-59                        | 1,220,125         | 409,913                    | 1,630,038         | DR                  |
| Transfer to Capital Improvement Fund | 4-1-99010-60                        | 1,844,583         | 1,000,000                  | 2,844,583         | DR                  |
| Capital Reserve                      | 4-59-61000-9501                     | -                 | 1,000,000                  | 1,000,000         | DR                  |
| School Bus Replacement               | 4-60-61000-7001                     | -                 | 409,913                    | 409,913           | DR                  |
| Contingency Reserve                  | 4-1-91000-9500                      | 1,715,459         | 267,200                    | 1,982,659         | DR                  |
| Total Adjustments                    |                                     |                   | 3,087,026                  |                   |                     |

## \* APPROVALS \*

Department

N/A

Signature

Date

Finance

Comments:

Matthew Robertson

9/14/2022

Signature

Date

County Administration

Comments:



9/27/2022

Signature

Date

Board Approval

Comments:

Submission Packet: September 20, 2022

Date



# Warren County Delinquent Tax Collections Monthly Report

Month: September 2022

|                        |            |
|------------------------|------------|
| <u>Pond Law Group:</u> | \$4,197.99 |
| <u>TACS:</u>           | \$3,841.24 |

**TOTAL:** **\$8,039.23**

|                      |             |
|----------------------|-------------|
| Pond total for 2022: | \$77,806.84 |
| TACS total for 2022: | \$50,635.43 |

Cumulative total for 2022: **\$128,442.27**

|                       |              |
|-----------------------|--------------|
| Grand Total for 2016: | \$251,948.77 |
| Grand Total for 2017: | \$523,039.78 |
| Grand Total for 2018: | \$431,438.35 |
| Grand Total for 2019: | \$307,386.55 |
| Grand Total for 2020: | \$148,238.27 |
| Grand Total for 2021: | \$218,732.30 |

| Sands Anderson |           |              |
|----------------|-----------|--------------|
| Date           | Invoice # | Amount       |
| 2/4/2019       | 337902    | \$49,781.44  |
| 2/28/2019      | 338916    | \$50,559.83  |
| 4/1/2019       | 340092    | \$83,053.09  |
| 4/29/2019      | 343613    | \$97,993.94  |
| 5/30/2019      | 349027    | \$95,751.89  |
| 6/24/2019      | 353542    | \$105,677.60 |
| 7/25/2019      | 358087    | \$105,344.62 |
| 8/15/2019      | 363141    | \$132,559.98 |
| 9/10/2019      | 367746    | \$97,055.56  |
| 10/7/2019      | 214020    | \$1,485.00   |
| 10/16/2019     | 381643    | \$118,603.44 |
| 10/31/2019     | 977717TE1 | \$117,023.95 |
| 10/31/2019     | 977717TE2 | \$6,565.00   |
| 11/25/2019     | 383016    | \$175,313.87 |
| 11/30/2019     | 977842TE1 | \$11,124.92  |
| 11/30/2019     | 977842TE2 | \$6,340.00   |
| 12/18/2019     | 312341    | \$866.25     |
| 12/23/2019     | 387536    | \$124,817.89 |
| 12/31/2019     | 977957TE1 | \$9,086.18   |
| 12/31/2019     | 977957TE2 | \$6,340.00   |
| 1/13/2020      | 392047    | \$127,679.15 |
| 1/22/2020      | 315265    | \$2,706.17   |
| 1/31/2020      | 978125TE1 | \$9,281.19   |
| 1/31/2020      | 978125TE2 | \$6,490.00   |
| 2/13/2020      | 318900    | \$1,175.25   |
| 2/20/2020      | 369533    | \$158,751.64 |
| 2/29/2020      | 978239TE1 | \$9,357.94   |
| 2/29/2020      | 978239TE2 | \$6,490.00   |
| 3/13/2020      | 401012    | \$136,835.52 |
| 3/31/2020      | 978318T   | \$452.79     |
| 3/31/2020      | 978318TE1 | \$9,102.94   |
| 3/31/2020      | 978318TE2 | \$6,490.00   |
| 4/14/2020      | 415506    | \$119,235.96 |
| 4/15/2020      | 79425     | \$2,400.00   |
| 4/30/2020      | 978401TE  | \$10,778.38  |
| 5/14/2020      | 423245    | \$135,843.50 |
| 5/31/2020      | 978486TE  | \$11,319.00  |
| 6/17/2020      | 427726    | \$127,987.84 |
| 6/30/2020      | 978571TE  | \$11,067.78  |
| 7/16/2020      | 428985    | \$130,183.76 |
| 7/20/2020      | 337536    | \$566.18     |
| 7/31/2020      | 978676TE  | \$10,298.52  |

Halasz Reporting & Video

Superior Document Services

Superior Document Services

Superior Document Services

Superior Document Services

Planet Depos

Superior Document Services

Superior Document Services

Planet Depos

Superior Document Services

Superior Document Services

Planet Depos

Superior Document Services

Superior Document Services

Superior Document Services

Superior Document Services

Superior Document Services

Scott Insurance

Superior Document Services

Superior Document Services

Superior Document Services

Planet Depos

Superior Document Services

| Sands Anderson |             |              |
|----------------|-------------|--------------|
| Date           | Invoice #   | Amount       |
| 8/7/2020       | 433530      | \$133,312.50 |
| 8/15/2020      | 345192      | \$1,120.75   |
| 8/31/2020      | 978747      | \$9,984.77   |
| 9/18/2020      | 442067      | \$138,075.97 |
| 9/30/2020      | 978847      | \$9,739.77   |
| 10/7/2020      | 356355      | \$397.50     |
| 10/15/2020     | 443408      | \$117,141.00 |
| 10/31/2020     | 978915      | \$9,801.20   |
| 11/17/2020     | 448352      | \$120,209.55 |
| 11/25/2020     | N/A         | \$10,000.00  |
| 12/7/2020      | CINV-011172 | \$5,412.68   |
| 12/12/2020     | 35371       | \$706.00     |
| 12/14/2020     | P0100158271 | \$10,166.20  |
| 12/17/2020     | 453266      | \$113,966.75 |
| 1/13/2021      | 457980      | \$113,124.75 |
| 1/19/2021      | CINV-011784 | \$15,481.96  |
| 1/28/2021      | DR40982     | \$3,651.37   |
| 2/2/2021       | CINV-012445 | \$30,542.84  |
| 2/9/2021       | 339456      | \$1,227.05   |
| 2/9/2021       | 339457      | \$641.50     |
| 2/17/2021      | 462742      | \$133,253.39 |
| 2/23/2021      | 387076      | \$309.75     |
| 3/1/2021       | P0100169085 | \$9,189.30   |
| 3/11/2021      | P0100172805 | \$9,114.30   |
| 3/12/2021      | 467623      | \$130,648.00 |
| 4/9/2021       | P0100176976 | \$9,039.30   |
| 4/15/2021      | 472461      | \$134,955.15 |
| 4/15/2021      | 398691      | \$1,480.55   |
| 4/15/2021      | 398695      | \$918.75     |
| 4/22/2021      | 398718      | \$695.60     |
| 4/22/2021      | 398721      | \$500.00     |
| 4/22/2021      | 402022      | \$344.50     |
| 5/5/2021       | 401658      | \$739.05     |
| 5/6/2021       | 405174      | \$641.50     |
| 5/10/2021      | 16260       | \$1,034.00   |
| 5/12/2021      | P0100183367 | \$8,719.30   |
| 5/13/2021      | 407073      | \$394.00     |
| 5/13/2021      | 404491      | \$437.50     |
| 5/13/2021      | 404493      | \$595.85     |
| 5/13/2021      | 477247      | \$127,060.37 |
| 5/14/2021      | 404412      | \$1,873.45   |
| 5/14/2021      | 404406      | \$1,062.50   |

Planet Depos

Superior Document Services

Superior Document Services

Planet Depos

Superior Document Services

Planet Depos

Superior Document Services

Retainer for Experts for Mediation

Mediation Consultant Invoice

Courier One

KLDiscovery (formerly Superior Document Services)

Mediation Consultant Invoice

The McCammon Group

Mediation Consultant Invoice

Planet Depos

Planet Depos

Planet Depos

KLDiscovery (formerly Superior Document Services)

KLDiscovery (formerly Superior Document Services)

KLDiscovery (formerly Superior Document Services)

Planet Depos

Planet Depos

Planet Depos

Planet Depos

Planet Depos

Planet Depos

Rudiger, Green & Kerns

KLDiscovery (formerly Superior Document Services)

Planet Depos

Planet Depos

Planet Depos

Planet Depos

| Sands Anderson |             |              |
|----------------|-------------|--------------|
| Date           | Invoice #   | Amount       |
| 5/14/2021      | 405166      | \$790.00     |
| 6/4/2021       | 409309      | \$931.25     |
| 6/10/2021      | P0100188099 | \$8,754.30   |
| 6/15/2021      | 482033      | \$133,365.05 |
| 6/16/2021      | N/A         | \$52,000.00  |
| 7/9/2021       | 420879      | \$350.00     |
| 7/15/2021      | P0100193199 | \$8,679.30   |
| 7/22/2021      | 486778      | \$128,239.06 |
| 8/6/2021       | 427284      | \$1,561.25   |
| 8/6/2021       | 427280      | \$839.50     |
| 8/12/2021      | P0100197486 | \$9,619.30   |
| 8/23/2021      | P0100198232 | \$9,659.30   |
| 9/3/2021       | 432329      | \$786.00     |
| 9/10/2021      | P0100202487 | \$8,762.20   |
| 9/17/2021      | 496211      | \$120,505.13 |
| 10/11/2021     | P0100205568 | \$9,379.50   |
| 10/25/2021     | 446049      | \$1,200.60   |
| 10/25/2021     | 446050      | \$641.50     |
| 10/26/2021     | 500972      | \$126,954.16 |
| 11/1/2021      | 143233      | \$878.00     |
| 11/9/2021      | P0100211273 | \$8,514.50   |
| 11/18/2021     | 505498      | \$130,168.18 |
| 11/18/2021     | 451074      | \$1,208.95   |
| 11/18/2021     | 451076      | \$740.50     |
| 12/9/2021      | P0100214091 | \$8,414.50   |
| 12/22/2021     | 509983      | \$115,486.18 |
| 1/12/2022      | 465717      | \$442.50     |
| 1/13/2022      | 514569      | \$102,870.55 |
| 1/24/2022      | 1025        | \$11,550.00  |
| 1/25/2022      | P0100219963 | \$8,414.50   |
| 1/25/2022      | 144545      | \$708.00     |
| 1/31/2022      | 469046      | \$851.25     |
| 2/16/2022      | P0100224185 | \$8,214.50   |
| 2/25/2022      | 522325      | \$103,634.09 |

Planet Depos  
Planet Depos  
KLDDiscovery (formerly Superior Document Services)  
  
Payment to MoveOn8, LLC Bankruptcy Trustee  
Planet Depos  
KLDDiscovery (formerly Superior Document Services)  
  
Planet Depos  
Planet Depos  
KLDDiscovery (formerly Superior Document Services)  
KLDDiscovery (formerly Superior Document Services)  
Planet Depos  
KLDDiscovery (formerly Superior Document Services)  
  
KLDDiscovery (formerly Superior Document Services)  
Planet Depos  
Planet Depos  
  
Casamo Court Reporting  
KLDDiscovery (formerly Superior Document Services)  
  
Planet Depos  
Planet Depos  
KLDDiscovery (formerly Superior Document Services)  
  
Planet Depos  
  
Commonwealth Power  
KLDDiscovery (formerly Superior Document Services)  
Casamo Court Reporting  
Planet Depos  
KLDDiscovery (formerly Superior Document Services)

**Start of New Billing Process**

| Dated    | Invoice # | Amount      | Vendor         | Received |
|----------|-----------|-------------|----------------|----------|
| 3/9/2022 | 523678    | \$14,805.25 | Sands Anderson |          |
| 3/9/2022 | 523681    | \$19,232.50 | Sands Anderson |          |
| 3/9/2022 | 523682    | \$20,481.50 | Sands Anderson |          |
| 3/9/2022 | 523683    | \$1,400.50  | Sands Anderson |          |
| 3/9/2022 | 523684    | \$447.00    | Sands Anderson |          |

| Sands Anderson |             |             |                        |
|----------------|-------------|-------------|------------------------|
| Date           | Invoice #   | Amount      |                        |
| 3/10/2022      | P0100228360 | \$8,444.50  | KLDiscovery            |
| 3/17/2022      | 145439      | \$997.25    | Casamo Court Reporting |
| 4/4/2022       | 145399      | \$1,052.00  | Casamo Court Reporting |
| 4/5/2022       | 485781      | \$395.00    | Planet Depos           |
| 4/13/2022      | P0100232553 | \$9,540.70  | KLDiscovery            |
| 4/15/2022      | 532254      | \$39,560.00 | Sands Anderson         |
| 4/15/2022      | 532255      | \$876.50    | Sands Anderson         |
| 4/15/2022      | 532256      | \$17,467.50 | Sands Anderson         |
| 4/15/2022      | 532257      | \$162.00    | Sands Anderson         |
| 4/15/2022      | 532258      | \$25,469.49 | Sands Anderson         |
| 4/19/2022      | 489694      | \$1,067.40  | Planet Depos           |
| 4/27/2022      | 490141      | \$2,009.65  | Planet Depos           |
| 4/29/2022      | 492845      | \$692.75    | Planet Depos           |
| 5/12/2022      | 533661      | \$17,616.23 | Sands Anderson         |
| 5/12/2022      | 533664      | \$29,592.00 | Sands Anderson         |
| 5/12/2022      | 533665      | \$41,241.50 | Sands Anderson         |
| 5/12/2022      | 533666      | \$138.00    | Sands Anderson         |
| 12/22/2021     | 144118      | \$609.35    | Casamo Court Reporting |
| 12/27/2021     | 144125      | \$661.75    | Casamo Court Reporting |
| 3/21/2022      | 145480      | \$875.28    | Casamo Court Reporting |
| 3/30/2022      | 145676      | \$426.49    | Casamo Court Reporting |
| 6/3/2022       | 538383      | \$22,123.24 | Sands Anderson         |
| 6/3/2022       | 538386      | \$34,692.00 | Sands Anderson         |
| 6/3/2022       | 538387      | \$41,280.00 | Sands Anderson         |
| 5/31/2022      | 54831       | \$130.00    | Title Write            |
| 6/8/2022       | 500211      | \$1,211.50  | Planet Depos           |
| 6/9/2022       | P0100240864 | \$10,010.00 | KLDiscovery            |
| 6/23/2022      | 505080      | \$593.50    | Planet Depos           |
| 7/8/2022       | 543087      | \$48,324.20 | Sands Anderson         |
| 7/8/2022       | 543090      | \$24,457.50 | Sands Anderson         |
| 7/8/2022       | 543091      | \$52,460.50 | Sands Anderson         |
| 7/14/2022      | 511359      | \$775.00    | Planet Depos           |
| 7/13/2022      | 510764      | \$1,250.00  | Planet Depos           |
| 7/14/2022      | 511162      | \$1,250.00  | Planet Depos           |
| 7/13/2022      | P0100245897 | \$8,970.00  | KLDiscovery            |
| 7/6/2022       | 509157      | \$1,012.50  | Planet Depos           |
| 6/30/2022      | 507897      | \$631.50    | Planet Depos           |
| 7/19/2022      | 512132      | \$395.00    | Planet Depos           |
| 7/19/2022      | 511026      | \$979.75    | Planet Depos           |
| 7/18/2022      | 511561      | \$1,345.50  | Planet Depos           |
| 7/19/2022      | 512240      | \$3,610.30  | Planet Depos           |
| 7/19/2022      | 511565      | \$1,818.25  | Planet Depos           |

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| Sands Anderson |             |                |                          |            |
|----------------|-------------|----------------|--------------------------|------------|
| Date           | Invoice #   | Amount         |                          |            |
| 7/25/2022      | 513352      | \$680.00       | Planet Depos             | 7/28/2022  |
| 7/25/2022      | 513303      | \$1,012.50     | Planet Depos             | 7/28/2022  |
| 7/26/2022      | 513636      | \$1,060.00     | Planet Depos             | 7/28/2022  |
| 7/27/2022      | 514060      | \$1,250.00     | Planet Depos             | 7/28/2022  |
| 7/25/2022      | 546408      | \$62,555.46    | Sands Anderson           | 8/1/2022   |
| 7/25/2022      | 546409      | \$53,092.50    | Sands Anderson           | 8/1/2022   |
| 7/25/2022      | 546410      | \$64,015.50    | Sands Anderson           | 8/1/2022   |
| 6/24/2022      | 506337      | \$2,314.25     | Planet Depos             | 8/8/2022   |
| 7/29/2022      | 1025B       | \$10,756.25    | Commonwealth Power       | 8/8/2022   |
| 5/11/2022      | P0100235959 | \$9,370.00     | KLDiscovery              | 8/8/2022   |
| 8/3/2022       | 514016      | \$2,348.75     | Planet Depos             | 8/8/2022   |
| 8/3/2022       | 514611      | \$1,944.75     | Planet Depos             | 8/8/2022   |
| 8/1/2022       | 514613      | \$1,303.00     | Planet Depos             | 8/8/2022   |
| 8/3/2022       | 514963      | \$2,310.25     | Planet Depos             | 8/8/2022   |
| 8/3/2022       | 515533      | \$2,316.75     | Planet Depos             | 8/8/2022   |
| 8/13/2022      | 517731      | \$2,046.75     | Planet Depos             | 8/15/2022  |
| 8/13/2022      | 517734      | \$1,073.00     | Planet Depos             | 8/15/2022  |
| 8/13/2022      | 517742      | \$648.50       | Planet Depos             | 8/15/2022  |
| 8/13/2022      | 517784      | \$1,443.25     | Planet Depos             | 8/15/2022  |
| 8/13/2022      | 518104      | \$2,191.25     | Planet Depos             | 8/15/2022  |
| 8/13/2022      | 518145      | \$1,770.50     | Planet Depos             | 8/15/2022  |
| 8/13/2022      | 518150      | \$448.75       | Planet Depos             | 8/15/2022  |
| 8/15/2022      | P0100250438 | \$9,055.00     | KLDiscovery              | 8/16/2022  |
| 8/17/2022      | 519182      | \$2,157.25     | Planet Depos             | 8/19/2022  |
| 6/25/2022      | 147138      | \$791.00       | Casamo Court Reporting   | 8/22/2022  |
| 8/22/2022      | 236356      | \$310.00       | Halasz Reporting & Video | 8/24/2022  |
| 9/2/2022       | 523664      | \$45.00        | Planet Depos             | 9/6/2022   |
| 9/9/2022       | 552801      | \$62,535.84    | Sands Anderson           | 9/9/2022   |
| 9/9/2022       | 552803      | \$82,073.19    | Sands Anderson           | 9/9/2022   |
| 9/9/2022       | 552804      | \$142,609.50   | Sands Anderson           | 9/9/2022   |
| 9/8/2022       | P0100253682 | \$8,560.00     | KLDiscovery              | 9/19/2022  |
| 10/6/2022      | P0100256617 | \$8,785.00     | KLDiscovery              | 10/11/2022 |
|                |             |                |                          |            |
|                |             |                |                          |            |
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|                |             |                |                          |            |
|                |             |                |                          |            |
|                |             |                |                          |            |
|                |             |                |                          |            |
| Balance        |             | \$6,028,117.85 |                          |            |

## EXPENDITURES REPORT

| DESCRIPTION                    |                             | FY 2020 - 2021<br>ACTUAL | FY 2021 - 2022<br>ACTUAL | PRIOR YEAR<br>ACTUAL TO<br>DATE | FY 2022 - 2023<br>APPR<br>AMOUNT | FY 2022 - 2023<br>Y-T-D<br>AMOUNT | %<br>BUDGET<br>EXPENDED | DIFFERENCE<br>CURRENT<br>TO PRIOR YR |
|--------------------------------|-----------------------------|--------------------------|--------------------------|---------------------------------|----------------------------------|-----------------------------------|-------------------------|--------------------------------------|
| <b>GENERAL GOVERNMENT</b>      |                             |                          |                          |                                 |                                  |                                   |                         |                                      |
| 11010                          | Board of Supervisors        | 2,160,448                | 167,487                  | 179,000                         | 212,150                          | 36,394                            | 17.16%                  | (142,606)                            |
| 12020                          | County Administration       | 596,392                  | 507,489                  | 500,000                         | 507,866                          | 118,103                           | 23.25%                  | (381,897)                            |
| 12030                          | Human Resources             | 1,924                    | 184,328                  | 169,900                         | 276,694                          | 62,661                            | 22.65%                  | (107,239)                            |
| 12040                          | County Attorney             | 154,390                  | 374,051                  | 344,000                         | 356,375                          | 55,552                            | 15.59%                  | (288,448)                            |
| 12060                          | Information Technology      | 47,378                   | 671,412                  | 70,000                          | 1,006,112                        | 119,810                           | 11.91%                  | 49,810                               |
| 12090                          | Commissioner of the Revenue | 696,470                  | 734,828                  | 777,000                         | 769,266                          | 149,569                           | 19.44%                  | (627,431)                            |
| 12110                          | Reassessment                | 1,296                    | 251,208                  | 50,000                          | 148,331                          | 50,225                            | 33.86%                  | 225                                  |
| 12130                          | Treasurer                   | 535,950                  | 575,969                  | 566,000                         | 571,334                          | 111,835                           | 19.57%                  | (454,165)                            |
| 12150                          | Finance & Purchasing        | 372,293                  | 483,409                  | 448,000                         | 538,803                          | 89,852                            | 16.68%                  | (358,148)                            |
| 13000                          | Elections                   | 279,730                  | 363,321                  | 391,000                         | 444,301                          | 57,522                            | 12.95%                  | (333,478)                            |
| * SUBTOTAL *                   |                             | <b>4,846,271</b>         | <b>4,313,502</b>         | <b>3,494,900</b>                | <b>4,831,232</b>                 | <b>851,523</b>                    | <b>17.63%</b>           | <b>-2,643,377</b>                    |
| <b>JUDICIAL ADMINISTRATION</b> |                             |                          |                          |                                 |                                  |                                   |                         |                                      |
| 21010                          | Circuit Court               | 7,133                    | 94,893                   | 65,400                          | 71,044                           | (32,975)                          | -46.41%                 | (98,375)                             |
| 21020                          | General District Court      | 24,706                   | 19,503                   | 24,300                          | 24,300                           | 3,518                             | 14.48%                  | (20,782)                             |
| 21030                          | Magistrates                 | 4,536                    | 5,374                    | 5,800                           | 5,400                            | 676                               | 12.52%                  | (5,124)                              |
| 21040                          | Drug Court                  | -                        | -                        | -                               | 70,160                           | 1,568                             | 2.24%                   | 1,568                                |
| 21050                          | Juvenile and Domestic Court | 15,604                   | 17,541                   | 19,000                          | 19,000                           | 3,211                             | 16.90%                  | (15,789)                             |
| 21060                          | Clerk of Circuit Court      | 595,585                  | 656,588                  | 670,889                         | 712,101                          | 143,339                           | 20.13%                  | (527,550)                            |
| 21080                          | Law Library                 | 57,570                   | 50,482                   | 54,300                          | 63,539                           | 1,530                             | 2.41%                   | (52,770)                             |
| 22010                          | Commonwealth's Attorney     | 1,057,942                | 1,137,546                | 1,105,200                       | 1,175,318                        | 260,261                           | 22.14%                  | (844,939)                            |
| * SUBTOTAL *                   |                             | <b>1,763,076</b>         | <b>1,981,928</b>         | <b>1,944,889</b>                | <b>2,140,862</b>                 | <b>381,128</b>                    | <b>17.80%</b>           | <b>-1,563,761</b>                    |
| <b>PUBLIC SAFETY</b>           |                             |                          |                          |                                 |                                  |                                   |                         |                                      |
| 31020                          | Sheriff's Department        | 4,725,508                | 5,538,957                | 4,953,000                       | 7,491,026                        | 1,472,834                         | 19.66%                  | (3,480,166)                          |
| 31040                          | E-911 System                | 709,678                  | 1,022,001                | 753,000                         | 1,026,194                        | 373,919                           | 36.44%                  | (379,081)                            |
| 31050                          | School Resource             | 826,491                  | 526,842                  | 766,800                         | -                                | -                                 | -                       | (766,800)                            |
| 32000                          | Volunteer Fire & Rescue     | 1,724,094                | 1,195,874                | 940,000                         | 1,031,471                        | 159,330                           | 15.45%                  | (780,670)                            |
| 33000                          | Court Services              | 929,591                  | 863,931                  | 998,300                         | -                                | 1,576                             | -                       | (996,724)                            |
| 33030                          | Probation                   | 10,316                   | 5,182                    | 41,000                          | 41,000                           | 2,492                             | 6.08%                   | (38,508)                             |
| 34010                          | Building Inspections        | 702,021                  | 712,336                  | 618,000                         | 633,435                          | 148,645                           | 23.47%                  | (469,355)                            |
| 35010                          | Animal Control              | 573,852                  | 602,918                  | 708,054                         | -                                | 30,233                            | -                       | (677,821)                            |
| 35030                          | Medical Examiner            | 680                      | 700                      | 1,000                           | 1,000                            | 80                                | 8.00%                   | (920)                                |
| 35050                          | Fire & Rescue Department    | 4,058,479                | 5,062,031                | 4,376,000                       | 5,125,693                        | 1,054,739                         | 20.58%                  | (3,321,261)                          |
| * SUBTOTAL *                   |                             | <b>14,260,708</b>        | <b>15,530,772</b>        | <b>14,155,154</b>               | <b>15,349,819</b>                | <b>3,243,849</b>                  | <b>21.13%</b>           | <b>-10,911,305</b>                   |

## EXPENDITURES REPORT

| DESCRIPTION                        |                                    | FY 2020 - 2021<br>ACTUAL | FY 2021 - 2022<br>ACTUAL | PRIOR YEAR<br>ACTUAL TO<br>DATE | FY 2022 - 2023<br>APPR<br>AMOUNT | FY 2022 - 2023<br>Y-T-D<br>AMOUNT | %<br>BUDGET<br>EXPENDED | DIFFERENCE<br>CURRENT<br>TO PRIOR YR |
|------------------------------------|------------------------------------|--------------------------|--------------------------|---------------------------------|----------------------------------|-----------------------------------|-------------------------|--------------------------------------|
| <b>PUBLIC WORKS</b>                |                                    |                          |                          |                                 |                                  |                                   |                         |                                      |
| 41010                              | Public Works/Sanitary Districts    | 487,575                  | 401,353                  | 428,200                         | 443,385                          | 78,053                            | 17.60%                  | (350,147)                            |
| 41020                              | Streets and Highways               | 9,499                    | 11,534                   | 20,000                          | 20,000                           | -                                 | 0.00%                   | (20,000)                             |
| 42030                              | Refuse Collection                  | 796,471                  | 1,065,395                | 786,000                         | 847,260                          | 204,171                           | 24.10%                  | (581,829)                            |
| 42035                              | Refuse Collection/Transfer Station | 210,292                  | 195,730                  | 226,000                         | 226,929                          | 36,450                            | 16.06%                  | (189,550)                            |
| 42040                              | Refuse Disposal                    | 2,546,563                | 3,057,928                | 2,880,000                       | 2,877,513                        | 572,283                           | 19.89%                  | (2,307,717)                          |
| 43000                              | Maintenance of Bldgs. & Grounds    | 1,769,655                | 1,826,510                | 1,396,000                       | 1,562,223                        | 311,168                           | 19.92%                  | (1,084,832)                          |
| * SUBTOTAL *                       |                                    | <b>5,820,055</b>         | <b>6,558,451</b>         | <b>5,736,200</b>                | <b>5,977,310</b>                 | <b>1,202,124</b>                  | <b>20.11%</b>           | <b>-4,534,076</b>                    |
| <b>HEALTH/WELFARE/PARTNERSHIPS</b> |                                    |                          |                          |                                 |                                  |                                   |                         |                                      |
| 51000                              | Health                             | 392,676                  | 382,412                  | 382,537                         | 373,600                          | 186,802                           | 50.00%                  | (195,735)                            |
| 52000                              | Mental Health & Disability         | 366,886                  | 115,637                  | 32,500                          | -                                | -                                 | -                       | (32,500)                             |
| 53000                              | Social Services                    | 4,016,041                | 4,385,774                | 5,045,779                       | 4,958,747                        | 383,717                           | 7.74%                   | (4,662,062)                          |
| 53090                              | Other Social Services              | 597,643                  | 115,000                  | 110,000                         | 149,000                          | 119,176                           | 79.98%                  | 9,176                                |
| 53500                              | Comprehensive Services Act         | 2,022,117                | 2,204,457                | 1,785,000                       | 1,994,647                        | 226,595                           | 11.36%                  | (1,558,405)                          |
| 64010                              | Regional Partnerships              | 69,656                   | 3,997,843                | 4,193,850                       | 4,052,300                        | -                                 | 0.00%                   | (4,193,850)                          |
| * SUBTOTAL *                       |                                    | <b>7,465,020</b>         | <b>11,201,122</b>        | <b>11,549,666</b>               | <b>11,528,294</b>                | <b>916,290</b>                    | <b>7.95%</b>            | <b>-10,633,376</b>                   |
| <b>PARK, REC &amp; CULTURAL</b>    |                                    |                          |                          |                                 |                                  |                                   |                         |                                      |
| 71010                              | Parks & Rec - Administration       | 637,928                  | 728,262                  | 892,000                         | 712,489                          | 148,409                           | 20.83%                  | (743,591)                            |
| 71020                              | Parks & Rec - Rec Programs         | 19,566                   | 42,506                   | 54,508                          | 169,165                          | 64,190                            | 37.95%                  | 9,682                                |
| 71030                              | Parks & Rec - Maintenance          | 1,440,844                | 1,529,483                | 1,547,438                       | 1,552,529                        | 269,363                           | 17.35%                  | (1,278,075)                          |
| 73000                              | Library, Museums, Cult. Enrich.    | 1,018,087                | 1,018,100                | 1,018,100                       | 1,039,000                        | 265,200                           | 25.52%                  | (752,900)                            |
| * SUBTOTAL *                       |                                    | <b>3,116,424</b>         | <b>3,318,351</b>         | <b>3,512,046</b>                | <b>3,473,183</b>                 | <b>747,162</b>                    | <b>21.51%</b>           | <b>-2,764,884</b>                    |
| <b>COMMUNITY DEVELOPMENT</b>       |                                    |                          |                          |                                 |                                  |                                   |                         |                                      |
| 81010                              | Planning & Zoning Administration   | 388,235                  | 439,992                  | 473,000                         | 485,229                          | 110,190                           | 22.71%                  | (362,810)                            |
| 81050                              | Economic Development               | 302,194                  | 2,895,624                | 3,197,500                       | 1,943,047                        | 127,457                           | 6.56%                   | (3,070,043)                          |
| 82000                              | Environmental Management           | 20,500                   | 20,010                   | 18,500                          | 28,500                           | 15,000                            | 52.63%                  | (3,500)                              |
| 83000                              | VPI Extension Service              | 111,998                  | 124,487                  | 121,000                         | 139,515                          | 24,370                            | 17.47%                  | (96,630)                             |
| * SUBTOTAL *                       |                                    | <b>822,927</b>           | <b>3,480,113</b>         | <b>3,810,000</b>                | <b>2,596,291</b>                 | <b>277,016</b>                    | <b>10.67%</b>           | <b>-3,532,984</b>                    |

## EXPENDITURES REPORT

| DESCRIPTION               |                                       | FY 2020 - 2021<br>ACTUAL | FY 2021 - 2022<br>ACTUAL | PRIOR YEAR<br>ACTUAL TO<br>DATE | FY 2022 - 2023<br>APPR<br>AMOUNT | FY 2022 - 2023<br>Y-T-D<br>AMOUNT | %<br>BUDGET<br>EXPENDED | DIFFERENCE<br>CURRENT<br>TO PRIOR YR |
|---------------------------|---------------------------------------|--------------------------|--------------------------|---------------------------------|----------------------------------|-----------------------------------|-------------------------|--------------------------------------|
| <b>MISCELLANEOUS</b>      |                                       |                          |                          |                                 |                                  |                                   |                         |                                      |
| 91000                     | Non-Departmental                      | 3,844,511                | 1,052,059                | 1,884,000                       | 3,053,459                        | 375,198                           | 12.29%                  | (1,508,802)                          |
| 92000                     | Capital Outlay                        | 18,773,426               | 1,381,225                | 2,779,408                       | -                                | 228,732                           | -                       | (2,550,676)                          |
| 95000                     | Debt Service                          | 464,479                  | 11,190,519               | 11,846,251                      | 11,159,378                       | -                                 | 0.00%                   | (11,846,251)                         |
| 99010                     | Transfers to Other Funds              | 28,995,251               | 27,611,610               | 27,720,000                      | 29,569,249                       | 1,891,569                         | 6.40%                   | (25,828,431)                         |
| <b>* SUBTOTAL *</b>       |                                       | <b>48,061,626</b>        | <b>41,235,412</b>        | <b>44,229,659</b>               | <b>43,782,086</b>                | <b>2,495,499</b>                  | <b>5.70%</b>            | <b>-41,734,160</b>                   |
| <b>TOTAL GENERAL FUND</b> |                                       | <b>86,156,107</b>        | <b>87,619,651</b>        | <b>88,432,514</b>               | <b>89,679,077</b>                | <b>10,114,592</b>                 | <b>11.28%</b>           | <b>-78,317,922</b>                   |
|                           |                                       |                          |                          |                                 |                                  |                                   |                         |                                      |
| <b>59</b>                 | <b>CAPITAL IMPROVEMENT FUND</b>       | -                        | -                        | -                               | <b>8,347,627</b>                 | <b>18,047</b>                     | <b>0.22%</b>            | <b>18,047</b>                        |
|                           |                                       |                          |                          |                                 |                                  |                                   |                         |                                      |
| <b>60</b>                 | <b>ASSET REPLACEMENT FUND</b>         | -                        | -                        | -                               | <b>2,822,650</b>                 | <b>189,898</b>                    | <b>6.73%</b>            | <b>189,898</b>                       |
|                           |                                       |                          |                          |                                 |                                  |                                   |                         |                                      |
| <b>81</b>                 | <b>AIRPORT FUND</b>                   |                          |                          |                                 |                                  |                                   |                         |                                      |
|                           | Operating Expenditures                | 179,874                  | 436,773                  | 15,338                          | 208,332                          | 33,792                            | 16.22%                  | 18,453                               |
|                           | Transfer to General Fund              | -                        | -                        | -                               | -                                | -                                 | -                       | -                                    |
| <b>* SUBTOTAL *</b>       |                                       | <b>179,874</b>           | <b>436,773</b>           | <b>15,338</b>                   | <b>208,332</b>                   | <b>33,792</b>                     | <b>16.22%</b>           | <b>18,453</b>                        |
|                           |                                       |                          |                          |                                 |                                  |                                   |                         |                                      |
| <b>83</b>                 | <b>COST RECOVERY FUND</b>             |                          |                          |                                 |                                  |                                   |                         |                                      |
|                           | Operating Expenditures                | <b>620,874</b>           | <b>508,076</b>           | <b>21,358</b>                   | <b>969,000</b>                   | <b>247,601</b>                    | <b>25.55%</b>           | <b>226,242</b>                       |
|                           |                                       |                          |                          |                                 |                                  |                                   |                         |                                      |
| <b>94</b>                 | <b>ECONOMIC DEVELOPMENT AUTHORITY</b> |                          |                          |                                 |                                  |                                   |                         |                                      |
|                           | Operating Expenditures                | <b>1,457,290</b>         | <b>1,160,318</b>         | <b>178,321</b>                  | <b>905,250</b>                   | <b>257,620</b>                    | <b>28.46%</b>           | <b>79,299</b>                        |

REVENUE REPORT

| DESCRIPTION                        |                                  | FY 2020 - 2021<br>ACTUAL | FY 2021 - 2022<br>ACTUAL | PRIOR YEAR<br>ACTUAL TO<br>DATE | FY 2022 - 2023<br>APPR<br>AMOUNT | FY 2022 - 2023<br>COLLECTED<br>Y-T-D | %<br>FY 2022 - 2023<br>COLLECTED | DIFFERENCE<br>CURRENT<br>TO PRIOR YR |
|------------------------------------|----------------------------------|--------------------------|--------------------------|---------------------------------|----------------------------------|--------------------------------------|----------------------------------|--------------------------------------|
| <b>1 GENERAL FUND</b>              |                                  |                          |                          |                                 |                                  |                                      |                                  |                                      |
| <b>GENERAL PROPERTY TAXES</b>      |                                  |                          |                          |                                 |                                  |                                      |                                  |                                      |
| 11010                              | Real Estate Taxes                | 31,354,110               | 30,955,620               | 31,183,001                      | 32,770,000                       | 1,361,328                            | 4.15%                            | (29,821,673)                         |
| 11020                              | Public Service Tax               | 6,813,077                | 5,567,362                | 6,600,000                       | 5,500,000                        | 105,692                              | 1.92%                            | (6,494,308)                          |
| 11030                              | Personal Property Tax            | 18,597,296               | 21,202,792               | 18,408,000                      | 21,182,220                       | 2,179,661                            | 10.29%                           | (16,228,339)                         |
| 11040                              | Machinery & Tools Tax            | 1,839,573                | 1,760,657                | 1,809,000                       | 1,800,000                        | 12,094                               | 0.67%                            | (1,796,906)                          |
| 11050                              | Mineral Rights                   | 1,783                    | 3,464                    | 3,000                           | 3,000                            | 1,932                                | 64.41%                           | (1,068)                              |
| 11060                              | Penalties and Interest           | 982,603                  | 1,084,262                | 1,000,000                       | 950,000                          | 173,748                              | 18.29%                           | (826,252)                            |
|                                    | <b>* SUBTOTAL *</b>              | <b>59,588,441</b>        | <b>60,574,158</b>        | <b>59,003,001</b>               | <b>62,205,220</b>                | <b>3,834,455</b>                     | <b>6.16%</b>                     | <b>(55,168,546)</b>                  |
| <b>OTHER LOCAL TAXES</b>           |                                  |                          |                          |                                 |                                  |                                      |                                  |                                      |
| 12010                              | Local Sales, Use, Communications | 4,965,575                | 6,441,932                | 5,880,000                       | 6,250,000                        | 552,952                              | 8.85%                            | (5,327,048)                          |
| 12020                              | Utility Tax                      | 750,564                  | 758,522                  | 760,000                         | 760,800                          | 129,109                              | 16.97%                           | (630,891)                            |
| 12030                              | Business License                 | 1,149,077                | 1,284,563                | 1,000,000                       | 1,150,000                        | 32,291                               | 2.81%                            | (967,709)                            |
| 12040                              | Recordation Taxes (Grantee)      | 956,123                  | 1,001,862                | 740,000                         | 889,000                          | 128,112                              | 14.41%                           | (611,888)                            |
| 12050                              | Motor Vehicle License Tax        | 932,782                  | 842,841                  | 950,000                         | 950,000                          | 150,389                              | 15.83%                           | (799,611)                            |
| 12070                              | Recordation (Grantor) Will       | 225,391                  | 242,303                  | 100,000                         | 209,200                          | 55,233                               | 26.40%                           | (44,767)                             |
| 12080                              | Meals and Beverage Tax           | 1,088,125                | 1,252,151                | 1,000,000                       | 1,250,000                        | 221,635                              | 17.73%                           | (778,365)                            |
| 12090                              | Cigarette Tax                    | 0                        | -                        | 100,000                         | 100,000                          | -                                    | 0.00%                            | (100,000)                            |
| 312100                             | Lodging Tax                      | 314,042                  | 374,207                  | 250,000                         | 350,000                          | 69,257                               | 19.79%                           | (180,743)                            |
|                                    | <b>* SUBTOTAL *</b>              | <b>10,381,679</b>        | <b>12,198,380</b>        | <b>10,780,000</b>               | <b>11,909,000</b>                | <b>1,338,976</b>                     | <b>11.24%</b>                    | <b>(9,441,024)</b>                   |
| <b>PERMITS, FEES, AND LICENSES</b> |                                  |                          |                          |                                 |                                  |                                      |                                  |                                      |
| 13010                              | Animal License Fees              | 37,586                   | 35,671                   | 45,000                          | 38,000                           | 2,386                                | 6.28%                            | (42,614)                             |
| 13030                              | Permits & Other Licenses         | 693,369                  | 925,424                  | 806,846                         | 602,650                          | 218,983                              | 36.34%                           | (587,863)                            |
| 13040                              | Parks & Rec Fees                 | -                        | 59,879                   | -                               | 267,350                          | 80,025                               | 29.93%                           | 80,025                               |
| 130325                             | Waste Permit Decal Fee           | 2,800                    | 2,645                    | -                               | 2,000                            | 355                                  | 17.75%                           | 355                                  |
|                                    | <b>* SUBTOTAL *</b>              | <b>733,755</b>           | <b>1,023,618</b>         | <b>851,846</b>                  | <b>910,000</b>                   | <b>301,750</b>                       | <b>33.16%</b>                    | <b>(550,096)</b>                     |
| <b>FINES AND FORFEITURES</b>       |                                  |                          |                          |                                 |                                  |                                      |                                  |                                      |
| 14010                              | Court Fines                      | 120,331                  | 120,613                  | 90,000                          | 90,000                           | 17,117                               | 19.02%                           | (72,883)                             |
| 14020                              | Other Court Costs                | 723                      | (5)                      | -                               | -                                | -                                    | #DIV/0!                          | -                                    |
|                                    | <b>* SUBTOTAL *</b>              | <b>121,053</b>           | <b>120,608</b>           | <b>90,000</b>                   | <b>90,000</b>                    | <b>17,117</b>                        | <b>19.02%</b>                    | <b>(72,883)</b>                      |

REVENUE REPORT

| DESCRIPTION                              |                                   | FY 2020 - 2021<br>ACTUAL | FY 2021 - 2022<br>ACTUAL | PRIOR YEAR<br>ACTUAL TO<br>DATE | FY 2022 - 2023<br>APPR<br>AMOUNT | FY 2022 - 2023<br>COLLECTED<br>Y-T-D | %<br>FY 2022 - 2023<br>COLLECTED | DIFFERENCE<br>CURRENT<br>TO PRIOR YR |
|------------------------------------------|-----------------------------------|--------------------------|--------------------------|---------------------------------|----------------------------------|--------------------------------------|----------------------------------|--------------------------------------|
| <b>USE OF MONEY AND PROPERTY</b>         |                                   |                          |                          |                                 |                                  |                                      |                                  |                                      |
| 15010                                    | Revenue From Use of Money         | 100,451                  | (448,205)                | 250,000                         | 200,000                          | (82,030)                             | -41.02%                          | (332,030)                            |
| 15020                                    | Revenue From Use of Property      | 310,371                  | 332,181                  | 492,000                         | 350,000                          | 77,251                               | 22.07%                           | (414,749)                            |
|                                          | <b>* SUBTOTAL *</b>               | <b>410,822</b>           | <b>(116,024)</b>         | <b>742,000</b>                  | <b>550,000</b>                   | <b>(4,779)</b>                       | <b>-0.87%</b>                    | <b>(746,779)</b>                     |
| <b>CHARGES FOR SERVICES</b>              |                                   |                          |                          |                                 |                                  |                                      |                                  |                                      |
| 16010                                    | Charges for Services (Sheriff)    | 2,396                    | 2,357                    | 2,000                           | 2,000                            | -                                    | 0.00%                            | (2,000)                              |
| 16020                                    | Charges for Commonwealth Att.     | 4,315                    | 3,845                    | 4,000                           | 4,000                            | 405                                  | 10.13%                           | (3,595)                              |
| 16050                                    | Charges for Corrections & Det.    | 77,892                   | 82,844                   | 70,000                          | 80,000                           | 13,856                               | 17.32%                           | (56,144)                             |
| 16080                                    | Charges for Sanitation & Waste    | 989,098                  | 1,249,800                | 1,300,000                       | 1,300,000                        | 230,898                              | 17.76%                           | (1,069,102)                          |
| 16160                                    | Sales of Map Survey               | 9,359                    | 9,485                    | 17,000                          | 17,000                           | 3,481                                | 20.48%                           | (13,519)                             |
| 16170                                    | Sale of Copies - Comm. Of Rev.    | 525                      | 900                      | 4,000                           | 500                              | 150                                  | 30.00%                           | (3,850)                              |
| 16180                                    | Sales of Copies - Treasurer       | 0                        | -                        | -                               | -                                | -                                    | #DIV/0!                          | -                                    |
| 16990                                    | Other Charges for Services        | 50,757                   | 72,507                   | 57,500                          | 61,500                           | 20,984                               | 34.12%                           | (36,516)                             |
|                                          | <b>* SUBTOTAL *</b>               | <b>1,134,342</b>         | <b>1,421,739</b>         | <b>1,454,500</b>                | <b>1,465,000</b>                 | <b>269,775</b>                       | <b>18.41%</b>                    | <b>(1,184,725)</b>                   |
| <b>MISCELLANEOUS AND RECOVERED COSTS</b> |                                   |                          |                          |                                 |                                  |                                      |                                  |                                      |
| 18030                                    | Refunds, Loans, and Fees          | 28,447,384               | 972,605                  | 648,000                         | 560,000                          | 135,662                              | 24.23%                           | (512,338)                            |
| 18990                                    | Miscellaneous and Recovered Costs | 1,294,000                | 655,208                  | 3,342,650                       | 1,560,150                        | 65,944                               | 4.23%                            | (3,276,706)                          |
| 19120                                    | Sale of Recyclable Materials      | 118,284                  | 147,248                  | 90,000                          | 120,000                          | 44,488                               | 37.07%                           | (45,512)                             |
|                                          | <b>* SUBTOTAL *</b>               | <b>29,859,668</b>        | <b>1,775,061</b>         | <b>4,080,650</b>                | <b>2,240,150</b>                 | <b>246,094</b>                       | <b>10.99%</b>                    | <b>(3,834,556)</b>                   |
| <b>STATE REVENUE</b>                     |                                   |                          |                          |                                 |                                  |                                      |                                  |                                      |
| 22010                                    | Non-Categorical Aid               | 79,162                   | 78,196                   | 211,000                         | 66,000                           | 8,871                                | 13.44%                           | (202,129)                            |
| 23010                                    | Shared Expenses - Commonwealth's  | 474,446                  | 516,075                  | 517,756                         | 545,000                          | 38,359                               | 7.04%                            | (479,397)                            |
| 23020                                    | Shared Expenses - Sheriff         | 1,709,815                | 1,902,446                | 1,838,572                       | 1,970,000                        | 113,411                              | 5.76%                            | (1,725,161)                          |
| 23030                                    | Shared Expenses - Commissioner of | 162,391                  | 194,603                  | 195,008                         | 205,000                          | 16,097                               | 7.85%                            | (178,911)                            |
| 23040                                    | Shared Expenses - Treasurer       | 111,685                  | 128,007                  | 128,601                         | 140,000                          | 20,964                               | 14.97%                           | (107,637)                            |
| 23060                                    | Shared Expenses - Registrar       | 47,286                   | 77,648                   | 40,000                          | 45,000                           | -                                    | 0.00%                            | (40,000)                             |
| 23080                                    | Shared Expenses - Clerk of Court  | 346,277                  | 432,845                  | 387,039                         | 402,000                          | 25,072                               | 6.24%                            | (361,967)                            |
| 24010                                    | State VPA/Welfare Reimbursement   | 1,139,840                | 1,202,035                | 1,432,657                       | 1,422,000                        | 169,916                              | 11.95%                           | (1,262,741)                          |
| 24020                                    | Categorical Aid                   | 1,105,990                | 753,675                  | 1,050,004                       | 1,168,000                        | 212,160                              | 18.16%                           | (1,394,540)                          |
| 24040                                    | Other Categorical Aid             | 291,047                  | 850,937                  | 1,606,700                       | 601,373                          | 10,895                               | 1.81%                            | (1,595,805)                          |
|                                          | <b>* SUBTOTAL *</b>               | <b>5,467,938</b>         | <b>6,136,466</b>         | <b>7,407,337</b>                | <b>6,564,373</b>                 | <b>615,745</b>                       | <b>9.38%</b>                     | <b>(7,348,288)</b>                   |

REVENUE REPORT

| DESCRIPTION                       |                                     | FY 2020 - 2021<br>ACTUAL | FY 2021 - 2022<br>ACTUAL | PRIOR YEAR<br>ACTUAL TO<br>DATE | FY 2022 - 2023<br>APPR<br>AMOUNT | FY 2022 - 2023<br>COLLECTED<br>Y-T-D | %<br>FY 2022 - 2023<br>COLLECTED | DIFFERENCE<br>CURRENT<br>TO PRIOR YR |
|-----------------------------------|-------------------------------------|--------------------------|--------------------------|---------------------------------|----------------------------------|--------------------------------------|----------------------------------|--------------------------------------|
| <b>FEDERAL REVENUE</b>            |                                     |                          |                          |                                 |                                  |                                      |                                  |                                      |
| 31010                             | Revenue from the Federal Government | 2,981,806                | 2,298,184                | 2,503,051                       | 2,540,500                        | 446,218                              | 17.56%                           | (2,056,833)                          |
|                                   | <b>* SUBTOTAL *</b>                 | <b>2,981,806</b>         | <b>2,298,184</b>         | <b>2,503,051</b>                | <b>2,540,500</b>                 | <b>446,218</b>                       | <b>17.56%</b>                    | <b>-2,056,833</b>                    |
| <b>INTERGOVERNMENTAL</b>          |                                     |                          |                          |                                 |                                  |                                      |                                  |                                      |
| 41050                             | Transfers from Other Funds          | 1,671,284                | 4,764,904                | 95,254                          | 202,300                          | 14,026                               | 6.93%                            | (81,228)                             |
| 41900                             | Use of Fund Balance                 | -                        | -                        | -                               | 995,424                          | -                                    | 0.00%                            | -                                    |
|                                   | <b>* SUBTOTAL *</b>                 | <b>1,671,284</b>         | <b>4,764,904</b>         | <b>95,254</b>                   | <b>1,197,724</b>                 | <b>14,026</b>                        | <b>1.17%</b>                     | <b>(81,228)</b>                      |
| <b>TOTAL GENERAL FUND REVENUE</b> |                                     | <b>112,350,789</b>       | <b>90,197,094</b>        | <b>87,007,639</b>               | <b>89,671,967</b>                | <b>7,079,376</b>                     | <b>7.89%</b>                     | <b>(79,928,263)</b>                  |
| <b>59</b>                         | <b>CAPITAL IMPROVEMENT</b>          | <b>0</b>                 | <b>-</b>                 | <b>-</b>                        | <b>8,347,627</b>                 | <b>78,174</b>                        | <b>0.94%</b>                     | <b>78,174</b>                        |
| <b>60</b>                         | <b>ASSET REPLACEMENT</b>            | <b>0</b>                 | <b>-</b>                 | <b>-</b>                        | <b>8,347,627</b>                 | <b>-</b>                             | <b>0.00%</b>                     | <b>-</b>                             |
| <b>81</b>                         | <b>FRONT ROYAL AIRPORT</b>          |                          |                          |                                 |                                  |                                      |                                  |                                      |
| 15020                             | Hangar Rentals                      | 178,607                  | 193,987                  | 220,000                         | 189,665                          | 40,454                               | 21.33%                           | (179,546)                            |
| 18990                             | Miscellaneous Income                | -                        | -                        | -                               | 18,667                           | -                                    | 0.00%                            | -                                    |
| 24040                             | State Grants                        | 4,785                    | 109,494                  | -                               | -                                | 1,126                                | -                                | 1,126                                |
| 31020                             | Federal Grants                      | 4,250                    | 81,079                   | -                               | -                                | 133,862                              | -                                | 133,862                              |
| <b>TOTAL AIRPORT</b>              |                                     | <b>187,642</b>           | <b>384,560</b>           | <b>220,000</b>                  | <b>208,332</b>                   | <b>175,442</b>                       | <b>84.21%</b>                    | <b>(44,558)</b>                      |
| <b>83</b>                         | <b>COST RECOVERY</b>                | <b>998,414</b>           | <b>1,241,873</b>         | <b>900,000</b>                  | <b>969,000</b>                   | <b>105,843</b>                       | <b>10.92%</b>                    | <b>(794,157)</b>                     |
| <b>94</b>                         | <b>EDA</b>                          | <b>1,404,357</b>         | <b>2,094,438</b>         | <b>344,293</b>                  | <b>1,313,250</b>                 | <b>99,101</b>                        | <b>7.55%</b>                     | <b>(245,192)</b>                     |

At a special meeting of the Board of Supervisors of Warren County held in the Warren County Government Center on August 23, 2022 at 6:00 PM.

Present: Cheryl L. Cullers, Chair (South River District); Delores R. Oates, Vice Chair (North River District); Jerome K. Butler (Happy Creek District); and Walter J. Mabe (Shenandoah District); also present were Edwin C. Daley, County Administrator; Taryn G. Logan, Deputy County Administrator; James Bonzano, Chief of Fire and Rescue Services; Kayla Darr, Payroll/Human Resources Coordinator; Caitlin Jordan, Senior Assistant County Attorney; Chase Lenz, Zoning Administrator; Gerry Maiatico, Fire Marshal; Jane Meadows, Human Resources Director; Matt Wendling, Planning Director; Emily Ciarrocchi, Deputy Clerk of the Board; and Steve Sill, Royal Examiner

Absent: Victoria L. Cook (Fork District)

### **Call to Order and Pledge of Allegiance of the United States of America**

### **Adoption of the Agenda**

On a motion by Mr. Mabe, seconded by Mrs. Oates, and by the following vote, the Board of Supervisors adopted the agenda as presented:

Mabe, Aye; Cullers, Aye; Oates, Aye; Butler, Aye

### **Public Hearing – Ordinance to Add and Ordain Section 30-9 of the Warren County Code to Add a One-Time Incentive Pay for Advanced Level Providers with the Department of Fire and Rescue Services in FY 2021-2022 – Jane Meadows**

Jane Meadows, Human Resources Director, reported this ordinance is proposing a one-time incentive pay in FY 2021-2022 for Advanced Level Providers with the Department of Fire and Rescue Services.

Mrs. Cullers opened the public hearing. There being no comments from the public, Mrs. Cullers closed the public hearing.

On a motion by Mrs. Oates, seconded by Mr. Mabe, and by the following vote, the Board of Supervisors adopted the proposed ordinance to add and ordain Section 30-9 of the Warren County Code for a one-time incentive pay for Advance Level Providers with the Department of Fire and Rescue Services in FY 2021-2022:

Butler, Aye; Oates, Aye; Cullers, Aye; Mabe, Aye

ORDINANCE TO AMEND CHAPTER 30 OF THE WARREN COUNTY CODE (OFFICERS AND EMPLOYEES) AND TO ADD AND ORDAIN SECTION 30-9 (PAYMENT OF ONE-TIME INCENTIVE PAY IN FY 2021-2022)

BE IT ORDAINED BY THE WARREN COUNTY BOARD OF SUPERVISORS that Warren County Code Section 30-9 be added and ordained as follows:

**§ 30-9 Payment of one-time incentive pay in for Advance Level Providers with the Department of Fire and Rescue Services in FY 2021-2022.**

**This incentive pay is to compensate Advance Level Providers who based upon the FY 2021-2022 pay structure are not compensated for advanced certifications. The incentive is utilized to recognize and reward providers for achieving or maintaining accreditation to perform life-saving procedures in the field. Without incentive pay, there is no compensation for Fire & Rescue staff to put in the hours of study required maintain certification that is necessary for regular operations in Warren County:**

**A. Incentive Pay – Authorized to all eligible advance level providers and advanced life support officers within the department:**

- (1) Active Employment. Employees must be in an active pay status at the time the payment is made.**
- (2) Employees must not be currently classified as a Firefighter/Paramedic**
- (3) Amount of Payment for Advanced Level Providers - \$3,000**
- (4) Amount of Payment for Intermediate Level Officers - \$4,500**
- (5) Amount of Payment for Paramedic Level Officers - \$6,000**

**B. This one-time payment shall be for FY 2021-2022 only.**

THIS ORDINANCE SHALL BE EFFECTIVE UPON ADOPTION

Language proposed to be deleted is lined through. ~~Example~~

Language proposed to be added is bolded and underlined. **Example**

**Public Hearing – Conditional Use Permit 2022-06-01, Joseph Muniz for a Short-Term Tourist Rental Located at 499 Rome Beauty Drive and Identified on Tax Map 22B, Block K, Lot 18 – Matt Wendling**

Matt Wendling, Planning Director, reported the applicant purchased this property as a second home in 2021 and started renting the property short-term shortly after purchasing the property. After the Planning Department sent him a Notice of Violation for operating a short-term rental without a permit, he ceased the rentals and began the permitting process. He uses

this second residence with his family, and being able to rent it out on a short-term basis will allow him to offset the costs of the second home. The applicant is requesting a waiver to the setback requirement of 100' from dwelling to dwelling; the dwelling to the west is 95' and the one to the east is 80'. The applicant has contracted with waste management, local handyman, pest control, and lawncare to maintain the property, and he plans to be the property manager at this time.

The Planning Commission has forwarded this application to the Board of Supervisors recommending approval.

Joseph Muniz, applicant, reiterated that he is wanting to rent this home on a short-term basis to offset the costs of owning a second home. Since purchasing the home in 2021, they have spent \$20,000 for a new well system and \$15,000 for a replacement HVAC system. He agrees with the added condition of no outdoor fires or discharging of fireworks on the property; they even removed the pool that was at the home when they moved in to mitigate unnecessary risks.

Mrs. Cullers opened the public hearing.

Wayne Baxter, 461 Rome Beauty Drive, said he is the resident to the east of the subject property and the closest residence to the home. As of 5:00 PM prior to this hearing, the fire pit on the property has yet to be removed, despite the Planning Commission ordering the owner to do so at its public hearing in July. If the owner is unwilling to comply with the Planning Commission's stipulation, he is worried the applicant will not adhere to the adopted conditions either.

Mr. Muniz returned to the podium and ensured the Board that the fire pit will be removed if the permit is approved. Mr. Wendling said he will be sure this concern is addressed prior to the issuance of the certificate of zoning.

There being no further comments from the public, Mrs. Cullers closed the public hearing.

On a motion by Mr. Mabe, seconded by Mrs. Oates, and by the following vote, the Board of Supervisors approved the conditional use permit request of Joseph Muniz for a Short-Term Tourist Rental with the conditions as recommended by the Planning Commission and staff and listed below:

Mabe, Aye; Cullers, Aye; Oates, Aye; Butler, Aye

1. The applicant shall comply with all Warren County Health Department and Warren County Building Inspections and Virginia Statewide Fire Prevention Code regulations and requirements.
2. The maximum number of occupants shall not exceed six (6) as determined according to the Health Department operational permit for a three-bedroom dwelling.

3. The applicant shall have the well water tested annually for e-coli and coliform bacteria and a copy of the results shall be submitted to the Planning and Health Departments.
4. The applicant shall have the septic system inspected annually by a State licensed inspector and a copy of the results shall be submitted to the Planning and Health Departments. The system shall also be serviced every five years as recommended by the Health Department and a copy of the service invoice shall be provided to the Planning Department.
5. The discharge of firearms and hunting on the property by guests shall be prohibited.
6. The use of All-Terrain Vehicles (ATVs) by guests on the property and within the subdivision shall be prohibited.
7. A waiver to the required setback of 100' to the adjacent property dwelling shall be granted for the existing 80' and 95' setbacks to the dwellings east of the subject property.
8. Outdoor burning and the use of fireworks by guests shall be prohibited.

**Public Hearing – Conditional Use Permit 2022-06-02, Yulia Svetlichnaya for a Short-Term Tourist Rental Located at 610 Joans Quadrangle Road and Identified on Tax Map 15E, Section 6, Block 6, Lot 767 – Chase Lenz**

Chase Lenz, Zoning Administrator, reported the applicant is requesting a conditional use permit for a short-term tourist rental for the property she purchased in December of 2021. The applicant would like to make the property available for short-term visitations for guests seeking to enjoy the mountain views and connect with the natural beauty of the Shenandoah National Park and Warren County area. She plans to manage the property personally with assistance from local professional services for cleaning, maintenance, and garbage removal. During the public hearing at the Planning Commission, a condition was added restricting outdoor burning and use of fireworks by guests. Other concerns raised at the Planning Commission public hearing included trespassing and road conditions. As this property is located within the Shenandoah Farms Sanitary District, anyone concerned about the conditions of the road can reach out to the County's Sanitary District Manager. Additionally, Property Owners of Shenandoah Farms, Inc. (POSF) submitted an email stating they had no objections to this application.

The Planning Commission has forwarded this application to the Board of Supervisors recommending approval.

Yulia Svetlichnaya, applicant, said she purchased this property as a second home and would like to continue to use it as such but rent it short-term when she is not there for supplemental income. There is a large fire pit on the property that she intends to remove, and she has contracted with a local cleaning company and handyman.

Mrs. Cullers opened the public hearing.

Sebastian Clement, 472 Joans Quadrangle Road, said he has nothing against Yulia as a neighbor but is against this proposed rental. His main concern are the “Nascar drivers” that are not from the area and drive along Joans Quadrangle Road as if they have no sense. This subdivision is not a resort area, and he does not want this commercial business to be approved.

Doris Harrington, 517 Joans Quadrangle Road, introduced herself as a member of the POSF Board. As a member, she told the Board of Supervisors that this conditional use permit application was never brought up in a POSF meeting or brought before the POSF Board. The increase in traffic she believes this short-term rental will cause is not acceptable. She noted the Planning Commission mentioned at its meeting that statistics show that short-term rentals do not increase traffic, but she invited the Board of Supervisors members to sit on her porch to count how many times vehicles from nearby short-term rentals drive past her house.

There being no further comments from the public, Mrs. Cullers closed the public hearing.

On a motion by Mr. Butler, seconded by Mr. Mabe, and by the following vote, the Board of Supervisors approved the conditional use permit request of Yulia Svetlichnaya for a Short-Term Tourist Rental with the conditions as recommended by the Planning Commission and staff and listed below:

Butler, Aye; Oates, Aye; Cullers, Aye; Mabe, Aye

1. The applicant shall comply with all Warren County Health Department and Warren County Building Inspections and Virginia Statewide Fire Prevention Code regulations and requirements.
2. The maximum number of occupants shall not exceed four (4) as determined according to the Health Department operational permit for a two-bedroom dwelling.
3. The applicant shall have the well water tested annually for e-coli and coliform bacteria and a copy of the results shall be submitted to the Planning and Health Departments.
4. The applicant shall have the septic system inspected annually by a State licensed inspector and a copy of the results shall be submitted to the Planning and Health Departments. The system shall also be serviced every five years as recommended by the Health Department and a copy of the service invoice shall be provided to the Planning Department.
5. The discharge of firearms and hunting on the property by guests shall be prohibited.
6. The use of All-Terrain Vehicles (ATVs) by guests on the property and within the subdivision shall be prohibited.
7. Outdoor burning and the use of fireworks by guests shall be prohibited.

**Public Hearing – Conditional Use Permit 2022-06-03, Thomas Cho for a Short-Term Tourist Rental Located at 4359 Remount Road and Identified on Tax Map 39F, Section 1, Lot 7A – Chase Lenz**

Mr. Lenz reported the applicant is requesting a conditional use permit for a short-term tourist rental for the property he purchased in March of 2022. The applicant would like to make the property available for short-term visitations for guests of the Shenandoah National Park and Warren County area when he is not hosting his out-of-state family. He plans to manage the property personally. This property is located in the Bear Hollow Ridge subdivision, which is not managed by a Homeowners or Property Owners Association. The Planning Department did receive one letter of opposition raising concerns about the driveway entrance to this property being located off a busy highway and included article about a recent accident nearby.

The Planning Commission has forwarded this application to the Board of Supervisors recommending approval.

Thomas Cho, applicant, said the driveway leading to this property has a shared entrance with the adjacent property. He plans on paving the driveway leading to his rental but not the shared entrance nor his neighbor's driveway. He also plans to install directional signage for the rental and to redo the parking area to provide ample space for guests' vehicles.

Mrs. Cullers opened the public hearing. There being no comments from the public, Mrs. Cullers closed the public hearing.

On a motion by Mr. Mabe, seconded by Mr. Butler, and by the following vote, the Board of Supervisors approved the conditional use permit request of Thomas Cho for a Short-Term Tourist Rental with the conditions as recommended by the Planning Commission and staff and listed below:

Mabe, Aye; Cullers, Aye; Oates, Aye; Butler, Aye

1. The applicant shall comply with all Warren County Health Department and Warren County Building Inspections and Virginia Statewide Fire Prevention Code regulations and requirements.
2. The maximum number of occupants shall not exceed six (6) as determined according to the Health Department operational permit for a four-bedroom dwelling.
3. The applicant shall have the well water tested annually for e-coli and coliform bacteria and a copy of the results shall be submitted to the Planning and Health Departments.
4. The applicant shall have the septic system inspected annually by a State licensed inspector and a copy of the results shall be submitted to the Planning and Health Departments. The system shall also be serviced every five years as recommended by the Health Department and a copy of the service invoice shall be provided to the Planning Department.
5. The discharge of firearms and hunting on the property by guests shall be prohibited.

6. The use of All-Terrain Vehicles (ATVs) by guests on the property and within the subdivision shall be prohibited.
7. Outdoor burning and the use of fireworks by guests shall be prohibited.

**Public Hearing – Conditional Use Permit 2022-06-04, Andrew Sickle for a Short-Term Tourist Rental Located at 298 Worlds End Lane and Identified on Tax Map 23A, Section 1, Block 2, Lot 51A – Chase Lenz**

Mr. Lenz reported the applicant is requesting a conditional use permit for a short-term tourist rental for the property his partner purchased in April of 2022. The applicant and his management partners would like to make the property available for short-term visitations for guests seeking a quiet escape while exploring the Shenandoah National Park, local wineries, and all the Warren County area has to offer. The applicant and his management partners plan to manage the property with assistance from local professional services for cleaning, maintenance, and garbage removal. This property is located in the Skyland Estates subdivision, and the Skyland Community Corporation submitted a letter of opposition regarding this application. Concerns raised at the Planning Commission public hearing included unfamiliar drivers on the narrow roads leading to the property that have blind turns and hidden driveways.

The Planning Commission has forwarded this application to the Board of Supervisors recommending approval.

Charles Steininger introduced himself as the owner of the property who, along with his managing partners Andrew Sickle and Jin Zhang, plans to be the manager of this short-term rental. The partners have purchased two “Children At Play” signs for the property, one of which is already installed on the property, and have updated the property management plan to include a message to the guests about driving cautiously on the roads. They have established a local point of contact for the rental and have contracted with local cleaning professionals, a landscaper, and a handyman. They plan to review each rental request individually and only approve low-risk renters.

Mrs. Cullers opened the public hearing. There being no comments from the public, Mrs. Cullers closed the public hearing.

Mrs. Oates noted that although Skyland Community Corporation does not support short-term rentals in the subdivision, the Board of Supervisors has approved two already this year.

On a motion by Mrs. Oates, seconded by Mr. Mabe, and by the following vote, the Board of Supervisors approved the conditional use permit request of Andrew Sickle for a Short-Term Tourist Rental with the conditions as recommended by the Planning Commission and staff and listed below:

Butler, Aye; Oates, Aye; Cullers, Aye; Mabe, Aye

1. The applicant shall comply with all Warren County Health Department and Warren County Building Inspections and Virginia Statewide Fire Prevention Code regulations and requirements.
2. The maximum number of occupants shall not exceed six (6) as determined according to the Health Department operational permit for a three-bedroom dwelling.
3. The applicant shall have the well water tested annually for e-coli and coliform bacteria and a copy of the results shall be submitted to the Planning and Health Departments.
4. The applicant shall have the septic system inspected annually by a State licensed inspector and a copy of the results shall be submitted to the Planning and Health Departments. The system shall also be serviced every five years as recommended by the Health Department and a copy of the service invoice shall be provided to the Planning Department.
5. The discharge of firearms and hunting on the property by guests shall be prohibited.
6. The use of All-Terrain Vehicles (ATVs) by guests on the property and within the subdivision shall be prohibited.
7. Outdoor burning and the use of fireworks by guests shall be prohibited.

**Public Hearing – Conditional Use Permit 2022-06-05, Jennifer Harp for a Short-Term Tourist Rental Located at 608 Venus Branch Road and Identified on Tax Map 15E, Section 4, Block 4, Lot 123A – Matt Wendling**

Mr. Wendling reported the applicant is requesting a conditional use permit for a short-term tourist rental for the property she purchased in May 2022. The applicant would like to make the property available for short-term visitations for guests seeking to enjoy all the Warren County area has to offer when her family is not enjoying the property themselves. She plans to manage the property personally with assistance from local professional services for cleaning, maintenance, and garbage removal. Since purchasing the property, the owner has installed a new drainfield and septic system, which with the issuance of an updated operational permit has increased the occupancy limit of the short-term rental.

The Planning Commission has forwarded this application to the Board of Supervisors recommending approval.

Craig Fitzpatrick introduced himself as the husband of the applicant, Jennifer Harp. They have made considerable investments into the property and desire to continue to be good neighbors. The property management plan for the rental includes quiet hours, and the property manager is approximately eight (8) minutes from the property.

Mrs. Cullers opened the public hearing. There being no comments from the public, Mrs. Cullers closed the public hearing.

On a motion by Mr. Butler, seconded by Mr. Mabe, and by the following vote, the Board of Supervisors approved the conditional use permit request of Jennifer Harp for a Short-Term Tourist Rental with the conditions as recommended by the Planning Commission and staff and listed below:

Mabe, Aye; Cullers, Aye; Oates, Aye; Butler, Aye

1. The applicant shall comply with all Warren County Health Department and Warren County Building Inspections and Virginia Statewide Fire Prevention Code regulations and requirements.
2. The maximum number of occupants shall not exceed six (6) as determined according to the Health Department operational permit for a four-bedroom dwelling.
3. The applicant shall have the well water tested annually for e-coli and coliform bacteria and a copy of the results shall be submitted to the Planning and Health Departments.
4. The applicant shall have the septic system inspected annually by a State licensed inspector and a copy of the results shall be submitted to the Planning and Health Departments. The system shall also be serviced every five years as recommended by the Health Department and a copy of the service invoice shall be provided to the Planning Department.
5. The discharge of firearms and hunting on the property by guests shall be prohibited.
6. The use of All-Terrain Vehicles (ATVs) by guests on the property and within the subdivision shall be prohibited.
7. Outdoor burning and the use of fireworks by guests shall be prohibited.

**Public Hearing – Conditional Use Permit 2022-06-06, Lyndsey DePalma and Amanda Shipe for a Short-Term Tourist Rental Located at 1945 Panhandle Road and Identified on Tax Map 35, Lot 8 – Chase Lenz**

Mr. Lenz reported the applicants are requesting a conditional use permit for a short-term tourist rental for the property they purchased in April of 2022. The applicants would like to share the natural beauty of the Warren County area by making the property available for short-term visitations for guests when they are not enjoying the property themselves. The applicants will manage the property personally. This property is surrounded on all sides by the George Washington National Forest.

The Planning Commission has forwarded this application to the Board of Supervisors recommending approval.

Amanda Shipe, one of the applicants, said she and her sister – the other applicant – plan to manage property themselves initially. They have a local handyman and cleaning service for the rental, and their father lives about 40 minutes away.

Mrs. Cullers opened the public hearing. There being no comments from the public, Mrs. Cullers closed the public hearing.

On a motion by Mrs. Oates, seconded by Mr. Mabe, and by the following vote, the Board of Supervisors approved the conditional use permit request of Lyndsey DePalma and Amanda Shipe for a Short-Term Tourist Rental with the conditions as recommended by the Planning Commission and staff and listed below:

Butler, Aye; Oates, Aye; Cullers, Aye; Mabe, Aye

1. The applicants shall comply with all Warren County Health Department and Warren County Building Inspections and Virginia Statewide Fire Prevention Code regulations and requirements.
2. The maximum number of occupants shall not exceed six (6) as determined according to the Health Department operational permit for a three-bedroom dwelling.
3. The applicants shall have the well water tested annually for e-coli and coliform bacteria and a copy of the results shall be submitted to the Planning and Health Departments.
4. The applicants shall have the septic system inspected annually by a State licensed inspector and a copy of the results shall be submitted to the Planning and Health Departments. The system shall also be serviced every five years as recommended by the Health Department and a copy of the service invoice shall be provided to the Planning Department.
5. The discharge of firearms and hunting on the property by guests shall be prohibited.
6. The use of All-Terrain Vehicles (ATVs) by guests on the property and within the subdivision shall be prohibited.
7. Outdoor burning and the use of fireworks by guests shall be prohibited.

**Public Hearing – Conditional Use Permit 2022-06-07, John Clarke for a Short-Term Tourist Rental Located at 938 Fetchett Road and Identified on Tax Map 44, Lot 35B – Chase Lenz**

Mr. Lenz reported the applicant is requesting a conditional use permit for a short-term tourist rental for the property he purchased in August 2021. The applicant would like to share the beauty of the Shenandoah Valley and offset costs related to the property by making the property available for short-term visitations for guests when he and his family are not enjoying the property themselves. The owner will manage the property personally with assistance from a nearby experienced professional property manager.

The Planning Commission has forwarded this application to the Board of Supervisors recommending approval.

John Clarke, applicant, said he is a native of Roanoke, Virginia and a graduate of James Madison University. He purchased this property as a second home for his family to enjoy the area and has strong relationships with his neighbors. He does not want potential renters to do anything disruptive, and his neighbors can come to him directly. Although he and his family live in California, the property manager is 25 minutes away from the rental.

Mrs. Cullers opened the public hearing. There being no comments from the public, Mrs. Cullers closed the public hearing.

On a motion by Mr. Mabe, seconded by Mr. Butler, and by the following vote, the Board of Supervisors approved the conditional use permit request of John Clarke for a Short-Term Tourist Rental with the conditions as recommended by the Planning Commission and staff and listed below:

Mabe, Aye; Cullers, Aye; Oates, Aye; Butler, Aye

1. The applicant shall comply with all Warren County Health Department and Warren County Building Inspections and Virginia Statewide Fire Prevention Code regulations and requirements.
2. The maximum number of occupants shall not exceed six (6) as determined according to the Health Department operational permit for a three-bedroom dwelling.
3. The applicant shall have the well water tested annually for e-coli and coliform bacteria and a copy of the results shall be submitted to the Planning and Health Departments.
4. The applicant shall have the septic system inspected annually by a State licensed inspector and a copy of the results shall be submitted to the Planning and Health Departments. The system shall also be serviced every five years as recommended by the Health Department and a copy of the service invoice shall be provided to the Planning Department.
5. The discharge of firearms and hunting on the property by guests shall be prohibited.
6. The use of All-Terrain Vehicles (ATVs) by guests on the property and within the subdivision shall be prohibited.
7. Outdoor burning and the use of fireworks by guests shall be prohibited.

**Public Hearing – Conditional Use Permit 2022-06-08, Royal Oak Estates, LLC (Larry Himelright) for a Cluster Housing Development Located at 0 Reliance Road and Identified on Tax Map 11, Lots 8E, 12, 13 and 14 – Matt Wendling**

Mr. Wendling reported the applicant is requesting a conditional use permit for a Cluster Housing Development, which would consist of 40 lots under ten acres in size (average one acre) and 7 lots greater than ten acres in size and an open space lot of 64.616 acres. Lots within the development will be served by a newly dedicated street that meets the standards for acceptance

in the state highway system. A minimum of 60% development shall either be preserved in open space, or subject to a perpetual easement preserving it in agricultural and/ or forestal uses. Such perpetual easement shall be deeded to Warren County and shall prevent future development of the property for other than nonstructural agricultural and forestal uses. These numbers are 60% = 110.16 acres in open space and 40% = 73.44 acres in development. Mr. Wendling highlighted the following conditions:

5. Before each Certificate of Occupancy is issued for each of the 47 dwellings as part of the Cluster Housing Development by CUP and additional ten acre lots, the sum of \$2,986.00 shall be paid to the County of Warren to offset the net capital cost per household to the County caused by this development as outlined in the Fiscal Impact Model at the time the building permits are issued.
14. No structures shall be placed within the "Open Space" boundaries without approval from the Warren County Planning Department. Such structures shall be cohesive with the agricultural/rural nature of the surrounding area in their appearance and used for recreation or maintenance of the open space. The open space area is reserved for use by all residents of the development, and not dedicated as public lands.
15. No structures shall be placed within the "Agricultural & Forestal Easement" boundaries. These easements are reserved for nonstructural agricultural and forestal uses only.

The Planning Commission has forwarded this application to the Board of Supervisors recommending approval.

Larry Himelright, applicant, gave an extensive explanation of the subdivision plan. He described the layout of the property, how the lots are being separated, and that he will not be the developer for this property but rather will be selling it.

Mrs. Cullers opened the public hearing.

Daniel Taylor, 401 Reliance Lane, said his main concern about the proposed development is traffic. The number of vehicles on Reliance Road increases every year, and the increase in traffic due to the development will negatively impact the safety on the road.

Mr. Himelright returned to the podium and disputed Mr. Taylor's concerns about traffic on Reliance Road. He thinks the traffic counts are outdated since they have not been updated to account for the increase of people working at home due to the COVID-19 pandemic. While he cannot do anything about the traffic, he believes Reliance Road is one of the safest roads in the County. Due to the location of his property being almost exactly halfway between Route 522 and Middletown, the traffic from the proposed subdivision will be split, going in both directions.

There being no further comments from the public, Mrs. Cullers closed the public hearing.

Mr. Mabe noted that this was probably the first development along Reliance Road between Front Royal and Middletown to take a wooded lot and turn it into cluster residential housing, Mr. Himelright confirmed he was not aware of a similarly sized development to his. Mr. Mabe said if this request is approved, it could open the door for other developments in the future that would create infrastructure and service deficiencies that do not exist today and require the Board to invest in substantial upgrades. He is trying to take the potential of future needs into consideration while balancing property rights.

Mrs. Oates commented that per the County's Comprehensive Plan, dense housing is meant to be located/developed where infrastructure is already in place, such as within the limits of the Town of Front Royal where utilities exist. She does not think dense housing was designed for this area. She lives off Reliance Road and is aware of the issues that exist with traffic volume. Additionally, A.S. Rhodes Elementary School is already over capacity, and any additional dense housing development would bring in more school-aged children and create the need for additional school space.

Mr. Himelright responded that the things about which the Board are most concerned are out of his control.

Mr. Butler made a motion to approve the conditional use permit request of Larry Himelright for a Cluster Housing Development with the conditions as recommended by the Planning Commission and staff, which failed due to lack of a second.

Mrs. Oates made a motion to deny the conditional use permit request of Larry Himelright for a Cluster Housing Development for reasons including traffic volume concerns along Reliance Road, the lack of existing infrastructure to support a dense housing development in this area, and the impact of additional school-aged children on the already over-capacity A.S. Rhodes Elementary School, which was seconded by Mr. Mabe and passed by the following vote:

Butler, No; Oates, Aye; Cullers, Aye; Mabe, Aye

**Public Hearing – Z2022-06-01 – Cole and Danielle Haase for an Ordinance to Amend and Re-Ordain Sections 180-8 and 180-43 of the Warren County Code re: Commercial Outdoor Recreation Operation – Matt Wendling**

Mr. Wendling reported the applicants are requesting a text amendment to allow for an indoor facility accessory to a Commercial Outdoor Recreation Operation. Commercial Outdoor Recreation Operation is a use currently allowed by conditional use permit in the Agricultural, Rural Residential, and Commercial zoning districts; however, the current definition of Commercial Outdoor Recreation Operation from the Zoning Ordinance does not allow for an indoor component to the use. The proposed amendments would allow for an indoor recreation component to be included as an accessory use to an outdoor recreation operation, provided that

the indoor activity is the same use as the outdoor activity and the indoor facility does not exceed a cumulative 10,000 square feet in size.

The Planning Commission has forwarded this application to the Board of Supervisors recommending approval.

Mrs. Cullers opened the public hearing.

Scott Truax, 100 Harmony Manor Drive, voiced his support of the proposed conditional use permit and the facilities the Haases would like to include.

Alex Bigles, 125 Boo Road, said he is in support of the proposed text amendment as without the amendment there will be no facility.

There being no further comments from the public, Mrs. Cullers closed the public hearing.

Mr. Wendling reminded the Board and citizens that the public hearing for the conditional use permit application is on September 27<sup>th</sup> at 6:00 PM.

On a motion by Mrs. Oates, seconded by Mr. Butler, and by the following vote, the Board of Supervisors, finding that the proposed Zoning Ordinance amendment is appropriate for the public necessity, convenience, and general welfare and good zoning practice adopted the proposed ordinance to amend and re-ordain Sections 180-8, 180-21, and 180-43 of the Warren County Code re: Commercial Outdoor Recreation Operation:

Mabe, Aye; Cullers, Aye; Oates, Aye; Butler, Aye

ORDINANCE TO AMEND AND RE-ORDAIN SECTIONS 180-8, 180-21, AND 180-43 OF THE  
WARREN COUNTY CODE TO AMEND THE DEFINITION OF "COMMERCIAL OUTDOOR  
RECREATION OPERATION" AND TO AMEND THE SUPPLEMENTARY REQUIREMENTS RELATED TO  
THE SAME

BE IT ORDAINED BY THE WARREN COUNTY BOARD OF SUPERVISORS that Sections 180-8 (Definitions), 180-21 (Agricultural (A) District), and 180-43 (Commercial recreational structures and uses) of the Warren County Code be amended and re-ordained as follows:

Chapter 180. Zoning

Article II. Application

§ 180-8. Definitions.

- C. Definitions of words and terms. As used in this chapter, the following words and terms shall have the meanings indicated:

...

## COMMERCIAL OUTDOOR RECREATION OPERATION

A private, fee-supported, outdoor activity using or not using tangible facilities, involving or not involving athletic training, mastered skills, innate or acquired talents, requiring or not requiring athletic or recreational supervision. **An indoor recreation component may be included as an accessory use to the outdoor recreation operation, provided that the indoor activity is the same use as the outdoor activity and the indoor facility does not exceed a cumulative 10,000 square feet in size. This use shall meet the supplemental regulations in Section 180-43.**

[Added 1-17-1995, **Amended 8-23-2022**]

### Article IV. District Regulations

#### § 180-21. Agricultural (A) District.

- D. Uses allowed by conditional use permit. The following named uses may be permitted upon issuance of a conditional use permit by the Board of Supervisors:

...

- (29) Commercial outdoor ~~recreational~~ **recreation** operation.

[Added 1-17-1995, **Amended 8-23-2022**]

### Article V. Supplementary Regulations

#### § 180-43. Commercial ~~recreational structures and uses~~ **outdoor recreation operation.**

[Amended 1-17-1995, **Amended 8-23-2022**]

...

- G. The hours of operation and frequency of operation shall be proposed by the Planning Commission and set by the Board of Supervisors.

- H. As an accessory use to an outdoor recreation operation, an indoor component may be permitted, provided that the indoor activity is the same use as the outdoor activity and the indoor facility does not exceed a cumulative 10,000 square feet in size.**

THIS ORDINANCE SHALL BE EFFECTIVE UPON ADOPTION.

Language proposed to be deleted is lined through. ~~Example~~

Language proposed to be added is bolded and underlined. **Example**

### Adjournment

Mrs. Cullers adjourned the meeting at 8:32 PM.

At a regular meeting of the Board of Supervisors of Warren County held in the Warren County Government Center on September 6, 2022 at 9:00 AM.

Present: Cheryl L. Cullers, Chair (South River District); Delores R. Oates, Vice Chair (North River District); Jerome K. Butler (Happy Creek District); Victoria L. Cook (Fork District); Walter J. Mabe (Shenandoah District); also present were Edwin C. Daley, County Administrator; Taryn G. Logan, Deputy County Administrator; Jason J. Ham, County Attorney; Mike Berry, Public Works Director; James Bonzano, Chief of Fire and Rescue Services; Mark Butler, Sheriff; Michael Coffelt, Sanitary District Manager; Todd Jones, Director of Technology; Caitlin Jordan, Senior Assistant County Attorney; Dan Lenz, Parks and Recreation Director; Jane Meadows, Human Resources Director; Matt Robertson, Finance Director; Alisa Scott, Deputy Finance Director; and Shelley Hayes, Senior Office Associate

*Pastor James Boyette opened the meeting with a prayer.*

### **Call to Order and the Pledge of Allegiance of the United States of America**

### **Adoption of Agenda – Additions or Deletions**

On a motion by Mr. Mabe, seconded by Mrs. Cook, and by the following vote, the Board of Supervisors adopted the agenda as presented:

Mabe, Aye; Cook, Aye; Cullers, Aye; Oates, Aye; Butler, Aye

### **Public Comment Period (60 Minute Time Limit)**

Tony Carter, 33 Keyser Wood Lane, said he had read an article about the recent Board discussion surrounding the dam in Shenandoah Farms. As a past Board member, he recalled that the County received the loan from Virginia Municipal League (VML) because it only provided loans to municipalities. The County acted as the vehicle or mechanism for the Property Owners of Shenandoah Farms (POSF) to receive the loan. He then invited the public and Board members to the Warren Heritage Society's event on Saturday, September 24<sup>th</sup> when the Society will be offering guided tours of Bel Air house on Happy Creek Road, one of the oldest masonry houses built in Warren County.

Matthew (*last name unintelligible*), McDonalds Farm Road, said he had been going through old Sanitary District Manager reports to the POSF. He questioned why, if the ownership of and responsibilities for maintenance of the dam were transferred from POSF to the County, the annual fees of approximately \$36,000 come out of the Shenandoah Farms Sanitary District budget. At the allowance of the Chair, Dr. Daley responded that the State required the County to have technical ownership of the dam so it could be insured and receive State funding, but the dam was always considered a Shenandoah Farms facility.

There were no further comments from the public.

## **Report on the Regional Broadband Initiative – Brandon Davis**

Brandon Davis, Executive Director of the Northern Shenandoah Valley Regional Commission (NSVRC), gave an overview of the recent history of the fiber deployment initiative in Augusta, Clarke, Fauquier, Frederick, Page, Rappahannock, Rockingham, and Warren Counties. All contract documents for this project have been executed as of July 2022, and the Virginia Department of Housing and Community Development (DHCD) awarding nearly \$97 million in grant funding makes this the largest broadband project in Virginia history as well as the largest grant ever awarded to a regional commission. Approximately 3,700 miles of fiber are slated to be laid over the next three years by the internet service provider All Points Broadband (APB). With partnerships between APB, Shenandoah Valley Electric Cooperative (SVEC), Rappahannock Electric Cooperative (REC), and Dominion Energy, the total investment into this project is over \$140 million. The grant funding will be via reimbursement; once a section of work is complete, the NSVRC will petition for reimbursement from the State, at which point the State will evaluate whether or not the work has been completed in accordance with the program design and the executed agreements. If the section passes evaluation, the funds will be distributed to the NSVRC, which will in turn be passed through to APB.

Fiber construction/installation is scheduled to begin during the second quarter of 2023 (April-June) and will continue through the end of July 2025. Currently, the partners are working on low level project design and the pole attachment make-ready process.

Kyle Rosner with All Points Broadband then delivered a presentation overviewing the Warren County portion of the regional project. 215 miles of distribution fiber and 60 miles of middle mile fiber provided by REC will make broadband available to 2,110 homes in currently unserved locations. The anticipated timeline of the project is as follows:

- Commencement of low-level design – July-September 2022
- Fiber construction begins – April-June 2023
- Commencement of customer installations in completed fiber distribution areas (FDAs) – October-December 2023
- Substantial completion of network – July-September 2025

The objective is to complete the entire project within the contract period of 36 months, and potential customers will be notified approximately ninety (90) days in advance of serviceability within each FDA. APB is offering a \$30 per month discount to any household that qualifies for the Affordable Connectivity Program (ACP) through the Federal Communications Commission (FCC) and encouraged citizens to visit [fiber.allpointsbroadband.com](https://fiber.allpointsbroadband.com) to preregister for service and signup for updates on the project.

Mr. Rosner stated APB will provide monthly reporting in three categories of milestones: miles released from low level design (ready to go for construction), miles constructed, and serviceable units passed (how many homes can receive service); no State or local funds are released to APB until the work is completed to the agreed-upon standards.

## **Report from the Lord Fairfax Soil and Water Conservation District – Richard Hoover**

Richard Hoover, Director and Chairman of the Board for the Lord Fairfax Soil and Water Conservation District (LFSWCD) Board of Directors, expressed his appreciation for the enhanced financial support received from Warren County for FY 2022-2023. The LFSWCD is a key player in the effort to clean up the Chesapeake Bay before the December 2025 deadline imposed by the State. For FY 2022-2023, there was a near doubling of the requested budget compared to last year, and with the additional funding, the LFSWCD expanded its staff from five (5) to seven (7) Conservation Specialists. Mr. Hoover then introduced Supervising Conservation Specialist Dana Gochenour who provided the Board with an update on the work currently underway in Warren County, including several stream fencing projects.

## **Report from the Virginia Department of Transportation – Ed Carter**

Ed Carter, Residency Administrator with the Virginia Department of Transportation (VDOT), presented the following monthly report to the Board:

### Maintenance:

- Replaced pipes on Route 601 (Pomeroy Road)
- Completed 50% of secondary mowing and will complete 100% this month and begin primary routes
- Graded and applied stone to stabilized roads as needed and will continue this month
- Cleaned up tree and brush debris on various routes and will be addressing brush around signs this month
- Completed Rural Rustic project on Rocky Hollow Road and will be completing box culvert placement on Route 725 (Bowman Hollow Road)
- Will be performing skin patching and asphalt patching on various routes
- Will be conducting ditching operations on Route 340 and repairing shoulders on various other routes throughout the County

### Board Issues:

- In the process of adding the Board's priority roads to the Secondary Six Year Plan for the last two years.
- Trying a new type of reflector for the nose of the concrete median at Route 340/522 and Country Club Road.

On a motion by Mrs. Oates, seconded by Mr. Mabe, and by the following vote, the Board of Supervisors temporarily recessed the regular meeting in order to consider item A of the work session (Presentation of the Northwestern Community Services Board):

Butler, Aye; Oates, Aye; Cullers, Aye; Cook, Aye; Mabe, Aye

## **Northwestern Community Services Board (NWCSB) Performance Contract – Katie Heritage**

Mike Elwell, Executive Director of NWCSB, introduced himself and Greg Gutmeir, Chief Financial Officer, to the Board and delivered a presentation on the proposed FY 2023 Performance Contract, highlighting the following points:

- NWCSB was established in 1974 and serves the Counties of Clarke, Frederick, Page, Shenandoah, and Warren along with the City of Winchester with approximately 250 employees and an annual budget of \$22 million
- Services provided include, but are not limited to, case management, 24-hour emergency/crisis intervention and hospital prescreening, psychiatric medication management, and the Program for Assertive Community Treatment (PACT)
- Have seen an increase in total clients served from 5,386 in FY 2015 to 7,372 in FY 2022 (37%); the number of Warren County clients served has increased from 953 in FY 2017 to 1,505 in FY 2022 (58%)
- Funded through various sources including client billing (46.27%), State funds (40.21%), locality revenue (6.67%), Federal funds (4.05%), and grants/miscellaneous revenue (2.8%)
- Majority of expenditures is for salaries and benefits (71%) followed by physician fees (8%), facility costs (6%), client rent and utilities (6%), contractual services (4%), equipment and supplies (2%), and “Other” (3%)

Mr. Butler left the meeting at approximately 10:40 AM.

## **Reports – Board Members, County Administrator, County Attorney**

Mrs. Cook reported the following:

- The Front Royal/Warren County Airport Commission has created an Events subcommittee and scheduled an event on October 8<sup>th</sup> called Wings and Wheels
- Attended the Warren County Sheriff’s Office Community Advertisement Council, comprised of citizens and law enforcement with the goal to share information and strengthen relationship between community and law enforcement

Mr. Mabe reported the following:

- Attended meetings of the Economic Development Authority Board of Directors, the RSW Regional Jail Authority Board, the Shenandoah Farms Sanitary District Advisory Committee, and various constituents

Mrs. Oates reported the following:

- Attended a meeting of the Board of Supervisors/School Board Finance Subcommittee to discuss capital improvement projects and moving forward with a two-year budget plan to better anticipate revenues and expenses

- Attended an Advance on September 1<sup>st</sup> with the Chair and Vice Chair of the Warren County School Board and key Warren County Public Schools staff
- Is working with Dr. Ballenger to establish a Government Day in the spring where students could come and do a mock meeting to participate in local government
- Helped the Destination Marketing Organization (DMO) Discover Front Royal recruit interviewees for the Tourism Director position
- Also attended the RSW Regional Jail Authority Board meeting

Mrs. Cullers reported the following:

- Traveled to the Frederick County Sheriff's Office on August 26<sup>th</sup> to learn about vehicle procurement for law enforcement
- Attended a meeting with the Parks and Recreation Department on August 29<sup>th</sup> to discuss the reorganization of the department and the combining of the two administration offices to one location at the Community Center
- Attended a meeting with Fire and Rescue staff on August 31<sup>st</sup> to learn discuss an incentive program and how staff is working with the volunteers to update the program to ensure fair distribution of incentive to career and volunteer personnel
- Also attended the September 1<sup>st</sup> Advance with the School Board and looks forward to future collaborations
- Is working with Mike Chandler, instructor through the Virginia Association of Counties, on scheduling a Citizens Academy for residents to learn about Planning and Zoning and Local Government in general

Dr. Daley reported the following:

- Invited Todd Jones, Director of Technology, to introduce Paul Barber, the new Technology Systems Technician in the Department of Information Technology
- Next Tuesday, September 13<sup>th</sup>, will be a Board of Supervisors Strategic Advance to look forward to the goals and vision for the next twelve months

### **Consent Agenda**

1. Citizen Appointment to the Social Services Advisory Board – Jon Martz
2. Refund Request, Erroneous Tax Assessment of Jeremiah & Inga Perkins – Sherry Sours
3. Refund Request, Erroneous Tax Assessment of Thomas Breed & Joan Lynch – Sherry Sours
4. Additional Appropriation Request of Warren County Public Schools from the Virginia Preschool Initiative (VPI) Program – Dr. Chris Ballenger
5. Additional Appropriation Request of Warren County Public Schools for Replacement of Internal Network Equipment – Dr. Chris Ballenger

6. Addition of Budget Analyst Position, Job Description and Grade Placement – Jane Meadows/Matt Robertson
7. Department of Fire and Rescue Services Pay Structure Modification Request – Jane Meadows/Chief James Bonzano
8. *Removed for further discussion*
9. Approval of Purchase Order for Wayfinding Signage Installation Services through GEI – Taryn Logan/Alisa Scott
10. Class C Subdivision Bond Release for Blue Ridge Shadows, Phase 2, D.R. Horton, Inc. – Taryn Logan
11. Authorization to Advertise for Public Hearing – Lease of County-Owned Property Located at 229 Stokes Airport Road, Front Royal – Alisa Scott
12. Authorization to Advertise for Public Hearing – Lease of County-Owned Property Located at 136 Hillidge Street, Apartment 2, Front Royal – Alisa Scott
13. Authorization to Advertise for Public Hearing – Conditional Use Permit 2022-07-01, Michelle Moriarty for a Short-Term Tourist Rental – Chase Lenz
14. Authorization to Advertise for Public Hearing – Conditional Use Permit 2022-07-03, Kendra Hansen, Kathryn Stuart, Simon Sarver, and Michael Cherubin for a Short-Term Tourist Rental – Chase Lenz
15. Authorization to Advertise for Public Hearing – Conditional Use Permit 2022-07-04, CAZA Legacy, LLC for a Short-Term Tourist Rental – Matt Wendling
16. Authorization to Advertise for Public Hearing – Conditional Use Permit 2022-07-05, Matthew Williams and Jay Gilbert for a Short-Term Tourist Rental – Chase Lenz
17. Authorization to Advertise for Public Hearing – Conditional Use Permit 2022-07-06, Matthew Williams and Jay Gilbert for a Short-Term Tourist Rental – Chase Lenz
18. Authorization to Advertise for Public Hearing – Conditional Use Permit 2022-07-07, Thomas Pigeon for a Short-Term Tourist Rental – Matt Wendling
19. *Removed for further discussion*

Mrs. Cook requested the removal of item 19 for further discussion, and Mrs. Cullers requested the removal of item 8.

On a motion by Mrs. Oates, seconded by Mr. Mabe, and by the following vote, the Board of Supervisors approved the Consent Agenda as amended with the removal of items 8 and 19 for further discussion:

Oates, Aye; Cullers, Aye; Cook, Aye; Mabe, Aye

**Authorization to Advertise for Public Hearing – Z2022-05-01, Ordinance to Amend and Re-Ordain Warren County Code Sections 180-8 and 180-28 and to Add and Ordain Sections 180-28.1 and 180-43.3 re: Light Industrial (LI) Zoning District and Data Centers – Matt Wendling**

Mrs. Cook stated she pulled this item to ask whether any of the current Industrial (I) zoned properties would need to be rezoned to Light Industrial (LI). Matt Wendling, Planning Director, responded that specific to Data Centers, because it is a listed use in both zoning districts, no rezoning would be necessary. If the subject property is within any other zoning district and wants to house a Data Center, an application would need to be submitted requesting a rezoning to Light Industrial (LI). If a proposed use was more applicable to the Light Industrial (LI) zoning district, an owner/applicant could apply to rezone the subject property from Industrial (I) to Light Industrial (LI). Any rezoning would necessitate a meeting with Planning Department staff as well as public hearings at the Planning Commission and Board of Supervisors levels.

Mrs. Cook also noted the Planning Commission had not yet voted on this item recommending approval or denial of the proposed amendments. Mr. Wendling said there were only three members present at the Planning Commission's public hearing for this text amendment, and due to the Chairman recusing himself from the vote because of a potential conflict of interest, there was not a majority of the Planning Commission to have a vote.

Mrs. Cullers indicated her concerns with the proposed inclusion of allowing a Data Center by-right in both the Industrial (I) and Light Industrial (LI) zoning districts. Dr. Daley made the suggestion of postponing consideration of this item for one month to allow the Planning Commission to meet and make its recommendation on the proposed text amendments.

On a motion by Mrs. Oates, seconded by Mrs. Cook, and by the following vote, the Board of Supervisors postponed further consideration of this item for one month pending a final recommendation from the Planning Commission:

Mabe, Aye; Cook, Aye; Cullers, Aye; Oates, Aye

**Use of Raymond E. Santmyers Youth Center for the Warren County Public Schools Elements Program for the 2022-2023 School Year – Caitlin Jordan/Dan Lenz**

Mrs. Cullers stated she pulled this item because the Elements Program having classrooms in the Youth Center seems counter to the County's plans to return the building to an actual center for the youth in the community. Dr. Daley noted there was a thirty-day written notice of termination clause in the lease agreement. Caitlin Jordan, Senior Assistant County Attorney, said this lease agreement would allow the Elements Program to continue using the Youth Center until more concrete plans are in place for the redevelopment of the building.

On a motion by Mrs. Cook, seconded by Mrs. Oates, and by the following vote, the Board of Supervisors approved and authorized the County Administrator to execute the lease of the

Raymond E. Santmyers Youth Center facility for use by the Warren County School Board Elements Program for the term of August 1, 2022 to June 2, 2023:

Oates, Aye; Cullers, Aye; Cook, Aye; Mabe, Aye

### **Closed Session – Virginia Freedom of Information Act**

On a motion by Mrs. Oates, seconded by Mr. Mabe, and by the following vote, the Board I move the Board enter into a closed meeting under the provisions of Section 2.2-3711(A)(1) of the Virginia Freedom of Information Act for the discussion or consideration of the assignment, appointment, promotion, performance, demotion, salaries, or resignation of a specific public officer of the public body, specifically in regard to the Warren County Planning Commission, the Board of Building Code Appeals, and the Shenandoah Area Agency on Aging.

The Board also entered into a closed meeting under the provisions of Section 2.2-3711(A)(3) for the discussion or consideration of the acquisition of real property for a public purpose, such property being located in the Happy Creek Magisterial District outside the limits of the Town of Front Royal, where discussion in an open meeting would adversely affect the bargaining position or negotiating strategy of the public body.

Finally, the Board entered into a closed meeting under the provisions of Sections 2.2-3711(A)(7) and (A)(8) for consultation with legal counsel pertaining to probable litigation and the provision of legal advice regarding the challenge of a tax assessment by Shenandoah Realty Holdings, LLC regarding property located at 1000 North Shenandoah Avenue, Front Royal Virginia, tax map 20A5 3 A, and the Warren County Code related to the refund of erroneous assessments, the abolition of a sanitary district, and the Voluntary Settlement Agreement with the Town of Front Royal:

Mabe, Aye; Cook, Aye; Cullers, Aye; Oates, Aye

On a motion by Mrs. Oates, seconded by Mr. Mabe, and by the following vote, the Board certified to the best of each member's knowledge only public business matters lawfully exempted from open meeting requirements under Sections 2.2-3711(A)(1), (A)(3), (A)(7), and (A)(8) of the Virginia Freedom of Information Act and only such public business matters as were identified in the motion by which the closed meeting was convened were heard, discussed, or considered in the meeting by the public body:

Oates, Aye; Cullers, Aye; Cook, Aye; Mabe, Aye

### **Adjournment**

Mrs. Cullers adjourned the meeting at approximately 11:30 AM.

At a regular meeting of the Board of Supervisors of Warren County held in the Warren County Government Center on September 20, 2022 at 7:00 PM.

Present: Cheryl L. Cullers, Chair (South River District); Delores R. Oates, Vice Chair (North River District); Jerome K. Butler (Happy Creek District); Victoria L. Cook (Fork District); Walter J. Mabe (Shenandoah District); also present were Taryn G. Logan, Deputy County Administrator; Jason J. Ham, County Attorney; Mike Berry, Public Works Director; Michael Coffelt, Deputy Public Works Director; Caitlin Jordan, Senior Assistant County Attorney; Matt Robertson, Finance Director; Alisa Scott, Deputy Finance Director; and Emily Ciarrocchi, Deputy Clerk of the Board

*Pastor Steve Guizar opened the evening with a prayer.*

### **Call to Order and the Pledge of Allegiance of the United States of America**

### **Adoption of Agenda – Additions or Deletions**

On a motion by Mr. Mabe, seconded by Mr. Butler, and by the following vote, the Board of Supervisors adopted the agenda as presented:

Mabe, Aye; Cook, Aye; Cullers, Aye; Oates, Aye; Butler, Aye

### **Public Comment Period (60 Minute Time Limit)**

Lynda McDonough, 1205 High Top Road, said she was concerned about the Chairman's Letter in the summer edition of the Property Owners of Shenandoah Farms, Inc. (POSF) newsletter. She wanted the Board to be aware of what was written and how POSF is placing all the blame surrounding the recent turmoil in the Shenandoah Farms Sanitary District on the Board of Supervisors and County Administration. She understands the importance of freedom of speech, but there needs to be accountability for the spreading of these lies and misrepresentations.

There were no further comments from the public.

### **Reports – Board Members, County Administrator, County Attorney**

Mr. Butler reported he had attended Warren County Finance/Audit Committee meeting on September 14<sup>th</sup>.

Mrs. Cook thanked Law Enforcement personnel and the leadership of Warren County Public Schools for their response to the called-in threat of an active shooter at Skyline Middle School on September 19<sup>th</sup>. Fortunately, it turned out to be a hoax that was called in to other

localities in Virginia as well, but she voiced her appreciation for everyone who was involved with staging the response. She then reported the following:

- Attended a training put on by the Sheriff's Office for faith-based organizations
- Attended St. Luke Community Clinic's fundraising gala at Shenandoah Valley Golf Club
- Also attended the Finance/Audit Committee meeting on September 14<sup>th</sup> where the Committee finished the fund structure of the new financial policy

Mr. Mabe reported the following:

- Attended meetings of the Blue Mountain Property Owners Association (POA) and the Shenandoah Shores POA
- Attended a ministerial association meeting on September 13<sup>th</sup>
- Attended a Northern Shenandoah Valley Regional Commission meeting on September 15<sup>th</sup> and listened to a presentation on broadband updates in the region
- Attended a ribbon cutting for Shenandoah Shores Management Company

Mrs. Oates reported the following:

- Congratulated Vibrissa on the soft opening of its second location in Winchester
- Acknowledged the 75<sup>th</sup> anniversary of Samuels Public Library being renamed in honor of Dr. Bernard Samuels
- Attended a farm crawl hosted by the Frederick County Homesteaders
- Attended a Constitution Day celebration on September 17<sup>th</sup> hosted by the Shenandoah Christian Alliance and the James Woods Chapter of the Sons of the American Revolution

Mrs. Cullers reported the following:

- Attended the Board of Supervisors Advance on September 13<sup>th</sup> and discussed future goals
- Met with Dr. Chris Ballenger and Dr. Kristin Pence on September 14<sup>th</sup> to discuss future goals and scheduled a joint South River District community meeting with Dr. Pence for Sunday, October 16<sup>th</sup> from 1:00 PM – 3:00 PM at Skyline High School
- Attended the Fire Chiefs Advisory Group meeting on September 14<sup>th</sup>
- Recognized Todd Jones, Danny Melhorn, Sam Cheshire, and Paul Barber for IT Professionals Day and recognized Kayla Darr, Payroll/Human Resources Coordinator for Payroll Appreciation week last week

Taryn Logan, Deputy County Administrator, presented the following County Administrator's report to the Board:

- There is a slight delay for the closing of the 30 E Jackson Street property. The purchaser's bank is requiring a survey on the property, and the Finance Department will provide an

update to the Board when the amendment to the sale agreement and the completed survey are ready for Board approval.

- A ribbon cutting has been scheduled for the completed Morgan Ford Boat Landing on Thursday, October 13<sup>th</sup>, time to be determined.
- Echoed Mrs. Cook's appreciation for the Sheriff's Office, Front Royal Police Department, Fire and Rescue Services, and Warren County Public Schools administration staff and teachers for keeping the students safe
- Building Inspections Statistics for August

#### **New Home Starts**

| County | Town | Total | # in August 2021 |
|--------|------|-------|------------------|
| 12     | 2    | 14    | 24               |

#### **Permits Issued**

| 2022 | 2021 | Difference    |
|------|------|---------------|
| 218  | 273  | -55 (-25.23%) |

#### **Inspections Completed**

| 2022 | 2021  | Difference     |
|------|-------|----------------|
| 937  | 1,186 | -249 (-26.57%) |

- Parks and Recreation
  - Fall Recreation Connection Brochure is online and listed the website; physical booklets will be available in three weeks.
  - The transfer of Park Maintenance to Public Works is effective September 19, 2022. The transfer of Parks Administration Office to the Community Center is scheduled to be complete October 3, 2022.
  - A fence will be installed this week for the at the new Rockland Park basketball court by the Public Works project construction team.
- Department of Social Services – In the month of August, DSS received:
  - 175 SNAP Applications
  - 132 Medicaid Applications
  - 39 TANF Applications
  - 33 Child Care Applications
  - 19 Cooling Applications
  - 1,381 Lobby Visits
  - 1,671 Phone Calls
- On the Services side, for the month of August, DSS received:
  - 75 CPS referrals
  - 31 APS referrals
  - Used \$1,145.32 from the Ministerial Fund
  - Took in \$1,594.20 to the Ministerial Fund

- Provided food to 63 individuals
- 122 EBT cards given
- Job development:
  - New client/referrals in August – 9
  - Total clients to-date – 97
  - Total businesses contacted to-date – 74
- People Power:
  - Amanda McCormick started 8/1/2022 as a Human Services Assistant
- Upcoming Events:
  - One-Stop Resource Center will resume on September 7, 2022 at the Warren County Community Center from 1:00 PM – 4:00 PM
  - DSS Job Fair is scheduled for October 19, 2022
- Department of Fire and Rescue Services
  - Personnel recently responded to a mass-casualty incident (MCI) in mutual aid to Fauquier County as a result of a motor vehicle crash. Crews from Linden were the first to arrive and declared the MCI Event. The Department has received multiple calls from the Fauquier leadership with compliments on the actions of Warren County responders from the three stations that responded. As a direct result of this event, the County's response system was depleted of Advanced Life Support (ALS) response coverage and limited to two available companies (due to other emergencies). A request was made for volunteer staffing and call back ALS Coverage. In total, 15 career and volunteer members reported to their duty stations for temporary staffing. Special thanks to all involved and job well done!
  - The Department continues to prepare for National Fire Prevention Week which will be held from October 9-15, 2022 and will celebrate 100 years of the safety event. Look to the Department's website and social media page to learn more!
  - Staff continues to plan and prepare for the Worlds of Work (WoW!) event being held in conjunction with the regional Fire and Rescue Departments.
  - The seven students participating in the paramedic program have completed all in-classroom activities and have completed several benchmark testing processes! These students will be completing their capstone requirements and then their final testing process! A tentative celebration and recognition event is being planned for October 13<sup>th</sup>. More details and a formal invitation to come!
  - Staff has been working with the County leadership team to review potential mold safety issues at the Linden Fire Station. Staff has made temporary adjustments to living accommodations and are in the process of developing a plan to provide abatement and corrective actions.

- Staff works to review and make recommendations for all County Fire Stations following a risk management assessment which was completed by the McNeil/Chesterfield Insurers.
- Career and volunteer responders have been taking advantage of the great weather and have been participating in multiple training activities. 27 students recently attended a water rescue course over Labor Day weekend. Special thanks to the instructors and students for making the commitment over the holiday weekend.
- Staff has recently completed an analysis of all grant opportunities and have formulated a plan for application based on the Department needs assessment.
- Tourism Committee – The Destination Marketing Tourism Board has formally been established. The new Board has begun meeting. They have drafted a new Memorandum of Agreement to be between the Town, County, and Discover Front Royal that will be on the Board of Supervisors’ agenda in the near future.
- Development Review Committee – The Development Review Committee met on August 24, 2022 and discussed the following projects:
  - Discussion of County Projects
    - Planning Commission/BOS Applications -
      - Commercial Outdoor Recreation Operation – Text Amendment/CUP
      - Self-Realization Fellowship Church – CUP
      - Royal Oak Estates, LLC Cluster Housing CUP (Denied by BOS)
    - Update on ongoing projects
      - Sheetz Site Plan Review (Linden)
      - Christendom College – Madonna Hall Expansion and Christ the King Chapel Plaza site plans
  - Discussion of Town Projects
    - Hang Ten Carwash (N Royal Avenue)
    - Front Royal Environmental Sustainability Advisory Committee
    - Trails along E. Criser Road and the Happy Creek Walking Trail
  - Route 340/522 Corridor Projects
    - Front Royal Self-Storage – in Zoning review stage with architecture
    - Equus Warehouse Facility – needs Department of Environmental Quality (DEQ) sign-off and needs landscaping for stormwater sign-off
    - Interchange, Phase II – moving ahead
    - Terra Site Constructors – pre-construction meeting has been scheduled
    - Shahi Foods – BOS approved CUP for Food Processing Facility
    - Hahn Transportation (Country Club Road) – additional vehicle storage lot for Front Royal Ford

The Committee will meet again on September 28, 2022, at 10:00 AM.

- Commercial/Industrial Projects – Work continues on the following projects:
  - Interchange warehouse (340/522 and Toray Drive) continues to progress with all aspects of the construction.
  - Equus Warehouse facility – Waiting for the additional permit applications to complete occupancy requirements.
  - Storage facility on 340/522 (east side) continues site work and construction is scheduled to start September 13<sup>th</sup>.
  - New trucking facility on Winners Court is continuing with site work; the building is constructed, and work continues on the interior.
  - Storage facility on 340/522 (west side) has submitted Erosion & Sediment Control Plans as well as Stormwater Plans to DEQ.
  - Sheetz in Linden has begun to resubmit Erosion & Sediment Control Plans along with Stormwater Plans to DEQ.

### **Appropriations and Transfers**

On a motion by Mrs. Oates, seconded by Mr. Mabe, and by the following vote, the Board of Supervisors approved the appropriations and transfers as presented and shown below for September 2022:

Butler, Aye; Oates, Aye; Cullers, Aye; Cook, Aye; Mabe, Aye

| <b>Department/Fund</b>     | <b>Transfer/Appr.</b> | <b>Description</b>                                                                                                                                                                                                          | <b>Amount</b> |
|----------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Warren County School Board | Appr.                 | Due to increased enrollment in the Virginia Preschool Initiative Program, an additional \$150,000 in state funding will be received. An additional award of \$42,738 in E-rate funding has been received                    | \$192,738     |
| E911                       | Appr.                 | To appropriate VDEM Grant Funding to cover the cost of Firewall and CHE upgrade 7.8                                                                                                                                         | \$18,039      |
| Fire and Rescue            | Appr.                 | The purpose of this transfer is to appropriate donated funds from the Front Royal Rotary Club and the Apple House Restaurant & Gift shop for the specific purpose for software acquisition to support pre-incident planning | \$10,150      |
| Fire and Rescue            | Appr.                 | To appropriate Insurance Claim Funds for renovations to the Linden Station                                                                                                                                                  | \$78,174      |
| County Admin/Finance       | Transfer              | The purpose of this transfer is to move the Grant Coordinator salary and benefits from County Admin to Finance as part of the new Budget Analyst Position                                                                   | \$62,329      |
| Fire and Rescue            | Transfer              | The purpose of this transfer is to transfer the Aid to Locality from the Volunteer Fire & Rescue Budget to the Fire and Rescue Budget                                                                                       | \$88,000      |

|                     |          |                                                                                                                                    |           |
|---------------------|----------|------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Capital Improvement | Transfer | The purpose of this transfer is to move tourism funds in Special Projects to the CIP Fund to finish the Wayfinding Signage Project | \$160,000 |
|---------------------|----------|------------------------------------------------------------------------------------------------------------------------------------|-----------|

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### **Approval of Accounts**

On a motion by Mr. Mabe, seconded by Mrs. Cook, and by the following vote, the Board of Supervisors approved the list of September 2022 accounts as presented:

Mabe, Aye; Cook, Aye; Cullers, Aye; Oates, Aye; Butler, Aye

### **Consent Agenda**

1. *This item was removed from the agenda prior to the meeting.*
2. Appointments to the Warren County Board of Building Code Appeals – Taryn Logan
3. Appointment to the Warren County Planning Commission – Taryn Logan
4. Nomination for Appointment to the Shenandoah Area Agency on Aging – Taryn Logan
5. Adoption of Concurring Resolution Regarding a Financing by the Northwestern Community Services Board – Katie Heritage/Taryn Logan
6. Approval of the FY 2023 Performance Contract with Northwestern Community Services Board – Katie Heritage/Taryn Logan
7. Additional Appropriation Request of Warren County Public Schools from the FY 2020-2021 Budget Surplus – Dr. Chris Ballenger
8. Appropriation Request of Warren County Public Schools for a Portion of the Final FY 2022-2023 Budget Allocation – Dr. Chris Ballenger
9. Three (3) Additional Appropriation Requests of Warren County Public Schools from Outside Funding Sources – Dr. Chris Ballenger
10. Award for Senior Center Phase I Restrooms and Mechanical Renovations – Alisa Scott
11. Transfer Request and Award Notice for the Warren County Sheriff's Office for the Replacement of Four (4) Vehicles – Alisa Scott/Sheriff Mark Butler

On a motion by Mrs. Oates, seconded by Mrs. Cook, and by the following vote, the Board of Supervisors approved the Consent Agenda as presented:

Butler, Aye; Oates, Aye; Cullers, Aye; Cook, Aye; Mabe, Aye

RESOLUTION OF THE BOARD OF SUPERVISORS OF WARREN COUNTY REGARDING A FINANCING  
BY THE NORTHWESTERN COMMUNITY SERVICES BOARD

WHEREAS, the Northwestern Community Services Board (“the NWCSB”) was created pursuant to Chapter 5, Title 37.2 of the Code of Virginia (1950), as amended, by resolutions of the Common Council of the City of Winchester (“The City”) and the Boards of Supervisors of Frederick, Clarke, Shenandoah, Page, and Warren Counties (collectively “The Counties”); and

WHEREAS, the NWCSB has represented to the City and the Counties that it desires to borrow up to Two Million, Two Hundred Thousand Dollars (\$2,200,000) through a low-interest, 40-year loan with the United States Department of Agriculture (USDA) to fund the acquisition of a certain property located in Page County, Virginia, to be used for an outpatient behavioral health clinic and the payment of the financing costs therefore; and

WHEREAS, approval for the NWCSB to borrow funds described herein by the City and the Counties shall be provided with the concurrence of each of the Member Jurisdictions; and

WHEREAS, Virginia Code Section 37.2-504(11) requires the authorization of the City and the Counties before the NWCSB may borrow money.

NOW, THEREFORE, BE IT RESOLVED by the Board of Supervisors of Warren County, Virginia as follows:

1. The Warren County Board of Supervisors endorses the financing plans of the NWCSB; and
2. To the extent required by law, if at all, the Warren County Board of Supervisors hereby endorses and further approves any necessary and appropriate actions of the NWCSB to effect such financing; and
3. Under no circumstances shall this Resolution, or the loan, financing or payment of debt service on the funding secured by the NWCSB described herein be deemed to be a lending of the City or the Counties, or constitute a general obligation indebtedness or a pledge of the full faith and credit or taxing power of any of the Member Jurisdictions, nor shall anything herein to therein contained legally bind or obligate the City or the Counties to appropriate funds for the purposes described herein.

#### **Closed Session – Sections 2.2-3711(A)(7) and (A)(8) of the Virginia Freedom of Information Act**

On a motion by Mrs. Oates, seconded by Mr. Mabe, and by the following vote, the Board of Supervisors entered to a closed meeting under the provisions of Sections 2.2-3711(A)(7) and (A)(8) of the Virginia Freedom of Information Act for consultation with legal counsel pertaining to actual or probable litigation and the provision of legal advice regarding the Industrial Development Authority of the Town of Front Royal and the County of Warren, Virginia (the “EDA”), the Town of Front Royal, the *EDA vs. Jennifer McDonald, et al.*, the *Town of Front Royal vs. the EDA, et al.*, the *EDA vs. the Town of Front Royal*, other potential claims and litigation

relating to other possible liabilities of the EDA, the recovery of EDA funds and assets, and the outstanding indebtedness of the EDA:

Mabe, Aye; Cook, Aye; Cullers, Aye; Oates, Aye; Butler, Aye

On a motion by Mr. Mabe, seconded by Mrs. Oates, and by the following vote, the Board of Supervisors certified to the best of each member's knowledge only public business matters lawfully exempted from open meeting requirements under Sections 2.2-3711(A)(7) and (A)(8) of the Virginia Freedom of Information Act and only such public business matters as were identified in the motion by which the closed meeting was convened were heard, discussed, or considered in the meeting by the public body:

Butler, Aye; Oates, Aye; Cullers, Aye; Cook, Aye; Mabe, Aye

### **Adjournment**

Mrs. Cullers adjourned the meeting at 8:00 PM.



# COUNTY OF WARREN, VIRGINIA

## BOARD OF SUPERVISORS AGENDA ITEM

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                  |                                                                                                                                                        |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>DATE</b><br><br>October 18, 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>ITEM</b><br><br><b>H-1</b>                                                                                                    | <b>SUBJECT:</b><br><br>Authorization to Advertise for Public Hearing – Amend the Fiscal Year 2022-2023 Budget Based on Fiscal Year 2021-2022 Carryover | <b>PAGE 1 OF 1</b>   |
| <b><u>EXPLANATION &amp; SUMMARY:</u></b><br><br>On October 11, 2022, the consensus of the Board of Supervisors was to authorize the advertisement of a Public Hearing to discuss an amendment to the FY 2022-2023 Budget based on the Carryover Package presented at the work session on October 11, 2022.<br><br>Section 15.2-2507 of the Code of Virginia requires that budget amendments that exceed 1% of the total expenditures shown in the currently adopted budget must be accomplished by publishing a notice of a meeting and a public hearing once in a newspaper having general circulation in the County at least seven days prior to the meeting date on which the amendment is scheduled to be considered. The Public Hearing will be opened during the October 25 <sup>th</sup> Board of Supervisors Special Meeting to receive public input; after the Public Hearing is closed, the Board of Supervisors may entertain a motion.<br><br><b><u>COST &amp; FINANCING:</u></b><br><br>The General Fund ended Fiscal Year 2022 with an additional \$3.3 million in revenues over expenditures. The carryover package totals \$2.05 million to appropriate to the Fiscal Year 2022-2023 Budget.<br><br><b><u>PROPOSED OR SUGGESTED MOTION:</u></b><br><br>I move that the Board of Supervisors retroactively authorize the advertisement of a public hearing to consider amending the Fiscal Year 2022-2023 Budget and the additional appropriation of \$2,057,845 as proposed, pursuant to Section 15.2-2507 of the Code of Virginia. |                                                                                                                                  |                                                                                                                                                        |                      |
| <b>SUBMITTED BY:</b><br><br><b>Matt Robertson,</b><br>Finance Director                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>DISPOSITION OF BOARD:</b> <input type="checkbox"/> <b>APPROVED</b> <input type="checkbox"/> <b>OTHER</b><br><b>(DESCRIBE)</b> |                                                                                                                                                        | <b>PROCESSED BY:</b> |

| FY 22-23 Carryover Package                |                    |                    |                    |
|-------------------------------------------|--------------------|--------------------|--------------------|
| Total Revenue From FY 22-23               |                    | \$ 91,130,029      |                    |
| Total Expenditures From FY 22-23          |                    | \$ 87,758,393      |                    |
| Fund Balance Change                       |                    | \$ 3,371,636       |                    |
|                                           | Appropriated       | Spent              | To Be Carried      |
| <b>Incomplete Capital Projects</b>        |                    |                    |                    |
| Seide Park Shelter                        | \$62,942           | \$58,300           | \$4,642            |
| Samuels Public Library                    | \$50,000           | \$0                | \$50,000           |
| Old Oak IV                                | \$1,077,940        | \$27,998           | \$1,049,942        |
| Old Oak V                                 | \$998,250          | \$11,061           | \$987,189          |
| Youngs Drive                              | \$473,218          | \$0                | \$473,218          |
| Offsetting Revenue from VDOT              | \$1,274,704        | \$0                | -\$1,274,704       |
| Offsetting Revenue from SFSD              | \$637,352          | \$0                | -\$637,352         |
| School Capital Improvements               | \$1,000,000        | \$343,600          | \$656,400          |
| Registrar Renovations                     | \$50,000           | \$12,362           | \$37,638           |
| <i>Sub-Total</i>                          | <i>\$5,624,406</i> | <i>\$453,321</i>   | <i>\$1,346,973</i> |
| <b>Incomplete Asset Replacements</b>      |                    |                    |                    |
| Firetruck                                 | \$727,328          | \$500,000          | \$227,328          |
| School Bus Fund                           | \$1,000,000        | \$903,693          | \$96,307           |
| <i>Sub-Total</i>                          | <i>\$1,727,328</i> | <i>\$1,403,693</i> | <i>\$323,635</i>   |
| <b>Incomplete Operational Projects</b>    |                    |                    |                    |
| Reassessment                              | \$422,400          | \$250,345          | \$172,055          |
| Voting Machine Programming                | \$32,638           | \$0                | \$32,638           |
| Fire & Rescue Donated Funds               | \$5,000            | \$568              | \$4,432            |
| Fire & Rescue SCBA Program                | \$73,000           | \$6,544            | \$66,456           |
| Fire & Rescue Fire Programs Funds         | \$93,639           | \$27,604           | \$66,035           |
| Fire & Rescue PPE Program                 | \$152,490          | \$73,506           | \$78,984           |
| Commissioner's Office Renovations         | \$20,000           | \$6,772            | \$13,229           |
| <i>Sub-Total</i>                          | <i>\$799,167</i>   | <i>\$365,340</i>   | <i>\$433,827</i>   |
| <b>Total</b>                              | <b>\$8,150,901</b> | <b>\$2,222,354</b> | <b>\$2,104,435</b> |
| Fund Balance Usage in FY 22-23            |                    |                    | \$1,155,344        |
| Expected School Carryover                 |                    |                    | \$146,890          |
| From Purchase Orders                      |                    |                    | \$4,120            |
| <b>Remaining Fund Balance to FY 22-23</b> |                    |                    | <b>-\$39,153</b>   |

| FY 22-23 Special Projects                     |                      |
|-----------------------------------------------|----------------------|
| Fund Balance in Special Projects as of 7/1/22 | \$ 16,709,388        |
| Planned Transfers in Adopted Budget           | \$ (4,150,439)       |
| <b>Total Funding Available</b>                | <b>\$ 12,558,949</b> |
| <b>Total Project Lines with Funding</b>       | <b>196</b>           |
| Proposed Refunding                            |                      |

| Category #1 - General Reserves            | Amount      | Definition                                                                                                                                                                                         |
|-------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Asset Reserve                             | \$1,000,000 | Reserve in the Asset Replacement Fund that can be used on any eligible asset replacement purchase as appropriated by the Board of Supervisors                                                      |
| Capital Reserve                           | \$500,000   | Reserve in the Capital Improvement Fund that can be used on any eligible capital improvement projects as appropriated by the Board of Supervisors                                                  |
| Contingency Reserve                       | \$500,000   | General Reserve in the Special Projects Fund that can be used for any purchase not budgeted as appropriated by the Board of Supervisors                                                            |
| <b>Category #2 - Mandated Use</b>         |             |                                                                                                                                                                                                    |
| Airport Fund                              | \$186,296   | Amount in Special Projects Fund in Airport-related projects, will go to paying off the debt owed to the General Fund                                                                               |
| Sanitary District Funds                   | \$2,236,881 | Amount in Special Projects Fund in individual sanitary district codes, will go to the specific sanitary district it was meant to support as available fund balance                                 |
| Tourism                                   | \$129,780   | Amount in Special Projects Fund held for Tourism-designated purposes as required, must be appropriated by the Board of Supervisors                                                                 |
| <b>Category #3 - Specific Use Reserve</b> |             |                                                                                                                                                                                                    |
| Project Startup                           | \$100,000   | Reserve in Capital Improvement Fund that is meant to kick-start the beginning stages of projects before full funding is allocated/required, Board of Supervisors appropriation for use is required |
| Fire Station Development                  | \$3,000,000 | Reserve in Capital Improvement Fund that can only be used to build new fire stations                                                                                                               |

|                           |
|---------------------------|
| <b>Proposed Refunding</b> |
|---------------------------|

**Category #3 - Specific Use Reserve**

|                        |             |                                                                                                                                                                                |
|------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Staffing Initiatives   | \$300,000   | Reserve in Special Projects Fund that can be transferred to hire new staff or provide significant changes in compensation mid-year as appropriated by the Board of Supervisors |
| Building Repair        | \$2,000,000 | Reserve in Capital Improvement Fund that can only be used to provide renovations to the current County facilities                                                              |
| Community Development  | \$175,992   | Reserve in Special Projects Fund that can be transferred to initiate a project that improves the Community, as appropriated by the Board of Supervisors                        |
| Technology Replacement | \$1,500,000 | Reserve in Asset Replacement Fund that can be used to upgrade or replace major technology units, such as the AS400                                                             |
| Infrastructure Reserve | \$930,000   | Reserve in Special Projects Fund that can be transferred for use to enhance County's infrastructure, such as roads and utility development                                     |

|                                         |                     |
|-----------------------------------------|---------------------|
| <b>Total:</b>                           | <b>\$12,558,949</b> |
| <b>Total Project Lines with Funding</b> | <b>11</b>           |



# COUNTY OF WARREN, VIRGINIA

## BOARD OF SUPERVISORS AGENDA ITEM

| DATE             | ITEM       | SUBJECT                                        | PAGE 1 OF |
|------------------|------------|------------------------------------------------|-----------|
| October 18, 2022 | <b>H-2</b> | Sole Source Contract with Titan Aviation Fuels |           |

**EXPLANATION & SUMMARY:**

The County's Public Works department needs to order aviation fuel. Currently, the fuel provider, Titan Aviation Fuels provides retail unbranded fuel to the Airport. It is the County's goal to establish an account with Titan Aviation Fuels to order retail unbranded fuel. The pricing structure is not fixed. Titan Aviation Fuels will issue a pricing notification to the County which is valid for ordering fuel within the subsequent seven (7) calendar days.

The method of procurement is sole source because Titan Aviation Fuels is the only source practicably available for the County to order retail unbranded aviation fuel.

The Board is requested to review and approve the unbranded aviation fuels contract with Titan Aviation Fuels.

**COST & FINANCING:**

The cost for aviation fuel is not budgeted for FY23. However, this aviation fuel will be resold to airport customers which will provide revenue to offset the initial cost. If the contract is approved, the Board of Supervisors will receive a budget appropriation form at the October 18<sup>th</sup> meeting to provide budget for this action.

The estimated cost of a full tanker is more than \$50,000.

**PROPOSED OR SUGGESTED MOTION:**

I move the Board of Supervisors approve the sole source contract with Titan Aviation Fuels on behalf of Warren County. I further move the Board authorize the Chair and County Administrator, either of whom may act, to execute all necessary documents that have been approved by the County Attorney or the Assistant County Attorney.

OR

I move that the Board of Supervisors do not approve the contract with Titan Aviation Fuels.

| SUBMITTED BY:                          | DISPOSITION OF BOARD: <input type="checkbox"/> APPROVED <input type="checkbox"/> OTHER (DESCRIBE) | PROCESSED BY: |
|----------------------------------------|---------------------------------------------------------------------------------------------------|---------------|
| Alisa Scott<br>Deputy Finance Director |                                                                                                   |               |

**STATE OF VIRGINIA**

**COUNTY OF WARREN, VIRGINIA**

**UNBRANDED FBO AVIATION FUELS CONTRACT**

THIS AGREEMENT, entered into this \_\_\_\_ day of \_\_\_\_\_, 2022, by and between EASTERN AVIATION FUELS, INC. dba TITAN AVIATION FUELS of New Bern, North Carolina, hereinafter called "Seller" and the County of Warren, Virginia hereinafter called "Buyer" as follows:

**1. AGREEMENT:** Seller agrees to sell and deliver, and Buyer agrees to purchase, receive, and pay for from Seller, Buyer's entire requirements of aviation fuels for use or resale at the Front Royal-Warren County Airport, at or near Front Royal, Virginia.

**2. TERM:** This contract shall remain in force for a period of FIVE (5) years ("Initial Term") beginning on the 1st day of October, 2022 and will automatically extend for successive terms of one (1) year each (each, a "Renewal Term", and together with the Initial Term, the "Term") unless written notice is given to the other Party of a Party's intent to not extend at least ninety (90) days prior to the expiration of the Initial Term or Renewal Term, as applicable, or unless the Agreement is otherwise earlier terminated as permitted herein. The County may terminate this agreement upon thirty days' notice to Seller.

**3. DELIVERIES:** The aviation fuels sold and purchased hereunder shall be the regular grade or grades of aviation fuels as currently supplied by TITAN AVIATION FUELS and deliveries to Buyer hereunder shall be by tank truck or pipeline at the place of business of Buyer at said Airport in approximately even quantities in such amounts and at such times during business hours as Buyer may direct. It is understood that Seller's obligation hereunder is limited to such grade or grades of aviation fuels as are distributed by Seller, at the time and place of delivery hereunder.

**4. PRICING:** Buyer agrees to pay for the aviation fuels covered by this contract as follows:

|       |                               |
|-------|-------------------------------|
| JET A | Seller's posted dealer price* |
|-------|-------------------------------|

|                         |                               |
|-------------------------|-------------------------------|
| AVIATION GASOLINE 100LL | Seller's posted dealer price* |
|-------------------------|-------------------------------|

\*As herein used, the words "Seller's posted dealer price" mean the price posted and displayed at the time of delivery, at Seller's office at location shown in paragraph 12 hereafter, and communicated to the Buyer prior to delivery.

**5. PAYMENTS:** If Seller shall extend credit to Buyer, Buyer shall pay Seller sums due under this Agreement net ten (10) days from delivery date via Electronic Funds Transfer.

- a. Seller extends these payment terms and a line of credit based upon the last review of Buyer's current financial condition. With prior written notice to Buyer, Seller may change the payment terms or line of credit if there is a material change in Buyer's financial status as determined by Seller.

- b. Seller may assess a delinquency charge on all overdue sums owing to Seller. Such delinquency charge shall be 5% of the delinquent charge.
- c. If Buyer fails to comply with payment requirements, Seller may suspend deliveries until Buyer pays all sums due hereunder or terminate this agreement forthwith. The suspension or termination of this agreement because of failure of Buyer to perform any of the agreements herein contained shall not in any way prejudice Seller's other rights hereunder.
- d. If Buyer's account with Seller is in arrears, the Buyer hereby agrees that the Seller, at its discretion, may request credit card companies to reimburse Seller with Buyer's credit card receipts and hereby authorizes the credit card company to send credit card reimbursement to Seller.
- e. It is further agreed that the Seller, in lieu of reimbursing Buyer for credit card receipts, may apply the reimbursement to the outstanding balance on Buyer's account.

**6. ATTORNEY AND/OR COLLECTION FEES:** If the Buyer becomes in default of the terms of this agreement, Buyer agrees to a late payment charge on any delinquent balance in the amount of 1.5% per month, 18.0% per annum or the maximum amount permitted by law from the date of default. Buyer agrees to pay any attorney or collection fees if incurred in the collection of any delinquent balance or the enforcement of this contract.

**7. TAXES, FEES, AND AIRPORT CHARGES:** Any tax or other charge imposed by any governmental authority or other agency upon the commodity herein sold, or on the production, sale, transportation, or delivery thereof, or any feature thereof or of this agreement, existing at the time of delivery thereunder, shall be added to the price hereunder and paid by Buyer.

**8. FAILURE TO PERFORM:** If Seller's supplier should at any time during the life of this contract discontinue the marketing of any or all grades of aviation fuels in Buyer's territory, Seller shall be relieved of all obligation to sell or deliver such discontinued grade or grades to Buyer and Buyer shall be at liberty to purchase such discontinued grade or grades from other sources.

**9. CONDITIONS:** All orders hereunder will be filled with reasonable promptness, but it is mutually agreed that Seller shall not be obligated to furnish goods hereunder, nor be liable in damages for failure to do so, in the event acts of God, strikes, difficulties with its workers, lockouts, fires, foreign or domestic governmental authority, war conditions in this and any foreign country, accident, delays by railway or other methods of transportation, or other causes beyond its control, shall render it impossible for Seller to do. Seller shall indemnify and hold Buyer harmless from claims directly caused by the quality or performance of fuels furnished Buyer.

**10. HEALTH, SAFETY & ENVIRONMENTAL ("HS&E") COMPLIANCE:**

(a) Product Handling - Buyer shall exercise extreme caution in the storing, handling, and dispensing of Aviation Fuel, including daily inspection of all storage and dispensing equipment to prevent or eliminate contamination in any form, including commingling with other fuels, other than the first delivery, which will commingle new fuel with existing fuel.. Buyer shall, immediately notify Seller of any instance of Aviation Fuel contamination or commingling with other fuels other than the first delivery.

(b) Environmental Compliance - Buyer shall observe any and all federal, state, and municipal laws, ordinances, rules and regulations, user permits, and the like pertaining to the composition, handling, storage and dispensing of Aviation Fuel purchased hereunder including, without limitation, any and all laws, ordinances, rules and regulations pertaining to the volatility or vapor pressure of Aviation Fuel and the storage of same in aboveground or underground storage tanks. Buyer shall comply with any reasonable program instituted by Seller to assure compliance with any such laws, ordinances, rules and regulations.

**11. CHARGE / CREDIT CARD PROGRAM:** Invoices from credit and charge card sales may be purchased by Seller from Buyer for approved charge and credit cards, but only as to such merchandise and services and upon such express regulations and instructions as may be set forth in the "Titan Merchant Terms and Operating Procedures Manual" published by Seller and furnished to Buyer from time-to-time. Upon failure by Buyer to comply strictly with such regulations and instructions, Seller shall have the right to charge back to Buyer any amounts represented by non-complying sales. Such regulations and instructions, as amended or supplemented from time-to-time at Seller's sole discretion, shall be deemed part of this Agreement. If participating in such program, Buyer shall accept and honor all credit card, charge card, fuel card, contract fuel, and other payment methods designated by Seller. All transactions shall be processed via point-of-sale devices and web-enabled processing solutions that are designated and provided by Seller or 3<sup>rd</sup> party software vendors designated and approved by Seller.

**12. NOTICES:** Any notice given by one party to the other in connection with this Agreement shall be in writing and shall be sent by certified or registered mail, return receipt requested:

**SELLER:** TITAN AVIATION FUELS  
Post Office Box 12327  
New Bern, North Carolina 28561

**BUYER:** Warren County  
220 N Commerce Avenue, Suite 700  
Front Royal, Virginia 22630  
Attention: County Administrator

**13. MERGER:** There is no arrangement, agreement or understanding, by or between the contracting parties expressed or implied in any manner relating to the subject matters hereof nor herein specifically stated, and this Agreement shall not be altered or amended except in writing signed by both Buyer and Seller.

This the \_\_\_\_ day of \_\_\_\_\_, 2022.

**EASTERN AVIATION FUELS, INC dba TITAN  
AVIATION FUELS**

**By:**\_\_\_\_\_  
Robert L. Stallings, IV, President

**WITNESS:**\_\_\_\_\_

**COUNTY OF WARREN, VIRGINIA**

**By:**\_\_\_\_\_  
Dr. Edwin C. Daley, County Administrator

**WITNESS:**\_\_\_\_\_

**APPROVED AS TO FORM:**

**By:**\_\_\_\_\_  
Jason J. Ham, Esquire, County Attorney

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- 4.3 Licensee is solely responsible for the security of data residing on servers owned or operated by Licensee, or a third party designated by Licensee (such as a web hosting company). Licensee shall comply with all applicable laws, policies and regulations governing the security, privacy, collection, retention and use by Licensee of its customers' data, including, without limitation, financial information, card account numbers, and all other personally identifiable customer information.
- 4.4 Licensee shall comply with all then-current legal obligations, rules, regulations, and security measures, as applicable, including without limitation, those issued by payment networks and the Federal Trade Commission, associated with the collection, security, dissemination and destruction of data from and related to its customers and their respective Transactions (collectively, "Transaction Data").
- 4.5 Licensee shall take such precautions as are necessary to ensure that Licensee's server and electronic systems are secure from breach or intrusion by unauthorized third parties. In the event that Licensee's systems are breached and an unauthorized third party has access to or has accessed Transaction Data, Licensee shall notify U.S. Bank promptly of such breach and will implement all such precautions as may be necessary to prevent such breaches from occurring in the future.
- 4.6 Licensee shall comply with all U.S. Bank security protocols and procedures in effect during the Term of this License. Licensee is solely responsible for verifying the accuracy and completeness of all Transactions submitted and processed by U.S. Bank. U.S. Bank is not liable for any improperly processed or unauthorized Transactions or illegal or fraudulent access to Licensee's account or Transaction Data.
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- B. Licensee is engaged in a lawful business (which includes the sale of fuel, merchandise and services) and is duly licensed to conduct such business under the laws of the state(s), county(s), city(s) and country(s) in which Licensee operates;
- C. Licensee will not submit any Transactions that violate any laws of any related state, county, city, or country or any bank card and payment network rules, and will otherwise comply with all applicable laws, regulations, and rules in connection with Licensee's obligations under this License; and
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The Gateways and Software are provided on an "as-is" basis, "as available," basis without any representations or warranties. U.S. Bank does not represent or warrant that the Gateways and Software will be available, accessible, uninterrupted, timely, secure, accurate, complete, or entirely error-free. U.S. Bank specifically disclaims all representations, warranties and conditions whether express or implied, arising by statute, operation of law usage of trade, course of dealing or otherwise, including but not limited to, warranties or conditions of merchantability, fitness for a particular purpose, non-infringement, or title with respect to the Gateways and Software. Licensee understands and agrees that U.S. Bank bears no risk with respect to Licensee's sale of products or services, including, without limitation, any risk associated with card fraud or chargebacks.

## 7. INDEMNIFICATION.

### 7.1 To the extent permitted by law, Licensee shall indemnify, defend and hold harmless U.S. Bank and its affiliates, parents and subsidiaries, and any of their officers, directors, agents and employees, from and against any and all claims, actions, proceedings, and suits and all related liabilities, damages, settlements, penalties, fines, costs or expenses (including reasonable attorneys' fees and other litigation expenses) incurred by U.S. Bank, arising out of or related to:

- A. Any breach or alleged breach by Licensee of any representation, warranty or obligation of Licensee set forth in this License;
- B. Any damage or loss arising from the negligence, fraud, dishonesty, or willful misconduct of Licensee or any of Licensee's employees, agents or customers;
- C. The reliability, accuracy, or legitimacy of Transaction Data;
- D. Transactions submitted by Licensee to U.S. Bank and rejected by U.S. Bank or an issuing bank;
- E. Any alleged infringement of a patent, copyright, trademark, or other intellectual property right resulting from Licensee's actions;
- F. Claims by Licensee's customers, including, without limitation, claims relating to the disclosure of Transaction Data; or
- G. Any alleged or actual violation by Licensee of any applicable laws, regulations, any payment network rules or any regulatory body or agency having jurisdiction over the subject matter hereof.

## 8. LIMITATION OF LIABILITY

### 8.1 Under no circumstances will U.S. Bank or any of its parents, affiliates (or any officers, directors, employees or agents of those parties) be liable for any indirect, incidental, consequential, punitive, special, or exemplary damage or loss suffered or incurred by Licensee, regardless of the form of action, or any loss of revenue, profits or business, anticipated savings, loss of goodwill or reputation, costs of delay, lost or damaged data, or the incurring of liability for loss or damage of any nature whatsoever suffered by third parties, all whether in contract, strict liability or tort (including negligence), regardless of whether it has been advised of the possibility of such damages.

### 8.2 In no event will U.S. Bank's liability under this License for all claims arising hereunder exceed, in the aggregate, \$1,000.00.

### 8.3 Licensee expressly agrees that U.S. Bank will not be liable for any loss (however occurring, including, without limitation, negligence), arising from or related to:

- A. fraudulent transactions processed through Licensee's payment Gateway accounts;
- B. disruption of the Gateways or Software for any reason;
- C. actions or inactions by any third party.

## 9. MISCELLANEOUS.

### 9.1 Amendment to this License; Waiver. U.S. Bank reserves the right to amend, at its discretion, the terms

and conditions set forth herein by providing Licensee notice thereof. Such amendments will take effect when accepted by the County. All rights and duties within this License are material. No waiver of any rights hereunder will be deemed effective unless in writing executed by the U.S. Bank. No waiver by U.S. Bank of a breach or any provision of this License will constitute a waiver of any prior or subsequent breach of the same or any other provision of this License. No failure by U.S. Bank to exercise, nor any U.S. Bank delay in exercising, any right(s) hereunder will operate as a waiver of any such right. All of U.S. Bank's rights are cumulative; and no single or partial exercise of any right hereunder will preclude further exercise of such right or any other right.

- 9.2 **Relationship of the Parties.** This License does not create an association, joint venture or partnership between the parties or to impose any partnership obligation or liability upon any party.
- 9.3 **Assignment.** Licensee does not have the right or the power to assign any of Licensee's rights or delegate the performance of any of Licensee's obligations under this License without the prior written consent of U.S. Bank, including in the case of merger.
- 9.4 **Governing Law.** This License is governed by and construed in accordance with the laws of the State under which County was formed or is organized, without regard to the conflict of laws principles. The parties agree that any suit, action, or proceeding arising out of or relating to this License, or the interpretation, performance or breach of this License, must be instituted in any court of the State under which County was formed or is organized. Each party irrevocably submits to the jurisdiction of those courts and waives all objections to jurisdiction and venue.
- 9.5 **Severability.** If any provision, in whole or in part, of this License is held invalid or unenforceable for any reason, the invalidity will not affect the validity of the remaining provisions of the License. U.S. Bank may substitute for the invalid provision which most closely approximates the intent and economic effect of the invalid provision.
- 9.6 **Notices.** All notices to Licensee must be given electronically, sent to the electronic mail address provided by Licensee.
- 9.7 **Survival.** The provisions of this License relating to any fees or other amounts owed, confidentiality, intellectual property ownership, compliance, security, warranties, limitation of liability, indemnification, governing law, severability, and this paragraph will survive termination or expiration of this License. Additionally, all obligations and duties hereunder by their nature extend beyond the expiration or termination of this License survive and remain in effect beyond any expiration or termination hereof.
- 9.8 **Entire License.** This License, together with any documents referenced herein, set forth the entire understanding and agreement of the parties, and supersede any and all prior or contemporaneous oral or written agreements or understandings between the parties, as to the subject matter of this License.
- 

**U.S. BANK**

**COUNTY OF WARREN, VIRGINIA**

**BY:** \_\_\_\_\_ (SEAL)

**BY:** \_\_\_\_\_ (SEAL)

**NAME:** \_\_\_\_\_

**NAME:** Dr. Edwin C. Daley

**ITS:** \_\_\_\_\_

**ITS:** County Administrator

**DATE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

EXHIBIT A: SOFTWARE AND DEVELOPERS

SOFTWARE:

DEVELOPER:

|       |       |
|-------|-------|
| M4000 | QTPod |
|       |       |
|       |       |
|       |       |
|       |       |
|       |       |
|       |       |
|       |       |

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## CORPORATE ACCOUNT SETUP FORM

The undersigned hereby applies with Titan Aviation Fuels and its subsidiaries or affiliates for credit and for service and for delivery. The undersigned authorizes the receipt and exchange of credit information, any fabrication of information may nullify this application.

|                                    |                                                                                                                                            |                    |      |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|
| COMPANY NAME:                      |                                                                                                                                            |                    |      |
| DBA:                               |                                                                                                                                            |                    |      |
| LEGAL ENTITY:                      | <input type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Individual <input type="checkbox"/> LLC |                    |      |
| NATURE OF BUSINESS                 |                                                                                                                                            |                    |      |
| FEDERAL TAX ID                     |                                                                                                                                            | YEARS IN BUSINESS: |      |
| CURRENT OWNER                      |                                                                                                                                            |                    |      |
|                                    |                                                                                                                                            |                    |      |
| AIRPORT NAME                       |                                                                                                                                            | ICAO:              |      |
|                                    |                                                                                                                                            |                    |      |
| BILLING ADDRESS                    |                                                                                                                                            |                    |      |
| CITY                               |                                                                                                                                            | STATE:             | ZIP: |
|                                    |                                                                                                                                            |                    |      |
| FUEL DELIVERY ADDRESS (EXACT)      |                                                                                                                                            |                    |      |
| CITY                               |                                                                                                                                            | STATE:             | ZIP: |
| COUNTY                             |                                                                                                                                            |                    |      |
|                                    |                                                                                                                                            |                    |      |
| MAIN CONTACT                       |                                                                                                                                            |                    |      |
| PHONE NUMBER                       |                                                                                                                                            |                    |      |
| CELL PHONE NUMBER                  |                                                                                                                                            |                    |      |
| EMAIL ADDRESS                      |                                                                                                                                            |                    |      |
|                                    |                                                                                                                                            |                    |      |
| FUEL ORDER CONTACT                 |                                                                                                                                            |                    |      |
| PHONE NUMBER                       |                                                                                                                                            |                    |      |
| EMAIL ADDRESS                      |                                                                                                                                            |                    |      |
|                                    |                                                                                                                                            |                    |      |
| ACCOUNTING CONTACT                 |                                                                                                                                            |                    |      |
| PHONE NUMBER                       |                                                                                                                                            |                    |      |
| FAX NUMBER                         |                                                                                                                                            |                    |      |
| EMAIL ADDRESS                      |                                                                                                                                            |                    |      |
|                                    |                                                                                                                                            |                    |      |
| TAX DEPT CONTACT                   |                                                                                                                                            |                    |      |
| PHONE NUMBER                       |                                                                                                                                            |                    |      |
| EMAIL ADDRESS                      |                                                                                                                                            |                    |      |
|                                    |                                                                                                                                            |                    |      |
| INVOICES SENT TO (EMAIL ADDRESS)   |                                                                                                                                            |                    |      |
| EFT DRAFT SENT TO (EMAIL ADDRESS)  |                                                                                                                                            |                    |      |
| STATEMENTS SENT TO (EMAIL ADDRESS) |                                                                                                                                            |                    |      |

**Titan Aviation Fuels** \* Post Office Box 12327 \* New Bern, NC 28561 \* (252) 633-0066 \*  
Fax (919)-800-3134\* 1-800-334-5732 [linda@titanfuels.aero](mailto:linda@titanfuels.aero)



|                                                        |  |        |      |
|--------------------------------------------------------|--|--------|------|
| NAMES OF OFFICERS, PARTNERS,<br>OR PARTIES OF INTEREST |  | TITLE  |      |
| RESIDENCE ADDRESS                                      |  |        |      |
| CITY                                                   |  | STATE  |      |
| BANK NAME:                                             |  | BRANCH |      |
| ACCTS:                                                 |  |        |      |
| BANK ADDRESS:                                          |  |        |      |
| CITY                                                   |  | STATE: | ZIP: |
| CONTACT:                                               |  |        |      |
| PHONE                                                  |  | FAX    |      |

**Send invoices to (fax or email):**

**Send draft notices, if applicable, to (fax or email):**

**Send end of month AR Statements to (fax, email, or mail):**

**\*\*Can send to multiple emails\*\***

### PURCHASE AGREEMENT

I hereby authorize any of the above listed banking or credit references to release to Titan Aviation Fuels such credit information as it may request. I further agree that in the event credit is extended by Titan Aviation Fuels or its subsidiaries for labor performed or materials supplied, terms of sale are as follows:

All invoices shall be paid on stated terms. There will be a late charge of ONE AND ONE HALF PERCENT (1 ½ %) per month charged to all delinquent accounts. This is equal to an effective ANNUAL PERCENTAGE RATE OF EIGHTEEN PERCENT (18%). Late charges at a different annual rate may be imposed when authorized or limited by applicable law. This agreement is governed by substantive Virginia law. I consent to the personal jurisdiction of the courts of the State of Virginia so that Titan Aviation Fuels may bring suit in Virginia to enforce this agreement. I agree not to claim that Virginia is an inconvenient place for trial. The venue of any suit to enforce this agreement will be in Warren County, Virginia.

In the event credit is extended pursuant to this agreement and a dispute arises concerning any transaction with Titan Aviation Fuels, or its subsidiaries, or if collection action is required, I agree to pay Titan Aviation Fuels' reasonable attorney's fees, whether or not suit is actually filed, including attorney's fees in the event of an appeal.

Dated: \_\_\_\_\_ Signature: \_\_\_\_\_

### PAYMENT GUARANTEE

I authorize Titan Aviation Fuels to inquire on my credit file/credit bureau for the purpose of credit granting.

For value received, I (we), the undersigned, hereinafter "Guarantor(s)" guarantee payment of the indebtedness of applicant, hereinafter "Customer" to Titan Aviation Fuels and its subsidiaries subject to the following limitations and conditions as defined below:

1. Guarantor specifically states and declares that he/she/they have a personal interest in the business of the above-named Customer and execute guarantee in consideration of the extension of credit to Customer.
2. The indebtedness shall include that indebtedness incurred by customer on or after the date of this credit application for any and all services or materials of any kind whatsoever supplied by Titan Aviation Fuels or its subsidiaries to Customer.

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**Titan Aviation Fuels** \* Post Office Box 12327 \* New Bern, NC 28561 \* (252) 633-0066 \*  
Fax (919)-800-3134\* 1-800-334-5732 [linda@titanfuels.aero](mailto:linda@titanfuels.aero)



3. This a continuing guaranty and until revoked shall cover future indebtedness of Customer as contemplated hereunder including indebtedness arising under successive transactions that either continue the indebtedness or, from time to time, renew after it has been satisfied.
4. This guarantee may be revoked by written notice to Titan Aviation Fuels. Revocation shall be effective on Titan Aviation Fuels receipt of the notice or on such later date as may be indicated therein. This guarantee shall not apply to any indebtedness created or incurred by Customer after the effective date of such notice.
5. Titan Aviation Fuels may proceed against guarantors, or any of them for any account guaranteed hereunder whether or not action is brought against Customer and without regard to whether Customer is joined in any such action or actions.
6. In the event collection action is required pursuant to the terms of this guarantee, guarantor agrees to pay Titan Aviation Fuels reasonable attorney's fees, whether or not suit is actually filed, including attorneys' fees in the event of an appeal.
7. I agree that any suit or action brought to enforce any provision of this payment guarantee may be commenced in the State of Virginia and I specifically consent to the jurisdiction of the State of Virginia to resolve any dispute regarding this agreement.

**EASTERN AVIATION FUELS, INC. DBA  
TITAN AVIATION FUELS**

**BY:** \_\_\_\_\_  
Robert L. Stallings, IV, President

**WITNESS:** \_\_\_\_\_

**COUNTY OF WARREN, VIRGINIA**

**BY:** \_\_\_\_\_  
Dr. Edwin C. Daley, County Administrator

**WITNESS:** \_\_\_\_\_

**APPROVED AS TO FORM:**

**BY:** \_\_\_\_\_  
Jason J. Ham, Esquire, County Attorney

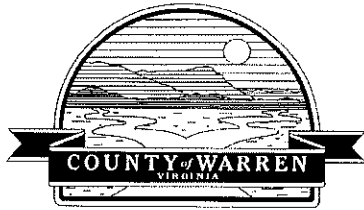


# COUNTY OF WARREN, VIRGINIA

## BOARD OF SUPERVISORS AGENDA ITEM

| DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ITEM                                                                                                     | SUBJECT                                                                                 | PAGE 1 OF            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------|
| October 18 <sup>th</sup> , 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>H-3</b>                                                                                               | Award Recommendation for Environmental Engineering Services Firm Fixed Pricing Contract |                      |
| <b><u>EXPLANATION &amp; SUMMARY:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                          |                                                                                         |                      |
| <p>The County's Finance &amp; Purchasing Department received a request from the Public Works Department to procure environmental engineering professional services. These services are required for expected and or on-going Refuse Disposal Division tasks. The procurement method used was competitive negotiation and the County received seven (7) sealed proposals. An evaluation team met with the top three ranked firms and successful negotiations proceeded with the top ranked firm first.</p> <p>Staff recommends the Board review and approve the attached contract for services with LaBella Associates that includes a scope of work and binding price considered fair and reasonable for each of the requested tasks. This recommendation is pursuant to the solicitation, the County's Procurement Policy, and in accordance with the Virginia Public Procurement Act (VPPA).</p> <p>Also attached to this memo is a consensus letter signed by members of the evaluation team and a binding rate schedule. If additional or unexpected tasks are required by the Refuse Disposal Division (or any other County Department) or there is a scope change to any of the tasks, LaBella has provided their rate schedule. This rate schedule is a fixed price which Staff can reference in reviewing change orders or a new scope of work.</p> |                                                                                                          |                                                                                         |                      |
| <b><u>COST &amp; FINANCING:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                          |                                                                                         |                      |
| <p>The cost for each of the tasks are budgeted in the remainder of the FY23 Refuse Disposal line item 4-1-42040-3008 Engineering Services. Staff will recommend the Board review and appropriate funding for the FY24 budget.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                          |                                                                                         |                      |
| <b><u>PROPOSED OR SUGGESTED MOTION:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                          |                                                                                         |                      |
| <p>I move the Board of Supervisors approve the award and contract for services with Labella Associates . I further move the Board authorize the Chair and County Administrator, either of whom may act, to execute all necessary documents that have been approved by the County Attorney or the Assistant County Attorney.</p> <p>OR</p> <p>I move that the Board of Supervisors do not approve the contract for services.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                          |                                                                                         |                      |
| <b>SUBMITTED BY:</b><br><br>Alisa Scott<br>Deputy Finance Director                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>DISPOSITION OF BOARD:</b> <input type="checkbox"/> APPROVED <input type="checkbox"/> OTHER (DESCRIBE) |                                                                                         | <b>PROCESSED BY:</b> |

# COUNTY OF WARREN



Finance Department  
Warren County Government Center  
220 North Commerce Avenue, Suite 700  
Front Royal, Virginia 22630

Phone: (540) 636-1604

Fax: (540) 636-8163

*Alisa M. Scott*  
Deputy Finance Director

September 26, 2022

## BOARD OF SUPERVISORS

\*\*\*\*\*

### CHAIR

Cheryl L. Cullers  
South River  
District

### VICE CHAIR

Delores R. Oates  
North River  
District

Jerome K. Butler  
Happy Creek  
District

Vicky L. Cook  
Fork  
District

Walter J. Mabe  
Shenandoah  
District

\*\*\*\*\*

Dr. Edwin C. Daley  
County Administrator

LaBella Associates PC  
1604 Ownby Lane  
Richmond, VA 23220

ATTN: John Westerfield, PG and Jennifer Johnson

The evaluation committee for the Request for Proposals for Professional Environmental Engineering Services has reached a consensus after our Individual Discussions. After elaborating on qualifications, performance data, and staff experience, the County has confidence that Labella Associates can best meet the County's Statement of Needs as provided in the Request for Proposals.

The County would now like to begin discussions on a binding price proposal with your firm.

Taryn Logan,  
Deputy County Administrator

Mike Berry,  
Public Works Director

Donna Shackelford, Maintenance,  
Building & Grounds Manager

If you have any questions regarding this letter and request, please feel free to contact me at your convenience.

Sincerely,

Alisa Scott, Deputy Finance Director

## CONTRACT FOR SERVICES

THIS CONTRACT FOR SERVICES (hereinafter the "Contract") is made and entered into this \_\_\_\_ day of \_\_\_\_\_, 2022, by and between THE COUNTY OF WARREN, VIRGINIA, a political subdivision of the Commonwealth of Virginia, whose address is 220 N. Commerce Avenue, Suite 100, Front Royal, Virginia 22630 (hereinafter referred to as the "County"), and LABELLA ASSOCIATES, D.P.C., P.C., whose street address is 1604 Ownby Lane Richmond, VA 23220 (hereinafter called the "Service Provider").

### WITNESSETH:

That for and in consideration of the mutual promises contained herein, the County agrees to purchase, and the Service Provider agrees provide the services as listed in Exhibit A and any tasks not anticipated at a rate listed in Exhibit B (hereinafter the "Services"):

1. **Place of Service Performance:** Warren County and properties located in Warren County, Virginia.

2. **Time of Service Delivery:** The Services will be provided on as-needed basis and the Services for each individual project will continue until the task is completed as determined by the County.

3. **Term of Contract:** This Contract shall be in effect beginning with the date of the final signature on the contract and continuing (if not otherwise terminated pursuant to the terms of this agreement) through twelve (12) months in the first term and twelve (12) months in subsequent terms, with the option of four (4) one-year renewals on the anniversary date, if agreed to by both parties, for a maximum total contract period of five (5) years, in accordance with the Request for Proposal statement of needs and terms and conditions.

The total for all tasks performed shall not exceed

4. **Payment:** The County shall pay to the Service Provider a sum not to exceed Two Hundred Fifty Nine Thousand Dollars (\$259,000) for the initial Contract Term.

5. **Reimbursable Expenses:** In addition to the Payment, Owner shall pay the Service Provider the actual costs of all Reimbursable Expenses incurred in connection with the Services. Reimbursable Expenses mean the actual expenses incurred directly in connection with performing the Services for the following: transportation and subsistence incidental thereto; obtaining bids or proposals from Buyer; furnishing and maintaining field office facilities; subsistence and transportation (not to exceed the federal automobile reimbursement rate) of Project Representatives and their assistants; telephone calls; reproduction of reports, drawings, specifications, and similar Project-related items; and, if authorized in advance by Owner, overtime work requiring higher than regular rates.

6. **Subcontractors:** No portion of the work shall be subcontracted without prior written consent of the County. In the event that the Service Provider desires to subcontract some part of the work specified in the contract, the Service Provider shall furnish the County the names, qualifications, and experience of the proposed subcontractors. The Service Provider shall, however, remain fully liable and responsible for the work to be done by his/her subcontractor(s) and shall assure compliance with all the requirements of the contract.

If the County provides written approval for a Subcontractor, the Service Provider shall promptly pay each Subcontractor providing labor for the Work, upon receipt of payment from the County, out of the amount paid to the Service Provider on account of Subcontractor's work, the amount to which said Subcontractor is entitled, reflecting the percentage actually retained, if any, from payments to the Service Provider on account of such Subcontractor's work. The County has no obligation to pay or to see to the payment of any moneys to any Subcontractor except as may otherwise be required by law.

7. **Work Delays:**

A. The time during which the Service Provider is delayed in the performance of the Services, by the acts or omissions of the County, the County or their employees or agents, acts of God, unusually severe and abnormal climatic conditions, fires, floods, epidemics, quarantine restrictions, strikes (not to exceed the actual duration of the strike), riots, civil commotions or freight embargoes, or other conditions beyond the Service Provider's control and that the Service Provider could not reasonably have foreseen and provided against, shall be added to the Time of Service Delivery; provided, however, that no claim by the Service Provider for an extension of time for delays will be considered unless made in compliance with the requirements of this Paragraph and other provisions of the Contract Documents.

B. The Service Provider shall not be entitled to and hereby expressly waives any extension of time resulting from any condition or cause unless said request for extensions of time is made in writing to the County within seven (7) days of the first instance of delay.

**8. Labor and Materials:**

A. Unless otherwise provided in the Contract Documents, the Service Provider shall provide and pay for all labor, materials, equipment, supplies, tools, construction equipment and machinery, heat, utilities, transportation, and other facilities and services necessary or proper for or incidental to the execution and completion of the Services required by and in accordance with the Contract Documents and any applicable code or statute, whether specifically required by the Contract Documents, or whether their provision may reasonably be inferred as necessary to produce the intended results, whether temporary or permanent and whether or not incorporated or to be incorporated in the Services.

**9. Claims and Disputes:**

A. Should the Service Provider suffer injury or damage to person or property because of any act or omission of the County or of any of its employees, agents or others for whose acts either is legally liable, claim shall be made in writing to the County within seven (7) days after the first observance of such injury or damage; otherwise, the Service Provider

shall have waived any and all rights he may have against the County, or its employees, representatives and agents.

B. A claim by the Service Provider shall be made in writing and submitted to the County Administrator, who shall produce his decision in writing and mail or otherwise furnish a copy thereof to the Service Provider.

C. This decision shall be final and binding unless within thirty (30) days from the date of such decision, an appeal is made to the County Board of Supervisors pursuant to Section 15.2-1246 et seq. of the Code of Virginia (1950), as amended.

10. **Reports:** Service Provider shall complete, maintain, and submit to the County all records and reports and lists of services rendered when such services are rendered.

11. **Services Rendered:** Service Provider shall perform the Services at the location specified in Section 1 of the Contract. Service Provider agrees to maintain all facilities and equipment used by Service Provider under the Contract in clean, sanitary, and safe condition and free from defects of every kind.

12. **Licenses and Permits:** Service Provider agrees that it has procured all licenses, permits, or other like permission required by law to conduct or engage in the activity provided for in the Contract; that it will procure all additional licenses, permits, or like permission required by law during the term of the Contract; and that it will keep such licenses, permits, and permissions in full force and effect during the term of the Contract.

13. **Independent Contractor:** Service Provider understands and agrees that the relationship of service provider to the County arising out of the Contract shall be that of independent contractor. It is understood that the Service Provider, or its staff and employees, are not employees of the County and are, therefore, not entitled to any benefits provided employees of the County. Service Provider shall be responsible for reporting and accounting for all State, Federal, Social Security, and local taxes where applicable.

14. **Non-Discrimination:** During the performance of the Contract, Service Provider agrees that Service Provider will not discriminate against any employee or applicant for employment because of race, religion, color, sex, or natural origin except where religion, sex, or natural origin is a bona fide occupational qualification reasonably necessary for the normal operation of the Service Provider. Service Provider agrees to post in conspicuous places available to employees and applicants for employment notices setting forth the provisions of this non-discrimination clause. Service Provider in all solicitations or advertisements for employees placed by or on behalf of Service Provider will state that Service Provider is an equal opportunity employer. Service Provider will include the provisions of this paragraph in every sub-contract or purchase order of over \$10,000.00 so that the provisions will be binding upon each sub-contractor or vendor. **The County of Warren does not discriminate against faith-based organizations.**

15. **Compliance with immigration laws.** The Service Provider agrees and represents that it does not now, nor will it during the performance of the Contract, knowingly employ an unauthorized alien as defined in the federal Immigration Reform and Control Act of 1986.

16. **Service Provider authorized to transact business in Virginia.** During the performance of the Contract, the Service Provider agrees to be authorized to transact business in the Commonwealth of Virginia as a domestic or foreign business entity if so required by Title 13.1 or Title 50 of the Code of Virginia (1950), as amended, or as otherwise required by law.

17. **Drug-free Workplace.** During the performance of the Contract, the Service Provider agrees to (i) provide a drug-free workplace for the Service Provider's employees; (ii) post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for

violations of such prohibition; (iii) state in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

For the purposes of this section, "drug-free workplace" means a site for the performance of work done in connection with a specific contract awarded to a contractor in accordance with this chapter, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the contract.

18. **Termination for Cause:** The Contract may be terminated by the County upon fifteen (15) days written notice to the Service Provider to the address first named above in the event of substantial failure or default of the Service Provider to perform in accordance with the terms hereof through no fault of the County's.

19. **Termination for Convenience:** The obligation to provide further services under the Contract may be terminated by the County for its convenience and not for cause upon fifteen (15) days written notice. Service Provider shall be compensated for work performed through the date of termination and for termination expenses, including any expenses directly attributable to termination and for which Service Provider is not otherwise compensated. Termination expenses shall not, however, include loss profits on services not performed as a result of such termination for convenience.

20. **Notice:** Any notice which is required to be given, or which may be given under the Contract, shall be sent to those mailing addresses noted in the first paragraph of the Contract.

21. **Non-Assignability:** Service Provider understands that the Contract is a contract with the personal services of Service Provider and that it is made by the County in reliance

on Service Provider's personal skills and knowledge in the activity to be conducted and as represented by Service Provider. Accordingly, the Contract is non-assignable by Service Provider without the express written advance permission of the County.

**22. Insurance and Amount of Insurance Required:**

|                              |                                        |
|------------------------------|----------------------------------------|
| <b>General Liability:</b>    | <b>\$1,000,000</b>                     |
| <b>Automobile Insurance:</b> | <b>\$1,000,000</b>                     |
| <b>Workers Comp:</b>         | <b>Virginia statutory requirements</b> |

**All policies must name the County as an Additional Insured, and must contain provisions preventing cancellation, non-renewal or expiration unless written Notice is given to the County at least 30 days in advance.**

**23. Indemnification:** With the exception of matters concerning professional liability, Service Provider agrees to defend, indemnify and hold harmless the County for any and all actions, claims or disputes that may arise as a result of the Service Provider's work. In matters concerning professional liability, Service Provider shall indemnify and hold the County harmless with respect to Service Provider's work. In lieu of a contractual obligation to defend the County, Service Provider will pay reasonable attorney's fees.

**24. Ownership of Deliverable Products:** The County shall have all rights, title, and interest in or to all developmental or interim plans, project reports and/or presentations, data, and documentation developed or generated during the completion of the Services. The Service Provider shall be expressly prohibited by the terms of the contract resulting from this procurement from receiving additional payments or profit from the items referred to in this paragraph, other than, that which is provided for in the general terms and conditions of said contract.

**25. Standard of Care:** Service Provider shall perform the Services expeditiously and diligently and in accordance with the standard of care and skill ordinarily exercised under similar conditions by reputable members of its profession or trade practicing in the same or similar locality within the Commonwealth of Virginia existing as of the date the Services are

provided and in accordance with all applicable laws, codes, and regulations in effect as of the date the Services are provided.

26. **Entire Contract:** The Contract constitutes the entire agreement between the parties pertaining to the subject matter of the Contract and supersedes all prior or contemporaneous agreements and understandings of the parties in connection with the subject matter. No modification of the Contract shall be effective unless made in writing and signed by both parties.

27. **Enforcement:** The Contract shall be governed by the laws of the State of Virginia. Any action maintained by either party for the enforcement or interpretation of the terms of the Contract shall be filed in the courts of Warren County, Virginia.

28. **Severability:** Each paragraph and provision of the Contract will be severable from the entire agreement and if any provision is declared invalid the remaining provisions shall nevertheless remain in effect.

29. **Additional Terms and Conditions:** The following attachments are made a part of the Contract and are incorporated herein:

A. The Contract Documents - The Contract Documents include the County of Warren Request for Proposals, Exhibit A Scope for Professional Environmental Services WARREN COUNTY, Exhibit B LaBella Associates Professional Rate Schedule, and all Modifications issued after execution of the Contract. These documents form the Contract and are as fully a part of the Contract as if attached to the Contract for Services.

IN WITNESS WHEREOF, the undersigned parties hereto have made and executed the  
Contract as the day and year first above written.

(SEAL)  
COUNTY OF WARREN, VIRGINIA

BY: \_\_\_\_\_

ATTEST: \_\_\_\_\_

TYPE NAME: Edwin C. Daley

TYPE NAME: \_\_\_\_\_

TITLE: County Administrator

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

(SEAL)  
LABELLA ASSOCIATES, D.P.C., P.C.

BY: \_\_\_\_\_

ATTEST: \_\_\_\_\_

TYPE NAME: \_\_\_\_\_

TYPE NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

APPROVED AS TO FORM:

\_\_\_\_\_  
CAITLIN W. JORDAN  
SENIOR ASSISTANT COUNTY ATTORNEY

DATE: \_\_\_\_\_

## Exhibit A

### Scope for Professional Environmental Services WARREN COUNTY

#### Background

The Warren County Sanitary Landfill (facility) is located in Warren County, Virginia, on State Route 613 approximately 1.5 miles southeast of Bentonville, Virginia. The facility is an unlined, closed municipal solid waste landfill owned and maintained by Warren County. The facility is maintained under Permit Number 184, and most recently amended by the Virginia Department of Environmental Quality (DEQ) on June 28, 2016. The southern two-thirds of the landfill was closed prior to the implementation of Federal Subtitle D regulations (42 U.S.C. §§6941-6949a). The northern one-third of the landfill was closed in 1994 with a soil cap constructed in compliance with the Virginia Solid Waste Management Regulations (VSWMR). Current waste management operations at the facility are limited to a transfer station located on the eastern portion of the property.

Warren County also operates the Front Royal-Warren County Airport located on Stokes Airport Road, west of Front Royal, Virginia. The airport manages stormwater according to its Stormwater Pollution Prevention Plan (SWPPP) and the stormwater general permit.

The following services will be conducted during the period November 1, 2022, through October 31, 2023.

#### Task 01 – Groundwater Corrective Action Monitoring and Remediation System Maintenance

##### A. Scope

As a result of Groundwater Protection Standard (GPS) exceedances, corrective action was implemented at the facility that consisted of a groundwater extraction and treatment system (GETS) to remedy the GPS exceedances of volatile organic compounds (VOCs) on the northeast portion of the facility. The facility permit was amended on January 30, 2004, to include Module XIV (Corrective Action), the CAP, and the Corrective Action Monitoring Plan (CAMP). The system was installed in 2004 and became operational January 14, 2005.

Due to GPS exceedances on the west, northwest, and eastern portions of the facility in 2008 and 2009, a Nature and Extent Study (NES) and Assessment of Corrective Measures (ACM) were submitted and approved by the DEQ. Monitored Natural Attenuation (MNA) and Sorption were considered as remedies for these portions of the facility. The facility permit was amended on June 28, 2016, to include corrective action for these areas.

Due to GPS exceedances near the northwest corner of the landfill in 2018, an NES delineating the vertical and horizontal extent of these VOCs in MW-9 was submitted to DEQ on February 24, 2020. Based on DEQ comments issued March 12, 2020, a revised CAP was submitted to the DEQ on September 11, 2020, with DEQ issuing comments in its letter of December 18, 2020. A final revised CAP was submitted to the DEQ on March 18, 2021, and is currently under review. This revised CAP was updated to include expansion of the existing GETS to address groundwater impact in the MW-9 area. In June 2022, the three new extraction wells in the MW-9 area came on-line.

The objective of the proposed scope of services is to continue corrective action groundwater monitoring and operations and maintenance of the GETS in accordance with the facility permit, and

to continue corrective action monitoring for the remaining groundwater plumes in support of monitored natural attenuation and sorption. The scope of services for this task will include the following activities:

- Collecting two semiannual groundwater samples from the 3 sentinel monitoring wells (NES-1, MW-8D, and the Former Smelser Well) and 5 performance wells (EW-1, EW-2, EW-3, EW-4, and EW-5) associated with the northeast plume and in accordance with the facility permit Module XIV. Additionally, two semiannual groundwater samples will be collected from the corrective action wells associated with the MW-9 area plume: EW-6, EW-7, EW-8, MW-9D, NES-8, NES-8D, NES-9, NES-9D, Lockhart water supply well, and former Fletcher water supply well. Groundwater samples will be analyzed for VSWMR Table 3.1 Column B volatile organic compounds by EPA SW-846 Method 8260B;
- Collecting monthly water samples from the influent and effluent from the GETS in accordance with the facility permit Module XIV and the facility's Virginia Pollutant Discharge Elimination System (VPDES) general permit. Water samples will be analyzed for VSWMR Table 3.1 Column B volatile organic compounds (VOCs) by EPA SW-846 Method 8260B. The effluent will also be monitored in the field for pH, temperature, specific conductance, and turbidity. In addition, quality control samples will be analyzed for VSWMR Table 3.1 Column B VOCs by EPA SW-846 Method 8260B.
- Collecting semiannual groundwater samples from corrective action wells associated with the western, northern, northwestern, and eastern groundwater plumes. Semiannual samples will also be collected from Brown Hollow Creek as part of sentinel monitoring of the eastern groundwater plume. Samples collected from the western and northern corrective action wells will be analyzed for cobalt while samples collected from the northwestern, eastern, and GETS corrective action wells and surface water samples will be analyzed for VSWMR Table 3.1 Column A volatile organic compounds by EPA SW-846 Method 8260B.
- Preparing notification letters to the DEQ within 14 days of receipt of the analytical data packages concerning the exceedance detected in corrective action wells;
- Preparing monthly discharge monitoring reports (DMRs) for County submittal to the DEQ;
- Preparing and submitting a CASE report to the DEQ for operations and maintenance of the GETS during 2022;
- Completing upgrades to the GETS as discussed with County personnel. These upgrades include replacing control panel components, level actuators, and mixing tank components. Additionally, remote monitoring capability will be installed to allow remote system monitoring and more effective system adjustments; and,
- Performing routine inspections and maintenance of the system, which will be conducted during the monthly sampling events.

## **B. Deliverables**

Monthly DMRs will be prepared and submitted to Warren County for signature by the 5<sup>th</sup> of each month following the month in which sampling and GETS operation occurred. The 2022 CASE report will be submitted to the DEQ by January 30, 2023, with a copy to the County and public repository.

## **C. Schedule**

Corrective action monitoring will be conducted within 150 to 210 days from the preceding corrective action monitoring event, and will likely occur in December 2022 and June 2023. Monthly sampling of

the GETS influent and effluent will be conducted during the first two weeks of each month. Semiannual corrective action monitoring events (including corrective action monitoring in the GETS area and on the west, north, and east sides of the facility) will be coordinated with the monthly GETS sampling and the compliance monitoring events (see Task 02). The CASE report will be submitted to the DEQ by January 30, 2023.

#### **D. Limitations**

The associated fee is based on the following assumptions:

- We assume that no additional constituents will be detected in wells at concentrations exceeding their respective GPS values;
- No catastrophic malfunctions will occur with the GETS;
- It is understood that the scope of services for this task does not include preparation of responses to comments from regulators that may result from their review of the submitted reports;
- We propose to handle responses to regulatory comments under a separate task. Should additional regulatory meetings be required relating to the CASE report, this task can be amended to include those meetings; and,
- Client-generated activities beyond the above scope or in excess of the budget are subject to additional charges billed at hourly rates plus expenses or negotiated fees and may affect the schedule accordingly.

#### **E. Compensation**

|                  |                   |                                                   |
|------------------|-------------------|---------------------------------------------------|
| <b>Fixed Fee</b> | <b>\$ 110,000</b> | <b>(To be billed on a percent complete basis)</b> |
|------------------|-------------------|---------------------------------------------------|

## **Task 02 – Groundwater Compliance Monitoring**

### **A. Scope**

The facility's groundwater monitoring network consists of one background well (MW-7) located upgradient of the landfill, and seven point-of-compliance wells (MW-1, MW-2, MW-3, MW-5, MW-6, MW-8, and MW-9) located downgradient of the landfill. Background monitoring well MW-4 was removed from and monitoring well MW-9 was installed and added to the facility's groundwater monitoring network with the January 30, 2004, amendment of the facility's Permit. In accordance with the permit, MW-9 was installed in the northwest corner of the facility on March 25, 2004, prior to the first semiannual compliance monitoring event of 2004. Monitoring well MW-4 is maintained to gather water level data.

The objective of the proposed scope of services is to continue compliance monitoring at the facility in accordance with Module XI of the facility's permit. The scope of services for this task will include the following activities:

- Collecting semiannual groundwater samples from the eight compliance monitoring wells (MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, MW-8, and MW-9) in accordance with the VSWMR. This task will include conducting one VSWMR Table 3.1 Column B groundwater sampling event and one VSWMR Table 3.1 Column A constituents plus Table 3.1 Column B detects [alpha-BHC, delta-BHC, dieldrin, mercury; sulfide; tin; bis(2-ethylhexyl)phthalate; 1,3-dichlorobenzene; diethylphthalate; cyanide; 3&4-methylphenol; and dichlorodifluoromethane] event for the facility. In addition, quality control samples will be analyzed for VOCs corresponding to the appropriate sampling event using the appropriate analytical methods;
- Conducting well gauging for all compliance wells and currently existing corrective action performance and sentinel wells;
- Preparing notification letters for Column B constituents detected in compliance wells during the annual Column B event within 14 days of the date of the analytical data packages;
- Preparing notification letters for GPS exceedances and submitting to the DEQ within 44 days of the date of the analytical data package;
- Conducting semiannual surface water sampling at two sampling points near the property boundary. The samples will be analyzed for total organic carbon (TOC), total organic halogens (TOX), chloride, hardness, iron, lead, sodium, and total suspended solids (TSS). Surface water samples are voluntarily collected to ensure past activities at the landfill are not affecting surface water quality;
- Preparing the 2022 Annual Groundwater Report for the facility in accordance with the VSWMR, and meeting the reporting deadline as determined in 9VAC20-81-250.E.2.b. The report will include a discussion of the two groundwater monitoring events that occurred in 2022 and the analytical results; a groundwater contour map; an evaluation of the monitoring network; and a completed Annual Report QA/QC Submission Checklist;
- Collecting quarterly water samples from the adjacent Lockhart water filtration system. Each sample will be analyzed for VSWMR Table 3.1 Column A VOCs. Samples during the second and fourth quarters will be collected in conjunction with each semiannual compliance monitoring event;

- Collecting semiannual water samples from the adjacent Smelser and Fletcher water supply wells. Each sample will be analyzed for VSWMR Table 3.1 Column A VOCs. Samples will be collected during each semiannual compliance monitoring event; and,
- Preparing and submitting to adjoining landowners a Community Information Sheet (CIS) that summarizes the remedial actions at the facility. The CIS will be submitted by December 30, 2022, in accordance with Permit Module XIV.M.3.

#### **B. Deliverables**

- The 2022 Annual Groundwater Monitoring Report;
- Surface water sampling report following each semiannual sampling event (2 total);
- Letter reports to the Lockhart, Fletcher, and Smelser families, with a copy to the County, following each well sampling event;
- CIS issued by December 30, 2022; and,
- Correspondence as necessary.

#### **C. Schedule**

The second semiannual 2022 monitoring event will be conducted within 150 to 210 days of the first semiannual 2022 event, likely in December 2022. The first semiannual 2023 monitoring event will occur within 150 to 210 days of the preceding semiannual monitoring event, likely in June 2023. The 2022 Annual Groundwater Monitoring Report will be submitted to the DEQ, with a copy to the County, within 120 days of the date of the laboratory data package of the 2<sup>nd</sup> semiannual 2022 monitoring event. The voluntary surface water sampling will be conducted concurrently with the semiannual groundwater monitoring events. A separate letter report will be prepared for each surface water sampling event.

#### **D. Limitations**

The associated fee is based on the following assumptions:

- We assume that no additional constituents will be detected in wells at concentrations exceeding their respective GPS values. Any additional Table 3.1 Column B detects would incur additional laboratory costs.
- Client-generated activities beyond the above scope or in excess of the budget are subject to additional charges billed at hourly rates plus expenses or negotiated fees and may affect the schedule accordingly.

#### **E. Compensation**

|                  |                  |                                                   |
|------------------|------------------|---------------------------------------------------|
| <b>Fixed Fee</b> | <b>\$ 39,000</b> | <b>(To be billed on a percent complete basis)</b> |
|------------------|------------------|---------------------------------------------------|

## **Task 03 – Landfill Gas Monitoring and Remediation**

### **A. Scope**

The VSWMR require that each facility has a landfill gas management system to control decomposition gases that result from the biodegradation of organic wastes (9VAC20-81-200). This system is to be designed so that the concentration of methane gas generated by the facility does not exceed 25 percent of the lower explosive limit (LEL) for methane in facility structures (excluding gas control or recovery system components), and the concentration of methane gas at the facility boundary does not exceed the LEL for methane. Gas probes at the facility have detected methane exceeding the LEL. Gas vents and a gas extraction system have been installed as part of a plan to reduce methane concentrations at the facility boundary. Based on recent gas data, continued remedies will be required.

The objective of the proposed scope of service is to provide the County of Warren with professional environmental services related to landfill gas monitoring and remediation as a result of the exceedances of regulatory limits established for methane. The scope of service for this task will include the following activities:

- Conducting quarterly landfill gas monitoring of gas probes GP-9 through GP-25 and on-site structures along with selected passive gas vents. The results will be entered on gas logs and exceedances of the LEL will be reported to the DEQ;
- Maintaining the gas extraction unit (GEU) and associated vents and piping along the eastern edge of the landfill cap; and,
- Maintaining the larger gas extraction unit (GEU) owned by Warren County and associated vents and piping.

### **B. Deliverables**

- Gas logs for quarterly monitoring events; and,
- Gas exceedance notifications, if necessary.

### **C. Schedule**

Quarterly landfill gas monitoring will be conducted concurrently with the monthly GETS sampling events. Methane regulatory limit exceedance notifications will be made verbally to the DEQ within 24 hours of monitoring and via written notice within 5 days of the exceedance event. Methane action level exceedance notification will be made in writing within 5 business days.

### **D. Limitations**

The associated fee is based on the following assumptions:

- Any condensate collected by the two GEUs will require transferring periodically from the unit. It is assumed that landfill personnel will perform this task;
- The large GEU on the western boundary will continue to operate. If the proposed relocation of gas probes via expansion of the facility boundary to the west and south allows the large GEU to be turned off, monitoring costs may be reevaluated at that time; and,

- Client-generated activities beyond the above scope or in excess of the budget are subject to additional charges billed at hourly rates plus expenses or negotiated fees and may affect the task schedule accordingly.

**E. Compensation**

**Fixed Fee**                      **\$ 25,000**            **(To be billed on a percent complete basis)**

## **Task 04 – New Lockhart Water Supply Well**

### **A. Scope**

Due to groundwater impact in the MW-9 area and the current Lockhart water supply well, Warren County has offered to install a new water supply well for the Lockhart residence. The objective of this Task is to coordinate and oversee the permitting, installation, and connection of the new water supply well to the Lockhart residence. The scope of services for this Task will include, but may not be limited to, the following activities:

- Complete the permitting activities required by the Warren County Health Department first begun during FY22;
- Coordinate and oversee installation of the new well by a licensed water well driller;
- Coordinate and oversee connection of the new well to the existing water supply system at the Lockhart residence;
- Coordinate surveying the location of the new water supply well by a licensed surveyor;

### **B. Deliverables**

- Form GW-2 (Uniform Water Well Completion Report).

### **C. Schedule**

The schedule of activities is to be determined based on final approval from the Warren County Health Department, driller availability, and weather conditions.

### **D. Limitations**

The associated fee is based on the following assumptions:

- A replacement water supply well for the Lockhart residence can be installed within the existing property boundary;
- The depth of the new water well will not exceed 300 feet; and,
- Client-generated activities beyond the above scope or in excess of the budget are subject to additional charges billed at hourly rates plus expenses or negotiated fees and may affect the schedule accordingly.

### **E. Compensation**

|                  |                  |                                                    |
|------------------|------------------|----------------------------------------------------|
| <b>Fixed Fee</b> | <b>\$ 50,000</b> | <b>(To be billed on a percent complete basis.)</b> |
|------------------|------------------|----------------------------------------------------|

## **Task 05 – Airport Stormwater Administration and Reporting**

### **A. Scope**

Under this task LaBella will provide Warren County with professional environmental services relating to the management of stormwater monitoring at the Front Royal-Warren County Airport. The visual stormwater monitoring will be conducted by airport personnel. With the new VPDES Permit, effective July 1, 2019, the facility is no longer required to collect semiannual samples. One additional sample was collected from each outfall in order to complete the Total Maximum Daily Load (TMDL) calculations required by the DEQ during the FY21 contract year. Additionally, the 2019 VPDES permit requires performing quarterly facility inspections to assess conditions and activities that could impact stormwater quality and to evaluate the effectiveness of the control measures. Annual SWPPP training will include training on-site staff in conducting these quarterly facility inspections. LaBella's services include the following activities:

- Management of the stormwater monitoring program for the Front Royal-Warren County Airport under VPDES Permit No. VAR052326. Under this permit, visual monitoring of the following outfalls are required on a quarterly basis: Outfall 001 and Outfall 002;
- Conduct annual stormwater training for appropriate facility personnel in accordance with SWPPP requirements. The appropriate training form in the SWPPP will be completed;
- Conduct a Non-Stormwater Discharge Assessment and complete the associated form. A signature will be required by a representative of the County;
- Complete one quarterly routine site inspection and the associated form; and
- Revisions to the SWPPP as necessary based upon the quarterly site inspections.

### **B. Deliverables**

Deliverables for activities performed under this project will be as follows:

- One Quarterly Routine Facility Inspection Form;
- SWPPP Training Form;
- Non-Stormwater Discharge Assessment Form; and
- Revised SWPPP, if necessary.

### **C. Schedule**

The schedule for each service will be as follows:

- Quarterly facility inspections – coordinate one inspection during each quarter (July-September, October-December, January-March, and April-June). For any inspections completed by LaBella, the associated forms and any necessary SWPPP revisions will be completed and submitted to the County within 30 days of the site visit; and,
- SWPPP training and Non-Stormwater Discharge Assessment will be conducted during the 4th quarter 2022. Associated forms will be completed and submitted to the County within 10 business days of the site visit.

#### **D. Limitations**

The associated fee is based on the following assumptions:

- No analytical sampling will be required under the new VPDES permit.
- County personnel will conduct stormwater visual inspection activities and maintain reports on-site;
- County personnel will conduct three of the quarterly facility inspections; and,
- Client-generated activities beyond the above scope are subject to additional charges billed at hourly rates plus expenses or negotiated fees and may affect the task schedule accordingly.

#### **E. Compensation**

|                  |                 |                                                   |
|------------------|-----------------|---------------------------------------------------|
| <b>Fixed Fee</b> | <b>\$ 5,000</b> | <b>(To be billed on a percent complete basis)</b> |
|------------------|-----------------|---------------------------------------------------|

## **Task 06 – General Consulting**

### **A. Scope**

The objective of the proposed scope of service is to provide the County of Warren with professional consulting services regarding the facility other than environmental compliance, corrective action, and landfill gas monitoring/remediation activities. Additional unanticipated engineering-related activities are also included in this task. The scope of service for this task will include, but may not be limited to, the following activities:

- Consultation on an as-needed basis for the environmental compliance management program and engineering issues;
- Performing re-sampling events;
- Responding to letters and other correspondence from regulatory agencies, or other sources, regarding the environmental program;
- Responding to the DEQ comments on CASE reports;
- Presentations to County Board of Supervisors as requested to update and educate Board members on issues relating to the County's environmental program and County facilities; and,
- Attending meetings with County staff and/or regulatory agencies to discuss issues relating to the County's environmental management program or other engineering-related issues.

### **B. Deliverables**

- Correspondence as necessary.

### **C. Schedule**

Correspondence will be provided on an as-needed basis.

### **D. Limitations**

The associated fee is based on the following assumptions:

- The estimated fee is not intended to be inclusive of each activity, but rather provide the County with a budget to address concerns or problems as they arise; and,
- Client-generated activities beyond the above scope or in excess of the budget are subject to additional charges billed at hourly rates plus expenses or negotiated fees and may affect the schedule accordingly.

### **E. Compensation**

|                  |                  |                                                   |
|------------------|------------------|---------------------------------------------------|
| <b>Fixed Fee</b> | <b>\$ 30,000</b> | <b>(To be billed on a percent complete basis)</b> |
|------------------|------------------|---------------------------------------------------|

**Project Cost Summary**

| <i><b>Task No.</b></i> | <i><b>Description</b></i>                                                   | <i><b>Amount</b></i> |
|------------------------|-----------------------------------------------------------------------------|----------------------|
| Task 01                | Groundwater Corrective Action Monitoring and Remediation System Maintenance | \$ 110,000           |
| Task 02                | Groundwater Compliance Monitoring                                           | \$ 39,000            |
| Task 03                | Landfill Gas Monitoring and Remediation                                     | \$ 25,000            |
| Task 04                | New Lockhart Water Supply Well                                              | \$ 50,000            |
| Task 05                | Airport Stormwater Administration and Reporting                             | \$ 5,000             |
| Task 06                | General Environmental Consulting                                            | \$ 30,000            |
| <b>Total</b>           |                                                                             | <b>\$259,000</b>     |

\_\_\_\_\_(Initials)  
LaBella Associates, D.P.C., P.C.

\_\_\_\_\_(Initials)  
County of Warren

## Exhibit B

# LaBella Associates

## Professional Rate Schedule

Fees for professional services include time incurred on a specific project by professional, technical, and administrative personnel and administrative fees, reimbursable expenses, consultant fees, vehicle expenses, and field expenses. Personnel charges are portal-to-portal from our office or from overnight accommodations when out of town. Personnel charges are not made for overhead work such as general secretarial services, office management, and accounting. The following hourly rates and expenses are subject to annual adjustments based on a calendar year.

### Technical Staff

|                             | Engineering | Environmental |
|-----------------------------|-------------|---------------|
| Senior Technical Consultant | \$180       | \$163         |
| Technical Consultant        | \$150       | \$136         |
| Senior Project Consultant   | \$130       | \$116         |
| Project Consultant          | \$117       | \$ 94         |
| Staff Consultant            | \$ 93       | \$ 74         |
| Field Consultant            | \$ 64       | \$ 64         |

### Computer-Aided Design and Drafting Staff

|                      |       |
|----------------------|-------|
| Senior CADD Designer | \$ 96 |
| CADD Designer        | \$ 92 |
| CADD Operator        | \$ 73 |

### Administrative Staff

|                     |       |
|---------------------|-------|
| Technical Assistant | \$ 57 |
|---------------------|-------|

### Corporate Management

|                   |       |
|-------------------|-------|
| Principal         | \$255 |
| Division Director | \$200 |

## ***FIELD EXPENSES***

When directly related to a project, the following field expenses will be billed at our calculated costs as Units:

| <b><u>Field Equipment Rentals</u></b>            | <b><u>Units</u></b> | <b><u>Unit Cost</u></b> |
|--------------------------------------------------|---------------------|-------------------------|
| Electronic Water Level Meter                     | Per day             | \$ 15.00                |
| Electronic Skinny Dipper Water Level Meter       | Per day             | \$ 30.00                |
| Electronic Oil/Water Interface Probe             | Per day             | \$ 60.00                |
| Field Meters – Conductivity/Temperature/pH       | Per day             | \$ 25.00                |
| Field Meters – Turbidity                         | Per day             | \$ 15.00                |
| Field Meters - Colorimeter                       | Per day             | \$ 55.00                |
| Field Meters – Oakton Colorimeter (Chlorine)     | Per day             | \$ 50.00                |
| Hand Auger                                       | Per day             | \$ 10.00                |
| Bar Hole Sampler                                 | Per day             | \$ 40.00                |
| Bar Hole Sample Sleeve                           | Each                | \$ 5.00                 |
| Combustible Gas Monitor (GEM 2000)               | Per day             | \$ 150.00               |
| Combustible Gas Monitor (GEM 5000/Envision)      | Per day             | \$ 175.00               |
| Combustible Gas Monitor (RKI) w/magnehelic gauge | Per day             | \$ 100.00               |
| Bascom-Turner Gas Meter                          | Per day             | \$ 75.00                |
| Magnehelic Gauge                                 | Per day             | \$ 20.00                |
| Multi-Gas Monitor (QRAE II)                      | Per day             | \$ 50.00                |
| Hand Vacuum Pump                                 | Per day             | \$ 25.00                |
| Converter Box – Redi-Flo Grundfos                | Per day             | \$ 60.00                |
| Pump – 2” Grundfos                               | Per day             | \$ 60.00                |
| Pump – 12-v Electrical Submersible               | Per day             | \$ 15.00                |
| Pump – QED Well Development Pump                 | Per day             | \$ 45.00                |
| Pump – 12-v Stainless Steel Pump w/Converter Box | Per day             | \$ 100.00               |
| Pump – QED Bladder Pump                          | Per day             | \$ 45.00                |
| Pump – Geotech Peristaltic                       | Per day             | \$ 40.00                |
| Pump – Pneumatic Pump and Controller             | Per day             | \$ 150.00               |
| QED MP-15                                        | Per day             | \$ 100.00               |
| QED MP-10H                                       | Per day             | \$ 150.00               |
| CO <sub>2</sub> Tank Refill                      | Each                | \$ 20.00                |
| NO <sub>2</sub> or O <sub>2</sub> Tank Refill    | Each                | \$ 40.00                |
| QED Air Compressor                               | Per day             | \$ 40.00                |
| Flow Cell (YSI Pro and Horiba)                   | Per day             | \$ 100.00               |
| QED Control Box                                  | Per day             | \$ 40.00                |
| Generator                                        | Per day             | \$ 75.00                |
| Tier II Probe                                    | Each                | \$ 100.00               |
| VFD Gas Extraction Unit (7.5 HP)                 | Per week            | \$ 750.00               |
| VFD Gas Extraction Unit (7.5 HP)                 | Per month           | \$2,000.00              |
| VFD Gas Extraction Unit (≤ 5.0 HP)               | Per day             | \$ 500.00               |
| VFD Gas Extraction Unit (≤ 5.0 HP)               | Per week            | \$1,500.00              |
| Digital Manometer                                | Per day             | \$ 35.00                |
| Gas Extraction Unit (≤ 2 HP)                     | Per week            | \$ 350.00               |
| Gas Extraction Unit (≤ 2 HP)                     | Per month           | \$1,050.00              |
| Gas Flare Unit                                   | Per month           | \$ 400.00               |
| Drone Equipment                                  | Per day             | \$ 320.00               |
| Laser Survey Level                               | Per day             | \$ 150.00               |
| GPS Magellan Professional                        | Per day             | \$ 175.00               |
| ATV                                              | Per day             | \$ 125.00               |

**NOTE:** When LaBella Associates equipment is not available for a project, equipment charges will be billed at rental cost plus 15 percent.

## EXPENSES AND FEES

### Administrative Fees

A five (5) percent administrative fee will be added to the total invoice amount in lieu of postage, phone, plotting, internal photocopying, and CADD expenses.

### Reimbursable Expenses and Consultant Fees

When directly related to a project, the reimbursable expenses and consultant fees will be billed at cost plus 15 percent:

Consultant: The fees of consultants to LaBella Associates, who may perform surveying, geotechnical, electrical, structural, mechanical, laboratory, drilling or other technical or consulting services.

Copy and Reproduction Services: Copy and reproduction expenses include the cost of using professional copy and reproduction.

Delivery: Delivery expenses include the cost of using delivery and express services.

Travel: Travel expenses include the cost of airfare, taxi, rental cars and fuel, tolls, and parking. Employee vehicle reimbursement will be the current IRS standard mileage rate.

Lodging: Lodging expenses include the cost incurred during project related travel.

Meal: Meal expenses include the cost incurred during project related travel.

Miscellaneous: Miscellaneous expenses include the cost of expendable field supplies and other expenses directly incurred during a project.

### Vehicle Expenses

When directly related to a project, the following vehicle expenses will be billed at our calculated costs as Units:

Vehicle Expense: Vehicle expense includes the daily costs for the use of company field vehicles and fuel.

|                 | <u>Units</u> | <u>Unit Cost</u> |
|-----------------|--------------|------------------|
| Vehicle Expense | Per half-day | \$ 100.00        |
| Vehicle Expense | Per day      | \$ 150.00        |
| Vehicle Expense | Per week     | \$ 450.00        |
| Vehicle Expense | Per month    | \$1,350.00       |

**NOTE:** When LaBella Associates company vehicles are not available for a project, travel expenses as listed in the reimbursable expenses section will apply.



# COUNTY OF WARREN, VIRGINIA

## BOARD OF SUPERVISORS AGENDA ITEM

| DATE             | ITEM       | SUBJECT:                                                        | PAGE 1 OF |
|------------------|------------|-----------------------------------------------------------------|-----------|
| October 18, 2022 | <b>H-5</b> | Purchase of (1) 2025 Pierce Enforcer Pumper and Budget Transfer |           |

### EXPLANATION & SUMMARY:

The Finance and Purchasing Department received a request from the Fire & Rescue Department to review a cooperative contract and additionally solicited quotes that supported the purchase of one (1) 2025 Pierce Pumper.

Section 2.2-4604 of the Virginia Public Procurement Act authorizes the County to cooperatively contract with the Houston-Galveston Area Council (H-GAC). HGAC competitively solicits goods and services which the County can procure directly from the awarded vendor. Contract F12-19, Fire Service Apparatus (All Types) was awarded to Atlantic Emergency Solutions. Purchasing has reviewed the HGAC contract documents and verified this cooperative contracting option is available and valid.

Please find a letter from James Bonzano, Fire Chief, justifying the need, specifications development and selection methodology for the Pierce Enforcer Pumper.

Atlantic Emergency Solutions will deliver the Pierce Pumper within twenty-nine (29) months; around spring of 2025.

### COST & FINANCING:

Staff recommends the Board review and approve the cooperative contract award to Atlantic Emergency Solutions for (1) 2025 Pierce Pumper at a cost of \$891,891.00. This includes a \$23,000 discount if a prepayment is sent by October 31, 2022. An additional \$75,000 will be encumbered to purchase necessary equipment to outfit the Pierce Pumper. This brings the total amount of funding necessary to purchase the apparatus to \$966,891.

Funding for the initial \$500,000 down payment is available in the current year Asset Replacement Fund within the Firetruck Replacement line item (\$800,000 budget). The additional \$466,891 will be encumbered until delivery is completed. Unused FY23 funding will be carried forward within the Asset Replacement Fund to complete the purchase in future fiscal years. Future year funding of \$166,966 will be necessary to complete the purchase, which is currently designated in the Asset Replacement Plan.

#### **Purchase**

|                 |                 |                        |               |
|-----------------|-----------------|------------------------|---------------|
| FY23            | 4-60-35050-7001 | Asset Replacement Fund | -\$500,000.00 |
| FY26 (estimate) | 4-60-35050-7001 | Asset Replacement Fund | -\$466,891.00 |

### PROPOSED OR SUGGESTED MOTION:

I move the Board of Supervisors authorize the Purchasing Agent to approve the purchase order to Atlantic Emergency Solutions for one 2025 Pierce Pumper per the HGAC contract pricing in the amount of \$891,891.00 on behalf of Warren County.

or

I move the Board of Supervisors not authorize the interfund budget transfer or award and table this purchase for discussion.

| SUBMITTED BY:                           | DISPOSITION OF BOARD: <input type="checkbox"/> APPROVED <input type="checkbox"/> OTHER<br>(DESCRIBE) | PROCESSED BY: |
|-----------------------------------------|------------------------------------------------------------------------------------------------------|---------------|
| Alisa Scott,<br>Deputy Finance Director |                                                                                                      |               |



September 21, 2022

County of Warren, Virginia Fire & Rescue  
200 Skyline Vista Drive  
Front Royal, Virginia 22630

Chief Bonzano,

Atlantic Emergency Solutions is proud to offer the enclosed proposal for a 2025 Pierce Enforcer Pumper. The accompanying documents provide comprehensive information on the apparatus and its components, along with specifications and details on parts and equipment that make up the apparatus.

The pages following this letter contain information on pricing, financing options, and pre-pay discounts. Pricing was formulated using HGAC Contract FS12-19 for Fire Service Apparatus (All Types).

I appreciate the opportunity to have worked with you on the design of this piece of apparatus. On behalf of everyone at Atlantic, thanks for the consideration and we look forward to working with you in the future.

Sincerely,

*Michael Yancey*

Michael Yancey  
Regional Account Manager  
Atlantic Emergency Solutions  
540.661.2778  
myancey@atlanticemergency.com



September 21, 2022

County of Warren, Virginia Fire & Rescue  
200 Skyline Vista Drive  
Front Royal, Virginia 22630

Re: Updated Pricing, Discounts, and Finance Options for Bid 647, 2025 Pierce Enforcer Pumper

## Pricing and Discounts

**Total Price:** \$914,891.00 (Valid through 10/31/2022)

**Terms:** COD (Payment due upon delivery to Virginia) – No money is required at time of order

**Delivery:** 29 months from date of order

### Available Prepay Discounts

Discount of \$23,000.00 when \$500,000 is received by October 31, 2022\*

Discount of \$18,000.00 when \$500,000 is received by January 31, 2023\*

Discount of \$11,000.00 when \$500,000 is received by July 31, 2023\*

Discount amounts based on custom prepayments are available upon request\*

\*A performance bond will be provided by the vendor when a customer prepayment is made

## Dealer to furnish items included in the price:

The following items were requested in the customer bid spec and will be furnished upon delivery of the apparatus to the local service center:

1. 2 – All American HSH 6" x 10'
2. 1 – Kockek BS60U Strainer

## Financing Options

As always, our customers are free to choose how they finance their apparatus purchases. If you need assistance or are seeking financing or a lease-purchase, Atlantic Emergency Solutions can help. Please contact me for additional details.

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

Atlantic Emergency Solutions is pleased to submit a proposal to County of Warren, VA for a **Pierce® triple combination pumper** per your request for quotation. The following paragraphs will describe in detail the apparatus, construction methods, and equipment proposed. This proposal will indicate size, type, model and make of components parts and equipment, providing proof of compliance with each and every item (except where noted) in the departments advertised specifications.

PIERCE MANUFACTURING was founded in 1913. Since then we have been building bodies with one philosophy, "BUILD THE FINEST". Our skilled craftsmen take pride in their work, which is reflected, in the final product. We have been building fire apparatus since the early "forties" giving Pierce Manufacturing over 75 years of experience in the fire apparatus market. Pierce Manufacturing has built and put into service more than 62,500 apparatus, including more than 33,900 on Pierce custom chassis designed and built specifically for fire and emergency applications. Our Appleton, Wisconsin facility has over 870,000 total square feet of floor space situated on approximately 105 acres of land. Our Bradenton, Florida facility has 300,000 square feet of floor space situated on approximately 38 acres of land.

Our beliefs in high ethical standards are carried through in all of our commitments and to everyone with whom we do business. Honesty, Integrity, Accountability and Citizenship are global tenets by which we all live and work. Consequently, we neither engage in, nor have we ever been convicted of price fixing, bid rigging, or collusion in any domestic or international fire apparatus market.

Pierce has only one brand of fire apparatus "Pierce", ensuring you are receiving top of the line product that meets your specification.

In accordance with the current edition of NFPA 1901 standards, this proposal will specify whether the fire department, manufacturer, or apparatus dealership will provide required loose equipment.

Images and illustrative material in this proposal are as accurate as known at the time of publication, but are subject to change without notice. Images and illustrative material is for reference only, and may include optional equipment and accessories and may not include all standard equipment.

### **GENERAL DESIGN AND CONSTRUCTION**

To control quality, ensure compatibility, and provide a single source for service and warranty, the custom cab, chassis, pump module and body will be entirely designed, assembled/welded and painted in Pierce owned manufacturing facilities. This includes, but not limited to the cab weldment, the pumphouse module assembly, the chassis assembly, the body and the electrical system.

### **QUALITY AND WORKMANSHIP**

Pierce has set the pace for quality and workmanship in the fire apparatus field. Our tradition of building the highest quality units with craftsmen second to none has been the rule right from the beginning and we demonstrate that ongoing commitment by: Ensuring all steel welding follows American Welding Society D1.1-2004 recommendations for structural steel welding. All aluminum welding follows American Welding society and ANSI D1.2-2003 requirements for structural welding of aluminum. All sheet metal welding follows American welding Society B2.1-2000 requirements for structural welding of sheet metal. Our flux core arc welding uses alloy rods, type 7000 and is performed to American Welding Society standards A5.20-E70T1. Furthermore, all employees classified as welders are tested

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

and certified to meet the American welding Society codes upon hire and every three (3) years thereafter. Pierce also employs an American Welding Society certified welding inspector in plant during working hours to monitor weld quality.

Pierce Manufacturing operates a Quality Management System under the requirements of ISO 9001. These standards sponsored by the International Organization for Standardization (ISO) specify the quality systems that are established by the manufacturer for design, manufacture, installation and service. A copy of the certificate of compliance is included with this proposal.

In addition to the Quality Management system, we also employ a Quality Achievement Supplier program to insure the vendors and suppliers that we utilize meet the high standards we demand. That is just part of our overall "Quality at the Source" program at Pierce.

To demonstrate the quality of our products and services, a list of at least ten (10) fire departments/municipalities that have purchased vehicles for a second time is provided.

### **DELIVERY**

The apparatus will be delivered under its own power to insure proper break-in of all components while the apparatus is still under warranty. A qualified delivery representative shall deliver the apparatus and remain for a sufficient length of time to instruct personnel in proper operation, care and maintenance of the equipment delivered.

### **MANUAL AND SERVICE INFORMATION**

At time of delivery, complete operation and maintenance manuals covering the apparatus will be provided. A permanent plate will be mounted in the driver's compartment specifying the quantity and type of fluids required including engine oil, engine coolant, transmission, pump transmission lubrication, pump primer and drive axle.

### **SAFETY VIDEO**

At the time of delivery Pierce will also provide one (1) 39-minute, professionally produced apparatus safety video, in DVD format. This video will address key safety considerations for personnel to follow when they are driving, operating, and maintaining the apparatus, including the following: vehicle pre-trip inspection, chassis operation, pump operation, aerial operation, and safety during maintenance.

### **PERFORMANCE TESTS**

A road test will be conducted with the apparatus fully loaded and a continuous run of no less than ten (10) miles. During that time the apparatus will show no loss of power nor will it overheat. The transmission drive shaft or shafts and the axles will run quietly and be free of abnormal vibration or noise. The apparatus when fully loaded will not have less than 25 percent nor more than 50 percent on the front axle, and not less than 50 percent nor more than 75 percent on the rear axle. The apparatus will meet NFPA 1901 acceleration and braking requirements.

### **SERVICE AND WARRANTY SUPPORT**

Pierce dealership support will be provided by Atlantic Emergency Solutions by operating a Pierce authorized service center. The service center will have factory-trained mechanics on staff versed in Pierce fire apparatus. The service facility will be located within fifty (50) miles of the fire department.

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

In addition to the dealership, Pierce has service facilities located in both, Weyauwega, Wisconsin and Bradenton, Florida. Pierce also maintains a dedicated parts facility of over 100,000 square feet in Appleton, Wisconsin. The parts facility stocks in excess of \$5,000,000 in parts dedicated to service and replacement parts. The parts facility employs a staff dedicated solely for the distribution and shipment of service and replacement parts.

Service parts for the apparatus being proposed can be found via [Pierceparts.com](http://Pierceparts.com) which, is an interactive online tool that delivers information regarding your specific apparatus as well as the opportunity to register for training classes.

As a Pierce customer you have the ability to view the complete bill of materials for your specific apparatus, including assembly drawings, piece part drawings, and beneficial parts notations. You will also have the ability to search the complete Pierce item master through a parts search function which offers all Pierce SKU's and descriptions offered on all Pierce apparatus. Published component catalogs, which include proprietary systems along with an extensive operators manual library is available for easy reference.

Pierce Manufacturing maintains a dedicated service and warranty staff of over 35 personnel, dedicated to customer support, which also maintains a 24 hour 7 day a week toll free hot line, four (4) on staff EVTs, and offers hands-on repair and maintenance training classes multiple times a year.

### **LIABILITY**

The successful bidder will defend any and all suits and assume all liability for the use of any patented process including any device or article forming a part of the apparatus or any appliance furnished under the contract.

### **INSURANCE PROVIDED BY BIDDER**

#### **COMMERCIAL GENERAL LIABILITY INSURANCE**

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of commercial general liability insurance:

Each Occurrence\$1,000,000

Products/Completed Operations Aggregate\$1,000,000

Personal and Advertising Injury\$1,000,000

General Aggregate\$2,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form and will include Contractual Liability coverage for bodily injury and property damage subject to the terms and conditions of the policy. The policy will include Owner as an additional insured when required by written contract.

**COMMERCIAL AUTOMOBILE LIABILITY INSURANCE**

The successful bidder will, during the performance of the contract, keep in force at least the following minimum limits of commercial automobile liability insurance and coverage will be written on a Commercial Automobile liability form:

Each Accident Combined Single Limit:\$1,000,000

**UMBRELLA/EXCESS LIABILITY INSURANCE**

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

Aggregate:\$3,000,000

Each Occurrence:\$3,000,000

The umbrella policy will be written on an occurrence basis and at a minimum provide excess to the bidder's General Liability and Automobile Liability policies.

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met.

Coverage will be provided by a carrier(s) rated A- or better by A.M. Best.

All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

Bidder agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as certificate holder.

**INSURANCE PROVIDED BY MANUFACTURER**

**PRODUCT LIABILITY INSURANCE**

The manufacturer will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of Product Liability insurance:

Each Occurrence\$1,000,000

Products/Completed Operations Aggregate\$1,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form. The manufacturer's policy will include the owner as additional insured when required by written contract between the Owner and a Pierce authorized dealer.

**UMBRELLA/EXCESS LIABILITY INSURANCE**

The manufacturer will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

Each Occurrence:\$25,000,000

Aggregate:\$25,000,000

The umbrella policy will be written on an occurrence basis and provide excess to the manufacturer's General Liability/Products policies.

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met.

Coverage will be provided by a carrier(s) rated A- or better by A.M. Best.

All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

Manufacturer agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as the certificate holder.

**SINGLE SOURCE MANUFACTURER**

Pierce Manufacturing, Inc. provides an integrated approach to the design and manufacture of our products that delivers superior apparatus and a dedicated support team. From our facilities, the chassis, cab weldment, cab, pumphouse (including the sheet metal enclosure, valve controls, piping and operators panel) and body will be entirely designed, tested, and hand assembled to the customer's exact specifications. The electrical system either hardwired or multiplexed, will be both designed and integrated by Pierce Manufacturing. The warranties relative to these major components (excluding component warranties such as engine, transmission, axles, pump, etc.) will be provided by Pierce as a single source manufacturer. Pierce's single source solution adds value by providing a fully engineered product that offers durability, reliability, maintainability, performance, and a high level of quality.

Your apparatus will be manufactured in Appleton, Wisconsin.

**NFPA 2016 STANDARDS**

This unit will comply with the NFPA standards effective January 1, 2016, except for fire department directed exceptions. These exceptions will be set forth in the Statement of Exceptions.

Certification of slip resistance of all stepping, standing and walking surfaces will be supplied with delivery of the apparatus.

All horizontal surfaces designated as a standing or walking surface that are greater than 48.00" above the ground must be defined by a 1.00" wide line along its outside perimeter. Perimeter markings and designated access paths to destination points will be identified on the customer approval print and are

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

shown as approximate. Actual location(s) will be determined based on materials used and actual conditions at final build. Access paths may pass through hose storage areas and opening or removal of covers or restraints may be required. Access paths may require the operation of devices and equipment such as the aerial device or ladder rack.

A plate that is highly visible to the driver while seated will be provided. This plate will show the overall height, length, and gross vehicle weight rating.

The manufacturer will have programs in place for training, proficiency testing and performance for any staff involved with certifications.

An official of the company will designate, in writing, who is qualified to witness and certify test results.

### **NFPA COMPLIANCY**

Apparatus proposed by the bidder will meet the applicable requirements of the National Fire Protection Association (NFPA) as stated in current edition at time of contract execution. Fire department's specifications that differ from NFPA specifications will be indicated in the proposal as "non-NFPA".

### **PUMP TEST**

Underwriters Laboratory (UL) will test, approved, and certify the pump. The test results and the pump manufacturer's certification of hydrostatic test; the engine manufacturer's certified brake horsepower curve; and the pump manufacturer's record of pump construction details will be forwarded to the Fire Department.

### **GENERATOR TEST**

If the unit has a generator, Underwriters Laboratory (UL) will test, approved, and certify the generator. The test results will be provided to the Fire Department at the time of delivery.

### **BREATHING AIR TEST**

If the unit has breathing air, Pierce Manufacturing will draw an air sample from the air system and have the sample certified that the air quality meets the requirements of NFPA 1989, *Standard on Breathing Air Quality for Fire and Emergency Services Respiratory Protection*.

### **VEHICLE INSPECTION PROGRAM CERTIFICATION**

To assure the vehicle is built to current NFPA 1901 standards, the apparatus, in its entirety, will be third-party, independent, audit-certified through Underwriters Laboratory (UL) that it is built and complies to all applicable standards in the current edition. The certification includes: all design, production, operational, and performance testing of not only the apparatus, but those components that are installed on the apparatus.

A placard will be affixed in the driver's side area stating the third party agency, the date, the standard and the certificate number of the whole vehicle audit.

### **DEALER**

Atlantic Emergency Solutions is a premier provider of emergency services equipment. The dealer owns and operates a service center within 50 miles of the County seat, and that service center employs five (5) or more EVT's, certified by the Emergency Vehicle Certification Commission, that are qualified

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

to work on fire apparatus. The dealer maintains a fleet of mobile service vehicles to respond to roadside emergencies 24 hours a day, 365 days a year.

### **APPARATUS MANUFACTURER**

Pierce Manufacturing is a subsidiary of Oshkosh Truck Corporation located in Oshkosh, Wisconsin. Oshkosh Truck Corporation is a publicly held company traded on the New York Stock Exchange (NYSE OSK). Oshkosh Truck Corporation is a fully owned and managed Corporation that is 100 percent held in the United States of America.

### **INSPECTION TRIP(S)**

The bidder will provide two (2) factory inspection trip(s) for three (3) customer representative(s). The inspection trip(s) will be scheduled at times mutually agreed upon between the manufacturer's representative and the customer. All costs such as travel, lodging and meals will be the responsibility of the bidder.

### **BID BOND NOT REQUESTED**

A bid bond will not be included. If requested, the following will apply:

All bidders will provide a bid bond as security for the bid in the form of a 5% bid bond to accompany their bid. This bid bond will be issued by a Surety Company who is listed on the U.S. Treasury Departments list of acceptable sureties as published in Department Circular 570. The bid bond will be issued by an authorized representative of the Surety Company and will be accompanied by a certified power of attorney dated on or before the date of bid. The bid bond will include language, which assures that the bidder/principal will give a bond or bonds as may be specified in the bidding or contract documents, with good and sufficient surety for the faithful performance of the contract, including the Basic One (1) Year Limited Warranty, and for the prompt payment of labor and material furnished in the prosecution of the contract.

Notwithstanding any document or assertion to the contrary, any surety bond related to the sale of a vehicle will apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle will not apply to any other warranties that are included within this bid (OEM or otherwise) or to the warranties (if any) of any third party of any part, component, attachment or accessory that is incorporated into or attached to the vehicle. In the event of any contradiction or inconsistency between this provision and any other document or assertion, this provision will prevail.

### **PERFORMANCE BOND NOT REQUESTED**

A performance bond will not be included. If requested at a later date, one will be provided to you for an additional cost and the following will apply:

The successful bidder will furnish a Performance and Payment bond (Bond) equal to 100 percent of the total contract amount within 30 days of the notice of award. Such Bond will be in a form acceptable to the Owner and issued by a surety company included within the Department of Treasury's Listing of Approved Sureties (Department Circular 570) with a minimum A.M. Best Financial Strength Rating of A and Size Category of XV. In the event of a bond issued by a surety of a lesser Size Category, a minimum Financial Strength rating of A+ is required.

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

Bidder and Bidder's surety agree that the Bond issued hereunder, whether expressly stated or not, also includes the surety's guarantee of the vehicle manufacturer's Bumper to Bumper warranty period included within this proposal. Owner agrees that the penal amount of this bond will be simultaneously amended to 25 percent of the total contract amount upon satisfactory acceptance and delivery of the vehicle(s) included herein. Notwithstanding anything contained within this contract to the contrary, the surety's liability for any warranties of any type will not exceed three (3) years from the date of such satisfactory acceptance and delivery, or the actual Bumper to Bumper warranty period, whichever is shorter.

### **APPROVAL DRAWING**

A drawing of the proposed apparatus will be prepared and provided to the purchaser for approval before construction begins. The Pierce sales representative will also be provided with a copy of the same drawing. The finalized and approved drawing will become part of the contract documents. This drawing will indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, etc.

A "revised" approval drawing of the apparatus will be prepared and submitted by Pierce to the purchaser showing any changes made to the approval drawing.

### **ELECTRICAL WIRING DIAGRAMS**

Two (2) electrical wiring diagrams, prepared for the model of chassis and body, will be provided.

### **ENFORCER CHASSIS**

The Pierce Enforcer™ is the custom chassis developed exclusively for the fire service. Chassis provided will be a new, tilt-type custom fire apparatus. The chassis will be manufactured in the apparatus body builder's facility eliminating any split responsibility. The chassis will be designed and manufactured for heavy-duty service, with adequate strength, capacity for the intended load to be sustained, and the type of service required. The chassis will be the manufacturer's first line tilt cab.

### **WHEELBASE**

The wheelbase of the vehicle will be 194".

### **GVW RATING**

The gross vehicle weight rating will be 50,500.

### **FRAME**

The chassis frame will be built with two (2) steel channels bolted to five (5) cross members or more, depending on other options of the apparatus. The side rails will have a 13.38" tall web over the front and mid sections of the chassis, with a continuous smooth taper to 10.75" over the rear axle. Each rail will have a section modulus of 25.992 cubic inches and a resisting bending moment (rbm) of 3,119,040 in-lb over the critical regions of the frame assembly, with a section modulus of 18.96 cubic inches with an rbm of 2,275,200 in-lb over the rear axle. The frame rails will be constructed of 120,000 psi yield strength heat-treated 0.38" thick steel with 3.50" wide flanges.

### **FRONT NON DRIVE AXLE**

The Oshkosh TAK-4® front axle will be of the independent suspension design with a ground rating of 19,500 lb.

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

Upper and lower control arms will be used on each side of the axle. Upper control arm castings will be made of 100,000-psi yield strength 8630 steel and the lower control arm casting will be made of 55,000-psi yield ductile iron.

The center cross members and side plates will be constructed out of 80,000-psi yield strength steel.

Each control arm will be mounted to the center section using elastomer bushings. These rubber bushings will rotate on low friction plain bearings and be lubricated for life. Each bushing will also have a flange end to absorb longitudinal impact loads, reducing noise and vibrations.

There will be nine (9) grease fittings supplied, one (1) on each control arm pivot and one (1) on the steering gear extension.

The upper control arm will be shorter than the lower arm so that wheel end geometry provides positive camber when deflected below rated load and negative camber above rated load.

Camber at load will be zero degrees for optimum tire life.

The ball joint bearing will be of low friction design and be maintenance free.

Toe links that are adjustable for alignment of the wheel to the center of the chassis will be provided.

The wheel ends must have little to no bump steer when the chassis encounters a hole or obstacle.

The steering linkage will provide proper steering angles for the inside and outside wheel, based on the vehicle wheelbase.

The axle will have a turning angle of up to 45 degrees.

### **FRONT SUSPENSION**

Front Oshkosh TAK-4™ independent suspension will be provided with a minimum ground rating of 19,500 lb.

The independent suspension system will be designed to provide maximum ride comfort. The design will allow the vehicle to travel at highway speeds over improved road surfaces and at moderate speeds over rough terrain with minimal transfer of road shock and vibration to the vehicle's crew compartment.

Each wheel will have torsion bar type spring. In addition, each front wheel end will also have energy absorbing jounce bumpers to prevent bottoming of the suspension.

The suspension design will be such that there is at least 10.00" of total wheel travel and a minimum of 3.75" before suspension bottoms.

The torsion bar anchor lock system allows for simple lean adjustments, without the use of shims. One can adjust for a lean within 15 minutes per side. Anchor adjustment design is such that it allows for ride height adjustment on each side.

The independent suspension was put through a durability test that simulated 140,000 miles of inner city driving.

**FRONT SHOCK ABSORBERS**

KONI heavy-duty telescoping shock absorbers will be provided on the front suspension.

**FRONT OIL SEALS**

Oil seals with viewing window will be provided on the front axle.

**FRONT TIRES**

Front tires will be Goodyear 425/65R22.50 radials, 20 ply Armor Max MSA, rated for 22,800 lb maximum axle load and 68 mph maximum speed.

The tires will be mounted on Alcoa 22.50" x 12.25" polished aluminum disc type wheels with a ten (10)stud, 11.25" bolt circle.

**REAR AXLE**

The rear axle will be a Meritor™, Model RS-30-185, with a capacity of 30,000 lb.

**AXLE RATIO OF VEHICLE**

The rear axle will be geared for a top speed of 68 mph. The engine will be electronically limited to a top speed of 60 mph.

**REAR SUSPENSION**

The rear suspension will be Standens, semi-elliptical, 3.00" wide x 53.00" long, 12-leaf pack with a ground rating of 31,000 lbs. The spring hangers will be castings.

The two (2) top leaves will wrap the forward spring hanger pin, and the rear of the spring will be a slipper style end that will ride in a rear slipper hanger. To reduce bending stress due to acceleration and braking, the front eye will be a berlin eye that will place the front spring pin in the horizontal plane within the main leaf.

A steel encased rubber bushing will be used in the spring eye. The steel encased rubber bushing will be maintenance free and require no lubrication.

**SHOCK ABSORBERS**

To provide a smoother ride, the rear axle will be furnished with heavy-duty Monroe Magnum 70 telescoping shock absorbers.

**REAR OIL SEALS**

Oil seals will be provided on the rear axle(s).

**DRIVER CONTROL DIFFERENTIAL LOCK (DCDL)**

A rear axle will be equipped with a driver controlled differential lock (DCDL).

The control will be located within easy reach of the driver. An indicator light will be provided next to the control switch.

**REAR TIRES**

Rear tires will be four (4) Goodyear 315/80R22.50 radials with load range L, all position, G751 MSA , rated for 33,080 lb maximum axle load and 68 mph maximum speed.

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

The outside tires will be mounted on Alcoa© 22.50" x 9.00" polished aluminum disc wheels with a ten (10) stud, 11.25" bolt circle.

The inside tires will be mounted on Accuride® 22.50" x 9.00" steel disc wheels with a ten (10) stud, 11.25" bolt circle.

### **TIRE BALANCE**

All tires will be balanced with Counteract balancing beads. The beads will be inserted into the tire and eliminate the need for wheel weights.

### **TIRE PRESSURE MANAGEMENT**

There will be a RealWheels LED AirSecure™ tire alert pressure management system provided, that will monitor each tire's pressure. A sensor will be provided on the valve stem of each tire for a total of six (6) tires.

The sensor will calibrate to the tire pressure when installed on the valve stem for pressures between 10 and 200 psi. The sensor will activate an integral battery operated LED when the pressure of that tire drops 5 to 8 psi.

Removing the cap from the sensor will indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED will immediately start to flash.

### **FRONT HUB COVERS**

Stainless steel hub covers will be provided on the front axle. An oil level viewing window will be provided.

### **REAR HUB COVERS**

A pair of stainless steel high hat hub covers will be provided on rear axle hubs.

### **CHROME LUG NUT COVERS**

Chrome lug nut covers will be supplied on front and rear wheels.

### **MUD FLAPS**

Mud flaps with a Pierce logo will be installed behind the front and rear wheels.

### **AUTOMATIC TIRE CHAINS**

One (1) pair of Onspot automatic tire chains will be provided at the rear. System will be electric over air operated with a locking switch on cab instrument panel. System may be engaged at speeds up to 25 mph and operated at speeds up to 35 mph.

### **WHEEL CHOCKS**

There will be one (1) pair of folding Ziamatic, Model SAC-44-E, aluminum alloy, Quick-Choc wheel blocks, with easy-grip handle provided.

### **Wheel Chock Brackets**

There will be one (1) pair of Zico, Model SQCH-44-H, horizontal mounting wheel chock brackets provided for the Ziamatic, Model SAC-44-E, folding wheel chocks. The brackets will be made of

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aluminum and consist of a quick release spring loaded rod to hold the wheel chocks in place. The brackets will be mounted one (1) forward and one (1) rearward of the left side rear tire.

### **ELECTRONIC STABILITY CONTROL**

A vehicle control system will be provided as an integral part of the ABS brake system from Meritor Wabco.

The system will monitor and update the lateral acceleration of the vehicle and compare it to a critical threshold where a side roll event may occur. If the critical threshold is met, the vehicle control system will automatically reduce engine RPM, engage the engine retarder (if equipped), and selectively apply brakes to the individual wheel ends of the front and rear axles to reduce the possibility of a side roll event.

The system will monitor directional stability through a lateral accelerometer, steer angle sensor and yaw rate sensor. If spinout or drift out is detected, the vehicle control system will selectively apply brakes to the individual wheel ends of the front and rear axles to bring the vehicle back to its intended direction.

### **ANTI-LOCK BRAKE SYSTEM**

The vehicle will be equipped with a Wabco 4S4M, anti-lock braking system. The ABS will provide a four (4) channel anti-lock braking control on both the front and rear wheels. A digitally controlled system that utilizes microprocessor technology will control the anti-lock braking system. Each wheel will be monitored by the system. When any wheel begins to lockup, a signal will be sent to the control unit. This control unit will then reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system will eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control.

### **AUTOMATIC TRACTION CONTROL**

An anti-slip feature will be included with the ABS. The Automatic Traction Control will be used for traction in poor road and weather conditions. The Automatic Traction Control will act as an electronic differential lock that will not allow a driving wheel to spin, thereby supplying traction at all times. The ABS electronic control unit (ECU) will work with the engine ECU, sharing information concerning wheel slip. Engine ECU will use information to control engine speed, allowing only as much throttle application as required for the available traction, regardless of how much the driver is asking for. An "off road traction" switch will be provided on the instrument panel. Activation of the switch will allow additional tire slip to let the truck climb out and get on top of deep snow or mud.

### **BRAKES**

The service brake system will be full air type.

The front brakes will be Knorr/Bendix disc type with a 17.00" ventilated rotor for improved stopping distance.

The brake system will be certified, third party inspected, for improved stopping distance.

The rear brakes will be Meritor™ 16.50" x 8.63" cam operated with automatic slack adjusters.

### **BRAKE SYSTEM AIR COMPRESSOR**

The air compressor will be a Cummins/WABCO with 25.9 cubic feet per minute output.

### **BRAKE SYSTEM**

The brake system will include:

- Brake treadle valve
- Heated automatic moisture ejector on air dryer
- Total air system minimum capacity of 5,376 cubic inches
- Two (2) air pressure gauges with a red warning light and an audible alarm, that activates when air pressure falls below 60 psi
- Spring set parking brake system
- Parking brake operated by a push-pull style control valve
- A parking "brake on" indicator light on instrument panel
- Park brake relay/inversion and anti-compounding valve, in conjunction with a double check valve system, with an automatic spring brake application at 40 psi
- A pressure protection valve to prevent all air operated accessories from drawing air from the air system when the system pressure drops below 80 psi (550 kPa)
- 1/4 turn drain valves on each air tank

The air tank will be primed and painted to meet a minimum 750 hour salt spray test.

To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.

### **BRAKE SYSTEM AIR DRYER**

The air dryer will be a WABCO System Saver 1200 IWT, with internal wet tank, spin-on coalescing filter cartridge and 100 watt heater.

### **BRAKE LINES**

Color-coded nylon brake lines will be provided. The lines will be wrapped in a heat protective loom in the chassis areas that are subject to excessive heat.

High pressure, wire braid reinforced air lines will be provided from the frame to each brake chamber.

The brake lines will not be painted.

### **AIR INLET/OUTLET**

One (1) air inlet/outlet will be installed with the female coupling located DS stepwell. This system will tie into the "wet" tank of the brake system and include a check valve in the inlet line and an 85 psi pressure protection valve in the outlet line. The air outlet will be controlled by a 1/4 turn valve.

A mating male fitting will be provided with the loose equipment.

The air inlet will allow a shoreline air hose to be connected to the vehicle. This will allow station air to be supplied to the brake system of the vehicle to insure constant air pressure.

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### **RECESSED BOX FOR AIR FITTING**

One (1) air inlet will have an aluminum treadplate recessed box provided. The box(es) will allow the air fitting to be recessed inside the stepwell to prevent damage. DS stepwell for fitting and 1/4 turn valve.

### **ADDITIONAL AIR TANK**

An additional air tank with 1454 cubic inch displacement will be provided to increase the capacity of the main air brake system. This tank will be plumbed into the rear half of the brake system.

The air tank will be primed and painted to meet a minimum 750 hour spray test. To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.

The output flow of the engine air compressor will vary with engine rpm. Full compressor output will only be achieved at governed engine speed. Engine speed will be limited by generators, pumps and other PTO driven options.

### **ALL WHEEL LOCK-UP**

An all wheel lock-up system will be installed which will apply air to the front brakes and use the spring brake at the rear. A control switch will be provided for the driver on the instrument panel.

### **AIR COMPRESSOR - BRAKE SYSTEM MAINTENANCE**

A Gast, Model 5HCD-10-M550X, air compressor will be provided.

It will be driven by the 110-volt shoreline electrical system.

The compressor will maintain the air pressure in the chassis air brake system while the vehicle is not in use.

A Square-D, model #1-9013-GHG2J30, pressure switch will sense when the system pressure drops and automatically start the compressor, which then will run until pressure is restored.

A coalescing filter will be provided, and installed in the system.

It will be located in compartment behind driver's seat.

### **COMPRESSION FITTINGS ONLY**

Any nylon tube on the brake system that is pneumatic will be plumbed with compression type fittings where applicable. Push lock fittings will not be acceptable for any pneumatic nylon tube plumbing.

### **ENGINE**

The chassis will be powered by an electronically controlled engine as described below:

|                 |                        |
|-----------------|------------------------|
| Make:           | Cummins                |
| Model:          | X12                    |
| Power:          | 500 hp at 1900 rpm     |
| Torque:         | 1700 lb-ft at 1000 rpm |
| Governed Speed: | 2000 rpm               |

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|                  |                                                                                                                |
|------------------|----------------------------------------------------------------------------------------------------------------|
| Emissions Level: | EPA 2021                                                                                                       |
| Fuel:            | Diesel                                                                                                         |
| Cylinders:       | Six (6)                                                                                                        |
| Displacement:    | 729 cubic inches (11.9L)                                                                                       |
| Starter:         | Delco 39MT™                                                                                                    |
| Fuel Filters:    | Spin-on style primary filter with water separator and water-in-fuel sensor.<br>Secondary spin-on style filter. |

The engine will include On-board diagnostics (OBD), which provides self diagnostic and reporting. The system will give the owner or repair technician access to state of health information for various vehicle sub systems. The system will monitor vehicle systems, engine and after treatment. The system will illuminate a malfunction indicator light on the dash console if a problem is detected.

### **REMOTE MOUNTED ENGINE FILTERS**

The engine fuel and oil filters will be remote mounted for ease of maintenance.

### **HIGH IDLE**

A high idle switch will be provided, inside the cab, on the instrument panel, that will automatically maintain a preset engine rpm. A switch will be installed, at the cab instrument panel, for activation/deactivation.

The high idle will be operational only when the parking brake is on and the truck transmission is in neutral. A green indicator light will be provided, adjacent to the switch. The light will illuminate when the above conditions are met. The light will be labeled "OK to Engage High Idle."

### **ENGINE BRAKE**

A Jacobs® engine brake is to be installed with the controls located on the instrument panel within easy reach of the driver.

The driver will be able to turn the engine brake system on/off and have a high, medium and low setting.

The engine brake will activate when the system is on and the throttle is released.

The high setting of the brake application will activate and work simultaneously with the variable geometry turbo (VGT) provided on the engine.

The engine brake will be installed in such a manner that when the engine brake is slowing the vehicle the brake lights are activated.

The ABS system will automatically disengage the auxiliary braking device, when required.

### **CLUTCH FAN**

A fan clutch will be provided. The fan clutch will be automatic when the pump transmission is in "Road" position, and constantly engaged when in "Pump" position.

### **ENGINE AIR INTAKE**

The engine air intake will be located above the engine cooling package. It will draw fresh air from the front of the apparatus through the radiator grille.

A stainless steel metal screen will be installed at the inlet of the air intake system that will meet NFPA 1901 requirements.

The air cleaner and stainless steel screen will be easily accessible by tilting the cab.

### **EXHAUST SYSTEM**

The exhaust system will include a Single Module™ aftertreatment device to meet current EPA standards. The exhaust system will be stainless steel from the turbo to the inlet of the aftertreatment device, and will be 5.00" in diameter. An insulation wrap will be provided on all exhaust pipes between the turbo and aftertreatment device to minimize the heat loss to the aftertreatment device. The exhaust will terminate horizontally ahead of the right side rear wheels. A tailpipe diffuser will be provided to reduce the temperature of the exhaust as it exits. Heat deflector shields will be provided to isolate chassis and body components from the heat of the tailpipe diffuser.

### **RADIATOR**

The radiator and the complete cooling system will meet or exceed NFPA and engine manufacturer cooling system standards.

For maximum corrosion resistance and cooling performance, the entire radiator core will be constructed using long life aluminum alloy. The radiator core will consist of aluminum fins, having a serpentine design, brazed to aluminum tubes.

The radiator core will have a minimum front area of 1060 square inches.

Supply tank will be made of heavy duty glass-reinforced nylon and the return tank will be made of aluminum. Both tanks will be crimped onto the core assembly using header tabs and a compression gasket to complete the radiator core assembly. There will be a full steel frame around the inserts to enhance cooling system durability and reliability.

The radiator will be compatible with commercial antifreeze solutions.

The radiator assembly will be isolated from the chassis frame rails with rubber isolators to prevent the development of leaks caused by twisting or straining when the apparatus operates over uneven terrain.

The radiator will include a de-aeration/expansion tank. For visual coolant level inspection, the radiator will have a built-in sight glass. The radiator will be equipped with a 15 psi pressure relief cap.

A drain port will be located at the lowest point of the cooling system and/or the bottom of the radiator to permit complete flushing of the coolant from the system.

Shields or baffles will be provided to prevent recirculation of hot air to the inlet side of the radiator.

### **COOLANT LINES**

Gates, or Goodyear, rubber hose will be used for all engine coolant lines installed by Pierce Manufacturing.

Hose clamps will be stainless steel constant torque type to prevent coolant leakage. They will expand and contract according to coolant system temperature thereby keeping a constant clamping pressure on the hose.

### **FUEL TANK**

A 65 gallon fuel tank will be provided and mounted at the rear of the chassis. The tank will be constructed of 12-gauge, hot rolled steel. It will be equipped with swash partitions and a vent. To eliminate the effects of corrosion, the fuel tank will be mounted with stainless steel straps.

A 0.75" drain plug will be located in a low point of the tank for drainage.

A fill inlet will be provided and marked "Ultra Low Sulfur - Diesel Fuel Only." The fill inlet will be located adjacent to the air bottle storage behind a common door on the left hand side of the vehicle.

A 0.50" diameter vent will be installed from tank top to just below fuel fill inlet.

The fuel tank will meet all FHWA 393.67 requirements including a fill capacity of 95 percent of tank volume.

All fuel lines will be provided as recommended by the engine manufacturer.

### **DIESEL EXHAUST FLUID TANK**

A 4.5 gallon diesel exhaust fluid (DEF) tank will be provided and mounted in the driver's side body rearward of the rear axle.

A 0.50" drain plug will be provided in a low point of the tank for drainage.

A fill inlet will be provided and marked "Diesel Exhaust Fluid Only". The fill inlet will be located adjacent to the air bottle storage behind a common door on the driver side of the vehicle.

The tank will meet the engine manufacturers requirement for 10 percent expansion space in the event of tank freezing.

The tank will include an integrated heater unit that utilizes engine coolant to thaw the DEF in the event of freezing.

### **FUEL PRIMING PUMP**

A Cummins automatic electronic fuel priming pump will be integrated as part of the engine.

### **FUEL COOLER**

An air to fuel cooler will be installed in the engine fuel return line.

### **FUEL SEPARATOR**

The engine will be equipped with a Racor in-line spin-on fuel and water separator in addition to the engine fuel filters.

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### **TRANSMISSION**

An Allison 6th generation, Model EVS 4000P, electronic, torque converting, automatic transmission will be provided.

The transmission will be equipped with prognostics to monitor oil life, filter life, and transmission health. A wrench icon on the shift selector's digital display will indicate when service is due.

Two (2) PTO openings will be located on left side and top of converter housing (positions 8 o'clock and 1 o'clock).

A transmission temperature gauge with an amber light and buzzer will be installed on the cab instrument panel.

### **TRANSMISSION SHIFTER**

A six (6)-speed push button shift module will be mounted to right of driver on console. Shift position indicator will be indirectly lit for after dark operation.

The transmission ratio will be:

|     |              |
|-----|--------------|
| 1st | 3.51 to 1.00 |
| 2nd | 1.91 to 1.00 |
| 3rd | 1.43 to 1.00 |
| 4th | 1.00 to 1.00 |
| 5th | 0.75 to 1.00 |
| 6th | 0.64 to 1.00 |
| R   | 4.80 to 1.00 |

### **TRANSMISSION COOLER**

A Modine plate and fin transmission oil cooler will be provided using engine coolant to control the transmission oil temperature.

### **DOWNSHIFT MODE (W/ENGINE BRAKE)**

The transmission will be provided with an aggressive downshift mode.

This will provide earlier transmission downshifts to 3rd gear from 6th gear, resulting in improved engine braking performance.

### **DRIVELINE**

Drivelines will be a heavy-duty metal tube and be equipped with Spicer® 1810 universal joints.

The shafts will be dynamically balanced before installation.

A splined slip joint will be provided in each driveshaft where the driveline design requires it. The slip joint will be coated with Glidecoat® or equivalent.

### **STEERING**

Dual Sheppard, Model M110, steering gears, with integral heavy-duty power steering, will be provided. For reduced system temperatures, the power steering will incorporate an air to oil cooler and an Eaton, Model VN20, hydraulic pump with integral pressure and flow control. All power steering lines will have wire braded lines with crimped fittings.

A tilt and telescopic steering column will be provided to improve fit for a broader range of driver configurations.

### **STEERING WHEEL**

The steering wheel will be 18.00" in diameter, have tilting and telescoping capabilities, and a 4-spoke design.

### **LOGO AND CUSTOMER DESIGNATION ON DASH**

The dash panel will have an emblem containing the Pierce logo and customer name. The emblem will have three (3) rows of text for the customer's department name. There will be a maximum of eight (8) characters in the first row, 11 characters in the second row and 11 characters in the third row.

The first row of text will be: Warren

The second row of text will be: County

The third row of text will be: Fire

### **BUMPER**

A one (1) piece bumper manufactured from 0.25" formed steel with a 0.38" bend radius will be provided. The bumper will be a minimum of 10.00" high with a 1.50" top and bottom flange, and will extend 19.00" from the face of the cab. The bumper will be 95.28" wide with 45 degree corners and side plates. The bumper will be metal finished and painted job color.

To provide adequate support strength, the bumper will be mounted directly to the front of the C channel frame. The frame will be a bolted modular extension frame constructed of 50,000 psi tensile steel. The frame will include a 6.00" x 2.00" x 0.25" wall steel tube with 0.38" gusset plates for increased support of the bumper assembly.

### **Gravel Pan**

A gravel pan, constructed of bright aluminum treadplate, will be furnished between the bumper and the cab face. The pan will be properly supported from the underside to prevent flexing and vibration.

### **LEFT SIDE HOSE TRAY**

A hose tray will be placed in the left side of the extended bumper. The hose tray will be 13.00" deep.

The tray will have a capacity of 100' of 1.75" double jacket cotton-polyester hose.

Black rubber grating will be provided at the bottom of the tray. Drain holes will be provided.

### **Left Side Hose Tray Restraint**

There will be one (1) pair hose tray restraint straps located over the left side mounted tray.

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The restraints will be a pair of 2.00" wide black nylon straps with Velcro® fasteners provided. The strap(s) will be used to secure the hose in the tray.

### **RIGHT SIDE HOSE TRAY**

A hose tray will be placed in the right side of the extended bumper.

The tray will have a capacity of 25' of 4.00" double jacket cotton-polyester hose.

Black rubber grating will be provided at the bottom of the tray. Drain holes will be provided.

### **Right Side Hose Tray Restraint**

There will be one (1) pair hose tray restraint straps over the right side hose tray.

The restraints will be a pair of 2.00" wide black nylon straps with Velcro® fasteners provided. The strap(s) will be used to secure the hose in the tray.

### **TOW EYES**

Two (2) painted steel tow eyes will be installed under the bumper and attached to the front frame members. The inner and outer edges of the tow eyes will have a 0.25 radius.

The tow eyes will extend down to contact the road surface before the bottom edge of the bumper.

The tow eyes will be designed and positioned to allow up to a 6,000 lb straight horizontal pull in line with the centerline of the vehicle. The tow eyes will not be used for lifting of the apparatus.

### **LICENSE PLATE BRACKET**

A non-illuminated license plate bracket will be mounted under the front bumper. The bracket will be hinged. The bracket will be formed from bright stainless steel.

### **FRONT BUMPER NOTCH**

The front bumper will be notched for recessing of the Q2B siren. The notch will be designed so that the bumper is one continuous piece. The notch will be welded in place for strength with a continuous top and bottom flange. All welds will be metal finished for appearance. The siren will be located center of the bumper.

### **CAB**

The Enforcer cab will be designed specifically for the fire service and manufactured by the chassis builder.

The cab will be built by the apparatus manufacturer in a facility located on the manufacturer's premises.

For reasons of structural integrity and enhanced occupant protection, the cab will be a heavy duty design, constructed to the following minimal standards.

The cab will have 12 main vertical structural members located in the A-pillar (front cab corner posts), B-pillar (side center posts), C-pillar (rear corner posts), and rear wall areas. The A-pillar will be constructed of solid A356-T5 aluminum castings. The B-pillar and C-pillar will be constructed from 0.13" wall extrusions. The rear wall will be constructed of two (2) 2.00" x 2.00" outer aluminum extrusions and two (2) 2.00" x 1.00" inner aluminum extrusions. All main vertical structural members

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will run from the floor to 4.625" x 3.864" x 0.090" thick roof extrusions to provide a cage-like structure with the A-pillar and roof extrusions being welded into a 0.25" thick corner casting at each of the front corners of the roof assembly.

The front of the cab will be constructed of a 0.13" firewall plate, covered with a 0.090" front skin (for a total thickness of 0.22"), and reinforced with a full width x 0.50" thick cross-cab support located just below the windshield and fully welded to the engine tunnel. The cross-cab support will run the full width of the cab and weld to each A-pillar, the 0.13" firewall plate, and the front skin.

The cab floors will be constructed of 0.125" thick aluminum plate and reinforced at the firewall with an additional 0.25" thick cross-floor support providing a total thickness of 0.375" of structural material at the front floor area. The front floor area will also be supported with two (2) triangular 0.30" wall extrusions that also provides the mounting point for the cab lift. This tubing will run from the floor wireway of the cab to the engine tunnel side plates, creating the structure to support the forces created when lifting the cab.

The cab will be 96.00" wide (outside door skin to outside door skin) to maintain maximum maneuverability.

The forward cab section will have an overall height (from the cab roof to the ground) of approximately 99.00". The crew cab section will have a 10.00" raised roof, with an overall cab height of approximately 109.00". The overall height listed will be calculated based on a truck configuration with the lowest suspension weight rating, the smallest diameter tires for the suspension, no water weight, no loose equipment weight, and no personnel weight. Larger tires, wheels, and suspension will increase the overall height listed.

The floor to ceiling height inside the crew cab will be 64.50" in the center and outboard positions.

The crew cab floor will measure 36.00" from the rear wall to the back side of the rear facing seat risers.

The medium block engine tunnel, at the rearward highest point (knee level), will measure 51.50" to the rear wall. The big block engine tunnel will measure 41.50" to the rear wall.

The crew cab will be a totally enclosed design with the interior area completely open to improve visibility and verbal communication between the occupants.

The cab will be a full tilt cab style.

A 3-point cab mount system with rubber isolators will improve ride quality by isolating chassis vibrations from the cab.

### **CAB ROOF DRIP RAIL**

For enhanced protection from inclement weather, a drip rail will be furnished on the sides of the cab. The drip rail will be painted to match the cab roof, and bonded to the sides of the cab. The drip rail will extend the full length of the cab roof.

### **INTERIOR CAB INSULATION**

The cab will include 1.00" insulation in the ceiling, 1.50" insulation in the side walls, and 2.00" insulation in the rear wall to maximize acoustic absorption and thermal insulation.

### **FENDER LINERS**

Full circular inner fender liners in the wheel wells will be provided.

### **PANORAMIC WINDSHIELD**

A one (1)-piece safety glass windshield will be provided with over 2,775 square inches of clear viewing area. The windshield will be full width and will provide the occupants with a panoramic view. The windshield will consist of three (3) layers: outer light, middle safety laminate, and inner light. The 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. The inner light will provide yet another chip resistant layer. The cab windshield will be bonded to the aluminum windshield frame using a urethane adhesive. A custom frit pattern will be applied on the outside perimeter of the windshield for a finished automotive appearance.

### **WINDSHIELD WIPERS**

Three (3) electric windshield wipers with washer will be provided that meet FMVSS and SAE requirements.

The washer reservoir will be able to be filled without raising the cab.

### **ENGINE TUNNEL**

Engine hood side walls will be constructed of 0.375" aluminum. The top will be constructed of 0.125" aluminum and will be tapered at the top to allow for more driver and passenger elbow room.

The engine hood will be insulated for protection from heat and sound. The noise insulation keeps the dBA level within the limits stated in the current NFPA 1901 standards.

The engine tunnel will be no higher than 17.00" off the crew cab floor.

### **INTERIOR CREW CAB REAR WALL ADJUSTABLE SEATING (PATENT PENDING)**

The interior rear wall of the crew cab will have mounting holes every 2.75" to allow for adjustability of the forward facing crew cab seating along the rear wall. Seats will be adjustable with use of simple hand tools allowing departments flexibility of their seating arrangement should their department needs change.

### **CAB REAR WALL EXTERIOR COVERING**

The exterior surface of the rear wall of the cab will be overlaid with bright aluminum treadplate except for areas that are not typically visible when the cab is lowered.

### **CAB LIFT**

A hydraulic cab lift system will be provided consisting of an electric powered hydraulic pump, dual lift cylinders, and necessary hoses and valves.

Lift controls will be located on the right side pump panel or front area of the body in a convenient location.

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The cab will be capable of tilting 43 degrees to accommodate engine maintenance and removal.

The cab will be locked down by a 2-point normally closed spring loaded hook type latch that fully engages after the cab has been lowered. The system will be hydraulically actuated to release the normally closed locks when the cab lift control is in the raised position and cab lift system is under pressure. When the cab is completely lowered and system pressure has been relieved, the spring loaded latch mechanisms will return to the normally closed and locked position.

The hydraulic cylinders will be equipped with a velocity fuse that protects the cab from accidentally descending when the control is located in the tilt position.

For increased safety, a redundant mechanical stay arm will be provided that must be manually put in place on the left side between the chassis and cab frame when the cab is in the raised position. This device will be manually stowed to its original position before the cab can be lowered.

### **Cab Lift Interlock**

The cab lift system will be interlocked to the parking brake. The cab tilt mechanism will be active only when the parking brake is set and the ignition switch is in the on position. If the parking brake is released, the cab tilt mechanism will be disabled.

### **GRILLE**

A bright finished aluminum mesh grille screen, inserted behind a bright finished grille surround, will be provided on the front center of the cab.

### **DOOR JAMB SCUFFPLATES**

All cab door jambs will be furnished with a polished stainless steel scuffplate, mounted on the striker side of the jamb.

### **SIDE OF CAB MOLDING**

Chrome molding will be provided on both sides of cab.

### **MIRRORS**

A Retractable, Model 613423, dual vision, motorized, west coast style mirror, with chrome finish, will be mounted on each side of the front cab door with spring loaded retractable arms. The flat glass and convex glass will be heated and adjustable with remote control within reach of the driver.

### **DOORS**

To enhance entry and egress to the cab, the forward cab door openings will be a minimum of 37.50" wide x 63.37" high. The crew cab doors will be located on the sides of the cab and will be constructed in the same manner as the forward cab doors. The crew cab door openings will be a minimum of 34.30" wide x 73.25" high.

The forward cab and crew cab doors will be constructed of extruded aluminum with a nominal material thickness of 0.093". The exterior door skins will be constructed from 0.090" aluminum.

A customized, vertical, pull-down type door handle will be provided on the exterior of each cab door. The finish of the door handle will be chrome/black. The exterior handle will be designed specifically for

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the fire service to prevent accidental activation, and will provide 4.00" wide x 2.00" deep hand clearance for ease of use with heavy gloved hands.

Each door will also be provided with an interior flush, open style paddle handle that will be readily operable from fore and aft positions, and be designed to prevent accidental activation. The interior handles will provide 4.00" wide x 1.25" deep hand clearance for ease of use with heavy gloved hands.

The cab doors will be provided with both interior (rotary knob) and exterior (keyed) locks exceeding FMVSS standards. The keys will be Model 751. The locks will be capable of activating when the doors are open or closed. The doors will remain locked if locks are activated when the doors are opened, then closed.

A full length, heavy duty, stainless steel, piano-type hinge with a 0.38" pin and 11 gauge leaf will be provided on all cab doors. There will be double automotive-type rubber seals around the perimeter of the door framing and door edges to ensure a weather-tight fit.

A chrome grab handle will be provided on the inside of each cab door for ease of entry.

A red webbed grab handle will be installed on the crew cab door stop strap. The grab handles will be securely mounted.

The bottom cab step at each cab door location will be located below the cab doors and will be exposed to the exterior of the cab.

### **Door Panels**

The inner cab door panels will be constructed out of brushed stainless steel.

### **MANUAL CAB DOOR WINDOWS**

All cab entry doors will contain a conventional roll down window.

### **CAB STEPS**

The forward cab and crew cab access steps will be a full size two (2) step design to provide largest possible stepping surfaces for safe ingress and egress. The bottom steps will be designed with a grip pattern punched into bright aluminum treadplate material to provide support, slip resistance, and drainage. The bottom steps will be a bolt-in design to minimize repair costs should they need to be replaced. The forward cab steps will be a minimum 25.00" wide, and the crew cab steps will be 21.65" wide with a 10.00" minimum depth. The inside cab steps will not exceed 16.50" in height.

The vertical surfaces of the step well will be aluminum treadplate.

### **CAB EXTERIOR HANDRAILS**

A 1.25" diameter slip-resistant, knurled aluminum handrail will be provided adjacent to each cab and crew cab door opening to assist during cab ingress and egress.

### **STEP LIGHTS**

There will be six (6) white LED step lights with chrome housing installed for cab and crew cab access steps.

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- One (1) light for the left access steps.
- Two (2) lights for the left side crew cab access steps.
- Two (2) lights for the right side crew cab access steps.
- One (1) light for the right side access step.

In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light.

The lights will be activated when the battery switch is on and the adjacent door is opened.

### **FENDER CROWNS**

Stainless steel fender crowns will be installed at the cab wheel openings.

### **CREW CAB WINDOWS**

One (1) fixed window with tinted glass will be provided on each side of the cab, to the rear of the front cab door. The windows will be sized to enhance light penetration into the cab interior. The windows will measure 18.70" wide x 23.75" high.

### **LEFT SIDE UPPER CREW CAB DOOR WINDOW TINT**

The upper window in the left side crew cab door will be tinted privacy dark gray.

### **BEHIND LEFT SIDE CAB DOOR WINDOW TINT**

The window behind the left side front cab door will be tinted privacy dark gray.

### **RIGHT SIDE ROLLUP CREW CAB DOOR WINDOW TINT**

The rollup window in the right side crew cab door will be tinted privacy dark gray.

### **LEFT SIDE ROLLUP CREW CAB DOOR WINDOW TINT**

The rollup window in the left side crew cab door will be tinted privacy dark gray.

### **RIGHT SIDE UPPER CREW CAB DOOR WINDOW TINT**

The upper window in the right side crew cab door will be tinted privacy dark gray.

### **BEHIND RIGHT SIDE CAB DOOR WINDOW TINT**

The window behind the right side front cab door will be tinted privacy dark gray.

### **CAB DASH**

The driver side dash, switch panel located to the right of the driver, and center console will be constructed of aluminum and painted fire smoke gray.

The officer side dash will be a flat top design with an upper beveled edge to provide easy maintenance and will be constructed out of aluminum and painted to match the cab interior.

The instrument gauge cluster will be surrounded with a high impact ABS plastic contoured to the same shape of the instrument gauge cluster.

**MOUNTING PLATE ON ENGINE TUNNEL**

Equipment installation provisions will be installed on the engine tunnel.

A 0.188" smooth aluminum plate will be bolted to the top surface of the engine tunnel. The plate will follow the contour of the engine tunnel and will run the entire length of the engine tunnel. The plate will be spaced off the engine tunnel .75" to allow for wire routing below the plate.

The mounting surface will be painted to match the cab interior.

**LIP, ADDITIONAL**

There will be one (1)1.00" lip attached to PS dash recess. These will NOT be used to store anything without restraints.

The lip(s) will be mechanically fastened with screws and nutserts.

The lip(s) will be painted to match the cab interior.

**MOUNTING PLATE(S)**

There will be one (1)match size of the flat surface 0.188" aluminum mounting plate(s) provided and installed cover the flat surface over the ABS cover for the forward dash. The mounting surface will be painted to match the cab interior. The plates(s) will be mounted on .75" spacer stand-offs.

**CAB INTERIOR**

The cab interior will be constructed of primarily metal (painted aluminum) to withstand the severe duty cycles of the fire service.

The engine tunnel will be painted aluminum to match the cab interior.

For durability and ease of maintenance, the cab interior side walls will be painted aluminum. The rear wall will be painted aluminum.

The headliner will be installed in both forward and rear cab sections. Headliner material will be vinyl. A sound barrier will be part of its composition. Material will be installed on an aluminum sheet and securely fastened to interior cab ceiling.

The forward portion of the cab headliner will permit easy access for service of electrical wiring or other maintenance needs.

All wiring will be placed in metal raceways.

**CAB INTERIOR UPHOLSTERY**

The cab interior upholstery will be 36 oz dark silver gray vinyl.

**CAB INTERIOR PAINT**

The cab interior metal surfaces, excluding the rear heater panels, will be painted fire smoke gray, vinyl texture paint.

The rear heater panels will be painted black, vinyl textured paint.

### **CAB FLOOR**

The cab and crew cab floor areas will be covered with Polydamp™ acoustical floor mat consisting of a black pyramid rubber facing and closed cell foam decoupler.

The top surface of the material has a series of raised pyramid shapes evenly spaced, which offer a superior grip surface. Additionally, the material has a 0.25" thick closed cell foam (no water absorption) which offers a sound dampening material for reducing sound levels.

### **DEFROST/AIR CONDITIONING SYSTEM**

A ceiling mounted combination heater, defroster and air conditioning system will be installed in the cab above the engine tunnel area.

#### **Cab Defroster**

A 54,000 BTU heater-defroster unit with 690 SCFM of air flow will be provided inside the cab. The heater-defrost will be installed in the forward portion of the cab ceiling. Air outlets will be strategically located in the cab header extrusion per the following:

- One (1) adjustable will be directed towards the left side cab window
- One (1) adjustable will be directed towards the right side cab window
- Six (6) fixed outlets will be directed at the windshield

The defroster will be capable of clearing 98 percent of the windshield and side glass when tested under conditions where the cab has been cold soaked at 0 degrees Fahrenheit for 10 hours, and a 2 ounce per square inch layer of frost/ice has been able to build up on the exterior windshield. The defroster system will meet or exceed SAE J382 requirements.

#### **Cab/Crew Auxiliary Heater**

There will be one (1) 31,000 BTU auxiliary heater with 560 SCFM of air flow provided in each outboard rear facing seat risers with a dual scroll blower. An aluminum plenum incorporated into the cab structure used to transfer heat to the forward positions.

#### **Air Conditioning**

A condenser will be a 59,644 BTU output that meets and exceeds the performance specification will be mounted on the radiator.

The air conditioning system will be capable of cooling the average cab temperature from 100 degrees Fahrenheit to 75 degrees Fahrenheit at 50 percent relative humidity within 30 minutes. The cooling performance test will be run only after the cab has been heat soaked at 100 degrees Fahrenheit for a minimum of 4 hours.

The evaporator unit will be installed in the rear portion of the cab ceiling over the engine tunnel. The evaporator will include one (1) high performance heating core, one (1) high performance cooling core with (1) plenum directed to the front and one (1) plenum directed to the rear of the cab. The rear plenum will be covered with a metal cover painted to match the cab interior.

The evaporator unit will have a 52,000 BTU at 690 SCFM rating that meets and exceeds the performance specifications.

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Adjustable air outlets will be strategically located on the forward plenum cover per the following:

- Four (4) will be directed towards the seating position on the left side of the cab
- Four (4) will be directed towards the seating position on the right side of the cab

Adjustable air outlets will be strategically located on the rear plenum cover per the following:

- Minimum of five (5) will be directed towards crew cab area

A high efficiency particulate air (HEPA) filter will be included for the system. Access to the filter cover will be secured with four (4) screws.

The air conditioner refrigerant will be R-134A and will be installed by a certified technician.

### **Climate Control**

An automotive style controller will be provided to control the heat and air conditioning system within the cab. The controller will have three (3) functional knobs for fan speed, temperature, and air flow distribution (front to rear) control.

The system will control the temperature of the cab and crew cab automatically by pushing the center of the fan speed control knob. Rotate the center temperature control knob to set the cab and crew cab temperature.

The AC system will be manually activated by pushing the center of the temperature control knob. Pushing the center of the air flow distribution knob will engage the AC for max defrost, setting the fan speeds to 100 percent and directing all air flow to the overhead forward position.

The system controller will be located within panel position #12.

### **Gravity Drain Tubes**

Two (2) condensate drain tubes will be provided for the air conditioning evaporator. The drip pan will have two (2) drain tubes plumbed separately to allow for the condensate to exit the drip pan. No pumps will be provided.

### **SUN VISORS**

Two (2) smoked Lexan™ sun visors will be provided. The sun visors will be located above the windshield with one (1) mounted on each side of the cab.

There will be no retention bracket provided to help secure each sun visor in the stowed position.

### **GRAB HANDLES**

A black rubber covered grab handle will be mounted on the door post of the driver and officer's side cab door to assist in entering the cab. The grab handles will be securely mounted to the post area between the door and windshield.

### **ENGINE COMPARTMENT LIGHTS**

There will be one (1) Whelen, Model 3SC0CDCR, 12 volt DC, 3.00" white LED light(s) with Whelen, Model 3FLANGE, chrome flange kit(s) installed under the cab to be used as engine compartment illumination.

These light(s) will be activated automatically when the cab is raised.

### **ACCESS TO ENGINE DIPSTICKS**

For access to the engine oil and transmission fluid dipsticks, there will be a door on the engine tunnel, inside the crew cab. The door will be on the rear wall of the engine tunnel, on the vertical surface.

The engine oil dipstick will allow for checking only. The transmission dipstick will allow for both checking and filling.

The door will have a rubber seal for thermal and acoustic insulation. One (1) Southco C2 chrome flush latch will be provided on the access door.

### **VELCRO STRAP(S) FOR MAP BOX**

There will be one (1) Velcro® strap(s) installed at final inspection.

### **MAP BOX**

A map box with four (4) bins, open from top, will be installed mount at final. The map box will be divided into four (4) bins, each being 12.50" wide x 2.25" high x 12.00" deep. Each bin will slant 30 degrees from horizontal. The map box will be constructed of .125" aluminum and will be painted to match the cab interior.

### **CAB SAFETY SYSTEM**

The cab will be provided with a safety system designed to protect occupants in the event of a side roll or frontal impact, and will include the following:

- A supplemental restraint system (SRS) sensor will be installed on a structural cab member behind the instrument panel. The SRS sensor will perform real time diagnostics of all critical subsystems and will record sensory inputs immediately before and during a side roll or frontal impact event.
- A slave SRS sensor will be installed in the cab to provide capacity for eight (8) crew cab seating positions.
- A fault-indicating light will be provided on the vehicle's instrument panel allowing the driver to monitor the operational status of the SRS system.
- A driver side front air bag will be mounted in the steering wheel and will be designed to protect the head and upper torso of the occupant, when used in combination with the 3-point seat belt.
- A passenger side knee bolster air bag will be mounted in the modesty panel below the dash panel and will be designed to protect the legs of the occupant, when used in combination with the 3-point seat belt.
- Air curtains will be provided in the outboard bolster of outboard seat backs to provide a cushion between occupant and the cab wall.

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- Suspension seats will be provided with devices to retract them to the lowest travel position during a side roll or frontal impact event.
- Seat belts will be provided with pre-tensioners to remove slack from the seat belt during a side roll or frontal impact event.

### **Frontal Impact Protection**

The SRS system will provide protection during a frontal or oblique impact event. The system will activate when the vehicle decelerates at a predetermined G force known to cause injury to the occupants. The cab and chassis will have been subjected, via third party test facility, to a crash impact during frontal and oblique impact testing. Testing included all major chassis and cab components such as mounting straps for fuel and air tanks, suspension mounts, front suspension components, rear suspensions components, frame rail cross members, engine and transmission and their mounts, pump house and mounts, frame extensions and body mounts. The testing provided configuration specific information used to optimize the timing for firing the safety restraint system. The sensor will activate the pyrotechnic devices when the correct crash algorithm, wave form, is detected.

The SRS system will deploy the following components in the event of a frontal or oblique impact event:

- Driver side front air bag
- Passenger side knee bolster air bag
- Air curtains mounted in the outboard bolster of outboard seat backs
- Suspension seats will be retracted to the lowest travel position
- Seat belts will be pre-tensioned to firmly hold the occupant in place

### **Side Roll Protection**

The SRS system will provide protection during a fast or slow 90 degree roll to the side, in which the vehicle comes to rest on its side. The system will analyze the vehicle's angle and rate of roll to determine the optimal activation of the advanced occupant restraints.

The SRS system will deploy the following components in the event of a side roll:

- Air curtains mounted in the outboard bolster of outboard seat backs
- Suspension seats will be retracted to the lowest travel position
- Seat belts will be pre-tensioned to firmly hold the occupant in place

### **SEATING CAPACITY**

The seating capacity in the cab will be six (6).

### **DRIVER SEAT**

A seat will be provided in the cab for the driver. The seat design will be a cam action type, with air suspension. For increased convenience, the seat will include a manual control to adjust the horizontal position (6.00" travel). The manual horizontal control will be a towel-bar style located below the forward part of the seat cushion. To provide flexibility for multiple driver configurations, the seat will have an adjustable reclining back. The seat back will be a high back style with side bolster pads for maximum support. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control).

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The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A suspension seat safety system will be included. When activated in the event of a side roll, this system will pretension the seat belt and retract the seat to its lowest travel position.

The seat will be furnished with a 3-point, shoulder type seat belt.

### **OFFICER SEAT**

A seat will be provided in the cab for the passenger. The seat will be a fixed type, with no suspension. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back will be an SCBA back style with 5 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A seat safety system will be included. When activated, this system will pretension the seat belt.

The seat will be furnished with a 3-point, shoulder type seat belt.

### **RADIO COMPARTMENT**

A radio compartment will be provided under the officer's seat.

The inside compartment dimensions will be 16.00" wide x 7.50" high x 15.00" deep, with the back of the compartment angled up to match the cab structure.

A drop-down door with one (1) Southco C2 chrome flush latch will be provided for access.

The compartment will be constructed of smooth aluminum and painted to match the cab interior.

### **REAR FACING DRIVER SIDE OUTBOARD SEAT**

There will be one (1) rear facing seat provided at the driver side outboard position in the crew cab. For optimal comfort, the seat will be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back will be an SCBA back style with 5 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat will include the following features incorporated into the side roll protection system:

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- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A seat safety system will be included. When activated, this system will pretension the seat belt.

The seat will be furnished with a 3-point, shoulder type seat belt.

### **REAR FACING PASSENGER SIDE OUTBOARD SEAT**

There will be one (1) rear facing seat provided at the passenger side outboard position in the crew cab. For optimal comfort, the seat will be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back will be an SCBA back style with 5 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A seat safety system will be included. When activated, this system will pretension the seat belt.

The seat will be furnished with a 3-point, shoulder type seat belt.

### **FORWARD FACING CENTER SEATS**

There will be two (2) forward facing foldup seats provided at the center position in the crew cab. For optimal comfort, the seats will be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back will be an SCBA style with 90 degree back. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seats will include the following feature incorporated into the side roll protection system:

- A seat safety system will be included. When activated, this system will pretension the seat belts around the occupants to firmly hold them in place in the event of a side roll.

The seats will be furnished with a 3-point, shoulder type seat belt.

### **REAR FACING OVERHEAD STORAGE COMPARTMENT**

There will be two (2) overhead rear facing storage compartments installed at the raised roof within the crew cab, on each side of the air conditioner. The compartments will be approximately 21.00" wide x 10.00" high x 34.00" deep at the bottom.

Each compartment will include one (1) lift up compartment door. Non-locking latch, paddle handle, and gas operated stay arms will be provided.

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The compartment will be constructed of smooth aluminum and painted to match the cab interior.

### **Compartment Light**

The storage compartment lighting will consist of one (1) white LED strip light installed horizontally above each compartment door opening.

### **SEAT UPHOLSTERY**

All seat upholstery will be black Turnout Tuff material.

### **AIR BOTTLE HOLDERS**

All SCBA type seats in the cab will have a "Hands-Free" auto clamp style bracket in its backrest. For efficiency and convenience, the bracket will include an automatic spring clamp that allows the occupant to store the SCBA bottle by simply pushing it into the seat back. For protection of all occupants in the cab, in the event of an accident, the inertial components within the clamp will constrain the SCBA bottle in the seat and will exceed the NFPA standard of 9G.

There will be a quantity of five (5) SCBA brackets.

### **SEAT EMBROIDERY**

The seats in the cab and crew cab will be provided with custom embroidery. The Fire Department will determine what the embroidery will be by providing pictures at the time of order.

The custom logo will be provided in place of the standard OEM logo.

The embroidery will be provided on six (6) seats.

### **SEAT BELTS**

All cab and tiller cab (if applicable) seating positions will have red seat belts. To provide quick, easy use for occupants wearing bunker gear, the female buckle and seat belt webbing length will meet or exceed the current edition of NFPA 1901 and CAN/ULC - S515 standards.

The 3-point shoulder type seat belts will include height adjustment. This adjustment will optimize the belts effectiveness and comfort for the seated firefighter. The 3-point shoulder type seat belts will be furnished with dual automatic retractors that will provide ease of operation in the normal seating position.

The 3-point shoulder type belts will also include the ReadyReach D-loop assembly to the shoulder belt system. The ReadyReach feature adds an extender arm to the D-loop location placing the D-loop in a closer, easier to reach location.

Any flip up seats will include a 3-point shoulder type belts only.

To ensure safe operation, the seats will be equipped with seat belt sensors in the seat cushion and belt receptacle that will activate an alarm indicating a seat is occupied but not buckled.

### **HELMET STORAGE**

Helmet storage will be located in a body compartment.

### **CAB DOME LIGHTS**

There will be four (4) dual LED dome lights with black bezels provided. Two (2) lights will be mounted above the inside shoulder of the driver and officer and two (2) lights will be installed and located, one (1) on each side of the crew cab.

The color of the LED's will be red and white.

The white LED's will be controlled by the door switches and the lens switch.

The color LED's will be controlled by the lens switch.

In order to ensure exceptional illumination, each white LED dome light will provide a minimum of 10.1 foot-candles (fc) covering an entire 20.00" x 20.00" square seating position when mounted 40.00" above the seat.

### **ENHANCED SOFTWARE FOR CAB AND CREW CAB DOME LIGHTS**

The cab and crew cab dome lights will remain on for 10 seconds for improved visibility after the doors are closed.

The dome lights will dim after 10 seconds or immediately if the vehicle's transmission is put into gear.

### **ADDITIONAL OVERHEAD MAP LIGHT**

There will be one (1) additional rectangular based adjustable map light(s) with white LEDs installed in the cab and located over the officer's left shoulder.

Each light will include a switch on the light housing.

The light switch(es) will be connected directly to the ignition switched power.

### **HAND HELD LIGHT**

There will be four (4) Streamlight, Fire Vulcan, Model #44451, hand lights provided with a vehicle mount with 12VDC direct wire charging rack and quick release buckle strap mounted TBD at approval.

Each light housing will be orange in color and be provided with a C4, LED and two (2) "ultra bright blue tail light LEDs". The tail light LEDs will have a dual mode of blinking or steady.

### **CAB INSTRUMENTATION**

The cab instrument panel include gauges, an LCD display, telltale indicator lamps, control switches, alarms, and a diagnostic panel. The function of the instrument panel controls and switches will be identified by a label adjacent to each item. Actuation of the headlight switch will illuminate the labels in low light conditions. Telltale indicator lamps will not be illuminated unless necessary. The cab instruments and controls will be conveniently located within the forward cab section, forward of the driver. The gauge assembly and switch panels are designed to be removable for ease of service and low cost of ownership.

#### **Gauges**

The gauge panel will include the following ten (10) black faced gauges with black bezels to monitor vehicle performance:

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- Voltmeter gauge (volts):
  - Low volts (11.8 VDC)
    - Amber caution indicator on the information center with intermittent alarm
    - Amber caution light on gauge assembly
  - High volts (15.5 VDC)
    - Amber caution indicator on the information center with intermittent alarm
    - Amber caution light on gauge assembly
  - Very low volts (11.3 VDC)
    - Red warning indicator on the information center with a steady alarm
    - Amber caution light on gauge assembly
  - Very high volts (16.0 VDC)
    - Red warning indicator on the information center with a steady alarm
    - Amber caution light on gauge assembly
- Engine Tachometer (RPM)
- Speedometer MPH (Major Scale), KM/H (Minor Scale)
- Fuel level gauge (Empty - Full in fractions):
  - Low fuel (1/8 full)
    - Amber caution indicator on the information center with intermittent alarm
    - Amber caution light on gauge assembly
  - Very low fuel (1/32 full)
    - Red caution indicator on the information center with steady alarm
    - Amber caution light on gauge assembly
- Engine Oil pressure Gauge (PSI):
  - Low oil pressure to activate engine warning lights and alarms
    - Red caution indicator on the information center with steady alarm
    - Amber caution light on gauge assembly
- Front Air Pressure Gauges (PSI):
  - Low air pressure to activate warning lights and alarm
    - Red warning indicator on the information center with a steady alarm
    - Amber caution light on gauge assembly
- Rear Air Pressure Gauges (PSI):
  - Low air pressure to activate warning lights and alarm
    - Red warning indicator on the information center with a steady alarm
    - Amber caution light on gauge assembly
- Transmission Oil Temperature Gauge (Fahrenheit):
  - High transmission oil temperature activates warning lights and alarm
    - Amber caution indicator on the information center with intermittent alarm
    - Amber caution light on gauge assembly
- Engine Coolant Temperature Gauge (Fahrenheit):
  - High engine temperature activates an engine warning light and alarms
    - Amber caution indicator on the information center with intermittent alarm
    - Amber caution light on gauge assembly
- Diesel Exhaust Fluid Level Gauge (Empty - Full in fractions):
  - Low fluid (1/8 full)

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- Amber indicator light in gauge dial

All gauges will perform prove out at initial power-up to ensure proper performance.

### **Indicator Lamps**

To promote safety, the following telltale indicator lamps will be located on the instrument panel in clear view of the driver. 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 amber telltale lamps will be present:

- Low coolant
- Trac cntl (traction control) (where applicable)
- Check engine
- Check trans (check transmission)
- Aux brake overheat (Auxiliary brake overheat)
- Air rest (air restriction)
- Caution (triangle symbol)
- Water in fuel
- DPF (engine diesel particulate filter regeneration)
- Trailer ABS (where applicable)
- Wait to start (where applicable)
- HET (engine high exhaust temperature) (where applicable)
- ABS (antilock brake system)
- MIL (engine emissions system malfunction indicator lamp) (where applicable)
- Side roll fault (where applicable)
- Front air bag fault (where applicable)

The following red telltale lamps will be present:

- Warning (stop sign symbol)
- Seat belt
- Parking brake
- Stop engine
- Rack down

The following green telltale lamps will be provided:

- Left turn
- Right turn
- Battery on

The following blue telltale lamp will be provided:

- High beam

### **Alarms**

Audible steady tone warning alarm: A steady audible tone alarm will be provided whenever a warning message is present.

Audible pulsing tone caution alarm: A pulsing audible tone alarm (chime/chirp) will be provided whenever a caution message is present without a warning message being present.

Alarm silence: Any active audible alarm will be able to be silenced by holding the ignition switch at the top position for three (3) to five (5) seconds. For improved safety, silenced audible alarms will intermittently chirp every 30 seconds until the alarm condition no longer exists. The intermittent chirp will act as a reminder to the operator that a caution or warning condition still exists. Any new warning or caution condition will enable the steady or pulsing tones respectively.

### **Indicator Lamp and Alarm Prove-Out**

A system will be provided which automatically tests telltale indicator lights and alarms located on the cab instrument panel. Telltale indicators and alarms will perform prove-out at initial power-up to ensure proper performance.

### **Control Switches**

For ease of use, the following controls will be provided immediately adjacent to the cab instrument panel within easy reach of the driver. All switches will have backlit labels for low light applications.

Headlight/Parking light switch: A three (3)-position maintained rocker switch will be provided. The first switch position will deactivate all parking and headlights. The second switch position will activate the parking lights. The third switch will activate the headlights.

Panel back lighting intensity control switch: A three (3)-position momentary rocker switch will be provided. Pressing the top half of the switch, "Panel Up" increases the panel back lighting intensity and pressing the bottom half of the switch, "Panel Down" decreases the panel back lighting intensity. Pressing the half or bottom half of the switch several times will allow back lighting intensity to be gradually varied from minimum to maximum intensity level for ease of use.

Ignition switch: A three (3)-position maintained/momentary rocker switch will be provided. The first switch position will turn off and deactivate vehicle ignition. The second switch position will activate vehicle ignition and will perform prove-out on the telltale indicators and alarms for 3 to 5 seconds after the switch is turned on. A green indicator lamp is activated with vehicle ignition. The third momentary position will temporarily silence all active cab alarms. An alarm "chirp" may continue as long as alarm condition exists. Switching ignition to off position will terminate the alarm silence feature and reset function of cab alarm system.

Engine start switch: A two (2)-position momentary rocker switch will be provided. The first switch position is the default switch position. The second switch position will activate the vehicle's engine. The switch actuator is designed to prevent accidental activation.

Hazard switch will be provided on the instrument panel or on the steering column.

Heater, defroster, and air conditioning control panel.

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Turn signal arm: A self-canceling turn signal with high beam headlight controls will be provided.

Windshield wiper control will have high, low and intermittent modes.

Parking brake control: An air actuated push/pull park brake control valve will be provided.

Chassis horn control: Activation of the chassis horn control will be provided through the center of the steering wheel.

High idle engagement switch: A momentary rocker switch with integral indicator lamp will be provided. The switch will activate and deactivate the high idle function. The "OK To Engage High Idle" indicator lamp must be active for the high idle function to engage. A green indicator lamp integral to the high idle engagement switch will indicate when the high idle function is engaged.

"OK To Engage High Idle" indicator lamp: A green indicator light will be provided next to the high idle activation switch to indicate that the interlocks have been met to allow high idle engagement.

Emergency switching will be controlled by multiple individual warning light switches for various groups or areas of emergency warning lights. An Emergency Master switch provided on the instrument panel that enables or disables all individual warning light switches is included.

An additional "Emergency Master" button will be provided on the lower left hand corner of the gauge panel to allow convenient control of the "Emergency Master" system from inside the driver's door when standing on the ground.

### **Custom Switch Panels**

The design of cab instrumentation will allow for emergency lighting and other switches to be placed within easy reach of the operator thus improving safety. There will be positions for up to four (4) switch panels in the lower instrument console and up to six (6) switch panels in the overhead visor console. All switches have backlit labels for low light conditions.

### **Diagnostic Panel**

A diagnostic panel will be accessible while standing on the ground and located inside the driver's side door left of the steering column. The diagnostic panel will allow diagnostic tools such as computers to connect to various vehicle systems for improved troubleshooting providing a lower cost of ownership. Diagnostic switches will allow ABS systems to provide blink codes should a problem exist.

The diagnostic panel will include the following:

- Engine diagnostic port
- Transmission diagnostic port
- ABS diagnostic port
- Roll sensor diagnostic port
- Command Zone USB diagnostic port
- ABS diagnostic switch (blink codes flashed on ABS telltale indicator)
- Diesel particulate filter regeneration switch (where applicable)
- Diesel particulate filter regeneration inhibit switch (where applicable)

### **Cab LCD Display**

A digital four (4)-row by 20-character dot matrix display will be integral to the gauge panel. The display will be capable of showing simple graphical images as well as text. The display will be split into three (3) sections. Each section will have a dedicated function. The upper left section will display the outside ambient temperature.

The upper right section will display the following, along with other configuration specific information:

- Odometer
- Trip mileage
- PTO hours
- Fuel consumption
- Engine hours

The bottom section will display INFO, CAUTION, and WARNING messages. Text messages will automatically activate to describe the cause of an audible caution or warning alarm. The LCD will be capable of displaying multiple text messages should more than one caution or warning condition exist.

### **AIR RESTRICTION INDICATOR**

A high air restriction warning indicator light LCD message with amber warning indicator and audible alarm will be provided.

### **"DO NOT MOVE APPARATUS" INDICATOR**

A flashing red indicator light, located in the driving compartment, will be illuminated automatically per the current NFPA requirements. The light will be labeled "Do Not Move Apparatus If Light Is On."

The same circuit that activates the Do Not Move Apparatus indicator will activate a pulsing alarm when the parking brake is released.

### **DO NOT MOVE TRUCK MESSAGES**

Messages will be displayed on the Command Zone™, color display located within sight of the driver whenever the Do Not Move Truck light is active. The messages will designate the item or items not in the stowed for vehicle travel position (parking brake disengaged).

The following messages will be displayed (where applicable):

- Do Not Move Truck
- DS Cab Door Open (Driver Side Cab Door Open)
- PS Cab Door Open (Passenger's Side Cab Door Open)
- DS Crew Cab Door Open (Driver Side Crew Cab Door Open)
- PS Crew Cab Door Open (Passenger's Side Crew Cab Door Open)
- DS Body Door Open (Driver Side Body Door Open)
- PS Body Door Open (Passenger's Side Body Door Open)
- Rear Body Door Open
- DS Ladder Rack Down (Driver Side Ladder Rack Down)
- PS Ladder Rack Down (Passenger Side Ladder Rack Down)

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- Deck Gun Not Stowed
- Lt Tower Not Stowed (Light Tower Not Stowed)
- Fold Tank Not Stowed (Fold-A-Tank Not Stowed)
- Aerial Not Stowed (Aerial Device Not Stowed)
- Stabilizer Not Stowed
- Steps Not Stowed
- Handrail Not Stowed

Any other device that is opened, extended, or deployed that creates a hazard or is likely to cause major damage to the apparatus if the apparatus is moved will be displayed as a caution message after the parking brake is disengaged.

### **SWITCH PANELS**

The built-in switch panels will be located in the lower console or overhead console of the cab.

The switches will be rocker-type and include an integral indicator light. For quick, visual indication the switch will be illuminated whenever the switch is active. A 2-ply, scratch resistant laser engraved Gravoply label indicating the use of each switch will be placed below the switches. The label will allow light to pass through the letters for improved visibility in low light conditions. Switches and light source are integral to the switch panel assembly.

### **WIPER CONTROL**

Wiper control will consist of a two (2)-speed windshield wiper control with intermittent feature and windshield washer controls. The control will be located on the left side of the center instrument panel.

### **SPARE CIRCUIT**

There will be two (2) dual USB fast charge socket mounts installed on the apparatus.

The above wires will have the following features:

- The positive wire will be connected directly to the battery power.
- The negative wire will be connected to ground.
- Wires will be protected to 4.8 amps at 12 volts DC.
- The USB socket mount will be officer dash per the IP layout and recessed (not in a box) on the rear of the engine tunnel to the right of the fluid access door.
- Termination will be a Blue Sea Systems part number 1045 dual USB charger socket.
- Wires will be sized to 125% of the protection.

This circuit(s) may be load managed when the parking brake is applied.

### **SPARE CIRCUIT**

There will be two (2) pair of wires, including a positive and a negative, installed on the apparatus.

The above wires will have the following features:

- The positive wire will be connected directly to the battery power
- The negative wire will be connected to ground

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- Wires will be protected to 15 amps at 12 volts DC
- Power and ground will terminate officer dash per the IP layout and recessed (not in a box) on the rear of the engine tunnel to the right of the fluid access door
- Termination will be with 15 amp, power point plug with rubber cover
- Wires will be sized to 125 percent of the protection

The circuit(s) may be load managed when the parking brake is set.

### **SPARE CIRCUIT**

There will be two (2) pair of wires, including a positive and a negative, installed on the apparatus.

The above wires will have the following features:

- The positive wire will be connected directly to the battery power.
- The negative wire will be connected to ground.
- Wires will be protected to 15 amps at 12 volts DC.
- Power and ground will terminate one each behind the driver and passenger seat with a 6' coil.
- Termination will be with heat shrinkable butt splicing.
- Wires will be sized to 125 percent of the protection.

This circuit(s) may be load managed when the parking brake is set.

### **STEREO RADIO**

A Jensen, heavy duty AM/FM / Bluetooth / Weatherband stereo radio, with front and rear auxiliary input will be installed per switch panel layout. There will be 5.25" speakers installed one (1) pair of 5.25" speakers in the cab and one (1) pair of 5.25" speakers in the crew cab. The antenna will be a roof-mounted rubber antenna located in an open space, on the cab roof.

The following features will be included:

- 180 watts max power output (45W x 4)
- Bluetooth® streaming audio and controls (A2DP/AVRCP) with hands-free calling (HFP)
- Electronic AM/FM tuner (US/Euro)
- iPod®/iPhone® ready via USB
- SiriusXM-Ready®
- Seven-channel NOAA weatherband with S.A.M.E. technology
- USB 2.0 for playback of MP3 & WMA audio files
- RBDS with PTY search
- Front and rear USB input
- Front and rear AUX input

### **INFORMATION CENTER**

An information center employing a 7.00" diagonal touch screen color LCD display will be encased in an ABS plastic housing.

The information center will have the following specifications:

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- Operate in temperatures from -40 to 185 degrees Fahrenheit
- An Optical Gel will be placed between the LCD and protective lens
- Five weather resistant user interface switches
- Grey with black accents
- Sunlight Readable
- Linux operating system
- Minimum of 1000nits rated display
- Display can be changed to an available foreign language
- A LCD display integral to the cab gauge panel will be included as outlined in the cab instrumentation area.
- Programmed to read US Customary

### **General Screen Design**

Where possible, background colors will be used to provide "At a Glance" vehicle information. If information provided on a screen is within acceptable limits, a green background will be used.

If a caution or warning situation arises the following will occur:

- An amber background/text color will indicate a caution condition
- A red background/text color will indicate a warning condition
- The information center will utilize an "Alert Center" to display text messages for audible alarm tones. The text messages will be written to identify the item(s) causing the audible alarm to sound. If more than one (1) text message occurs, the messages will cycle every second until the problem(s) have been resolved. The background color for the "Alert Center" will change to indicate the severity of the "warning" message. If a warning and a caution condition occur simultaneously, the red background color will be shown for all alert center messages.
- A label for each button will exist. The label will indicate the function for each active button for each screen. Buttons that are not utilized on specific screens will have a button label with no text or symbol.

### **Home/Transit Screen**

This screen will display the following:

- Vehicle Mitigation (if equipped)
- Water Level (if the water level system includes compatible communications to the information center)
- Foam Level (if the foam level system includes compatible communications to the information center)
- Seat Belt Monitoring Screen
- Tire Pressure Monitoring (if equipped)
- Digital Speedometer
- Active Alarms

### **On Scene Screen**

This screen will display the following and will be auto activated with pump engaged (if equipped):

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- Battery Voltage
- Fuel
- Oil Pressure
- Coolant Temperature
- RPM
- Water Level (if equipped)
- Foam Level (if equipped)
- Foam Concentration (if equipped)
- Water Flow Rate (if equipped)
- Water Used (if equipped)
- Active Alarms

### **Virtual Buttons**

There will be four (4) virtual switch panel screens that match the overhead and lower lighting and HVAC switch panels.

### **Page Screen**

The page screen will display the following and allow the user to progress into other screens for further functionality:

- Diagnostics
  - Faults
    - Listed by order of occurrence
    - Allows to sort by system
  - Interlock
    - Throttle Interlocks
    - Pump Interlocks (if equipped)
    - Aerial Interlocks (if equipped)
    - PTO Interlocks (if equipped)
  - Load Manager
    - A list of items to be load managed will be provided. The list will provide a description of the load.
    - The lower the priority numbers the earlier the device will be shed should a low voltage condition occur.
    - The screen will indicate if a load has been shed (disabled) or not shed.
    - "At a glance" color features are utilized on this screen.
  - Systems
    - Command Zone
      - Module type and ID number
      - Module Version
      - Input or output number
      - Circuit number connected to that input or output
      - Status of the input or output
      - Power and Constant Current module diagnostic information

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- Foam (if equipped)
  - Pressure Controller (if equipped)
  - Generator Frequency (if equipped)
- Live Data
  - General Truck Data
- Maintenance
  - Engine oil and filter
  - Transmission oil and filter
  - Pump oil (if equipped)
  - Foam (if equipped)
  - Aerial (if equipped)
- Setup
  - Clock Setup
  - Date & Time
    - 12 or 24 hour format
    - Set time and date
  - Backlight
    - Daytime
    - Night time
    - Sensitivity
  - Unit Selection
  - Home Screen
  - Virtual Button Setup
  - On Scene Screen Setup
  - Configure Video Mode
    - Set Video Contrast
    - Set Video Color
    - Set Video Tint
- Do Not Move
  - The screen will indicate the approximate location and type of item that is open or is not stowed for travel. The actual status of the following devices will be indicated
    - Driver Side Cab Door
    - Passenger's Side Cab Door
    - Driver Side Crew Cab Door
    - Passenger's Side Crew Cab Door
    - Driver Side Body Doors
    - Passenger's Side Body Doors
    - Rear Body Door(s)
    - Ladder Rack (if applicable)
    - Deck Gun (if applicable)
    - Light Tower (if applicable)
    - Hatch Door (if applicable)
    - Stabilizers (if applicable)
    - Steps (if applicable)

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- Notifications
  - View Active Alarms
    - Shows a list of all active alarms including date and time of the occurrence is shown with each alarm
    - Silence Alarms - All alarms are silenced
- Timer Screen
- HVAC (if equipped)
- Tire Information (if equipped)
- Ascendant Set Up Confirmation (if equipped)

Button functions and button labels may change with each screen.

### **COLLISION MITIGATION**

There will be a HAAS Alert®, Model HA5 Responder-to-Vehicle (R2V) collision avoidance system provided on the apparatus. The HA5 cellular transponder module will be installed behind the cab windshield, as high and near to the center as practical, to allow clear visibility to the sky. The module dimensions are 5.40" long x 2.70" wide x 1.30" high, and operating temperature range is -40 degree C to 85 degree C.

The transponder will be connected to the vehicle's emergency master circuit and battery direct power and ground.

While responding with emergency lights on, the HA5 transponder sends alert messages via cellular network to motorists in the vicinity of the responding truck that are equipped with the WAZE app.

While on scene with emergency lights on, the HA5 transponder sends road hazard alerts to motorists in the vicinity of the truck that are equipped with the WAZE app.

The HA5 Responder-to-Vehicle (R2V) collision avoidance system will include the transponder and a 5 year cellular plan subscription.

Activation of the HAAS Alert system requires a representative of the customer to accept the End User License Agreement (EULA) via an on-line portal.

### **VEHICLE DATA RECORDER**

There will be a vehicle data recorder (VDR) capable of reading and storing vehicle information provided.

The information stored on the VDR can be downloaded through a USB port mounted in a convenient location determined by cab model. A USB cable can be used to connect the VDR to a laptop to retrieve required information. The program to download the information from the VDR will be available to download on-line.

The vehicle data recorder will be capable of recording the following data via hardwired and/or CAN inputs:

- Vehicle Speed - MPH

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- Acceleration - MPH/sec
- Deceleration - MPH/sec
- Engine Speed - RPM
- Engine Throttle Position - % of Full Throttle
- ABS Event - On/Off
- Seat Occupied Status - Yes/No by Position
- Seat Belt Buckled Status - Yes/No by Position
- Master Optical Warning Device Switch - On/Off
- Time - 24 Hour Time
- Date - Year/Month/Day

### **Seat Belt Monitoring System**

A seat belt monitoring system (SBMS) will be provided on the Command Zone™ color display and in the center overhead of the cab instrument panel. The SBMS will be capable of monitoring up to 10 seating positions indicating the status of each seat position per the following:

- Seat Occupied & Buckled = Green LED indicator illuminated
- Seat Occupied & Unbuckled = Red LED indicator with audible alarm
- No Occupant & Buckled = Red LED indicator with audible alarm
- No Occupant & Unbuckled = No indicator and no alarm

The seat belt monitoring screen will become active on the Command Zone color display when:

- The home screen is active:
  - and there is any occupant seated but not buckled or any belt buckled with an occupant.
  - and there are no other Do Not Move Apparatus conditions present. As soon as all Do Not Move Apparatus conditions are cleared, the SBMS will be activated.

The SBMS will include an audible alarm that will warn that an unbuckled occupant condition exists and the parking brake is released, or the transmission is not in park.

### **Vehicle Data Recordable Input**

When the VDR is active, the seat belt monitoring system alarm will be silenced through the standard silence alarm switch. The alarm will chirp in intervals to remind the operator that an alarm is still sounding.

### **INTERCOM SYSTEM**

There will be a four (4) position David Clark, Model U3800, intercom system with single radio interface capability at the driver and officer positions and remote radio push to talk buttons located TBD at approval. Two (2) crew cab outboard seats will have intercom only capability.

The following components will be provided:

- One (1) U3805 Radio Cord Junction Module
- Two (2) U3815 Radio interface modules (Driver, Officer)
- Two (2) Remote Push To Talk Button Kits

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- One (1) U3800 Master station (1 Crew)
- One (1) U3801 Remote headset intercom station (1 Crew)
- One (1) C3820 Power cord
- All necessary station cables and connectors

### **RADIO / INTERCOM INTERFACE INCLUDED**

All radio interfaced stations will have universal radio interfaces installed. The interface wiring will be routed within the cab to to emergency radio .

### **OVER THE HEAD HEADSET**

There will be six (6) over the head, headset(s) provided each cab and crew cab seat.

Each David Clark, Model H3432, headset will feature:

- 5' Coiled cord
- Noise cancelling electric microphone
- Flexible microphone boom rotates 200 degrees for left or right dress
- Microphone on/off button
- Comfort Gel Earseals
- 23 dB noise reduction

### **HEADSET HANGERS**

There will be six (6) headset hanger(s) installed driver's seat, officer's seat, driver's side inboard forward facing seat, driver's side outboard rear facing seat, passenger's side inboard forward facing seat and passenger's side outboard rear facing seat. The hanger(s) will meet NFPA 1901, Section 14.1.11, requirement for equipment mounting.

### **BRACKET, JOHNNY RAY**

A Johnny Ray, Model JR-207, radio swivel bracket rated for 14 lbs. will be provided and installed centered on the engine tunnel mounting plate forward for the purpose of installing the CTF radios.

### **PORTABLE RADIO CHARGER INSTALLATION**

There will be four (4) customer supplied portable two-way radio chargers(s) sent to the apparatus manufacturers preferred radio installer to be installed TBD at approval. Specific shipping requirements will be followed.

### **ANTENNA WHIP INSTALLATION**

There will be one (1) customer supplied antenna whip(s) sent to the apparatus manufacturers preferred radio installer to be threaded onto the apparatus manufacturers antenna mounts located TBD at approval.

No tuning (VSWR) will be provided.

Specific shipping requirements will be followed.

**ANTENNA ONLY, GPS**

There will be one (1) Laird/Antenex, Model GPSU15M, low profile 3-5 volt GPS antenna with active ceramic antenna element housed in durable ABS plastic installed onto the NMO mount located crew cab roof. The cable will be routed to: routed to the cab console.

**RADIO ANTENNA MOUNT**

There will be one (1) standard 1.125", 18 thread antenna-mounting base(s) installed on the left side on the cab roof with high efficiency, low loss, coaxial cable(s) routed to the instrument panel area. A weatherproof cap will be installed on the mount.

**RADIO ANTENNA MOUNT**

There will be one (1) Harris, Model AN125001-006, combo antenna mount with GPS element and standard NMO type antenna mounting base installed crew cab roof on the cab roof with coaxial cable(s) routed within the cab/crew area to console.

**RADIO ANTENNA MOUNT**

There will be one (1) Larson, model NMOKHFUDTHK, 0-6000MHz NMO style antenna mounting base(s) with weatherproof cap(s) and 17 feet of RG58A/U dual shield coax located on the cab roof cab roof for the GPS antenna. The cable(s) will be routed center console.

**ELECTRICAL POWER CONTROL SYSTEM**

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.

Distribution centers located throughout the vehicle will contain battery powered studs for supplying customer installed equipment thus providing a lower cost of ownership.

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 Type-I automatic reset (continuously resetting). 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.

**Solid-State Control System**

A solid-state electronics based control system will be utilized to achieve advanced operation and control of the vehicle components. A fully computerized vehicle network will consist of electronic modules, electronic control modules to include black housings, a power indicator and status indicator located near their point of use to reduce harness lengths and improve reliability. The control system will comply with SAE J1939-11 recommended practices.

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The control system will operate as a master-slave system whereas the main control module instructs all other system components. The system will contain patented Mission Critical software that maintains critical vehicle operations in the unlikely event of a main controller error. The system will utilize a Real Time Operating System (RTOS) fully compliant with OSEK/VDX™ specifications providing a lower cost of ownership.

For increased reliability and simplified use the control system modules will include the following attributes:

- Green LED indicator light for module power
- Red LED indicator light for network communication stability status
- Control system self test at activation and continually throughout vehicle operation
- No moving parts due to transistor logic
- Software logic control for NFPA mandated safety interlocks and indicators
- Integrated electrical system load management without additional components
- Integrated electrical load sequencing system without additional components
- Customized control software to the vehicle's configuration
- Factory and field programmable to accommodate changes to the vehicle's operating parameters

To assure long life and operation in a broad range of environmental conditions, the solid-state control system modules will meet the following specifications:

- Module circuit board will meet SAE J771 specifications
- Operating temperature from -40C to +70C
- Storage temperature from -40C to +70C
- Vibration to 50g

IP67 rated enclosure (Totally protected against dust and also protected against the effect of temporary immersion between 15 centimeters and one (1) meter)

Operating voltage from eight (8) volts to 32 volts DC

The main controller will activate status indicators and audible alarms designed to provide warning of problems before they become critical.

### **Circuit Protection and Control Diagram**

Copies of all job-specific, computer network input and output (I/O) connections will be provided with each chassis. The sheets will indicate the function of each module connection point, circuit protection information (where applicable), wire numbers, wire colors and load management information.

### **On-Board Electrical System Diagnostics**

The on-board information center will include the following diagnostic information:

- Text description of active warning or caution alarms
- Simplified warning indicators
- Amber caution indication with intermittent alarm

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- Red warning indication with steady tone alarm

Advanced diagnostic feature will be provided in this control system. From the Command Zone display or connected wireless device, these features allow the user to monitor the real-time status of every input or output on the vehicle. It also allows users logged in as an administrator to force on inputs or outputs to assist the troubleshooting process.

### **TCU Module with WiFi**

An in cab module will provide WiFi wireless interface and data logging capability. The WiFi interface will comply with IEEE 802.11 b/g/n capabilities while communicating at 2.4 Gigahertz. The module will communicate through a white WiFi antenna allowing a line of site communication range of up to 300 feet with a roof mounted antenna.

The module will transmit a password protected web page to a WiFi enabled device (i.e. most smart phones, tablets or laptops) allowing two levels of user interaction. The firefighter level will allow vehicle monitoring of the vehicle and firefighting systems on the apparatus. The technician level will allow diagnostic access to inputs and outputs installed on the Command Zone™, control and information system.

The TCU capability will record faults from the engine, transmission, ABS and Command Zone™, control and information systems as they occur. No other data will be recorded at the time the fault occurs. The data TCU will provide up to 2 Gigabytes of data storage.

The TCU will provide a means to download the TCU information and update software in the device.

### **Indicator Light and Alarm Prove-Out System**

A system will be provided which automatically tests basic indicator lights and alarms located on the cab instrument panel.

### **Voltage Monitor System**

A voltage monitoring system will be provided to indicate the status of the battery system connected to the vehicle's electrical load. The system will provide visual and audible warning when the system voltage is below or above optimum levels.

The alarm will activate if the system falls below 11.8 volts DC for more than two (2) minutes.

### **Dedicated Radio Equipment Connection Points**

There will be three (3) studs provided in the primary power distribution center located in front of the officer for two-way radio equipment. The studs will consist of the following:

- 12-volt 40-amp battery switched power
- 12-volt 60-amp ignition switched power
- 12-volt 60-amp direct battery power

There will also be a 12-volt 100-amp ground stud located in or adjacent to the power distribution center.

### **EMI/RFI Protection**

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 SYSTEM PROGNOSTICS**

There will be a software based vehicle tool provided to predict remaining life of the vehicles critical fluid and events.

The system will send automatic indications to the Command Zone™ information center and/or wireless enabled devices to proactively alert of upcoming service intervals.

Prognostics will include the following:

- Engine oil and filter
- Transmission oil and filter

### **TELEMATICS SYSTEM**

There will be a cellular based vehicle telematics system consisting of a Telematic Control Unit (TCU) with external cellular WiFi and GPS antenna, and access to a web-based user interface portal provided.

The TCU will be fully integrated into the Command Zone™ electrical system. It will monitor the vehicle through the CAN data bus and transmit data through a secure 4G LTE cellular connection, and be provided with a 3 year subscription..

After accepting the end user license agreement, the vehicle administrator will have access to vehicle location information and vehicle data via a secure CZ Connect web-based interface portal.

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The CZ Connect web-based interface will allow users to access vehicle data and configure monitoring tools, providing a global view of the location of each connected asset and a summary of fleet data, which include:

- User defined interval notifications
- User defined fault alerts
- Remote access to Command Zone diagnostics
- Vehicle analytics and activity monitoring
- Vehicle system status

### **ELECTRICAL**

All 12-volt electrical equipment installed by the apparatus manufacturer will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run, in loom or conduit, where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers will be provided which conform to SAE Standards. Wiring will be color, function and number coded. Function and number codes will be continuously imprinted on all wiring harness conductors at 2.00" intervals. 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:

1. 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.
2. 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.
3. Electrical components designed to be removed for maintenance will not be fastened with nuts and bolts. Metal screws will be used in mounting these devices. Also a coil of wire will be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work.
4. Corrosion preventative compound will be applied to all terminal plugs 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).
5. All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area.
6. All electrical terminals in exposed areas will have silicon (1890) applied completely over the metal portion of the terminal.

All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, will be furnished. Rear identification lights will be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads will be protected from damage by installing a false bulkhead inside the rear compartments.

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.

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The results of the tests will be recorded and provided to the purchaser at time of delivery.

### **BATTERY SYSTEM**

There will be six (6) 12 volt Exide®, Model 31S950X3W, batteries that include the following features will be provided:

- 950 CCA, cold cranking amps
- 190 amp reserve capacity
- High cycle
- Group 31
- Rating of 5700 CCA at 0 degrees Fahrenheit
- 1140 minutes of reserve capacity
- Threaded stainless steel studs

Each battery case will be a black polypropylene material with a vertically ribbed container for increased vibration resistance. The cover will be manifold vented with a central venting location to allow a 45 degree tilt capacity.

The inside of each battery will consist of a "maintenance free" grid construction with poly wrapped separators and a flooded epoxy bottom anchoring for maximum vibration resistance.

### **BATTERY SYSTEM**

There will be a single starting system with an ignition switch and starter button provided and located on the cab instrument panel.

### **MASTER BATTERY SWITCH**

There will be a master battery switch provided within the cab within easy reach of the driver to activate the battery system.

An indicator light will be provided on the instrument panel to notify the driver of the status of the battery system.

### **BATTERY COMPARTMENTS**

Batteries will be placed on non-corrosive mats and stored in well ventilated compartments located under the cab.

Heavy-duty, 2/0 gauge, color coded battery cables will be provided. Battery terminal connections will be coated with anti-corrosion compound.

Battery solenoid terminal connections will be encapsulated with semi-permanent rubberized compound.

### **JUMPER STUDS**

One (1) set of battery jumper studs with plastic color-coded covers will be included on the battery compartments.

### **BATTERY CHARGER**

There will be a Kussmaul 1200, Model 091-187-12, battery charger provided.

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The charger will have a maximum output of 40 amps and a fully automatic regulation.

The battery charger will be wired to the AC shoreline inlet.

Battery charger will be located in the cab behind the driver seat

### **AUTO EJECT FOR SHORELINE**

There will be a Kussmaul™, part number 091-55-20-120, 20 amp 120 volt AC shoreline inlet provided to operate the dedicated 120 volt AC circuits on the apparatus.

The inlet will include a Kussmaul part number 091-55-234-XXX\* weatherproof flip up cover with bar graph DC display. The color of the cover will be red.

There will be a release solenoid wired to the vehicle's starter to eject the AC connector when the engine is starting.

The shoreline(s) will be connected to charger, compressor, and all shoreline powered receipts.

There will be a mating connector body supplied with the loose equipment.

There will be a label installed near the inlet(s) that state the following:

- Line Voltage
- Current Rating (amps)
- Phase
- Frequency

The shoreline receptacle will be located on the driver side of cab, above wheel.

### **ALTERNATOR**

A Delco Remy®, Model 55SI, alternator will be provided. It will have a rated output current of 430 amps, as measured by SAE method J56. The alternator will feature an integral regulator and rectifier system that has been tested and qualified to an ambient temperature of 257 degrees Fahrenheit (125 degrees Celsius). The alternator will be connected to the power and ground distribution system with heavy-duty cables sized to carry the full rated alternator output.

### **WIRING CONNECTORS**

There will be a 4 place Deutsch connector installed on the existing wires for all the warning lights.

- One (1) position will be used for the 12 volt power to the light.
- One (1) position will be used for the 12 volt ground to the light.
- One (1) position will be used for the programming wire. This position will include a blank in the female plug for this position.
- One (1) position will include a blank in both male and female plugs.

All the lights will have the plug layouts the same.

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The plugs will be installed with long enough wire so that when the light is removed the plugs are accessible.

### **ELECTRONIC LOAD MANAGER**

An electronic load management (ELM) system will be provided that monitors the vehicles 12-volt electrical system, automatically reducing the electrical load in the event of a low voltage condition, and automatically restoring the shed electrical loads when a low voltage condition expires. This ensures the integrity of the electrical system.

For improved reliability and ease of use, the load manager system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load management tasks. Load management systems which require additional components will not be allowed.

The system will include the following features:

- System voltage monitoring.
- A shed load will remain inactive for a minimum of five minutes to prevent the load from cycling on and off.
- Sixteen available electronic load shedding levels.
- Priority levels can be set for individual outputs.
- High Idle to activate before any electric loads are shed and deactivate with the service brake.
  - If enabled:
    - "Load Man Hi-Idle On" will display on the information center.
    - Hi-Idle will not activate until 30 seconds after engine start up.
- Individual switch "on" indicator to flash when the particular load has been shed.
- The information center indicates system voltage.

The information center, where applicable, includes a "Load Manager" screen indicating the following:

- Load managed items list, with priority levels and item condition.
- Individual load managed item condition:
  - ON = not shed
  - SHED = shed

### **SEQUENCER**

A sequencer will be provided that automatically activates and deactivates vehicle loads in a preset sequence thereby protecting the alternator from power surges. This sequencer operation will allow a gradual increase or decrease in alternator output, rather than loading or dumping the entire 12 volt load to prolong the life of the alternator.

For improved reliability and ease of use, the load sequencing system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load sequencing tasks. Load sequencing systems which require additional components will not be allowed.

Emergency light sequencing will operate in conjunction with the emergency master light switch. When the emergency master switch is activated, the emergency lights will be activated one by one at half-second intervals. Sequenced emergency light switch indicators will flash while waiting for activation.

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When the emergency master switch is deactivated, the sequencer will deactivate the warning light loads in the reverse order.

Sequencing of the following items will also occur, in conjunction with the ignition switch, at half-second intervals:

- Cab Heater and Air Conditioning
- Crew Cab Heater (if applicable)
- Crew Cab Air Conditioning (if applicable)
- Exhaust Fans (if applicable)
- Third Evaporator (if applicable)

### **HEADLIGHTS**

There will be four (4) JW Speaker®, Model 8800, 4" x 6" rectangular LED lights mounted in the front quad style, chrome housing on each side of the cab grille:

- the outside light on each side will contain a part number 055\*\*\*1 low beam module
- the inside light on each side will contain a part number 055\*\*\*1 high beam module
- the headlights to include chrome bezels

The low beam lights will be activated when the headlight switch is on.

The high beam and low beam lights will be activated when the headlight switch and the high beam switch is activated.

### **FRONT DIRECTIONALS**

The front directional's will be Whelen®, Model M62T, 4.31" high x 6.75" wide x 1.37" deep directional lights with amber LEDs. The lens color(s) to be the same as the LEDs. The directional's will be housed in the same common bezel as the front warning light and will be located above the headlights. The housing to be polished and the trim shall be chrome.

The flash pattern of the directional lights will be Steady On (Arrow).

### **INTERMEDIATE LIGHT**

There will be two (2) Weldon, Model 9186-8580-29, amber LED turn signal marker lights furnished, one (1) each side, in the rear fender panel. The light will double as a turn signal and marker light.

### **CAB CLEARANCE/MARKER/ID LIGHTS**

There will be two (2) amber LED lights provided to indicate the presence and overall length of the vehicle in the following locations:

- Two (2) lights with amber LEDs as front side clearance lights will be installed, one (1) on each side above the cab doors.

All other forward facing clearance lights will be included with the visor scene light.

**FRONT CAB SIDE DIRECTIONAL/MARKER LIGHTS**

There will be two (2) Weldon, Model 9186-8580-29, amber LED lights installed front of the cab door, one (1) on each side of the cab.

The lights will activate as marker lights with the headlight switch and directional lights with the corresponding directional circuit.

**REAR CLEARANCE/MARKER/ID LIGHTING**

There will be a three (3) LED light bar used as identification lights located at the rear of the apparatus per the following:

- As close as practical to the vertical centerline
- Centers spaced not less than 6.00" or more than 12.00" apart
- Red in color
- All at the same height

There will be two (2) LED lights installed at the rear of the apparatus used as clearance lights located at the rear of the apparatus per the following:

- To indicate the overall width of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the rear
- All at the same height

There will be two (2) LED lights installed on the side of the apparatus used as marker lights as close to the rear as practical per the following:

- To indicate the overall length of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the side
- All at the same height

There will be two (2) red reflectors located on the rear of the truck facing to the rear. One (1) each side, as far to the outside as practical, at a minimum of 15.00", but no more than 60.00", above the ground.

There will be two (2) red reflectors located on the side of the truck facing to the side. One (1) each side, as far to the rear as practical, at a minimum of 15.00", but no more than 60.00", above the ground.

Per FMVSS 108 and CMVSS 108 requirements.

**REAR FMVSS LIGHTING**

The rear stop/tail and directional lighting included in the rear tail light housing will include the following:

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

- Two (2) Whelen®, Model M62BTT, 4.30" high x 6.70" wide x 1.40" deep brake/tail lights with red LEDs
- Two (2) Whelen, Model M62T, 4.30" high x 6.70" wide x 1.40" deep directional lights with amber LEDs. The directional lights will be set to Steady On (Arrow) flash pattern.
- The lens color(s) to be the same as the LEDs.

There will be two (2) Whelen Model M6BUW, LED backup lights provided in the tail light housing.

### **LICENSE PLATE BRACKET**

There will be one (1) license plate bracket mounted on the rear of the body.

A white LED light will illuminate the license plate. A stainless steel light shield will be provided over the light that will direct illumination downward, preventing white light to the rear.

### **LIGHTING BEZEL**

There will be two (2) Whelen, Model M6FCV4P, four (4) place chromed ABS housings with Pierce logos provided for the rear M6 series stop/tail, directional, back up, scene lights or warning lights.

### **BACK-UP ALARM**

A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse will be provided. The device will sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.

### **CAB PERIMETER SCENE LIGHTS**

There will be four (4) Amdor, Model AY-LB-12HW020, 350 lumens each, 20.00" white LED strip lights provided, one (1) for each cab door.

These lights will be activated automatically when the battery switch is on and the exit doors are opened or by the same means as the body perimeter scene lights.

### **PUMP HOUSE PERIMETER LIGHTS**

There will be two (2) Amdor, Model AY-LB-12HW020, 350 lumens each, 20.00" LED weatherproof strip lights with brackets provided under the pump panel running boards, one (1) each side.

If the combination of options in the vehicle does not permit clearance for a 20.00" light, a 12.00" version of the Amdor light will be installed.

The lights will be controlled by the same means as the body perimeter lights.

### **BODY PERIMETER SCENE LIGHTS**

There will be two (2) Amdor, Model AY-LB-12HW020, 350 lumens, 20.00" long, white LED's, 12 volt DC lights provided at the rear step area of the body, one (1) each side shining to the rear.

The perimeter scene lights will be activated when the parking brake is applied.

### **ENHANCED SOFTWARE FOR PERIMETER LIGHTS**

All perimeter lights and scene lights will be deactivated when the parking brake is released.

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The cab and crew cab perimeter lights will dim after 10 seconds or immediately if the vehicle's transmission is put into gear.

### **STEP LIGHTS**

There will be four (4) white LED, step lights provided. One (1) step light will be provided on each side, on the front compartment face and two (2) step lights at the rear to illuminate the tailboard.

In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light.

These step lights will be actuated when the ignition switch is on and the parking brake is set.

All other steps on the apparatus will be illuminated per the current edition of NFPA 1901.

### **12 VOLT LIGHTING**

There will be a Whelen® Model S72M\*\*, 72.00" long 32,400 lumens DC powered light provided on visor bracket(s) hanging off the front of the cab roof over the windshield. The painted parts of this light assembly to be white.

The light will include the following:

- White scene LEDs
- Two (2) amber LED modules as clearance lights
- Three (3) amber LED modules as identification lights
- Four (4) additional LED modules. The additional additional modules to be four (4) scene light modules with white LEDs.

The clearance and identification LEDs will be activated with the headlight switch.

The scene LEDs will be activated when the battery switch is on and by a switch at the driver's side switch panel is on.

There will be a switch in the cab on the switch panel to control the flashing or spot LED modules.

Amber flashing LED modules will be deactivated when the parking brake is released.

The white scene and flashing LED modules may be load managed when the parking brake is applied.

### **12 VOLT LIGHTING**

There will be one (1) Whelen® Model S16\*M\*, 6,480 lumens 16.00" 12 volt DC light(s) with white LEDs in flood optics provided on the body located, rear centered on crossbar.

The painted parts of this light assembly to be white.

The scene LEDs will be activated by a switch at the driver's side switch panel.

These light(s) may be load managed when the parking brake is applied.

### **12 VOLT LIGHTING**

There will be one (1) Whelen® Model S30M\*\*, 12,960 lumens 30.00" 12 volt DC light(s) with white LEDs provided on the right side of the body located, centered on the body sheet. The painted parts of this light assembly to be white.

The light(s) will include the following:

- Six (6) scene light modules with white LEDs
- Three (3) amber LEDs as marker lights
- Two (2) additional LED modules. The additional modules to be two (2) scene light modules with white LEDs.

The lights will be activated per the following:

- The amber marker lights not activated.
- The scene LEDs will be controlled by a switch at the driver's side switch panel.
- There will be a switch in the cab on the switch panel to control the flashing or spot LED modules.
- The light(s) may be load managed when the parking brake is applied.

### **12 VOLT LIGHTING**

There will be one (1) Whelen® Model S30M\*\*, 12,960 lumens 30.00" 12 volt DC light(s) with white LEDs provided on the left side of the body located, centered on the body sheet. The painted parts of this light assembly to be white.

The light(s) will include the following:

- Six (6) scene light modules with white LEDs
- Three (3) amber LEDs as marker lights
- Two (2) additional LED modules. The additional modules to be two (2) scene light modules with white LEDs.

The lights will be activated per the following:

- The amber marker lights not activated.
- The scene LEDs will be controlled by a switch at the driver's side switch panel.
- There will be a switch in the cab on the switch panel to control the flashing or spot LED modules.
- The light(s) may be load managed when the parking brake is applied.

### **HOSE BED LIGHTS**

There will be white 12 volt DC LED light strips with stainless steel protective cover, provided to light the hose bed area. Hose Bed lights will meet the photometric levels listed in NFPA 1901 for Hose Bed lighting requirements.

- Light strip(s) will be installed along the upper edge of the left side of the hose bed.
- Light strip(s) will be installed along the upper edge of the right side of the hose bed.

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The lights will be activated by a cup switch at the rear of the apparatus no more than 72.00" from the ground.

### **WATER TANK**

Booster tank will have a capacity of 1500 gallons and be constructed of polypropylene plastic by United Plastic Fabricating, Incorporated.

The tank will be designed to achieve a low hose bed. Tank design will be a stepped design with the forward section of the tank higher than the section of the tank that is below the hose bed.

Tank joints and seams will be nitrogen welded inside and out.

Tank will be baffled in accordance with NFPA Bulletin 1901 requirements.

Baffles will have vent openings at both the top and bottom to permit movement of air and water between compartments.

Longitudinal partitions will be constructed of .38" polypropylene plastic and will extend from the bottom of the tank through the top cover to allow for positive welding.

Transverse partitions will extend from 4.00" off the bottom of the tank to the underside of the top cover.

All partitions will interlock and will be welded to the tank bottom and sides.

Tank top will be constructed of .50" polypropylene. It will be recessed .38" and will be welded to the tank sides and the longitudinal partitions.

Tank top will be sufficiently supported to keep it rigid during fast filling conditions.

Construction will include 2.00" polypropylene dowels spaced no more than 30.00" apart and welded to the transverse partitions. Two (2) of the dowels will be drilled and tapped (.50" diameter, 13.00" deep) to accommodate lifting eyes.

A sump that will be sized dependent on the tank to pump plumbing will be provided at the bottom of the water tank.

Sump will include a drain plug and the tank outlet.

Tank will be installed in a fabricated cradle assembly constructed of structural steel.

Sufficient crossmembers will be provided to properly support bottom of tank. Crossmembers will be constructed of steel bar channel or rectangular tubing.

Tank will "float" in cradle to avoid torsional stress caused by chassis frame flexing. Rubber cushions, .50" thick x 3.00" wide, will be placed on all horizontal surfaces that the tank rests on.

Stops or other provision will be provided to prevent an empty tank from bouncing excessively while moving vehicle.

Mounting system will be approved by the tank manufacturer.

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Fill tower will be constructed of .50" polypropylene and will be a minimum of 8.00" wide x 14.00" long.

Fill tower will be furnished with a .25" thick polypropylene screen and a hinged cover.

An overflow pipe, constructed of 4.00" schedule 40 polypropylene, will be installed approximately halfway down the fill tower and extend through the water tank and exit to the rear of the rear axle.

### **SLEEVE, PLUMBING, THROUGH TANK**

Two (2) sleeves will be provided in the water tank for a 3.00" pipe to the rear.

### **WATER TANK RESTRAINT**

A heavy-duty water tank restraint will be provided.

### **DIRECT TANK FILL**

There will be one (1) 2.50" Fireman's Friend Inc., Model FFE 2525 CF8M-F semi-automatic tank fill(s) installed and properly labeled at the rear of the water tank, located left side and installed as high as possible.

A 2.50" (F)NST chrome swivel will be located at the inlet.

A 2.50" chrome plated 30 degree elbow and plug with VLH automatic pressure relieving thread technology will be provided for the tank fill.

### **TANK DUMP**

A 6.00" tank dump will be installed through the rear body panel in the area over the tailboard.

Dump will be gated with a 6.00" butterfly valve located in the rear compartment.

Dump will terminate with 6.00" N.S.T. and have a 6.00" long handle cap.

### **HOSE BED**

The hose bed will be fabricated of 0.125"-5052 aluminum with a nominal 38,000 psi tensile strength.

The hose bed will be as low as practical.

Upper and rear edges of side panels will have a double break for rigidity.

The upper inside area of the beavertails will be covered with brushed stainless steel to prevent damage to painted surface when hose is removed.

Flooring of the hose bed will be removable aluminum grating with the top surface corrugated to aid in hose aeration. The grating slats will be a minimum of 0.50" x 4.50" with spacing between slats for hose ventilation.

A cross divider will be provided at the front of the hose bed before the tank transitions from the lower section to the upper section. The divider will run from the top of the side sheet down below the hose bed grating.

The hose bed interior walls will be painted to match the lower body color.

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Hose bed will accommodate 300' of 2.5" ~ 500' of 3" ~ 1,000' of 4".

### **HOSE BED DIVIDER**

Two (2) hosebed dividers will be furnished for separating hose.

Each divider will be constructed of a .25" brushed aluminum sheet.

Partition will be fully adjustable by sliding in tracks, located at the front and rear of the hose bed.

The rear of the divider will be supplied with a 45 degree angle from the top of the divider.

Divider will be held in place by tightening two (2) bolts, one (1) at each end.

Acorn nuts will be installed on all bolts in the hose bed which have exposed threads.

Flat surfaces will be sanded for uniform appearance or constructed of brushed aluminum.

### **CROSS TUBE REINFORCEMENT, HOSE BED**

There will be one (1) 2.00" x 3.00" square cross tube mounted very rear of the hose bed above the hosebed. Reinforcement for the cross tube will be provided on each side sheet to support the tube.

### **PULL BAR AND STRAP**

A quantity of one (1) pull bar(s) with a 1.00" wide red pull strap will be provided rear hose bed hose restraint. A pull bar will be provided to connect connected to all four seat belt buckles allowing one strap to release multiple latches.

### **HOSEBED RESTRAINT REAR**

The hose in the hosebed will be restrained by 2.00" black nylon webbing with a 1.50" x 4.00" box pattern. The webbing will be attached to the top hosebed frame with four (4) seat belt fasteners. The seat belt fasteners will be mounted with the receiver portion on a bracket at the top, two each side. Web straps will loop through the footman loops located on the rear body sheet below the hosebed. The straps will be connected permanently at the bottom.

An aluminum treadplate floor will be bolted to the top of the taller portion of the water tank.

### **PLATFORM/WIND DEFLECTOR**

A bright aluminum treadplate platform will be provided at the front of the hose bed. The platform will be approximately 24.00" deep x the width of the hose bed and will be hinged at the front. The deflector will be held in the open position with two (2) gas struts. A flush mount style latch will be provided at each side to secure the platform. This platform will be properly reinforced to support the weight of firefighters.

Swell latches will be provided at the outboard rearward corners.

### **RUNNING BOARDS**

Running boards will be fabricated of .125" bright aluminum treadplate.

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Each running board will be supported by a welded 2.00" square tubing and channel assembly, which will be bolted to the pump compartment substructure.

Running boards will be 12.75" deep and spaced .50" away from the pump panel.

A splash guard will be provided above the running board treadplate.

### **TAILBOARD**

The tailboard will also be constructed of .125" bright aluminum treadplate and spaced .50" from the body, as well as supported by a structural steel assembly.

The tailboard area will be 12.00" deep and full width of the body. The outboard sides of the tailboard will be angled at 45 degrees beginning at the point where the body meets the tailboard at the outboard edge angling rearward to the rear edge of the tailboard.

The exterior side will be flanged down and in for increased rigidity of tailboard structure.

### **REAR WALL, SMOOTH ALUMINUM/BODY MATERIAL**

The rear facing surfaces of the center rear wall will be smooth aluminum.

The bulkheads, the surface to the rear of the side body compartments, will be smooth and the same material as the body.

The rear wall will be flush.

### **REAR TOW EYES**

Two (2) tow eyes, which are an integral part of the body mounting substructure, will be installed below the rear of the truck.

The tow eyes will be of adequate strength to allow the truck to be pulled from the eyes.

### **REAR TOW BAR**

One (1) tow bar will be installed under the tailboard, 3.00" forward from the rear of the tailboard. With air ride suspension and a 65 gallon fuel tank, the tow bar will be located .50" further rearward than normal when there is this combination of options.

The tow bar assembly will be designed and positioned to allow up to a 30-degree upward angled pull of 17,000 lb, or a 20,000 lb straight horizontal pull in line with the centerline of the vehicle.

The tow bar design will have been tested and evaluated using finite element analysis techniques.

### **COMPARTMENTATION**

Body and compartments will be fabricated of 0.125", 5052-H32 aluminum.

Side compartments will be an integral assembly with the rear fenders.

Circular fender liners will be provided for prevention of rust pockets and ease of maintenance.

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Side compartment flooring will be of the sweep out design with the floor higher than the compartment door lip.

The side compartment door opening will be framed by flanging the edges in 1.75" and bending out again 0.75" to form an angle.

Drip protection will be provided above the doors by means of bright aluminum extrusion, formed bright aluminum treadplate or polished stainless steel.

The top of the compartment will be covered with bright aluminum treadplate rolled over the edges on the front, rear and outward side. These covers will have the corners welded.

Side compartment covers will be separate from the compartment tops.

Front facing compartment walls will be covered with bright aluminum treadplate.

All screws and bolts which protrude into a compartment will have acorn nuts on the ends to prevent injury.

### **UNDERBODY SUPPORT SYSTEM**

Due to the severe loading requirements of this pumper a method of body and compartment support suitable for the intended load will be provided.

The backbone of the support system will be the chassis frame rails which is the strongest component of the chassis and is designed for sustaining maximum loads.

Forward to the rear axle, the support system will include "L"-shaped support members bolted to the chassis frame rails. These welded support members will include vertical formed channels, horizontal structural channels, and support gussets. These parts extend from the chassis frame outward underneath the body.

Rearward to the rear axle, the body support system will include two rearward facing "L"-shaped support members bolted to the chassis frame rails. These support members will be connected to the two body supporting crossmembers forming a boxed foundation for the rear body support system.

Steel upper platform decks will be mounted on the top of these support members to create a floating substructure which will result in a 500 lb equipment support rating per lower compartment.

All structural components of this system will be made from high strength 50K steel plate material or structural steel componentry. The steel frames as well as the steel vertical angles will be treated with an epoxy E-coat to provide resistance to corrosion and chemicals as standard.

The floating substructure will be separated from the horizontal members with neoprene elastomer isolators. These isolators will reduce the natural flex stress of the chassis from being transmitted to the body.

Isolators will have a broad load range, proven viability in vehicular applications, be of a fail-safe design and allow for all necessary movement in three (3) transitional and rotational modes.

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The neoprene isolators will be installed in a pattern which assimilates a three (3)-point mounting pattern to reduce the natural flex of the chassis being transmitted to the body.

A design with body compartments hanging on the chassis in an unsupported fashion will not be acceptable.

### **AGGRESSIVE WALKING SURFACE**

All exterior surfaces designated as stepping, standing, and walking areas will comply with the required average slip resistance of the current NFPA standards.

### **LOUVERS**

Louvers will be stamped into compartment walls to provide the proper airflow inside the body compartments and to prevent water from dripping into the compartment. Where these louvers are provided, they will be formed into the metal and not added to the compartment as a separate plate.

### **TESTING OF BODY DESIGN**

Body structural analysis will be fully tested. Proven engineering and test techniques such as finite element analysis, strain gauging, and model analysis will be performed with special attention given to fatigue, life and structural integrity of the body and substructure.

Body will be tested while loaded to its greatest in-service weight.

The criteria used during the testing procedure will include:

- Raising opposite corners of the vehicle tires 9.00" to simulate the twisting a truck may experience when driving over a curb.
- Making a 90 degree turn, while driving at 20 mph to simulate aggressive driving conditions.
- Driving the vehicle at 35 mph on a washboard road.
- Driving the vehicle at 55 mph on a smooth road.
- Accelerating the vehicle fully, until reaching the approximate speed of 45 mph on rough pavement.

Evidence of actual testing techniques will be made available upon request.

### **LEFT SIDE COMPARTMENTATION**

The left side compartmentation will consist of three lap door compartments.

A full height, vertically hinged, double door compartment ahead of the rear wheels will be provided. The interior dimensions of this compartment will be 54.00" wide x 66.63" high x 25.88" deep in the lower 25.00" of the compartment and 12.00" deep in the remaining upper portion. The clear door opening will be a minimum of 47.00" wide x 61.88" high.

A horizontally hinged, single lift-up door compartment over the rear wheels will be provided. The interior dimensions of this compartment will be 66.50" wide x 32.88" high x 12.00" deep. The clear door opening will be a minimum of 59.25" wide x 27.00" high.

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A full height, vertically hinged, double door compartment behind the rear wheels will be provided. The interior dimensions of this compartment will be 47.75" wide x 67.63" high x 25.88" deep in the lower 26.00" of the compartment and 12.00" deep in the remaining upper portion. The clear door opening will be a minimum of 43.50" wide x 62.88" high.

The interior height of the compartments will be measured from the compartment floor to the ceiling. The depth of the compartments will be measured from the back wall to the inside of the door frame.

Closing of the doors will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand.

The vertically hinged doors will be furnished with a positive door holder.

The lift-up door will be furnished with two gas-charged cylinders to assist in the opening of the door and to maintain the door in an open position. There will be a field adjustable, three-position bracket mounted on the vertical side door opening that will allow the door to be held open at 87°, 90°, or 93°.

### **RIGHT SIDE COMPARTMENTATION**

The right side compartmentation will consist of two lap door compartments.

A vertically hinged, double door compartment ahead of the rear wheels will be provided. The interior dimensions of this compartment will be 54.00" wide x 32.63" high x 25.88" deep in the lower 25.00" of the compartment and 12.00" deep in the remaining upper portion. The clear door opening will be a minimum of 47.00" wide x 27.88" high.

A vertically hinged, double door compartment behind the rear wheels will be provided. The interior dimensions of this compartment will be 47.75" wide x 33.63" high x 25.88" deep in the lower 26.00" of the compartment and 12.00" deep in the remaining upper portion. The clear door opening will be a minimum of 43.50" wide x 28.88" high.

The interior height of the compartments will be measured from the compartment floor to the ceiling. The depth of the compartments will be measured from the back wall to the inside of the door frame.

Closing of the door will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand. A positive door holder will be furnished with this compartment.

### **SIDE COMPARTMENT DOORS**

All hinged compartment doors will be lap style with double panel construction and will be a minimum of 1.50" thick. The doors will be made out of the same material as the body. To provide additional door strength a "C" section reinforcement will be installed between the outer and interior panels.

Doors will be provided with a closed cell rubber gasket around the surface that laps onto the body. A second heavy-duty automotive rubber molding with a hollow core will be installed on the door framing that seals onto the interior panel, to ensure a weather resisting compartment.

All compartment doors will have polished stainless steel continuous hinge with a pin diameter of .25" that is bolted or screwed on with stainless steel fasteners. (Hinges which are welded on will not be acceptable.)

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

All door locking mechanisms will be fully enclosed within the door panels to prevent fouling of the lock in the event equipment inside shifts into the lock area.

Doors will be latched with recessed, polished stainless steel "D" ring handles and FMVSS approved door locking mechanisms.

To prevent corrosion caused by dissimilar metals, compartment door handles will not be attached to outer door panel with screws. A rubber gasket will be provided between the "D" ring handle and the door.

### **REAR COMPARTMENTATION**

A tool compartment will be provided at the rear of the apparatus. The compartment will be 26.00" wide x 12.00" high x 25.88" deep.

### **REAR COMPARTMENT DOOR**

A drop-down door constructed of smooth aluminum with a D-ring latch will be provided.

### **LIFTUP DOOR PULL STRAPS**

one (1) compartment door will be provided with pull straps. The pull straps will be 10.00" long and black in color.

The straps will be installed directly to the inside of the liftup door.

The liftup door compartments to have these straps will be LS2.

### **SCUFFPLATE ON INTERIOR OF COMPARTMENT DOOR(S)**

The nine (9) compartment doors will include a polished stainless steel scuffplate to cover the entire width and height on the inside panel of each door pan.

Scuffplate will be located each body compt door.

### **COMPARTMENT LIGHTING**

There will be five (5) compartments with Amdor, Model AY-9220, white 12 volt DC LED compartment light strips. The lights will be mounted with mechanical fasteners.

There will be two (2) strip lights installed vertically in each compartment opening per the latest NFPA requirements.

The lights will be activated when the battery switch is on and the respective compartment door is opened.

### **MOUNTING TRACKS**

There will be five (5) sets of tracks for mounting shelf(s) in LS1, LS2, LS3, RS1 and RS2. These tracks will be installed vertically to support the adjustable shelf(s), and will be full height of the compartment. The tracks will be painted to match the compartment interior.

### **ADJUSTABLE SHELVES**

There will be four (4) shelves with a capacity of 500 lb provided.

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The shelf construction will consist of .188" aluminum painted spatter gray with 2.00" sides.

Each shelf will be infinitely adjustable by means of a threaded fastener, which slides in a track.

The shelves will be held in place by .12" thick stamped plated brackets and bolts.

The location(s) will be determined at a later date.

### **SLIDE-OUT FLOOR MOUNTED TRAY**

There will be one (1) floor mounted slide-out tray(s) provided.

Each tray will have 2.00" high sides and a minimum capacity rating of 500 lb in the extended position.

Each tray will be constructed of aluminum painted spatter gray

There will be two undermount-roller bearing type slides rated at 250lb each provided. The pair of slides will have a safety factor rating of 2.

To ensure years of dependable service, the slides will be coated with a finish that is tested to withstand a minimum of 1,000 hours of salt spray per ASTM B117.

To ensure years of easy operation, the slides will require no more than a 50lb force for push-in or pull-out movement when fully loaded after having been subjected to a 40 hour vibration (shaker) test under full load. The vibration drive file will have been generated from accelerometer data collected from a heavy truck chassis driven over rough gravel roads in an unloaded condition. Proof of compliance will be provided upon request.

Automatic locks will be provided for both the "in" and "out" positions. The trip mechanism for the locks will be located at the front of the tray for ease of use with a gloved hand.

The location(s) will be LS3.

### **TOOL DRAWERS**

Two (2) slide out drawers will be installed. The drawers will be provided with 215lb ball bearing slides. The drawers will be configured vertically in a cabinet constructed of .125" aluminum and finished to match the body compartment interior.

Automatic locks will be provided for both the "in" and "out" positions. The trip mechanism will be located at the front of the drawer for ease of use with a gloved hand. A chrome metal handle will be supplied on each drawer.

The drawers will be 23.00" deep and extend the full width of the mounting location. The height of the drawers will be 30" W x height of lower full depth. The drawers will be built with .12" thick aluminum.

A total of one (1) will be provided LS3 forward.

### **SWING OUT TOOLBOARD**

A swing out aluminum toolboard will be provided.

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It will be a minimum of .188" thick with .203" diameter holes in a pegboard pattern with 1.00" centers between holes.

A 1.00" x 1.00" aluminum tube frame will be welded to the edge of the pegboard.

The board will be mounted on a pivoting device at the front of the compartment on the top and bottom to allow easy movement in and out of the compartment. The maximum tool load will be 400 pounds.

The board will have positive lock in the stowed and extended position.

The board will be mounted stationary within the compartment.

There will be One (1) toolboard(s) provided. The toolboard(s) will be spatter gray painted and installed LS2.

### **PORTABLE TANK COMPARTMENT**

A compartment for storage of a portable tank will be provided between the water tank and the RS side body compartments. Within this compartment will be a rack constructed with stainless steel slides.

The compartment storage area will be enclosed as practical by means of sheet metal to protect the portable tank from road dirt.

The compartment will be sized for a Fold-A-Tank brand of portable tank with a capacity of 1,500 alum frame gallons and dimensions of 10'3"x8"x29". A vertically hinged door constructed of smooth aluminum will be provided at the rear. The door will be hinged along the outboard edge and have a D-handle latch.

### **TREADPLATE TRAY**

There will be a quantity of one (1) bright aluminum treadplate box(es) provided on top of the right side compartmentation. The tray will be approximately 171.00" long. The inboard wall of the tray will be approximately 8.00" high. The outboard wall of the tray will be approximately 1.00" high with sides that angle in height. The tray will have eight (8) velcro straps provided spaced evenly front to back. Aluminum grating slats will be provided on the floor of the tray with spacing provided for aeration. Drain holes will be provided.

The inboard wall of the tray will be notched 3.00" allowing the ladder brackets to be lowered tight to the catwalk.

### **EQUIPMENT MOUNTING SYSTEM**

Pac Trac equipment mounting system will be installed on the back wall of one (1) compartment(s), LS2.

### **RUB RAIL**

Bottom edge of the side compartments will be trimmed with a bright aluminum extruded rub rail.

Trim will be 2.12" high with 1.38" flanges turned outward for rigidity.

The rub rails will not be an integral part of the body construction, which allows replacement in the event of damage.

### **BODY FENDER CROWNS**

Polished stainless steel fender crowns will be provided around the rear wheel openings with a dielectric barrier will be provided between the fender crown and the fender sheet metal to prevent corrosion. These fender crowns must be wide enough to prevent splashing onto the body from the specified tires.

The fender crowns will be held in place with stainless steel screws that thread directly into a composite nut and not directly into the parent body sheet metal to eliminate dissimilar metals contact and greatly reduce the chance for corrosion. Rubber welting will be provided between the body and crown.

### **BODY FENDER LINER**

A painted to match the lower body color fender liner will be provided. The liners will be removable to aid in the maintenance of rear suspension components.

### **HARD SUCTION HOSE PROVIDED BY DEALER**

NFPA 1901, 2016 edition, section 5.8.2 requires a minimum of 20 ft of suction hose or 15 ft of supply hose.

Hose is not on the apparatus as manufactured. The dealer will provide suction or supply hose.

There will be Two (2) lengths of 10' long x6.00" diameter hose provided and equipped with a LH female and rocker lug male couplings provided on the ends. The brand will be All American.

### **HOSE TROUGH**

A quantity of one (1) hard suction hose trough(s) will be compartment top mounted on a bracket, located on the left side.

Trough(s) will be constructed of aluminum painted job color.

The hose(s) will be held in place by chrome plated, quarter turn, spring loaded clamps.

### **HOSE TROUGH**

A quantity of one (1), hard suction hose trough(s) will be side sheet mounted on an adjustable bracket, located on the right side above the ladders.

Trough(s) will be constructed of aluminum painted job color.

The hose(s) will be held in place by chrome plated, quarter turn, spring loaded clamps.

### **HANDRAILS**

The handrails will be 1.25" diameter knurled aluminum to provide a positive gripping surface.

Chrome plated end stanchions will support the handrail. Plastic gaskets will be used between end stanchions and any painted surfaces.

Drain holes will be provided in the bottom of all vertically mounted handrails.

Handrails will be provided to meet NFPA 1901 section 15.8 requirements. The handrails will be installed as noted on the sales drawing.

### **HANDRAILS**

One (1) vertical handrail will be located on each rear beavertail.

- One (1) handrail will be installed below the hose bed.

### **AIR PACK STORAGE**

A total of two (2) air pack compartment(s) will be provided and located RS forward and rearward. The air pack compartment(s) will be tapered to match the profile of the space available in the fender. The compartment(s) will be approximately 15.50" wide at the top and 5.00" wide at the bottom for the wheel cutout. The compartment(s) will be 15.50" tall at the body side compartment and 6.00" tall at the wheel cutout. The compartment(s) will be 26.00" deep and have a drain hole.

Inside the compartment, black rubber matting will be provided.

A polished stainless steel hinged door with a flush Southco C2 chrome latch will be provided to contain the air pack. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal.

### **AIR BOTTLE STORAGE (SINGLE)**

A quantity of one air bottle compartment, approximately 7.50" wide x 7.50" tall x 26.00" deep, will be provided on the driver side rearward of the rear wheels. The triangular door will cover the air bottle opening, the DEF tank access, and fuel fill. The compartment will be square with angled corners. A polished stainless steel door with a flush Southco C2 chrome latch will be provided to contain the air bottle. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal.

Inside the compartment, black rubber matting will be provided.

### **AIR BOTTLE COMPARTMENT STRAP**

A strap will be provided in the air bottle compartment to help contain the air bottle when the vehicle is parked on an incline. The strap will wrap around the neck and attach to the wall of the compartment.

### **AIR BOTTLE STORAGE (TRIPLE)**

A quantity of one (1) air bottle compartment designed to hold (3) air bottles up to 7.25" in diameter x 26.00" deep will be provided on the left side forward of the rear wheels. A polished stainless steel door with a flush Southco C2 chrome latch will be provided to contain the air bottle. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal.

Inside the compartment, black rubber matting will be provided.

### **AIR BOTTLE COMPARTMENT STRAP**

A strap will be provided in the air bottle compartment(s) to help contain the air bottles when the vehicle is parked on an incline. The strap will wrap around the neck and attach to the wall of the compartment.

### **EXTENSION LADDER**

There will be a 24' two-section aluminum Duo-Safety Series 900-A extension ladder provided.

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### **ROOF LADDER**

There will be one (1) 14' aluminum, Duo-Safety, Series 775-DR roof ladder(s) provided. The ladder(s) will have roof hooks on both ends.

### **LADDER BRACKETS**

The ladders will be installed on the right side of the hose body in lined brackets and held in place by chrome plated, quarter-turn spring loaded clamps. The clamps will be such that when the roof ladder is removed, the clamps can be moved a half turn to hold the extension ladder in place. The ladder brackets will be adjustable up and down.

### **FOLDING LADDER**

One (1) 10.00' aluminum, Series 585-A, Duo-Safety folding ladder will be installed.

### **FOLDING LADDER STORAGE**

One (1) folding ladder will be stored behind the ladders on the side sheet, in a stainless steel box-shaped trough.

### **10' PIKE POLE**

There will be One (1) pike pole pike pole(s) Fire Hooks Unlimited, model APH-10, ten (10)-feet long with a fiberglass handle provided and located RS inboard of the ladders.

### **8' PIKE POLE**

There will be one (1) Fire Hooks Unlimited RH-8, New York Roof hook(s) with an 8' long fiberglass pole and chisel end provided.

### **PIKE POLE STORAGE**

There will be One (1) pike pole 8' or longer pike pole(s) with a 1.38" notch, to accommodate a New York style pike polepainted aluminum located behind the ladders on right side

### **6 FT PIKE POLE**

There will be one (1) Fire Hooks Unlimited NY roof hook RH-6, 6 foot pike pole(s) with steel handles and pry end provided PS inboard of ladders low.

### **PIKE POLE STORAGE**

There will be One (1) pike pole 6' pike pole(s) with a 1.38" notch, to accommodate a New York style pike pole stored in painted aluminum tube(s) located behind the ladders on right side

### **PIKE POLE STORAGE**

Aluminum tubing will be used for the storage of one (1) pike pole and will be located RS inboard of ladders. If the head of a pike pole can come in contact with a painted surface, a stainless steel scuffplate will be provided. The pike pole tube will be notched to allow a New York style pike pole to fit into the tube.

### **FOLDING STEPS FRONT OF BODY**

Folding steps will be provided full height on the left side body compartments to provide access to the cargo bed. Steps will be spaced evenly on the sales drawing. Actual quantity may vary due to pump panel interferences but will meet the NFPA required maximum stepping height.

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The Trident steps will be bright finished, non-skid with a luminescent tread coating, that is rechargeable from any light source and can hold a charge for up to 24 hours, on the stepping surface.

The step will incorporate an LED light to illuminate the stepping surface.

The steps can be used as a hand hold with two openings wide enough for a gloved hand.

### **REAR FOLDING STEPS**

Bright finished, non-skid folding steps with a black tread coating on the stepping surface will be provided at the rear. Each step will incorporate an LED light to illuminate the stepping surface. The steps can be used as a hand hold with two openings wide enough for a gloved hand.

### **PUMP COMPARTMENT**

The pump compartment will be separate from the hose body and compartments so that each may flex independently of the other. The pump compartment will be constructed of the same material as the body compartmentation.

The pump compartment substructure will be a fabricated assembly of steel tubing, angles and channels which supports both the fire pump and the side running boards.

The pump compartment will be mounted on the chassis frame rails with rubber biscuits in a four point pattern to allow for chassis frame twist.

Pump compartment, pump, plumbing and gauge panels will be removable from the chassis in a single assembly.

### **PUMP MOUNTING**

Pump will be mounted to a substructure which will be mounted to the chassis frame rail using rubber isolators. The mounting will allow chassis frame rails to flex independently without damage to the fire pump.

### **LEFT SIDE PUMP CONTROL PANELS**

All pump controls and gauges will be located at the left side of the apparatus and properly identified.

Layout of the pump control panel will be ergonomically efficient and systematically organized.

The pump operator's control panel will be removable in two (2) main sections for ease of maintenance:

The upper section will contain sub panels for the mounting of the pump pressure control device, engine monitoring gauges, electrical switches, and foam controls (if applicable). Sub panels will be removable from the face of the pump panel for ease of maintenance. Below the sub panels will be located all valve controls and line pressure gauges.

The lower section of the panel will contain all inlets, outlets, and drains.

All push/pull valve controls will have 1/4 turn locking control rods with polished chrome plated zinc tee handles. Guides for the push/pull control rods will be chrome plated zinc castings securely mounted to the pump panel. Push/pull valve controls will be capable of locking in any position. The control rods will pull straight out of the panel and will be equipped with universal joints to eliminate binding.

### **IDENTIFICATION TAGS**

The identification tag for each valve control will be recessed in the face of the tee handle.

All discharge outlets will have color coded identification tags, with each discharge having its own unique color. Color coding will include the labeling of the outlet and the drain for each corresponding discharge.

All line pressure gauges will be mounted directly above the corresponding discharge control tee handles and recessed within the same chrome plated casting as the rod guide for quick identification. The gauge and rod guide casting will be removable from the face of the pump panel for ease of maintenance. The casting will be color coded to correspond with the discharge identification tag.

All remaining identification tags will be mounted on the pump panel in chrome plated bezels.

The pump panel on the right side will be removable with lift and turn type fasteners.

Trim rings will be installed around all inlets and outlets.

The trim rings for the side discharge outlets will be color coded and labeled to correspond with the discharge identification tag.

### **PUMP**

Pump will be a Waterous CSU, 1500 gpm single (1) stage midship mounted centrifugal type.

Pump will be the class "A" type.

Pump will deliver the percentage of rated discharge at pressures indicated below:

- 100% of rated capacity at 150 psi net pump pressure.

- 70% of rated capacity at 200 psi net pump pressure.

- 50% of rated capacity at 250 psi net pump pressure.

Pump body will be close-grained gray iron, bronze fitted, and horizontally split in two (2) sections for easy removal of the entire impeller shaft assembly (including wear rings).

Pump will be designed for complete servicing from the bottom of the truck, without disturbing the pump setting or apparatus piping.

Pump case halves will be bolted together on a single horizontal face to minimize chance of leakage and facilitate ease of reassembly. No end flanges will be used.

Discharge manifold of the pump will be cast as an integral part of the pump body assembly and will provide a minimum of three (3) 3.50" openings for flexibility in providing various discharge outlets for maximum efficiency.

The three (3) 3.50" openings will be located as follows: one (1) outlet to the right of the pump, one (1) outlet to the left of the pump, and one (1) outlet directly on top of the discharge manifold.

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Impeller shaft will be stainless steel, accurately ground to size. It will be supported at each end by sealed, anti-friction ball bearings for rigid precise support. Impeller will have flame plated hubs assuring maximum pump life and efficiency despite any presence of abrasive matter in the water supply.

Bearings will be protected from water and sediment by suitable stuffing boxes, flinger rings, and oil seals. No special or sleeve type bearings will be used.

Pump will be equipped with a self-adjusting, maintenance-free, mechanical shaft seal.

The mechanical seal will consist of a flat, highly polished, spring fed carbon ring that rotates with the impeller shaft. The carbon ring will press against a highly polished stainless steel stationary ring that is sealed within the pump body.

In addition, a throttling ring will be pressed into the steel chamber cover, providing a very small clearance around the rotating shaft in the event of a mechanical seal failure. The pump performance will not deteriorate, nor will the pump lose prime, while drafting if the seal fails during pump operation.

Wear rings will be bronze and easily replaceable to restore original pump efficiency and eliminate the need to replace the entire pump casing due to wear.

### **PUMP TRANSMISSION**

The pump transmission will be made of a three (3) piece, aluminum, horizontally split casing. Power transfer to pump will be through a high strength Morse HY-VO silent drive chain. By the use of a chain rather than gears, 50% of the sprocket will be accepting or transmitting torque, compared to two (2) or three (3) teeth doing all the work.

Drive shafts will be 2.35" diameter hardened and ground alloy steel and supported by ball bearings. The case will be designed to eliminate the need for water cooling.

### **PUMPING MODE**

An interlock system will be provided to ensure that the pump drive system components are properly engaged so that the apparatus can be safely operated. The interlock system will be designed to allow stationary pumping only.

### **AIR PUMP SHIFT**

Pump shift engagement will be made by a two (2) position sliding collar, actuated pneumatically (by air pressure), with a three (3) position air control switch located in the cab. A manual back-up shift control will also be located on the left side pump panel.

Two (2) indicator lights will be provided adjacent to the pump shift inside the cab. One (1) green light will indicate the pump shift has been completed and be labeled "pump engaged". The second green light will indicate when the pump has been engaged, and that the chassis transmission is in pump gear. This indicator light will be labeled "OK to pump".

The pump shift will be interlocked to prevent the pump from being shifted out of gear when the chassis transmission is in gear to meet NFPA requirements.

The pump shift control in the cab will be illuminated to meet NFPA requirements.

### **TRANSMISSION LOCK-UP**

The direct gear transmission lock-up for the fire pump operation will engage automatically when the pump shift control in the cab is activated.

### **AUXILIARY COOLING SYSTEM**

A supplementary heat exchange cooling system will be provided to allow the use of water from the discharge side of the pump for cooling the engine water. The heat exchanger will be a separate unit. It will be installed in the pump or engine compartment with the control located on the pump operator's control panel. The exchanger will be plumbed to the master drain valve.

### **INTAKE RELIEF VALVE - PUMP**

A Class I relief valve will be installed on the suction side of the pump preset at 125 psig.

The relief valve will have a working range of 75 psig to 285 psig.

The outlet will terminate below the frame rails with a 2.50" National Standard hose thread adapter and will have a "do not cap" warning tag.

The relief valve pressure control will be located behind an access door at the right side pump panel.

### **PRESSURE CONTROLLER**

A Fire Research, TOTAL CONTROL Model TCA100 series of pressure governor will be provided.

A pressure transducer will be installed in the water discharge manifold on the pump.

The display panel will be located at the pump operator's panel.

### **PRIMING PUMP**

The priming pump will be a Trident Emergency Products compressed air powered, high efficiency, multistage venturi based AirPrime System, conforming to standards outlined in the current edition of NFPA 1901.

All wetted metallic parts of the priming system are to be of brass and stainless steel construction.

One (1) priming control will open the priming valve and start the pump primer.

### **THERMAL RELIEF VALVE**

A Hale TRV120-L thermal protection device will be included on the pump that monitors pump water temperature and opens to relieve water to cool the pump when the temperature of the pump water exceeds 120 Degrees F (49 C).

The thermal protection device will include a red warning light and audible alarm. The warning light with a test switch will be mounted on the pump operator panel.

The discharge line will be 3/8 inch diameter tubing plumbed to ground.

### **PUMP MANUALS**

There will be a total of two (2) pump manuals provided by the pump manufacturer and furnished with the apparatus. The manuals will be provided by the pump manufacturer in the form of two (2) electronic copies. Each manual will cover pump operation, maintenance, and parts.

### **PLUMBING, STAINLESS STEEL AND HOSE**

All inlet and outlet lines will be plumbed with either stainless steel pipe, flexible polypropylene tubing or synthetic rubber hose reinforced with hi-tensile polyester braid. All hose's will be equipped with brass or stainless steel couplings. All stainless steel hard plumbing will be a minimum of a schedule 10 wall thickness.

Where vibration or chassis flexing may damage or loosen piping or where a coupling is required for servicing, the piping will be equipped with victaulic or rubber couplings.

Plumbing manifold bodies will be ductile cast iron or stainless steel.

All piping lines are to be drained through a master drain valve or will be equipped with individual drain valves. All drain lines will be extended with a hose to drain below the chassis frame.

All water carrying gauge lines will be of flexible polypropylene tubing.

All piping, hose and fittings will have a minimum of a 500 PSI hydrodynamic pressure rating.

### **MAIN PUMP INLETS**

A 6.00" pump manifold inlet will be provided on each side of the vehicle. The suction inlets will include removable die cast zinc screens that are designed to provide cathodic protection for the pump, thus reducing corrosion in the pump.

### **MAIN PUMP INLET CAP**

The main pump inlets will have National Standard Threads with a long handle chrome cap.

The cap will be the Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

### **VALVES**

All 2.50" discharge valves will be Waterous brand.

All 2.50" Waterous valves will be Waterous full flow valves.

The Waterous valves will have a solid bronze ball that is chromium plated for a hard, durable surface. The spring loaded floating seal assembly requires no adjustment yet provides a tight seal against both pressure and vacuum pressures.

The side inlet pony suction valves will be Akron valves.

The location of the valve for the one (1) inlet will be recessed behind the pump panel.

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### **INLET CONTROL**

The side auxiliary inlet(s) will incorporate a quarter-turn ball valve with the control located at the inlet valve. The valve operating mechanism will indicate the position of the valve.

### **LEFT SIDE INLET**

There will be one (1) auxiliary inlet with a 2.50" valve at the left side pump panel, terminating with a 2.50" (F) National Standard hose thread adapter.

The auxiliary inlet will be provided with a strainer, chrome swivel and plug.

### **FRONT INLET**

A 6.00" inlet front inlet that terminates on top of the right side bumper extension will be provided.

The plumbing will consist of 5.00" stainless steel and a 5.00" Jamesbury butterfly valve . Only radius elbows will be used in the piping, no mitered joints.

Drains will be furnished in all the low points of piping and have .75" valves with T swing handle.

There will be one (1) bleeder valve near the front inlet valve control.

Die cast zinc screens will be provided at the front inlet connection.

### **FRONT INLET CONTROL**

The front inlet will be gated and controlled with an Elkhart Apex electric valve controller provided on the pump operators panel. The electric control must be of a true position feedback design, requiring no clutches in the motor or current limiting. The controller will have momentary open, close as well as programmable preset valve positions. The controller will provide position indication on a full color, backlit LCD display. It will have manual adjustment of the brightness as well as an auto dimming option.

A manual override with a small chrome handwheel will be provided directly on the valve. A stainless steel door located on the right side pump panel will be provided for access to the manual override.

A maintain switch will be provided behind the stainless steel access door near the manual override. The switch will cut off power to the valve to allow for manual override valve actuation.

### **FRONT INLET INTAKE RELIEF VALVE**

An Elkhart Brass Style 40 intake pressure relief valve will be provided on the inlet side of the valve preset at 125 psig.

The pressure relief valve will be adjustable from 75 to 250 psi.

The outlet will be 2.50" National Standard hose thread and terminate below the frame rails and will have a "do not cap" warning tag near the discharge outlet.

### **FRONT INLET ELBOW**

The front inlet will have a 6.00" inlet elbow with swivel, terminating with Male National Standard Hose Thread.

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The swivel will be Chrome

A petcock/snubber style of bleeder bleeder will be provided on the front inlet elbow.

### **FRONT INLET CAP**

The front inlet will have National Standard hose threads with a long handle cap.

The cap will incorporate a thread design to automatically relieve stored pressure in the line when disconnected.

The cap will be fabricated from brass material.

### **LARGE DIAMETER REAR INLET**

A 4.00" inlet rear inlet with screen will be provided using 5.00" stainless steel plumbing and a 5.00" butterfly valve.

The screen will provide cathodic protection against corrosion in piping.

The piping will contain only large radius elbows, no mitered joints.

The plumbing will be routed to the rear through the water tank. The inlet will terminate beside the rear compartment, above the tailboard, on the right side.

A bleeder valve will be located at the threaded connection.

### **REAR INLET CONTROL**

The rear inlet will be gated and controlled with an Elkhart Apex electric valve controller provided on the pump operators panel. The electric control must be of a true position feedback design, requiring no clutches in the motor or current limiting. The controller will have momentary open, close as well as programmable preset valve positions. The controller will provide position indication on a full color, backlit LCD display. It will have manual adjustment of the brightness as well as an auto dimming option.

A manual override with a small chrome handwheel will be provided directly on the valve. A stainless steel door located on the right side pump panel will be provided for access to the manual override.

A maintain switch will be provided behind the stainless steel access door near the manual override. The switch will cut off power to the valve to allow for manual override valve actuation.

### **REAR INLET CAP**

The rear inlet will have a National Standard hose thread adapter with a long handle chrome cap.

The cap will be the Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

### **REAR INLET INTAKE RELIEF VALVE**

An Elkhart Brass Style 40 intake pressure relief valve will be provided on the inlet side of the valve preset at 125 psig .

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The pressure relief valve will be adjustable from 75 to 250 psi.

The outlet will be 2.50" National Standard hose thread and terminate below the frame rails and will have a "do not cap" warning tag near the discharge outlet.

### **INTERLOCK**

An interlock system will be provided that will not allow the cab to be lifted unless the front suction is in the correct location as to not damage the cab.

### **INLET BLEEDER VALVE**

A 0.75" bleeder valve will be provided for each side gated inlet.

The valves will be located behind the panel with a "T" swing style handle control extended to the outside of the panel.

The handles will be chrome plated and provide a visual indication of valve position. The swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage.

The water discharged by the bleeders will be routed below the chassis frame rails.

### **TANK TO PUMP**

The booster tank will be connected to the intake side of the pump with 3.00" piping and a quarter turn 3.50" Waterous valve with the control remotely located at the operator's panel. Tank to pump line will run straight (no elbows) from the pump into the front face of the water tank and angle down into the tank sump. A rubber coupling will be included in this line to prevent damage from vibration or chassis flexing.

A check valve will be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank.

### **TANK REFILL**

A 2.00" combination tank refill and pump re-circulation line will be provided, using a 2.50" Waterous standard flow valve controlled from the pump operator's panel by a manual control.

### **DISCHARGE OUTLET CONTROLS**

The discharge outlets will incorporate a quarter-turn ball valve with the control located at the pump operator's panel. The valve operating mechanism will indicate the position of the valve.

If a handwheel control valve is used, the control will be a minimum of a 3.9" diameter stainless steel handwheel with a dial position indicator built in to the center of the handwheel.

Any 3.00 inch or larger discharge valve will be a slow-operating valve in accordance with NFPA 16.7.5.3.

**LEFT SIDE DISCHARGE OUTLETS**

There will be Two (2) discharge outlets with a 2.50" valve on the left side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.

**LEFT SIDE OUTLET ELBOWS**

The 2.50" discharge outlets located on the left side pump panel will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow.

The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

**RIGHT SIDE DISCHARGE OUTLETS**

There will be One (1) discharge outlet with a 2.50" valve on the right side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.

**RIGHT SIDE OUTLET ELBOWS**

The 2.50" discharge outlets located on the right side pump panel will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow.

The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

**LARGE DIAMETER DISCHARGE OUTLET**

There will be a 4.00" discharge outlet with a 4.00" Akron valve installed on the right side of the apparatus, terminating with a 4.00" (M) National Standard hose thread adapter. This discharge outlet will be actuated with a handwheel control at the pump operator's control panel.

An indicator will be provided to show when the valve is in the closed position.

**LARGE DIAMETER OUTLET ELBOWS**

The 4.00" outlet(s) will be furnished with one (1) 4.00" (F) National Standard hose thread x 5.00" Storz elbow adapter with Storz cap.

**FRONT DISCHARGE OUTLET**

There will be one (1) 1.50" discharge outlet piped to the front of the apparatus and located in the center bumper tray.

Plumbing will consist of 2.00" piping and flexible hose with a 2.00" ball valve with control at the pump operator's panel. A fabricated weldment made of stainless steel pipe will be used in the plumbing where appropriate. The piping will terminate with a 1.50" NST with 90 degree stainless steel swivel.

There will be automatic drains provided at all low points of the piping.

### **REAR DISCHARGE OUTLET**

There will be Two (2) discharge outlets piped to the rear of the hose bed, left side, installed so proper clearance is provided for spanner wrenches or adapters. Plumbing will consist of 2.50" piping along with a 2.50" full flow ball valve with the control from the pump operator's panel.

### **REAR OUTLET ELBOWS**

The 2.50" discharge outlets located at the rear of the apparatus will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow.

The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

### **DISCHARGE CAPS/ INLET PLUGS**

Chrome plated, rocker lug, caps with chain will be furnished for all discharge outlets 1.00" thru 3.00" in size, besides the pre-connected hose outlets.

Chrome plated, rocker lug, plugs with chain will be furnished for all auxiliary inlets 1.00" thru 3.00" in size.

The caps and plugs will incorporate a thread design to automatically relieve stored pressure in the line when disconnected.

### **OUTLET BLEEDER VALVE**

A 0.75" bleeder valve will be provided for each outlet 1.50" or larger. Automatic drain valves are acceptable with some outlets if deemed appropriate with the application.

The valves will be located behind the panel with a T swing style handle control extended to the outside of the side pump panel.

The handles will be chrome plated and provide a visual indication of valve position.

The T swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage.

Bleeders will be located at the bottom of the pump panel. They will be properly labeled identifying the discharge they are plumbed in to.

The water discharged by the bleeders will be routed below the chassis frame rails.

### **DELUGE RISER**

A 3.00" deluge riser will be installed above the pump in such a manner that a monitor can be mounted and used effectively. The piping will be 3.00" and a 3.50" Waterous valve will be installed. Piping will be installed securely so no movement develops when the line is charged. The riser will be gated and controlled at the pump operator's panel with a large chrome plated handwheel. One (1) small handwheel control without position indicator will be provided above the pump near the deluge outlet.

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### **TELESCOPIC PIPING**

The deluge riser piping will include a 18.00" Task Force Model XG18 Extend-A-Gun extension.

This extension will be telescopic to allow the deluge gun to be raised 18.00" increasing the range of operation.

A position sensor will be provided on the telescopic piping that will activate the "do not move vehicle" light inside the cab when the monitor is in the raised position.

### **MONITOR**

An Elkhart Model 8297 "Stinger" monitor will be properly installed on the deluge riser. This monitor will include both a fixed base and a portable base with a 4.00" Storz inlet. The monitor will be painted as provided by monitor manufacturer.

### **MONITOR NOZZLE**

An Elkhart #SM-1250 Select-O-Matic manual pattern control master stream nozzle will be provided.

Also included is an Elkhart ST-194 Quad stack tips and 282A shaper.

### **MONITOR MOUNTING BASE**

An Elkhart Model 8298 deck mount base for an Elkhart "Stinger" monitor will be properly installed on the deluge riser via the 3.00" four bolt flange. The base will NOT BE PAINTED per the manufacturers recommendations.

### **CROSSLAY HOSE BEDS, 1.50"**

Two (2) crosslays with 1.50" outlets will be provided. Each bed to be capable of carrying 200' of 1.75" in a single stack and will be plumbed with 2.00" i.d. pipe and gated with a 2.00" quarter turn ball valve.

Outlets to be equipped with a 1.50" National Standard hose thread 90 degree swivel located in the hose bed so that hose may be removed from either side of apparatus.

The crosslay controls will be at the pump operator's panel.

The center crosslay dividers will be fabricated of .25" aluminum and will provide adjustment from side to side. The divider will be unpainted with a brushed finish.

Vertical scuffplates, constructed of stainless steel, will be provided at the front and rear ends of the bed on each side of vehicle.

Crosslay bed flooring will consist of removable perforated brushed aluminum.

### **CROSSLAY HOSE BEDS, 2.50"**

One (1) crosslay with 2.50" outlets will be provided. This bed to be capable of carrying 200 feet of 2.50" double jacketed hose in a single stack and will be plumbed with 2.50" i.d. pipe and gated with a 2.50" quarter turn ball valve.

Outlet to be equipped with a 2.50" National Standard hose thread 90 degree swivel located in the hose bed so that hose may be removed from either side of apparatus.

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

The crosslay control will be at the pump operator's panel.

The center crosslay dividers will be fabricated of .25" aluminum and will provide adjustment from side to side. The divider will be unpainted with a brushed finish.

Stainless steel vertical scuffplates will be provided at hose bed ends (each side of vehicle). Bottom of hose bed ends (each side) will also be equipped with a stainless steel scuffplate.

Crosslay bed flooring will consist of removable perforated brushed aluminum.

### **CROSSLAY HOSE RESTRAINT SIDES**

A heavy black nylon webbing made of 2.00" nylon strap with a 2.00" box pattern netting will be provided on the ends of crosslay/speedlay beds to secure the hose during travel.

The webbed netting will be fastened with hook and loop closure in the center of the hosebed opening. The sides with footman loops located on the ends.

A black nylon strap with a pull tab will secure the left and right side together to provide positive means of securing the webbing.

### **CROSSLAY COVER**

A hinged .19" aluminum treadplate cover will be installed over the crosslay hose beds. It will include a latch at each end of the cover to hold it securely in place, a chrome grab handle at each end for opening and closing the cover and a foam rubber gasket where the cover comes into contact to a painted surface.

The cover will be provided with no stay arm device hold open device.

The hinge will be to the front of the hose beds.

### **BOOSTER HOSE REEL**

A Hannay electric rewind booster hose reel will be installed over the pump in a recessed open compartment on the left side of the apparatus. The reel will be fabricated of aluminum and have highly polished end discs.

A polished stainless steel roller and guide assembly will be mounted on the reel side of the apparatus.

Discharge control will be provided at the pump operator's panel. Plumbing to the reel will consist of 1.50" Aeroquip hose and a 1.50" valve.

Reel motor will be protected from overload with a circuit breaker rated to match the motor.

An electric rewind control switch will be installed on the reel side pump panel.

Neidner ReelTex booster hose, 1.00" diameter and 150 feet, will be provided.

Working pressure of the booster hose will be a minimum of 600 psi.

Capacity of the hose reel will be 150 feet of 1.00" booster hose.

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There will be one (1) additional polished stainless steel roller and guide assembly mounted PS over pump.

### **FOAM SYSTEM**

A foam system will not be required on this apparatus.

### **COLOR CODED TAGS**

A detailed drawing/chart of the colors used on all of the inlet(s) and outlet(s) will be provided for the customer to review. The customer will be allowed to make changes and/or mark-ups to this approval drawing/chart. The fire apparatus manufacturer will make revisions (If needed) to the drawing per the customer changes and/or mark-ups as long as the changes are physically possible within a specific product line.

The finalized and signed customer approved drawing/chart of the colors will become part of the contract documents.

### **SPECIAL TEXT/VERBIAGE TAGS**

A detailed drawing/chart of the text/verbiage used on all of the inlet(s) and outlet(s) will be provided for the customer to review. The customer will be allowed to make changes and/or mark-ups to this approval drawing/chart. The fire apparatus manufacturer will make revisions (If needed) to the drawing per the customer changes and/or mark-ups as long as the changes are physically possible within a specific product line.

The finalized and signed customer approved drawing/chart of the text/verbiage will become part of the contract documents.

### **PUMP PANEL CONFIGURATION**

The pump panel configuration will be arranged and installed in an organized manner that will provide user-friendly operation.

### **PUMP AND GAUGE PANEL**

The pump and gauge panels will be constructed of aluminum with a black vinyl finish. A polished aluminum trim molding will be provided around each panel.

### **PUMP ACCESS**

#### **Right Side Panel**

The right side upper pump panel will be removable.

#### **Panel Fastener**

The removable panels will be secured with black swell latch .

The left side pump panels will be attached with screws.

The right side lower pump panel (drain bank) will be attached with screws.

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### **PUMP COMPARTMENT LIGHT**

There will be one (1) Whelen®, Model 3SC0CDCR, 3.00" white 12 volt DC LED light(s) with Whelen, Model 3FLANGE, flange(s) installed in the pump compartment.

There will be a switch accessible through a door on the pump panel included with this installation.

Engine monitoring graduated LED indicators will be incorporated with the pressure controller.

Also provided at the pump panel will be the following:

- Master Pump Drain Control

### **THROTTLE READY GREEN INDICATOR LIGHT**

There will be a green indicator light integrated with the pressure governor and/or engine throttle installed on the pump operators panel that is activated when the pump is in throttle ready mode.

### **OK TO PUMP INDICATOR LIGHT**

There will be a green indicator light installed on the pump operators panel that is activated when the pump is in Ok To Pump mode.

### **COMPRESSION FITTINGS**

All of the pump panel gauges will have brass compression fittings installed in place of the push to connect fittings.

### **AIR HORN BUTTON**

An air horn control button will be provided at the pump operator's control panel. This button will be red in color and properly labeled "Evacuation".

### **VACUUM AND PRESSURE GAUGES**

The pump vacuum and pressure gauges will be liquid filled and manufactured by Class 1 Incorporated ©.

The gauges will be a minimum of 4.00" in diameter and will have white faces with black lettering, with a pressure range of 30.00"-0-600#.

Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut.

The pump pressure and vacuum gauges will be installed adjacent to each other at the pump operator's control panel.

Test port connections will be provided at the pump operator's panel. One will be connected to the intake side of the pump, and the other to the discharge manifold of the pump. They will have 0.25 in. standard pipe thread connections and non-corrosive polished stainless steel or brass plugs. They will be marked with a label.

This gauge will include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.

### **PRESSURE GAUGES**

The individual "line" pressure gauges for the discharges will be Class 1© interlube filled.

They will be a minimum of 2.00" in diameter and have white faces with black lettering.

Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut.

Gauges will have a pressure range of 30"-0-400#.

The individual pressure gauge will be installed as close to the outlet control as practical.

This gauge will include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.

### **WATER LEVEL GAUGE**

There will be an electronic water level gauge provided on the operator's panel that registers water level by means of five (5) colored LED lights. The lights will be durable, ultra-bright five (5) LED design viewable through 180 degrees. The water level indicators will be as follows:

- 100 percent = Green
- 75 percent = Yellow
- 50 percent = Yellow
- 25 percent = Yellow
- Refill = Red

The light will flash when the level drops below the given level indicator to provide an eighth of a tank indication. To further alert the pump operator, the lights will flash sequentially when the water tank is empty.

The level measurement will be based on the sensing of head pressure of the fluid in the tank.

The display will be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design will provide complete protection from water and environmental elements. An industrial pressure transducer will be mounted to the outside of the tank. The field calibratable display measures head pressure to accurately show the tank level.

### **LIGHT SHIELD**

There will be a polished, 16 gauge stainless steel light shield installed over the pump operator's panel.

- There will be 12 volt DC white LED lights installed under the stainless steel light shield to illuminate the controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus. These lights will be activated by the pump panel light switch. Additional lights will be included every 18.00" depending on the size of the pump house.
- One (1) pump panel light will come on when the pump is in ok to pump mode.

There will be a light activated above the pump panel light switch when the parking brake is set. This is to afford the operator some illumination when first approaching the control panel.

### **AIR HORN SYSTEM**

Two (2) Hadley®, eTone, chrome air horns will be recessed in the front bumper. The air horn system will be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve will be installed to prevent the loss of air in the brake system.

### **Air Horn Location**

The air horns will be located on each side of the bumper, inside of the frame rails.

### **Air Horn Control**

The air horn(s) will be activated by the following:

- Steering wheel horn ring with electric/air horn selector switch
- Right side lanyard. The lanyard to be a link chain inside vinyl tubing.

### **ELECTRONIC SIREN**

A Whelen, Model: 295SLSC1, electronic siren with a plug-in, detachable noise canceling microphone will be provided.

This siren to be active when the battery switch is on and that emergency master switch is on.

Electronic siren head will be recessed in the driver side center switch panel.

The electronic siren will be controlled on the siren head only. No horn button or foot switches will be provided.

### **SPEAKERS**

There will be two (2) Whelen®, Model SA315P, black nylon composite, 100-watt, speakers with through bumper mounting brackets and polished stainless steel grille provided. Each speaker will be connected to the siren amplifier.

There will be one (1) speaker recessed in the passenger side and one (1) speaker recessed in the driver side of the front bumper. The speakers will be located in the angled corner area of the bumper.

### **AUXILIARY MECHANICAL SIREN**

There will be a Federal Signal Model Q2B mechanical siren furnished and installed in the front of the apparatus.

The Q2B will be chrome finish.

The siren will have a 2-gauge cable connected to a power solenoid that is connected by a 2-gauge cable ran battery direct to the primary chassis batteries and will be labeled Q2B+ at the battery. The power solenoid will only be enabled when the emergency master switch is on.

The siren will have a 2-gauge ground wire connected to the chassis battery stud. The cable will be labeled Q2B- at the battery.

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When the chassis battery switch is on, and the emergency master switch is on, the Q2B siren will be activated by the following:

The mechanical siren will be recessed in the front bumper in the center. The siren will be properly supported using the bumper framework.

### **MECHANICAL SIREN CONTROL**

The mechanical siren will be activated by the following:

- Right side foot switch. The control to be available when the parking brake is released.
- Left side foot switch.

A momentary red switch will be included in switch panel #9 to activate the siren brake.

### **FRONT ZONE UPPER WARNING LIGHTS**

There will be one (1) 72.00" Whelen Freedom IV LED lightbar mounted on the cab roof.

The lightbar will include the following:

- One (1) red flashing LED module in the driver's side end position.
- One (1) red flashing LED module in the driver's side front corner position.
- One (1) white flashing LED module in the driver's side first front position.
- One (1) red flashing LED module in the driver's side second front position.
- One (1) red flashing LED module in the driver's side third front position.
- One (1) red flashing LED module in the driver's side fourth front position.
- Open in the driver's side fifth front position.
- Open in the driver's side sixth front position.
- Open in the passenger's side sixth front position.
- Open in the passenger's side fifth front position.
- One (1) red flashing LED module in the passenger's side fourth front position.
- One (1) red flashing LED module in the passenger's side third front position.
- One (1) red flashing LED module in the passenger's side second front position.
- One (1) white flashing LED module in the passenger's side first front position.
- One (1) red flashing LED module in the passenger's side front corner position.
- One (1) red flashing LED module in the passenger's side end position.

There will be clear lenses included on the lightbar.

There will be a switch in the cab on the switch panel to control this lightbar.

The white LEDs will be disabled when the parking brake is applied.

The six (6) red flashing LED modules in the front positions may be load managed when the parking brake is applied.

**LIGHTS, FRONT ZONE LOWER**

Two (2) Whelen model M6\*C LED flashing warning lights will be installed on the cab face above the headlights, in a common bezel with the directional lights.

The driver's side front warning light to be red.

The passenger's side front warning light to be red.

Both lights will include a clear lens.

There will be a switch located in the cab on the switch panel to control the lights.

**SIDE ZONE LOWER LIGHTING**

There will be six (6) Whelen®, Model M6\*C, flashing LED warning lights with chrome trim installed per the following:

- Two (2) lights, one (1) each side on the front custom cab corner. The side front lights to be red.
- Two (2) lights, one (1) each side, as close to center above the front wheels as possible. The side middle lights to be red.
- Two (2) lights, one (1) each side, centered above rear wheels. The side rear lights to be red.
- The lights will include clear lenses.

There will be a switch in the cab on the switch panel to control the lights.

**REAR ZONE LOWER LIGHTING**

There will be two (2) Whelen®, Model M6\*C, LED flashing warning lights located at the rear of the apparatus.

- The driver's side rear light to be red
- The passenger's side rear light to be red

Both lights will include a lens that is clear.

There will be a switch located in the cab on the switch panel to control the lights.

**REAR/SIDE ZONE UPPER WARNING LIGHTS**

There will be two (2) Whelen®, Model L31H\*FN, LED warning beacons provided at the rear of the truck, located one (1) each side. There will be a switch located in the cab on the switch panel to control the beacons.

The color of the lights will be red LEDs with both domes clear.

The left side rear warning light will be mounted on top of the compartmentation with all wiring totally enclosed. The clearance/marker light will be mounted to the side of the compartment ridge.

The right side rear warning light will be mounted on a low mount stainless steel bracket with all wiring totally enclosed. This brackets will also support the clearance/marker light.

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The rear deck lights will be mounted on the beavertail flange to keep the overall height as low as possible.

### **LOOSE EQUIPMENT**

The following equipment will be furnished with the completed unit:

- Three (3) bags of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit.

### **NFPA REQUIRED LOOSE EQUIPMENT PROVIDED BY FIRE DEPARTMENT**

The following loose equipment as outlined in NFPA 1901, 2016 edition, section 5.9.3 and 5.9.4 will be provided by the fire department.

- 800 ft (60 m) of 2.50" (65 mm) or larger fire hose.
- 400 ft (120 m) of 1.50" (38 mm), 1.75" (45 mm), or 2.00" (52 mm) fire hose.
- One (1) handline nozzle, 200 gpm (750 L/min) minimum.
- Two (2) handline nozzles, 95 gpm (360 L/min) minimum.
- One (1) smoothbore or combination nozzle with 2.50" shutoff that flows a minimum of 250 gpm.
- One (1) SCBA complying with NFPA 1981 for each assigned seating position, but not fewer than four (4), mounted in brackets fastened to the apparatus or stored in containers supplied by the SCBA manufacturer.
- One (1) spare SCBA cylinder for each SCBA carried, each mounted in a bracket fastened to the apparatus or stored in a specially designed storage space(s).
- One (1) first aid kit.
- Four (4) combination spanner wrenches.
- Two (2) hydrant wrenches.
- One (1) double female 2.50" (65 mm) adapter with National Hose threads.
- One (1) double male 2.50" (65 mm) adapter with National Hose threads.
- One (1) rubber mallet, for use on suction hose connections.
- Two (2) salvage covers each a minimum size of 12 ft x 14 ft (3.7 m x 4.3 m).
- One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 207, *Standard for High Visibility Public Safety Vests*, and have a five-point breakaway feature that includes two (2) at the shoulders, two (2) at the sides, and one (1) at the front.
- Five (5) fluorescent orange traffic cones not less than 28.00" (711 mm) in height, each equipped with a 6.00" (152 mm) retro-reflective white band no more than 4.00" (152 mm) from the top of the cone, and an additional 4.00" (102 mm) retro-reflective white band 2.00" (51 mm) below the 6.00" (152 mm) band.
- Five (5) illuminated warning devices such as highway flares, unless the five (5) fluorescent orange traffic cones have illuminating capabilities.
- One (1) automatic external defibrillator (AED).
- Four (4) ladder belts meeting the requirements of NFPA 1983, *Standard on Fire Service Life Safety Rope and System Components* (if equipped with an aerial device).

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- If the supply hose carried does not use sexless couplings, an additional double female adapter and double male adapter, sized to fit the supply hose carried, will be carried mounted in brackets fastened to the apparatus.
- If none of the pump intakes are valved, a hose appliance that is equipped with one or more gated intakes with female swivel connection(s) compatible with the supply hose used on one side and a swivel connection with pump intake threads on the other side will be carried. Any intake connection larger than 3.00" (75 mm) will include a pressure relief device that meets the requirements of 16.6.6.
- If the apparatus does not have a 2.50" National Hose (NH) intake, an adapter from 2.50" NH female to a pump intake will be carried, mounted in a bracket fastened to the apparatus if not already mounted directly to the intake.
- If the supply hose carried has other than 2.50" National Hose (NH) threads, adapters will be carried to allow feeding the supply hose from a 2.50" NH thread male discharge and to allow the hose to connect to a 2.50" NH female intake, mounted in brackets fastened to the apparatus if not already mounted directly to the discharge or intake.

### **SOFT SUCTION HOSE**

There will be no soft suction hose provided.

### **STRAINER PROVIDED BY FIRE DEPARTMENT**

NFPA 1901, 2016 edition, section 5.8.2.1.1 requires a suction strainer when suction hose is provided.

The strainer is not on the apparatus as manufactured. The fire department will provide the suction strainer.

### **DRY CHEMICAL EXTINGUISHER PROVIDED BY FIRE DEPARTMENT**

NFPA 1901, 2016 edition, section 5.9.4 requires one (1) approved dry chemical portable fire extinguisher with a minimum 80-B:C rating mounted in a bracket fastened to the apparatus.

The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.

### **WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT**

NFPA 1901, 2016 edition, section 5.9.4 requires one (1) 2.5 gallon or larger water extinguisher mounted in a bracket fastened to the apparatus.

The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.

### **FLATHEAD AXE PROVIDED BY FIRE DEPARTMENT**

NFPA 1901, 2016 edition, Section 5.9.4 requires one (1) flathead axe mounted in a bracket fastened to the apparatus.

The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.

### **PICKHEAD AXE PROVIDED BY FIRE DEPARTMENT**

NFPA 1901, 2016 edition, Section 5.9.4 requires one (1) pickhead axe mounted in a bracket fastened to the apparatus.

The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.

### **PAINT PROCESS**

The exterior custom cab and body painting procedure will consist of a seven (7) step finishing process as follows:

1. Manual Surface Preparation - All exposed metal surfaces on the custom cab and body will be thoroughly cleaned and prepared for painting. Imperfections on the exterior surfaces will be removed and sanded to a smooth finish. Exterior seams will be sealed before painting. Exterior surfaces that will not be painted include; chrome plating, polished stainless steel, anodized aluminum and bright aluminum treadplate.
2. Chemical Cleaning and Pretreatment - All surfaces will be chemically cleaned to remove dirt, oil, grease, and metal oxides to ensure the subsequent coatings bond well. The aluminum surfaces will be properly cleaned and treated using a high pressure, high temperature 4 step Acid Etch process. The steel and stainless surfaces will be properly cleaned and treated using a high temperature 3 step process specifically designed for steel or stainless. The chemical treatment converts the metal surface to a passive condition to help prevent corrosion.
3. Surfacer Primer - The Surfacer Primer will be applied to a chemically treated metal surface to provide a strong corrosion protective basecoat. A minimum thickness of 2 mils of Surfacer Primer is applied to surfaces that require a Critical aesthetic finish. The Surfacer Primer is a two-component high solids urethane that has excellent sanding properties and an extra smooth finish when sanded.
4. Finish Sanding - The Surfacer Primer will be sanded with a fine grit abrasive to achieve an ultra-smooth finish. This sanding process is critical to produce the smooth mirror like finish in the topcoat.
5. Sealer Primer - The Sealer Primer is applied prior to the Basecoat in all areas that have not been previously primed with the Surfacer Primer. The Sealer Primer is a two-component high solids urethane that goes on smooth and provides excellent gloss hold out when topcoated.
6. Basecoat Paint - Two coats of a high performance, two component high solids polyurethane basecoat will be applied. The Basecoat will be applied to a thickness that will achieve the proper color match. The Basecoat will be used in conjunction with a urethane clear coat to provide protection from the environment.
7. Clear Coat - Two (2) coats of Clear Coat will be applied over the Basecoat color. The Clear Coat is a two-component high solids urethane that provides superior gloss and durability to the exterior surfaces. Lap style and roll-up doors will be Clear Coated to match the body. Paint warranty for the roll-up doors will be provided by the roll-up door manufacturer.

After the cab and body are painted, the color will be verified to make sure that it matches the color standard. Electronic color measuring equipment will be used to compare the color sample to the color standard entered into the computer. Color specifications will be used to determine the color match. A Delta E reading will be used to determine a good color match within each family color.

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

All removable items such as brackets, compartment doors, door hinges, and trim will be removed and painted separately if required, to ensure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly will be finish painted before assembly.

The paint finish quality levels for critical areas of the apparatus (cab front and sides, body sides and doors, and boom lettering panels) are to meet or exceed Cadillac/General Motors GMW15777 global paint requirements. Orange peel levels are to meet or exceed the #6 A.C.T. standard in critical areas. The manufacture's written paint standards will be available upon request.

### **Environmental Impact**

Contractor will meet or exceed all current state regulations concerning paint operations. Pollution control will include measures to protect the atmosphere, water and soil. Controls will include the following conditions:

- Topcoats and primers will be chrome and lead free.
- Metal treatment chemicals will be chrome free. The wastewater generated in the metal treatment process will be treated on-site to remove any other heavy metals.
- Particulate emission collection from sanding operations will have a 99.99 percent efficiency factor.
- Particulate emissions from painting operations will be collected by a dry filter or water wash process. If the dry filter is used, it will have an efficiency rating of 98 percent. Water wash systems will be 99.97 percent efficient
- Water from water wash booths will be reused. Solids will be removed on a continual basis to keep the water clean.
- Paint wastes are disposed of in an environmentally safe manner.
- Empty metal paint containers will be recycled to recover the metal.
- Solvents used in clean-up operations will be recycled on-site or sent off-site for distillation and returned for reuse.

Additionally, the finished apparatus will not be manufactured with or contain products that have ozone depleting substances. Contractor will, upon demand, present evidence that the manufacturing facility meets the above conditions and that it is in compliance with his state EPA rules and regulations.

### **CAB THREE-TONE PAINT**

The cab will be painted three-tone with the upper section painted #90 red, the middle section painted #10 white, and the lower section painted to match the upper section color. There will be a standard two-tone cab break with an additional break at the roof line provided.

There will be a standard cab shield provided.

### **BODY PAINT**

The body will be painted to match the lower section of the cab.

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

### **PAINT/SEAL CHASSIS FRAME ASSEMBLY**

The following components will be treated with epoxy E-coat protection prior to finish paint:

- Two (2) C-channel frame rails

The E-coat process will meet the technical properties shown.

Before the frame rails are finish painted, all areas will be sealed with a 3M 2084 metal sealant after the components are torqued to the frame rails:

- The joint between all crossmembers and the frame
- The joint between all spring hangers and the frame.

The chassis frame assembly will be finished with primer and gloss paint to match the lower job color before the installation of the cab and body, and before installation of the engine and transmission assembly, air brake lines, electrical wire harnesses, etc.

Components that are included with the chassis frame assembly that will be finish painted are:

- Frame rails
- Cross members/Axles
- Suspensions
- Steering gear
- Battery boxes
- Bumper extension weldment
- Frame extensions
- Body mounting angles
- Rear Body support substructure (front and rear)
- Pump house substructure
- Air tanks
- Steel fuel tank
- Castings
- Individual piece parts used in chassis and body assembly

After the chassis frame assembly is finish painted, the following non-torqued joints will be sealed with a SG-510A rust-proofing compound:

-All bolted on chassis components that could be vulnerable to rust, i.e. body mounting angles, air tanks, etc.

To summarize, all metal to metal contact components that are prone to rust, will be protected.

| FILM TECHNICAL PROPERTIES                                                                                             |                              |                        |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|
| PROPERTY                                                                                                              | TEST METHOD                  | PERFORMANCE            |
| Color                                                                                                                 | —                            | Black                  |
| Film Thickness                                                                                                        | —                            | 0.5 - 1.5 Mills        |
| Gloss - 60 Degree                                                                                                     | ASTM D523                    | 65 - 85                |
| Pencil Hardness                                                                                                       | ASTM D3363                   | 2H Minimum             |
| Direct Impact                                                                                                         | ASTM D2794                   | 100 in. - lbs. Minimum |
| Reverse Impact                                                                                                        | ASTM D2794                   | 60 in. - lbs. Minimum  |
| Crosshatch Adhesion                                                                                                   | ASTM D3359                   | 4B - 5B                |
| Humidity                                                                                                              | ASTM D1735                   | 1000 Hours Minimum     |
| Water Immersion                                                                                                       | ASTM D870                    | 250 Hours Minimum      |
| Gravelometer                                                                                                          | GM9508P                      | 6 Minimum              |
| Throwpower                                                                                                            | GM9535P                      | 12 - 15 in.            |
| Cold rolled steel lab panels, Zinc Phosphate pretreatment, 0.6 mils average film thickness, cured 20 minutes @ 350°F. |                              |                        |
| PROPERTY                                                                                                              | SUBSTRATE PRETREATMENT       | SALT SPRAY* 1000 HOURS |
| Corrosion Resistance                                                                                                  | CRS / Zinc Phos / Non-Chrome | 1 - 2 mm               |
| *Salt Spray - ASTM B117, cold rolled steel lab panels cured 20 minutes @ 350°F. (Average Total Scribe Creep)          |                              |                        |

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

### **PAINT, REAR WHEELS**

All wheel surfaces, inside and outside of inboard steel wheels only, will be provided with powder coat paint aluminum color.

### **AXLE HUB PAINT**

All axle hubs will be painted to match lower job color.

### **COMPARTMENT INTERIOR PAINT**

The interior of all compartments will be painted with a gray spatter finish for ease of cleaning and to make it easier to touch up scratches and nicks.

### **REFLECTIVE STRIPES**

Three (3) reflective stripes will be provided across the front of the vehicle and along the sides of the body. The reflective band will consist of a 1.00" white stripe at the top with a 1.00" gap then a 6.00" white stripe with a 1.00" gap and a 1.00" white stripe on the bottom.

The reflective band provided on the cab face will be at the headlight level.

### **REAR CHEVRON STRIPING**

There will be alternating chevron striping located on the rear-facing vertical surface of the apparatus. The rear surface, excluding the rear compartment door, will be covered.

The colors will be red and fluorescent yellow green diamond grade.

Each stripe will be 6.00" in width.

This will meet the requirements of the current edition of NFPA 1901, which states that 50% of the rear surface will be covered with chevron striping.

### **CAB DOOR REFLECTIVE STRIPE**

A 6.00" x 16.00" white reflective stripe will be provided across the interior of each cab door. The stripe will be located approximately 1.00" up from the bottom, on the door panel.

This stripe will meet the NFPA 1901 requirement.

### **LETTERING**

The lettering will be totally encapsulated between two (2) layers of clear vinyl.

### **LETTERING**

Forty-one (41) to sixty (60) genuine gold leaf lettering, 3.00" high, with outline and shade will be provided.

### **LETTERING**

There will be genuine gold leaf lettering, 6.00" high, with outline and shade provided. There will be eight (8) letters provided.

### **SIGN KIT FOR LETTERING/NUMERALS**

four (4) painted stainless steel plate(s) and holder(s) will be provided for department lettering. They will be mounted TBD and TBD in size.

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

### **EMBLEM**

There will be four (4) reflective emblem(s), approximately 12.00" - 14.00" in size, installed TBD. the emblem will be modeled after the department submitted information (art, patch, etc).

### **RUSTPROOF/CORROSION PROCESS**

After frame up and painting process, step one of the rust proofing process will consist of a corrosion protective coating being applied to the top flange, the inner "C", and bottom flange of the frame rail from the front to back. Chassis cross members will also be coated complete. If applicable, the space/gap between the inner and outer frame rails will be injected with rust proofing.

Step two will consist of a protective coating being applied to the outside of the frame rails from the back of the cab rearward. All body mounting angles and rear substructure will be coated so a barrier is formed between mounting surfaces in an effort to prevent crevice corrosion. Any additional drilled holes and non-coated bolts will require touchup (Reference Image 1).

Step three consists of a protective coating being applied around the areas where the body and the chassis mounted substructures meet after the body is mounted. The area coated will be approximately 2.00" on either side of the substructure frame work. (Reference Image 2).

Step four consists of coating with rust proofing screw/bolt perforations, body mounting hardware, Pierce door striker hardware. (Reference images 3,4,5).

The Sharf's coating will be self-healing and pliable. After drying, it will not chip, crack, or peel off during normal vehicle operations. The Sharf's coating will be black in color, and considered a corrosion inhibitor for long-term protection.

Periodic inspection of the rust proofing will be required. Touch up of the rust proofing may be required based on inspection findings. Aerosol cans of rust proofing are available as an option in the loose equipment category.

### **UNDERCOATING AIR RESERVOIRS**

The apparatus air reservoirs will be fully undercoated by an authorized Ziebart dealer.

The air reservoirs will be undercoated with an asphalt petroleum based material, dark in color.

The undercoating material utilized on the reservoirs will be formulated to resist corrosion and deaden unwanted sound or road noise.

Coating texture will appear firm, flexible, and resistant to abrasion. Minimum dry film thickness will be in the range of 8.00 to 12.00 mils.

The material will be applied to the air reservoirs prior to reservoir installation on the apparatus.

### **UNDERCOATING FUEL TANK**

The apparatus fuel tank will be fully undercoated by an authorized Ziebart dealer.

The fuel tank will be undercoated with an asphalt petroleum based material, dark in color.

The undercoating material utilized on the tank will be formulated to resist corrosion and deaden unwanted sound or road noise.

Coating texture will appear firm, flexible, and resistant to abrasion. Minimum dry film thickness will be in the range of 8.00 to 12.00 mils.

The material will be applied to the fuel tank prior to tank installation on the apparatus.

### **FIRE APPARATUS PARTS MANUAL**

There will be one (1) custom parts manual(s) in USB flash drive format for the complete fire apparatus provided.

The manual(s) will contain the following:

- Job number
- Part numbers with full descriptions
- Table of contents
- Parts section sorted in functional groups reflecting a major system, component, or assembly
- Parts section sorted in alphabetical order
- Instructions on how to locate parts

Each manual will be specifically written for the chassis and body model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.

### **Service Parts Internet Site**

The service parts information included in these manuals are also available on the Pierce website. The website offers additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.

### **CHASSIS SERVICE MANUALS**

There will be one (1) chassis service manuals on USB flash drives containing parts and service information on major components provided with the completed unit.

The manual will contain the following sections:

- Job number
- Table of contents
- Troubleshooting
- Front Axle/Suspension
- Brakes
- Engine

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

- Tires
- Wheels
- Cab
- Electrical, DC
- Air Systems
- Plumbing
- Appendix

The manual will be specifically written for the chassis model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.

### **CHASSIS OPERATION MANUAL**

The chassis operation manual will be provided on one (1) USB flash drive.

### **ONE (1) YEAR MATERIAL AND WORKMANSHIP**

A Pierce basic apparatus limited warranty certificate, WA0008, is included with this proposal.

### **ENGINE WARRANTY**

A Cummins **five (5) year** limited engine warranty will be provided. A limited warranty certificate, WA0181, is included with this proposal.

### **STEERING GEAR WARRANTY**

A Sheppard **three (3) year** limited steering gear warranty will be provided. A copy of the warranty certificate will be submitted with the bid package.

### **FIFTY (50) YEAR STRUCTURAL INTEGRITY**

The Pierce custom chassis frame limited warranty certificate, WA0013, is included with this proposal.

### **FRONT AXLE THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY**

The Pierce TAK-4 suspension limited warranty certificate, WA0050, is included with this proposal.

### **SINGLE REAR AXLE FIVE (5) YEAR MATERIAL AND WORKMANSHIP WARRANTY**

A Meritor™ Axle 5 year limited warranty will be provided.

### **ABS BRAKE SYSTEM THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY**

A Meritor Wabco™ ABS brake system limited warranty certificate, WA0232, is included with this proposal.

### **TEN (10) YEAR STRUCTURAL INTEGRITY**

The Pierce custom cab limited warranty certificate, WA0012, is included with this proposal.

### **TEN (10) YEAR PRO-RATED PAINT AND CORROSION**

A Pierce cab limited pro-rated paint warranty certificate, WA0055, is included with this proposal.

### **FIVE (5) YEAR MATERIAL AND WORKMANSHIP**

The Pierce Command Zone electronics limited warranty certificate, WA0014, is included with this proposal.

**COMPARTMENT LIGHT WARRANTY**

The compartment lights will not offer an extended warranty.

**TRANSMISSION WARRANTY**

The transmission will have a **five (5) year/unlimited mileage** warranty covering 100 percent parts and labor. The warranty will be provided by Allison Transmission.

Note: The transmission cooler is not covered under any extended warranty you may be getting on your Allison Transmission. Please review your Allison Transmission warranty for coverage limitations.

**TRANSMISSION COOLER WARRANTY**

The transmission cooler will carry a five (5) year parts and labor warranty (exclusive to the transmission cooler). In addition, a collateral damage warranty will also be in effect for the first three (3) years of the warranty coverage and will not exceed \$10,000 per occurrence. A copy of the warranty certificate will be submitted with the bid package.

**WATER TANK WARRANTY**

A UPF poly water tank limited warranty certificate, WA0195, is included with this proposal.

**TEN (10) YEAR STRUCTURAL INTEGRITY**

The Pierce apparatus body limited warranty certificate, WA0009, is included with this proposal.

**ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY**

A Gortite roll-up door limited warranty will be provided. The mechanical components of the roll-up door will be warranted against defects in material and workmanship for the lifetime of the vehicle. A **six (6) year** limited warranty will be provided on painted and satin roll up doors.

The limited warranty certificate, WA0190, is included with this proposal.

**PUMP WARRANTY**

The Waterous pump will be provided with a Seven (7) year material and workmanship limited warranty.

A copy of the warranty certificate will be submitted with the bid package (no exception).

**TEN (10) YEAR PUMP PLUMBING WARRANTY**

The Pierce apparatus plumbing limited warranty certificate, WA0035, is included with this proposal.

**TEN (10) YEAR PRO-RATED PAINT AND CORROSION**

A Pierce body limited pro-rated paint warranty certificate, WA0057, is included with this proposal.

**THREE (3) YEAR MATERIAL AND WORKMANSHIP**

The Pierce Goldstar gold leaf lamination limited warranty limited warranty certificate, WA0018, is included with this proposal.

**VEHICLE STABILITY CERTIFICATION**

The fire apparatus manufacturer will provide a certification stating the apparatus complies with NFPA 1901, current edition, section 4.13, Vehicle Stability. The certification will be provided at the time of bid.

### **ENGINE INSTALLATION CERTIFICATION**

The fire apparatus manufacturer will provide a certification, along with a letter from the engine manufacturer stating they approve of the engine installation in the bidder's chassis. The certification will be provided at the time of delivery.

### **POWER STEERING CERTIFICATION**

The fire apparatus manufacturer will provide a certification stating the power steering system as installed meets the requirements of the component supplier. The certification will be provided at the time of bid.

### **CAB INTEGRITY CERTIFICATION**

The fire apparatus manufacturer will provide a cab crash test certification with this proposal. The certification will state that a specimen representing the substantial structural configuration of the cab has been tested and certified by an independent third party test facility. Testing events will be documented with photographs, real-time and high-speed video, vehicle accelerometers, cart accelerometers, and a laser speed trap. The fire apparatus manufacturer will provide a state licensed professional engineer to witness and certify all testing events. Testing will meet or exceed the requirements below:

- SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks.
- European Occupant Protection Standard ECE Regulation No.29.
- SAE J2420 COE Frontal Strength Evaluation - Dynamic Loading Heavy Trucks.

### **Side Impact**

The cab will be subjected to dynamic preload where a 14,320-lb moving barrier is slammed into the side of the cab at 5.50 mph, striking with an impact of 13,000 ft-lb of force. This test is part of the SAE J2422 test procedure and more closely represents the forces a cab will see in a rollover incident.

### **Frontal Impact**

The same cab will withstand a frontal impact of 32,600 ft-lb of force using a moving barrier in accordance with SAE J2420.

### **Additional Frontal Impact**

The same cab will withstand a frontal impact of 65,098 ft-lb of force using a moving barrier. (Twice the force required by SAE J2420)

### **Roof Crush**

The cab will be subjected to a roof crush force of 22,500 lb. This value meets the ECE 29 criteria, and is equivalent to the front axle rating up to a maximum of ten (10) metric tons.

### **Additional Roof Crush**

The same cab will be subjected to a roof crush force of 110,000 lbs. (Four and a half times the load criteria of ECE 29)

The same cab will withstand all tests without any measurable intrusion into the survival space of the occupant area.

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

There will be no exception to any portion of the cab integrity certification. Nonconformance will lead to immediate rejection of bid.

### **CAB DOOR DURABILITY CERTIFICATION**

Robust cab doors help protect occupants. Cab doors will survive a 200,000 cycle door slam test where the slamming force exceeds 20 G's of deceleration. The bidder will certify that the sample doors similar to those provided on the apparatus have been tested and have met these criteria without structural damage, latch malfunction, or significant component wear.

### **WINDSHIELD WIPER DURABILITY CERTIFICATION**

Visibility during inclement weather is essential to safe apparatus performance. Windshield wipers will survive a 3 million cycle durability test in accordance with section 6.2 of SAE J198 *Windshield Wiper Systems - Trucks, Buses and Multipurpose Vehicles*. The bidder will certify that the wiper system design has been tested and that the wiper system has met these criteria.

### **SEAT BELT ANCHOR STRENGTH**

Seat belt attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat belt anchor design will withstand 3000 lb of pull on both the lap and shoulder belt in accordance with FMVSS 571.210 Seat Belt Assembly Anchorages. The bidder will certify that each anchor design was pull tested to the required force and met the appropriate criteria.

### **SEAT MOUNTING STRENGTH**

Seat attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat mounting design will be tested to withstand 20 G's of force in accordance with FMVSS 571.207 Seating Systems. The bidder will certify, at time of delivery, that each seat mount and cab structure design was pull tested to the required force and met the appropriate criteria.

### **PERFORMANCE CERTIFICATIONS**

#### **Cab Air Conditioning**

Good cab air conditioning temperature and air flow performance keeps occupants comfortable, reduces humidity, and provides a climate for recuperation while at the scene. The cab air conditioning system will cool the cab from a heat-soaked condition at 100 degrees Fahrenheit to an average of 78 degrees Fahrenheit in 30 minutes. The bidder will certify that a substantially similar cab has been tested and has met these criteria.

#### **Cab Defroster**

Visibility during inclement weather is essential to safe apparatus performance. The defroster system will clear the required windshield zones in accordance with SAE J381 Windshield Defrosting Systems Test Procedure And Performance Requirements - Trucks, Buses, And Multipurpose Vehicles. The bidder will certify that the defrost system design has been tested in a cold chamber and passes the SAE J381 criteria.

#### **Cab Auxiliary Heater**

Good cab heat performance and regulation provides a more effective working environment for personnel, whether in-transit, or at a scene. An auxiliary cab heater will warm the cab 77 degrees

## PUMPER PROPOSAL FOR COUNTY OF WARREN, VA (647)

Fahrenheit from a cold-soak, within 30 minutes when tested using the coolant supply methods found in SAE J381. The bidder will certify, at time of delivery, that a substantially similar cab has been tested and has met these criteria.

### **AMP DRAW REPORT**

The bidder will provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.

The manufacturer of the apparatus will provide the following:

- Documentation of the electrical system performance tests.
- A written load analysis, which will include the following:
  - The nameplate rating of the alternator.
  - The alternator rating under the conditions specified per:
    - Applicable NFPA 1901 or 1906 (Current Edition).
  - The minimum continuous load of each component that is specified per:
    - Applicable NFPA 1901 or 1906 (Current Edition).
  - Additional loads that, when added to the minimum continuous load, determine the total connected load.
  - Each individual intermittent load.

All of the above listed items will be provided by the bidder per the applicable NFPA 1901 or 1906 (Current Edition).



# COUNTY OF WARREN, VIRGINIA

## BOARD OF SUPERVISORS AGENDA ITEM

| DATE             | ITEM       | SUBJECT:                                                     |
|------------------|------------|--------------------------------------------------------------|
| October 18, 2022 | <b>H-6</b> | Purchase of Two (2) Medic Units and Preventative Maintenance |

### **EXPLANATION & SUMMARY:**

The Finance and Purchasing Department received a request from the Fire & Rescue Department to review a cooperative contract for the purchase of two (2) 2023 Ford F450 4x4 Wheeled Coach Type I Ambulance Transport Units with Stryker Power Pro Stretcher and Power Load System from Atlantic Emergency Solutions and Preventative Maintenance Service Agreement from Stryker.

Section 2.2-4604 of the Virginia Public Procurement Act authorizes the County to cooperatively contract with the Houston-Galveston Area Council (H-GAC). HGAC competitively solicits goods and services which the County can procure directly from the awarded vendor. Contract AM10-20, Ambulances, EMS, and Other Special Services Vehicles was awarded to Atlantic Emergency Solutions. Purchasing has reviewed the HGAC contract documents and verified this cooperative contracting option is available and valid.

### **COST & FINANCING:**

Staff recommends the Board review and approve the cooperative contract award to Atlantic Emergency Solutions for (2) medic units at a cost of \$653,634.00. In addition, the Stryker power cot and load system preventative maintenance inspection plan mitigates the risk of unexpected emergency purchases for the repair or replacement of parts. The cost of this is \$35,560.00. This brings the total amount of funding necessary to purchase the medic units to \$689,194.00.

Funding is available in the Cost Recovery Fund but will need to be appropriated from fund balance by the Board of Supervisors.

#### **Purchase**

|      |                 |                               |               |
|------|-----------------|-------------------------------|---------------|
| FY23 | 4-83-35060-7005 | Motor Vehicles                | -\$689,194.00 |
| FY23 | 4-83-35060-3103 | Maintenance Service Contracts | -\$35,560.00  |

### **PROPOSED OR SUGGESTED MOTION:**

I move the Board of Supervisors authorize the award and contract with Atlantic Emergency Solutions for two 2023 Ford F450 Ambulance Transport Units for \$653,634.00 and Stryker for \$35,560.00. I further move the Board authorize the Chair and County Administrator, either of whom may act, to execute all necessary documents that have been approved by the County Attorney or the Assistant County Attorney.

or

I move that this purchase be tabled at this time.

| SUBMITTED BY:                           | DISPOSITION OF BOARD: <input type="checkbox"/> APPROVED <input type="checkbox"/> OTHER | PROCESSED BY: |
|-----------------------------------------|----------------------------------------------------------------------------------------|---------------|
| Alisa Scott,<br>Deputy Finance Director | (DESCRIBE)                                                                             |               |



## Proposal for Furnishing Ambulance

September 21, 2022

Department: Warren County Department of Fire & Rescue

Attn: Mickey Sirna

200 Skyline Vista Drive, Front Royal, VA 22630

Upon an order being placed by you, and final acceptance by \_\_\_\_\_ Wheeled Coach \_\_\_\_\_ the ambulance and equipment herein named will be manufactured for the following prices:

|                                                                             |       |                   |
|-----------------------------------------------------------------------------|-------|-------------------|
| (2) 2023 Ford F450 4X4 Gas Type I Wheeled Coach Demo with Stryker stretcher | Price | \$326,817.00 Each |
|-----------------------------------------------------------------------------|-------|-------------------|

Total: **\$653,634.00**

Said ambulance and equipment are to be built and shipped in accordance with the specifications hereto attached, delays due to strikes, war, or intentional conflict, failures to obtain chassis, materials, or other causes beyond our control not preventing, within about 400 days from the receipt of chassis and the acceptance thereof by \_\_\_\_\_ Wheeled Coach \_\_\_\_\_.

**Taxes:** Tax is not included in this proposal. In the event that the purchasing organization is not exempt from sales tax or any other applicable taxes and/or the proposed ambulance does not qualify for exempt status, it is the duty of the purchasing organization to pay any and all taxes due.

**Cancellation:** In the event this proposal is accepted, and a purchase order is issued then cancelled or terminated by Customer before completion, Atlantic Emergency Solutions may charge a cancellation fee of 30% of the purchase price.

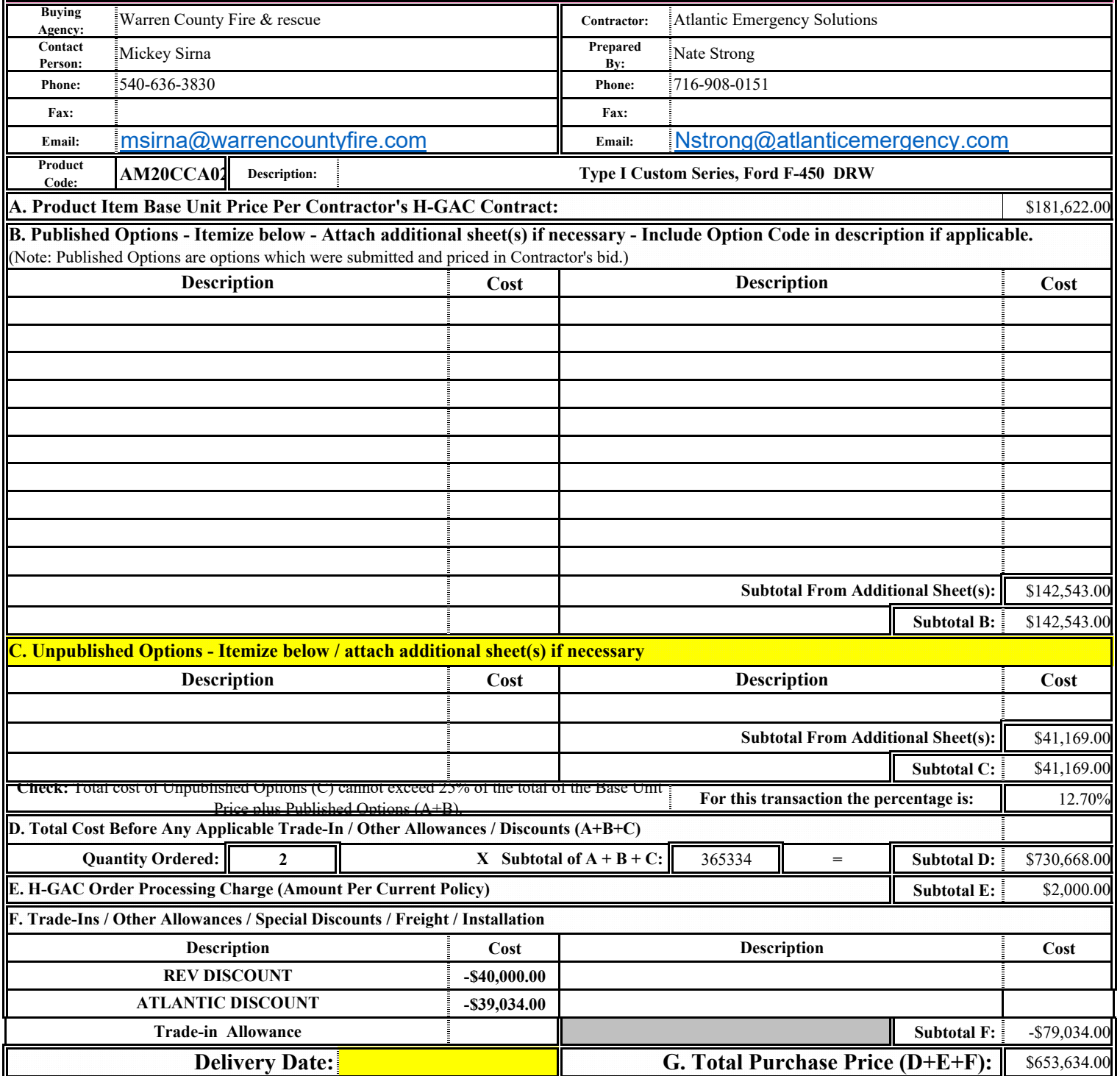
**Terms:** The terms of this proposal will be governed by the laws of the state of Virginia. No additional terms or conditions will be binding upon Atlantic Emergency Solutions unless agreed to in writing and signed by a duly authorized officer of Atlantic Emergency Solutions.

This proposal is valid November 20th., 2022

Sincerely,

Nathan Strong Regional Account Manager

105 Kapok Circle  
Winchester, VA 22602  
716-908-0151  
Nstrong@atlanticemergency.com





This purchase agreement (together with all attachments referenced herein, collectively, the "Agreement"), made and entered into by and between Atlantic Emergency Solutions, Inc., a Virginia corporation ("Atlantic"), and Warren County Fire & rescue, ("Customer") is effective on the last signature date set forth on the signature lines below (the "Effective Date").

1. Purchase and Payment. Customer agrees to purchase and Atlantic agrees to sell to Customer the ambulance (and any associated equipment) furnished by Atlantic to Customer (hereinafter referred to, collectively, to as the "Ambulance") as more fully described in the specifications attached hereto as Exhibit A (the "Specifications") and incorporated herein for the total purchase price of \$ 653,634.00 USD (the "Purchase Price"). Payment shall be made as set forth on Exhibit A. In the event of a conflict between the Specifications and any request for proposal, request for bid, or other Customer provided or drafted documents, the Specifications shall control.

2. Changes to Specifications. If, subsequent to the Effective Date of this Agreement: 1) the manufacturer of the Ambulance (or a manufacturer of a component therein) makes design and/or production changes, including, but not limited to future drivetrain upgrades (such as engine, transmission or axle upgrades) ("Manufacturer Modifications"); or 2) design or production changes are made to the Ambulance to comply with any applicable government regulation (such as the Federal Motor Vehicle Safety Standards or the Environmental Protection Agency Emissions Standards) or industry standards (such as those adopted by the National Fire Protection Association) (cumulatively referred to hereinafter as "Compliance Modifications"), and if there is an increase in costs to Atlantic as a result of Manufacturer Modifications or Compliance Modifications, the Purchase Price shall be automatically adjusted to reimburse Atlantic for said costs. Atlantic shall make reasonable efforts to advise the Customer of such changes within a reasonable time and provide documentation to support any changes in price to Customer upon request. In addition, Customer and Atlantic may agree to make changes to the Specifications, but any such changes must be by written change order signed by Customer and Atlantic ("Change Order"). However, in the case of Manufacturer Modifications or Compliance Modifications resulting in additional costs to Atlantic, Atlantic may execute Changes Orders without joinder of Customer, and any such Change Orders shall be binding on Customer. Atlantic shall not be liable to Customer for any delay in performance or delivery arising from any Change Order.

3. Cancellation or Default by Customer. In the event that Customer cancels its order or otherwise breaches this Agreement by reason of non-payment or otherwise prior to delivery, Atlantic shall be permitted to retain possession and ownership of the Ambulance and shall not be obligated to deliver same to Customer. In addition, Atlantic and Customer agree that if such Customer breach were to occur, it would be difficult to determine actual damages to Atlantic. Customer acknowledges and agrees that: 1) the Ambulance is a unique and highly customized vehicle, made specifically for Customer; 2) Atlantic has invested a significant effort and incurred significant expense in the design and engineering of the Ambulance for Customer; and 3) due to its unique and customized nature, resale of the Ambulance will be difficult to a third-party without a significant loss to Atlantic. As a result, Atlantic and Customer agree that Thirty Percent (30%) of the Purchase Price is a reasonable estimate of the damages that would be incurred by Atlantic if a breach occurred in the future and shall be due and payable to Atlantic by Customer in the case of such a breach. Customer and Atlantic agree that this amount of liquidated damages is fair and reasonable and would not constitute a penalty to Customer. In the event of non-payment by Customer subsequent to delivery, Atlantic may recover full possession of the Ambulance by any lawful means, and shall be entitled to any additional damages sustained by Atlantic as a result of any diminution of value of the Ambulance resulting from use or damage thereto to the extent that such damages exceed the liquidated damages above. Atlantic shall have and retain a purchase money security interest in the Ambulance to secure payment of the Purchase Price and all other sums owed by Customer to Atlantic. In the event of nonpayment by Customer of any debt, obligation or liability now or hereafter incurred or owing by Customer to Atlantic, Atlantic shall have and may exercise all rights and remedies of a secured party under the Uniform Commercial Code Secured Transactions (UCC) provisions as adopted by the Commonwealth of Virginia. In addition, Atlantic shall be entitled to recovery from Customer all of Atlantic's reasonable attorneys' fees and all costs of collection resulting from non-payment or other non-performance hereunder by Customer.

4. Delivery, Inspection and Acceptance. (a) Delivery. It is estimated that the Ambulance shall be ready for delivery F.O.B. Manassas Service Center within 150 - 190 days from the receipt of chassis, subject to delays caused by the Customer, delays caused by Change Order(s) or delays provided for in Paragraph 10 below. The stated delivery date is an estimate only and not guaranteed. Atlantic shall advise Customer when the Ambulance is ready for delivery. (b) Inspection and Acceptance. Upon delivery, Customer shall have fifteen (15) days within which to inspect the Ambulance for substantial conformance to the Specifications. In the event of substantial and material non-conformance to the Specifications, Customer shall furnish Atlantic with written notice sufficient to permit Atlantic to evaluate such non-conformance ("Notice of Defect") within said fifteen (15)

day period. If the Ambulance is not in substantial and material conformance with the Specifications, any material and substantial defects shall be remedied by Atlantic within thirty (30) days from the Notice of Defect. In the event Atlantic does not receive a Notice of Defect within fifteen (15) days of Delivery, the Ambulance shall be deemed to be in conformance with the Specifications and fully accepted by Customer.

5. Notice. Any required or permitted notices hereunder must be given in writing at the address of each party set forth below, or to such other address as either party may substitute by written notice to the other in the manner contemplated herein, by one of the following methods: 1) hand delivery; 2) registered, express, or certified mail, postage prepaid, return receipt requested; or 3) nationally recognized commercial overnight courier.

Atlantic Emergency Solutions, Inc.  
Director of Order Management  
12351 Randolph Ridge Lane  
Manassas, Virginia 20109

Customer  
Warren County Fire & Rescue  
200 Skyline Vista Drive Ste 200  
Front Royal, Virginia 22630  
\_\_\_\_\_  
\_\_\_\_\_

6. Warranty. Any applicable warranty or warranties are attached hereto as **Exhibit B** (collectively, the “Warranty”) and made a part hereof. Any additional warranties must be expressly approved in writing by Atlantic.

7. Disclaimer of Additional Warranties. OTHER THAN AS EXPRESSLY SET FORTH IN PARAGRAPH 6 ABOVE AND EXHIBIT B TO THIS AGREEMENT, ATLANTIC (AS WELL AS ITS SUPPLIERS), THEIR PARENT COMPANIES, AFFILIATES, SUBSIDIARIES, LICENSORS OR SUPPLIERS, THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES, SHAREHOLDERS, AGENTS AND REPRESENTATIVES MAKE NO WARRANTIES, WRITTEN OR ORAL, EXPRESS OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, BY STATUTE OR OTHERWISE. FURTHERMORE, ANY OTHER WARRANTIES, WHETHER WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF QUALITY, IMPLIED WARRANTY OF MERCHANTABILITY, IMPLIED WARRANTY AGAINST INFRINGEMENT, AND IMPLIED WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, ARE EXPRESSLY EXCLUDED AND DISCLAIMED. CUSTOMER FURTHER ACKNOWLEDGES THAT STATEMENTS MADE BY SALES REPRESENTATIVES OR IN PROMOTIONAL MATERIALS DO NOT CONSTITUTE WARRANTIES.

8. Exclusions of Incidental and Consequential Damages. IN NO EVENT SHALL ATLANTIC (OR ITS SUPPLIERS) BE LIABLE TO CUSTOMER FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES INCURRED BY CUSTOMER (INCLUDING, BUT NOT LIMITED TO LOSS OF USE AND/OR LOST PROFITS) AS A RESULT OF ANY BREACH OF THIS AGREEMENT, WHETHER ARISING UNDER THEORIES OF BREACH OF CONTRACT, STRICT LIABILITY, STATUTORY LIABILITY, BREACH OF EXPRESS OR IMPLIED WARRANTY, NEGLIGENCE, OR OTHERWISE.

9. Indemnity. To the extent permitted by law, Customer shall indemnify, defend and hold harmless Atlantic and all of its officers, directors, employees, representatives, dealers, agents and subcontractors, from and against any and all claims, costs, judgments, liability, loss, damage, attorneys’ fees or expenses of any kind or nature whatsoever (including, but without limitation, relating to personal injury or death) caused by, resulting from, arising out of or occurring directly or indirectly in connection with Customer’s purchase, operation, ownership, installation or use of any items (including, without limitation, the Ambulance) sold or supplied by Atlantic, except only to the extent caused by the sole negligence of Atlantic.

10. Force Majeure. Atlantic shall not be responsible nor deemed to be in default on account of delays in performance due to causes which are beyond Atlantic’s control which make Atlantic’s performance impracticable, including but not limited to, wars (declared or not), terrorism, insurrections, strikes, riots, fires, hurricanes, storms, floods, earthquakes, other acts of nature, acts of God, explosions, accidents or mechanical breakdown, acts of sabotage or vandalism, any acts of government authority, delays or failures in transportation, inability to obtain necessary labor supplies, inability to utilize manufacturing facilities, regulations or orders affecting materials, equipment, facilities or completed products, failure to obtain any required license or certificates, epidemics, quarantine restrictions, failure of vendors to perform their contracts or labor troubles causing cessation, slowdown, or interruption of work.

11. Manufacturer’s Statement of Origin. It is agreed that the manufacturer’s statement of origin (“MSO”) for the Ambulance covered by this Agreement shall remain in the possession of Atlantic until the entire Purchase Price has been paid. If more than one Ambulance is covered by this Agreement, then the MSO for each individual Ambulance shall remain in the possession of Atlantic until the Purchase Price for that Ambulance has been paid in full.

12. Assignment. Neither party may assign its rights and obligations under this Agreement unless it has obtained the prior written approval of the other party.

13. Severability. If any provision, or part hereof, of this Agreement shall be declared invalid by judicial determination or legislative action, only such provision, or part thereof, so declared invalid shall be affected, and all other provisions not consistent therewith or directly dependent thereon shall remain in force and effect.

14. Governing Law; Jurisdiction. Without regard to any conflict of law provisions, this Agreement is to be governed by and under the laws of the Commonwealth of Virginia. Atlantic and Customer further agree that the York County Circuit Court located in the Commonwealth of Virginia shall be the exclusive venue in the event of any litigation relating to this Agreement and/or the Ambulance.

15. Entire Agreement and Amendments. This Agreement constitutes the sole and only agreement between Atlantic and Customer relating to the Ambulance, and supersedes any prior understanding or written or oral agreements between the parties relating to the Ambulance. No amendment, modification or alteration of the terms hereof shall be binding unless the same is executed in writing, dated subsequent to the date hereof and duly executed by Atlantic and Customer.

16. Waiver. The waiver of any breach of any term or provision hereof by either party hereto shall not be considered a waiver of any other term or provision or of any other or later breach of this Agreement, regardless of the nature of such subsequent event or breach, unless such waiver is expressly stated in writing by an authorized representative of the waiving party.

17. Captions; Counterparts. The captions and paragraph numbers appearing herein are inserted only as a matter of convenience and are not intended to define, limit, construe or describe the scope or intent of any paragraph, nor to in any way affect this Agreement or the interpretation or application thereof. This Agreement may be executed in duplicate counterparts which, when taken together, shall constitute one and the same Agreement.

Accepted and agreed to by:

**ATLANTIC EMERGENCY SOLUTIONS, INC.**

**CUSTOMER: Warren County Fire & Rescue**

**Signature:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**EXHIBIT A**

**SPECIFICATIONS AND  
PURCHASE DETAIL FORM**

Atlantic Emergency Solutions, Inc.  
Director of Order Management  
12351 Randolph Ridge Lane  
Manassas, Virginia 20109  
Fax (703) 257-2572

Date: September 21, 2022

Customer Name: Warren County Fire & Rescue \_\_\_\_\_

| Quantity | Chassis Type      | Body Type         | Price per Unit |
|----------|-------------------|-------------------|----------------|
| 2        | Ford F450 4X4 Gas | Wheeled Coach Mod | \$326,817.00   |
|          |                   |                   | \$             |
|          |                   |                   | \$             |
|          |                   |                   | \$             |
|          |                   |                   | \$             |

Payment Terms: Payment in full on delivery \_\_\_\_\_

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Other Terms: \_\_\_\_\_

Specifications: A complete copy of the applicable Specifications is attached hereto and incorporated herein by this reference.

Training Requirements: \_\_\_\_\_

If any portion of the Purchase Price is to be made subsequent to delivery of the Ambulance to Customer and it is necessary for Customer to obtain third-party financing for said payment, Customer shall provide Atlantic proof of the availability of financing at the time of the execution of this Agreement. All taxes, excises and levies that Atlantic may be required to pay or collect by reason of any present or future law or by any governmental authority based upon the sale, purchase, delivery, storage, processing, use, consumption, or transportation of the Ambulance sold by Atlantic to Customer shall be added to the Purchase Price and paid by Customer. All delivery prices or prices with freight allowance are based upon prevailing freight rates and, in the event of any increase or decrease in such rates, the Purchase Price will be increased or decreased accordingly. Delinquent payments shall be subject to a carrying charge equal to one and one-half percent (1.5%) per month or, if such amount exceeds that permitted under the law, then the maximum lesser percentage amount which is permitted by law.

**EXHIBIT B**

**WARRANTY**

**(A complete copy of any and all applicable warranties is attached  
hereto and incorporated herein by this reference.)**



## Standard Conversion Warranty

Rev Ambulance Group Orlando Inc., (hereinafter Rev) ("Warrantor") warrants to the original retail purchaser for an unlimited mileage for a period of twelve (12) months from the date of delivery. This product shall be free of substantial defects in materials and workmanship, which are attributable to the Wheeled Coach brand and which arise during the course of normal use and service. Rev will correct any defect in material or workmanship, with either new or used replacement parts, at Rev's option. Such repair including both parts and labor, is at Rev's expense. All warranty service is subject to Rev's prior examination and (written) approval and will be performed by Rev or at service centers designated by Rev. This warranty is valid only in the United States and Canada, and any vehicle sold for use outside of the United States and Canada is sold "AS IS."

### WARRANTY PERFORMANCE

Owner's exclusive remedy under this warranty shall be repair or replacement of defective parts, free of charge to the Owner. Owner shall bear all expenses arising out of or relating to transporting the product to the appropriate Warranty Service Location.

### Warranty Exclusions and Limitations

This Limited Ambulance Warranty **DOES NOT COVER:**

1. Damage to the soft trim and appearance items if such damage is due to normal use, wear and tear, or exposure to elements.
2. Accessories, components, and/or parts not manufactured by Warrantor, which items include (but are not limited to): the chassis and its component parts, tires, tire balancing, aftermarket suspension components, wheel alignment, inverters, sirens, light bulbs, light bars, battery chargers, generator, air conditioners, radios, power converters, batteries, other electronic, sealants, hardware, moldings, windows, fender rings, and/or attachments and accessories. The manufacturers of these products may provide warranties covering the performance of their particular products.
3. Normal maintenance such as lubrication, batteries, tires, filter and oil replacement, belts and hoses, brake lining and adjustment, and vehicle alignments. Normal wear parts such as electrical accessories, voltage regulator, flashers, switches, etc.
4. Scratches or dents on the body, windows, and window shields not reported within 30 days of delivery.
5. Vinyl or painted graphics in any form not originally installed by Rev.
6. Damage to products that have been improperly installed, altered or modified by any party other than Warrantor.
7. Damage caused by misuse, neglect, negligence or accident. Usage of this product in a manner, which is inconsistent with design intentions or inconsistent with owner's manual directions, will invalidate this warranty in regard to damage caused by or relating to such inconsistent usage.
8. Damage caused by owner's failure to provide normal maintenance. Failure to follow operating instructions.
9. Damage caused by floods, fire, wind, hail, lightning, and/or any natural disaster.
10. Damage caused by replacement or modification of original parts and/or components. This includes but is not limited to improper or unauthorized installation of repairs, and/or attachments.
11. Rev shall not be liable for incidental, consequential, direct, indirect, or other damages (such as, but not limited to, lost wages, inconvenience, lodging, travel costs, or lost vehicle rental expenses) that result from breach of written warranty or any implied warranty.
12. Damage to a Rev vehicle that is leased or rented to a second party
13. Custom module if altered by welding, cutting or splicing, or improper drilling without Rev's prior written approval
14. Custom module systems and components damaged as a result of corrosion, including, but not limited to, salt and/or acidic exposure.
15. Claims presented without proper Warranty documentation and/or pictures.

**Limitation on Damages:** Rev shall not be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. Such damages include, but are not limited to, lost wages, lost vehicle rental expenses, loss of savings, profits, or revenue, loss of use of the vehicle or any associated equipment, cost of capital, cost of any substitute vehicle, equipment, facilities or services, downtime, the claims of third parties including customers, and injury to property. This limitation does not apply to claims for personal injury. Some states do not allow limits on warranties, or on remedies for breach in certain transactions. In such states, the limits in this paragraph and in the disclaimer of warranty may not apply.

**Warranty Registration:** This warranty is conditioned upon receipt by Rev of a completed and signed warranty registration card within two weeks of delivery. It is the obligation of the purchaser to sign the customer registration card and return it to Rev within the two weeks following delivery. The warranty registration card must be on file for any warranty claim to be considered. This warranty is not transferrable.

**Warranty Claim Procedure:** If the owner discovers within this period a defect in material or workmanship, the owner must promptly notify Rev in writing. All post-delivery inspection claims must be completed within 30 days of the delivery of the vehicle. In no event shall such notification be received by Rev later than 13 months from the date of delivery to the original purchaser. All warranty work is subject to Rev's examination and approval. If authorized by Rev, the obligation of Rev is limited to repairing or replacing, per the warranty schedule, to the original purchaser. The Purchaser must contact Rev in writing or call Rev's customer service department toll free at 855-661-9232 Monday through Friday from 8:00 to 5:00 pm (Eastern Time) prior to any warranty work being performed. Rev will provide the purchaser with a warranty claim form and further instructions on how to proceed with such warranty claim. All warranty correspondence must be sent to Rev, PO Box 677339, Orlando, Florida 32867-7339. Or, [REVOrlandoservice@revgroup.com](mailto:REVOrlandoservice@revgroup.com). In the case of products, components or parts covered by the warranty of another manufacturer, Rev will pass on to the owner the existing manufacturer's warranty to the extent reasonably possible. All claimed defective parts are to be returned by the original purchaser, transportation expenses for returned parts pre-paid to Rev within 30 days of receipt of the replacement part or parts sent by Rev. If the claimed defective part(s) are not received by Rev within the 30 day grace period, or if the claimed defect cannot be authenticated, the original purchaser will be charged the full value of the replacement parts plus shipping and handling. Invoices for approved warranties must be sent within 30 days of approval. Invoices sent after 30 days of approval will be covered at 50% of the approved amount. Invoices sent after 60 days will not be covered. All invoices must reference Our claim number provided in The Claim Statement approval document sent to you by a member of the warranty team. If an invoice is received without our claim number, it may be rejected, and we will advise you to follow the abovementioned warranty claim procedure.

**Third Party Representations:** Rev does not authorize any person to create for Rev any other obligations or liability in connection with its custom module, and Rev is not responsible for any representation, promise or warranty made by a dealer, component or vehicle manufacturer, or other person beyond what is expressly stated in this limited warranty.

**Warrantor's Rights:** Warrantor reserves the unrestricted right to change the parts and designs of its products from time to time without notice and with no obligation to make corresponding changes in the product previously manufactured.

**Disclaimer of Warranty:** The foregoing warranties are in lieu of all other warranties, express or implied. The implied warranties of merchantability and fitness for a particular purpose are expressly disclaimed.

**Warranty Termination:** The warranty shall be void, and Rev shall be relieved from any and all obligations hereunder, if:

1. The motor vehicle is sold or any of the components are removed.
2. The chassis is remounted, unless the remount work is performed by Rev or by a service facility approved, in advance and in writing, by Rev.
3. Owner fails to comply with the warranty registration requirements described above.
4. Policy expiration date

**Time Limit for requesting Arbitration:** Any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

**Legal Remedies:** Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Orange County, Florida in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Florida shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award



shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

**No Other Warranty:** Unless modified in a written statement signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties (including without limitation any terms and conditions contained in any purchase order or sales invoice issued pursuant to the sale of the vehicle) relating to the subject matter of this agreement. No employee of Rev or any other party is authorized to make any warranty in addition to those made in this agreement.



## LIMITED LIFETIME CABINET CONSTRUCTION WARRANTY

Rev Ambulance Group Orlando Inc., (hereinafter Rev) ("Warrantor") warrants to the original retail purchaser, upon expiration of the attached twelve (12) months standard conversion vehicle warranty. The following parts or components of the patient compartment cabinets of the Wheeled Coach vehicle will remain free from defects in material and workmanship:

- That the aluminum, wood or non-wood material used for the construction of the cabinets shall not delaminate.
- That the aluminum or wooden dowels used for the construction of the cabinets shall not allow the cabinet sections to separate.

This Cabinet Construction Warranty commences upon the expiration of the original Rev twelve (12) months standard conversion vehicle warranty and continues for the lifetime of the vehicle for the original owner on the original chassis. For the purpose of the Limited Lifetime Cabinet Construction Warranty, a lifetime is defined by Rev as; 10 years from the expiration of the original Rev twelve (12) months standard conversion vehicle warranty for only the original retail purchaser/owner. This warranty is valid only in the United States and Canada, and any vehicle sold for use outside of the United States and Canada is sold "AS IS."

If the owner discovers within this period a defect in the workmanship or material of any of the conditions listed above, it must promptly notify Rev in writing. In no event shall such notification be received by Rev later than one month after the date this Cabinet Construction Warranty expires. Within a reasonable time after such notification, Rev will correct any defect in workmanship or material by repairing or replacing same, at Rev's sole option. Such repair, including both parts and labor is at Rev's expense. All warranty service is subject to Rev's prior examination and written approval and will be performed by Rev or at service centers designated by Rev. All transportation to and from the designated service center will be at the owner's expense and is not included as a cost of repair covered by this warranty. These remedies are the owner's exclusive remedies for breach of warranty.

### Warranty Exclusions and Limitations

This Limited Lifetime Cabinet Construction Warranty DOES NOT COVER:

1. Any product, components or parts not manufactured by Rev or covered by the warranty of another manufacturer, whether installed by Rev or parties other than Rev, including but not limited to hinges, cabinet hardware, Lexan sliding or hinged door sections, frames around said door sections, cabinet or door hold open or closed devices, handles and similar equipment or items,
2. Damage caused by use of the vehicle for purposes other than those for which it was designed
3. Damage caused by accident or the negligence of the owner or any third party or by disasters such as fire, flood, wind and lightning,
4. Routine maintenance and maintenance items
5. Damage caused by the owner's failure to provide normal maintenance
6. Damage caused by unauthorized or improper installation of attachments, repairs or modifications
7. Damage during shipment
8. Any other abuse or misuse by the owner.
9. Exported and/or vehicles shipped to an international destination are excluded from this policy.
10. Claims presented without proper Warranty documentation or pictures.

**Limitation on Damages:** Rev shall not be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. Such damages include, but are not limited to, lost wages, lost vehicle rental expenses, loss of savings, profits, or revenue, loss of use of the vehicle or any associated equipment, cost of capital, cost of any substitute vehicle, equipment, facilities or services, downtime, the claims of third parties including customers, and injury to property. This limitation does not apply to claims for personal injury. Some states do not allow limits on warranties, or on remedies for breach in certain transactions. In such states, the limits in this paragraph and in the disclaimer of warranty may not apply.

**Warranty Registration:** This warranty is conditioned upon receipt by Rev of a completed and signed warranty registration card within two weeks of delivery. It is the obligation of the purchaser to sign the customer registration card and return it to Rev within the two weeks following delivery. The warranty registration card must be on file for any warranty claim to be considered. This warranty is not transferrable.

**Warranty Claim Procedure:** If the owner discovers, within the limited lifetime warranty period, a defect in material or workmanship, the owner must contact Rev in writing or call Rev's customer service department toll free at 855-661-9232 Monday through Friday from 8:00 to 5:00 pm (Eastern Time) prior to any warranty work being performed. Rev will provide the purchaser with a warranty claim form and further instructions on how to proceed with such warranty claim. All warranty correspondence must be sent to Rev, PO Box 677339, Orlando, Florida 32867-7339. Or, [REVOrlandoService@revgroup.com](mailto:REVOrlandoService@revgroup.com). In the case of products, components or parts covered by the warranty of another manufacturer, Rev will pass on to the owner the existing manufacturer's warranty to the extent reasonably possible. All claimed defective parts are to be returned by the original purchaser, transportation expenses for returned parts pre-paid to Rev within 30 days of receipt of the replacement part or parts sent by Rev. If the claimed defective part(s) are not received by Rev within the 30 day grace period, or if the claimed defect cannot be authenticated, the original purchaser will be charged the full value of the replacement parts plus shipping and handling. Invoices for approved warranties must be sent within 30 days of approval. Invoices sent after 30 days of approval will be covered at 50% of the approved amount. Invoices sent after 60 days will not be covered. All invoices must reference Our claim number provided in The Claim Statement approval document sent to you by a member of the warranty team. If an invoice is received without our claim number, it may be rejected, and we will advise you to follow the abovementioned warranty claim procedure.

**Third Party Representations:** Rev does not authorize any person to create for Rev any other obligations or liability in connection with its custom module, and Rev is not responsible for any representation, promise or warranty made by a dealer, component or vehicle manufacturer, or other person beyond what is expressly stated in this limited warranty.

**Warrantor's Rights:** Warrantor reserves the unrestricted right to change the parts and designs of its products from time to time without notice and with no obligation to make corresponding changes in the product previously manufactured.

**Disclaimer of Warranty:** The foregoing warranties are in lieu of all other warranties, express or implied. The implied warranties of merchantability and fitness for a particular purpose are expressly disclaimed.



**Warranty Termination:** The warranty shall be void, and Rev shall be relieved from any and all obligations hereunder, if:

1. The motor vehicle is sold or any of the components are removed.
2. The chassis is remounted, unless the remount work is performed by Rev or by a service facility approved, in advance and in writing, by Rev.
3. Owner fails to comply with the warranty registration requirements described above.
4. Policy expiration date

**Time Limit for requesting Arbitration:** Any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

**Legal Remedies:** Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Orange County, Florida in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Florida shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

**No Other Warranty:** Unless modified in a written statement signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties (including without limitation any terms and conditions contained in any purchase order or sales invoice issued pursuant to the sale of the vehicle) relating to the subject matter of this agreement. No employee of Rev or any other party is authorized to make any warranty in addition to those made in this agreement.



## Limited Electrical Warranty

Rev Ambulance Group Orlando Inc., (hereinafter Rev) ("Warrantor") warrants to the original retail purchaser for a period of twelve (12) months from the date of delivery of the completed new custom module to the end user, regardless of subsequent ownership. This product shall be free of substantial defects in materials and workmanship, which are attributable to the Wheeled Coach brand and which arise during the course of normal use and service. Rev will correct any defect in covered parts or workmanship, with either new or used replacement parts, at Rev's option. Covered parts are limited to custom module electrical systems and components such as electrical harness, harness installation, wires (but only to the extent that wires are broken, chafed, or pinched), electrical connections, terminal blocks, junction posts, and related components. Printed circuit boards are covered for a limited lifetime. A lifetime is defined by Rev Limited Electrical Warranty as; 10 years from the expiration of the original Rev standard conversion warranty which is for an unlimited mileage for a period of twelve (12) months from the date of delivery for only original retail purchaser/owner. All warranty service is subject to Rev prior examination and (written) approval and will be performed by Rev or at service centers designated by Rev. This warranty is valid only in the United States and Canada, and any vehicle sold for use outside of the United States and Canada is sold "AS IS."

### Component Manufacturer Warranty

Original component manufacturers may provide their own warranties. Purchasers should check the original component manufacturer's warranty regarding its coverage. Rev may assist the original retailer in submitting claim to the original component manufacturer within original manufacturer term period mentioned below.

❖ **Weldon (Vehicle Multiplex system)** (hereinafter VMUX) correctly is warranted against mechanical, electrical and physical defects for the period defined in the table below per module. The period is defined as the date of manufacture from Weldon; each module carries its own date of manufacture. Without (VMUX Certified Supplier) VCS, Weldon offers a 30-day parts-only warranty on all V-MUX hardware. Written notice of a defect must be received by Weldon within four (4) years after initial product shipment; unless an extended warranty is purchased. Note: Extended warranties are offered by purchasing tamper proof stickers from Weldon with the years of the warranty on them. Extended warranties extend the base warranty, a node with a 7 year sticker has an additional 3 years added to the 4 year standard. Damaged or removal of the label will result in no extended warranty. Weldon will correct by repair or replacement, at its option, equipment or parts which fail because of mechanical, electrical or physical defects, provided that the goods have been properly handled and stored prior to installation and properly installed and properly operated after installation. End users requiring warranty repairs on the V-MUX® system should contact the original equipment manufacturer's customer service or other appropriate department for service/warranty repairs. Weldon Repair Parts Labor Period is defined as the labor provided by Weldon's service department to repair/replace the returned device. This does not reflect the labor to remove/replace any such devices from the vehicle, nor indicate Weldon accepts any responsibility for such removal, replacement or troubleshooting of said devices. Please read below warranty exclusions below for items not covered by Weldon. Customer is responsible for verifying manufacturer warranties.

❖ **Weldon Exclusions and Limitations** – Weldon excludes and/or limits:

1. Cost to remove defective part, installation of repaired product, labor or consequential damages of any kind, and the exclusive remedy being to require such parts to be furnished.
2. Weldon's liability under no circumstances will exceed the contract price of goods claimed to be defective
3. Any returns under this guarantee are to be on a transportation charges prepaid basis.

### Warranty Performance

Owner's exclusive remedy under this warranty shall be repair or replacement of defective parts, free of charge to the Owner. Owner shall bear all expenses arising out of or relating to transporting the product to the appropriate Warranty Service Location.

### Warranty Exclusions and Limitations

This Limited Ambulance Warranty **DOES NOT COVER:**

1. Damage to products that have been improperly installed, altered or modified by any party other than Warrantor.
2. Chassis electrical system and related components installed by the chassis supplier.
3. Electrical items which are not manufactured by Rev, but which are installed by Rev personnel. These items include, but are not limited to, the following: battery chargers; siren; inverters; generators; light bars and similar OEM equipment. These excluded items are typically covered by separate warranties supplied by the OEM manufacturer of the component. When necessary Rev personnel may assist the purchaser in pursuing warranty assistance with the OEM manufacturer of these excluded-components.
4. The cab and chassis (owner is responsible for verify warranty provided by Cab & Chassis manufacturer.) Any collateral damage from cab and chassis related electrical failure.
5. Replacement of routine maintenance items, such as voltage regulator, flashers, bulbs, batteries, switches, etc.
6. Non Electrical Components and Items not specified hereinabove as covered items.
7. Damage caused by misuse, neglect, negligence or accident. Usage of this product in a manner, which is inconsistent with design intentions or inconsistent with owner's manual directions, will invalidate this warranty in regard to damage caused by or relating to such inconsistent usage.
8. Periodic tightening and cleaning of connection terminals as required by customary routine maintenance.
9. Damage caused by owner's failure to provide normal maintenance. Failure to follow operating instructions.
10. Damage caused by floods, fire, wind, hail, lightning, and/or any natural disaster.
11. Damage caused by replacement or modification of original parts and/or components this includes but is not limited to improper or unauthorized installation of repairs, and/or attachments. Installation of any "aftermarket" devices including ancillary equipment used in emergency service calls or the modification of any existing system or component originally installed by Rev without Rev's express written approval and any problems resulting from such installation or modification.
12. Rev shall not be liable for incidental, consequential, direct, indirect, or other damages (such as, but not limited to, lost wages, inconvenience, lodging, travel costs (expense of transporting the product to an authorized service center for service, and all expense arising from or relating to such transportation), or lost vehicle rental expenses) that result from breach of written warranty or any implied warranty.
13. Damage to a Rev vehicle that is leased or rented to a second party

**Limitation on Damages:** Rev shall not be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. Such damages include, but are not limited to, lost wages, lost vehicle rental expenses, loss of savings, profits, or revenue, loss of use of the vehicle or any associated equipment, cost of capital, cost of any substitute vehicle, equipment, facilities or services, downtime, the claims of third parties including customers, and injury to property. This limitation does not apply to claims for personal injury. Some states do not allow limits on warranties, or on remedies for breach in certain transactions. In such states, the limits in this paragraph and in the disclaimer of warranty may not apply.

**Warranty Registration:** This warranty is conditioned upon receipt by Rev of a completed and signed warranty registration card within two weeks of delivery. It is the obligation of the purchaser to sign the customer registration card and return it to Rev within the two weeks following delivery. The warranty registration card must be on file for any warranty claim to be considered. This warranty is not transferable.

**Warranty Claim Procedure:** If the owner discovers within this period a defect in material or workmanship it must promptly notify Rev in writing. In no event shall such notification be received by Rev later than 13 months from the date of delivery to the original purchaser. All warranty work is subject to Rev's examination and approval. If authorized by Rev, the obligation of Rev is limited to repairing or replacing, per the warranty schedule, to the original purchaser. The Purchaser must contact Rev in writing or call Rev's customer service department toll free at 855-661-9232 Monday through Friday from 8:00 to 5:00 pm (Eastern Time) prior to any warranty work being performed. Rev will provide the purchaser with a warranty claim form and further instructions on how to proceed with such warranty claim. All warranty correspondence must be sent to Rev, PO Box 677339, Orlando, Florida 32867-7339. Or, [REVOrlandoService@revgroup.com](mailto:REVOrlandoService@revgroup.com). In the case of products, components or parts covered by the warranty of another manufacturer, Rev will pass on to the owner the existing manufacturer's warranty to the extent reasonably possible. All claimed defective parts are to be returned by the original purchaser, transportation expenses for returned parts pre-paid to Rev within 30 days of receipt of the replacement part or parts sent by Rev. If the claimed defective part(s) are not received by Rev within the 30 day grace period, or if the claimed defect cannot be authenticated, the original purchaser will be charged the full value of the replacement parts plus shipping and handling. Invoices for approved warranties must be sent within 30 days of approval. Invoices sent after 30 days of approval will be covered at 50% of the approved amount. Invoices sent after 60 days will not be covered. All invoices must reference Our claim number provided in The Claim Statement approval document sent to you by a member of the warranty team. If an invoice is received without our claim number, it may be rejected, and we will advise you to follow the abovementioned warranty claim procedure.



**Third Party Representations:** Rev does not authorize any person to create for Rev any other obligations or liability in connection with its custom module, and Rev is not responsible for any representation, promise or warranty made by a dealer, component or vehicle manufacturer, or other person beyond what is expressly stated in this limited warranty.

**Warrantor's Rights:** Warrantor reserves the unrestricted right to change the parts and designs of its products from time to time without notice and with no obligation to make corresponding changes in the product previously manufactured.

**Warranty Termination:** The warranty shall be void, and Rev shall be relieved from any and all obligations hereunder, if:

1. The motor vehicle is sold or any of the components are removed.
2. The chassis is remounted, unless the remount work is performed by Rev or by a service facility approved, in advance and in writing, by Rev.
3. Owner fails to comply with the warranty registration requirements described above.
4. Policy expiration date

**Time Limit for requesting Arbitration:** Any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

**Legal Remedies:** Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Orange County, Florida in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Florida shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

**No Other Warranty:** Unless modified in a written statement signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties (including without limitation any terms and conditions contained in any purchase order or sales invoice issued pursuant to the sale of the vehicle) relating to the subject matter of this agreement. No employee of Rev or any other party is authorized to make any warranty in addition to those made in this agreement.



#### Modular Structure Limited Lifetime Warranty

Rev Ambulance Group Orlando Inc., (hereinafter Rev) ("Warrantor") warrants to the original retail purchaser only, that the Wheeled Coach module structure that is the subject of this sale is structurally sound and free from all structural defects in material and workmanship and further warrants the module structure will remain free of structural damage due to rusting caused by electrolysis. The custom module structure limited warranty is in effect for the lifetime of a new vehicle. For the purpose of the lifetime custom module limited warranty, a lifetime is defined by Rev as; 15 years from the date of original retail owner's purchase/in-service date from Rev or the period of time the ambulance is in continuous front line service with the original retail purchaser. In the event of a module remount this custom module structural warranty shall remain in effect provided the remount work is completed within the defined lifetime period, and remount work is completed by Rev or a facility Rev authorizes. This limited warranty covers repairs or replacement of any part of your new Rev custom module structure (hereinafter Covered Parts) in which a defect in materials or workmanship appears during normal use, maintenance or service within the limited warranty period, subject to the limitations and exclusions. The repair or replacement does not extend the life of the limited warranty except where state or provincial law otherwise provides for an extension during the time that the Covered Part is being repaired or replaced under this limited warranty. Covered Parts are limited to custom module systems and components such as custom module body, exterior doors, and interior aluminum cabinets. Rev will not replace the ambulance or repurchase the ambulance. All warranty service is subject to Rev's prior examination and (written) approval and will be performed by Rev or at service centers designated by Rev. This warranty is valid only in the United States and Canada, and any vehicle sold for use outside of the United States and Canada is sold "AS IS."

#### Warranty Performance

Owner's exclusive remedy under this warranty shall be repair or replacement of defective parts, free of charge to the Owner. Owner shall bear all expenses arising out of or relating to transporting the product to the appropriate Warranty Service Location.

#### Warranty Exclusions and Limitations

This Limited Ambulance Warranty **DOES NOT COVER:**

1. All paint, striping, hardware, hinges, latches, moldings, windows, appointments and accessories.
2. Any and all structural defects resulting from any form of accident or operator negligence.
3. Material or parts manufactured by other entities, including but not limited to sealants, hardware, moldings, windows, fenderettes and other appointments and accessories.
4. Damage caused by misuse, neglect, negligence or accident. Usage of this product in a manner, which is inconsistent with design intentions or inconsistent with owner's manual directions, will invalidate this warranty in regard to damage caused by or relating to such inconsistent usage.
5. Damage caused by owner's failure to provide normal maintenance. Failure to follow operating instructions.
6. Damage caused by floods, fire, wind, hail, lightning, any natural disaster, overloading, chemical fallout, industrial contamination, and/or vandalism.
7. Damage caused by replacement or modification of original parts and/or components this includes but is not limited to improper or unauthorized installation of attachments, repairs, modifications or alterations.
8. Damage caused by replacement of original parts or components with unauthorized substitutes.
9. Damage during shipment.
10. Rev shall not be liable for incidental, consequential, direct, indirect, or other damages (such as, but not limited to, lost wages, inconvenience, lodging, travel costs, or lost vehicle rental expenses) that result from breach of written warranty or any implied warranty.
11. Damage to a Rev vehicle that is leased or rented to a second party.
12. Damage to products that have been improperly installed, altered or modified by any party other than Warrantor.
13. General tightening, lubrication of latches, catches, and electrical components.
14. Interior cabinets.
15. Fiberglass components
16. Installation of any "aftermarket" devices including ancillary equipment used in emergency service calls or the modification of any existing system or component originally installed by Rev without Rev's prior express written approval and any problems resulting from such installation or modification.
17. Custom module if altered by welding, cutting or splicing, or improper drilling without Rev's prior written approval.
18. Custom module components damaged as a result of corrosion, including, but not limited to, acid rain, blisters, deicing chemicals, road salt additives and/or acidic exposure.

**Limitation on Damages:** Rev shall not be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. Such damages include, but are not limited to, lost wages, lost vehicle rental expenses, loss of savings, profits, or revenue, loss of use of the vehicle or any associated equipment, cost of capital, cost of any substitute vehicle, equipment, facilities or services, downtime, the claims of third parties including customers, and injury to property. This limitation does not apply to claims for personal injury. Some States do not allow limits on warranties, or on remedies for breach in certain transactions. In such States, the limits in this paragraph and in the disclaimer of warranty may not apply.

**Warranty Registration:** This warranty is conditioned upon receipt by Rev of a completed and signed warranty registration card within two weeks of delivery. It is the obligation of the purchaser to sign the customer registration card and return it to Rev within the two weeks following delivery. The warranty registration card must be on file for any warranty claim to be considered. This warranty is not transferrable.

**Warranty Claim Procedure:** If the owner discovers within this period a defect in material or workmanship, the owner must promptly notify Rev in writing. All post-delivery inspection claims must be completed within 30 days of the delivery of the vehicle. In no event shall such notification be received by Rev later than 13 months from the date of delivery to the original purchaser. All warranty work is subject to Rev's examination and approval. If authorized by Rev, the obligation of Rev is limited to repairing or replacing, per the warranty schedule, to the original purchaser. The Purchaser must contact Rev in writing or call Rev's customer service department toll free at 855-661-9232 Monday through Friday from 8:00 to 5:00 pm (Eastern Time) prior to any warranty work being performed. Rev will provide the purchaser with a warranty claim form and further instructions on how to proceed with such warranty claim. All warranty correspondence must be sent to Rev, PO Box 677339, Orlando, Florida 32867-7339. Or, [REVOrlandoService@revgroup.com](mailto:REVOrlandoService@revgroup.com). In the case of products, components or parts covered by the warranty of another manufacturer, Rev will pass on to the owner the existing manufacturer's warranty to the extent reasonably possible. All claimed defective parts are to be returned by the original purchaser, transportation expenses for returned parts pre-paid to Rev within 30 days of receipt of the replacement part or parts sent by Rev. If the claimed defective part(s) are not received by Rev within the 30 day grace period, or if the claimed defect cannot be authenticated, the original purchaser will be charged the full value of the replacement parts plus shipping and handling. Invoices for approved warranties must be sent within 30 days of approval. Invoices sent after 30 days of approval will be covered at 50% of the approved amount. Invoices sent after 60 days will not be covered. All invoices must reference Our claim number provided in The Claim Statement approval document sent to you by a member of the warranty team. If an invoice is received without our claim number, it may be rejected, and we will advise you to follow the abovementioned warranty claim procedure.

**Third Party Representations:** Rev does not authorize any person to create for Rev any other obligations or liability in connection with its custom module, and Rev is not responsible for any representation, promise or warranty made by a dealer, component or vehicle manufacturer, or other person beyond what is expressly stated in this limited warranty.

**Warrantor's Rights:** Warrantor reserves the unrestricted right to change the parts and designs of its products from time to time without notice and with no obligation to make corresponding changes in the product previously manufactured.

**Disclaimer of Warranty:** The foregoing warranties are in lieu of all other warranties, express or implied. The implied warranties of merchantability and fitness for a particular purpose are expressly disclaimed.

**Warranty Termination:** The warranty shall be void, and Rev shall be relieved from any and all obligations hereunder, if:

1. The motor vehicle is sold or any of the components are removed.
2. The chassis is remounted, unless the remount work is performed by Rev or by a service facility approved, in advance and in writing, by Rev.
3. Owner fails to comply with the warranty registration requirements described above.
4. Policy expiration date



**Time Limit for requesting Arbitration:** Any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

**Legal Remedies:** Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Orange County, Florida in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Florida shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

**No Other Warranty:** Unless modified in a written statement signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties (including without limitation any terms and conditions contained in any purchase order or sales invoice issued pursuant to the sale of the vehicle) relating to the subject matter of this agreement. No employee of Rev or any other party is authorized to make any warranty in addition to those made in this agreement.



Modular Warranty Certificate  
Body Paint Warranty

Rev Ambulance Group Orlando Inc., (hereinafter Rev) ("Warrantor") warrants to the original retail purchaser, under normal use and service, each new Wheeled Coach modular body paint job is free of all material and workmanship defects for a prorated period of five (5) years from the date of delivery. All warranty service is subject to Rev's prior examination and (written) approval. All warranty service will be performed by Rev or at service centers designated by Rev. This warranty is valid only in the United States and Canada, and any vehicle sold for use outside of the United States and Canada is sold "AS IS." The paint applied by Rev is limited to the original user and limited to the exterior painted surface of the module according to this warranty schedule:

|              |      |
|--------------|------|
| 0-36 months  | 100% |
| 37-48 months | 50%  |
| 49-60 months | 25%  |

The warranty provided herein shall cover and extend to the following properties of the paint system according to the warranty schedule:

- Loss of adhesion of the paint system resulting in rust
- Cracking of paint system
- Fading or loss of gloss

Repair or replacement of covered parts by a Rev Authorized Service Center is the exclusive remedy under this limited warranty. Rev will not replace the ambulance or repurchase the ambulance from you. The repair of a vehicle does not extend the life of the warranty except where state or provincial law otherwise provides for an extension during the time covered repair is under warranty.

**Modular Body Paint Warranty Exclusions and Limitations**

The following conditions are specifically excluded from the Rev Modular Body Paint Warranty:

- Exterior finish on any fiberglass components, including but not limited to hardware moldings, windows, mirrors, lights and other appointments and accessories
- Hazing, chalking, or loss of gloss caused by improper care, abrasive polishes, cleaning agents, heavy duty pressure washing, or aggressive mechanical wash systems;
- Paint deterioration caused by abuse, accidents, acid rain, hail, blisters, deicing chemicals, road salt additives, film degradation due to rust or corrosion originating from substrate, chemical fallout or acts of nature;
- Damage resulting from crevice corrosion
- Accidents, scratches, chips, bruises, and gloss reduction due to normal vehicle use and maintenance
- Re-application of custom finishes, custom decals, hand lettering, exotic finishes or any other finish other than standard refinish procedure;
- Scratches, chips, UV Paint fade, or gloss reduction due to normal wear and tear
- All paint hardware, hinges, latches, windows, appointments and accessories
- Gold leaf, decals, graphics, stickers, name plates, or striping except that which is affected by repair
- Paint failures resulting from the improper application of striping, tapes, decals or custom painted designs
- Repairs done to previously refinished areas unless stripped to bare metal and appropriate substrate
- Any product finishes, component finishes or finishes of parts not manufactured by Rev, including the chassis
- Defects resulting from normal and customary wear as a result of operating the vehicle
- Defects caused by installation of any devices and/or modification of any existing system or component originally installed by Rev without Rev's prior express written approval and any problems resulting from such installation or modification
- Repairs or alterations done over previously refinished areas, unless stripped to bare metal or appropriate substrata
- Paint if altered by welding, cutting or splicing, or improper drilling without Rev's prior written approval.
- Damage that occurs during shipment
- Damage caused by abrasion of external foreign objects
- Claims presented without proper Warranty documentation or pictures
- Rev shall not be liable for incidental, consequential, direct, indirect, or other damages (such as, but not limited to, lost wages, lodging, travel costs, or lost vehicle rental expenses) that result from breach of written warranty or any implied warranty.

**Limitation on Damages:** Rev shall not be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. Such damages include, but are not limited to, lost wages, lost vehicle rental expenses, loss of savings, profits, or revenue, loss of use of the vehicle or any associated equipment, cost of capital, cost of any substitute vehicle, equipment, facilities or services, downtime, the claims of third parties including customers, and injury to property. This limitation does not apply to claims for personal injury. Some states do not allow limits on warranties, or on remedies for breach in certain transactions. In such states, the limits in this paragraph and in the disclaimer of warranty may not apply.

**Warranty Registration:** This warranty is conditioned upon receipt by Rev of a completed and signed warranty registration card within two weeks of delivery. It is the obligation of the purchaser to sign the customer registration card and return it to Rev within the two weeks following delivery. The warranty registration card must be on file for any warranty claim to be considered. This warranty is not transferrable.

**Warranty Claim Procedure:** The original purchaser shall notify Rev within thirty (30) days of the first signs of the claimed defect or perforation. All warranty work is subject to Rev's examination and approval. If authorized by Rev, the obligation of Rev is limited to repairing or replacing, per the warranty schedule, to the original purchaser. The Purchaser must contact Rev in writing or call Rev's customer service department toll free at 855-661-9232 Monday through Friday from 8:00 to 5:00 pm (Eastern Time) prior to any warranty work being performed. Rev will provide the purchaser with a warranty claim form and further instructions on how to proceed with such warranty claim. All warranty correspondence must be sent to Rev, PO Box 677339, Orlando, Florida 32867-7339. Or, [REVOrlandoService@revgroup.com](mailto:REVOrlandoService@revgroup.com). In the case of products, components or parts covered by the warranty of another manufacturer, Rev will pass on to the owner the existing manufacturer's warranty to the extent reasonably possible. Invoices for approved warranties must be sent within 30 days of approval. Invoices sent after 30 days of approval will be covered at 50% of the approved amount. Invoices sent after 60 days will not be covered. All invoices must reference Our claim number provided in The Claim Statement approval document sent to you by a member of the warranty team. If an invoice is received without our claim number, it may be rejected, and we will advise you to follow the abovementioned warranty claim procedure.

**Third Party Representations:** Rev does not authorize any person to create for Rev any other obligations or liability in connection with its custom module, and Rev is not responsible for any representation, promise or warranty made by a dealer, component or vehicle manufacturer, or other person beyond what is expressly stated in this limited warranty.

**Warrantor's Rights:** Warrantor reserves the unrestricted right to change the parts and designs of its products from time to time without notice and with no obligation to make corresponding changes in the product previously manufactured.



**Disclaimer of Warranty:** The foregoing warranties are in lieu of all other warranties, express or implied. The implied warranties of merchantability and fitness for a particular purpose are expressly disclaimed.

**Warranty Termination:** The warranty shall be void, and Rev shall be relieved from any and all obligations hereunder, if:

1. The motor vehicle is sold or any of the components are removed.
2. The chassis is remounted, unless the remount work is performed by Rev or by a service facility approved, in advance and in writing, by Rev.
3. Owner fails to comply with the warranty registration requirements described above.
4. Policy expiration date

**Time Limit for requesting Arbitration:** Any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

**Legal Remedies:** Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Orange County, Florida in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Florida shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel. Furthermore, any action for breach of warranty must be commenced within three months following the expiration of the warranty period.

**No Other Warranty:** Unless modified in a written statement signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties (including without limitation any terms and conditions contained in any purchase order or sales invoice issued pursuant to the sale of the vehicle) relating to the subject matter of this agreement. No employee of Rev or any other party is authorized to make any warranty in addition to those made in this agreement.



## QUOTATION

Warren County Fire & Rescue  
Mickey Sirna  
200 Skyline Drive  
Front Royal, VA 22630  
540-636-3830

Atlantic Emergency Solutions  
Nate Strong  
12351 Randolph Ridge Lane  
Manassas, VA 20109  
716-908-0151  
nstrong@atlanticemergency.com

Exp. Date: 11/30/2022  
Quote No: 10138-0019  
09/21/2022 19:14:38

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| PART NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | S     | DESCRIPTION                                                                                                                                                                                                                        | QTY | ID  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| <b>== WC-Wheeled Coach Boilerplate - 1.004 03/26/21 ==</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                    |     |     |
| <b>ORDER COORDINATOR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                                                                                                                                                                                                                    |     |     |
| 00-00-0015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | Order Coordinator - Factory to assign                                                                                                                                                                                              | 1   | REV |
| <b>INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                    |     |     |
| 00-01-4005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | >     | State Contract                                                                                                                                                                                                                     | 1   | REV |
| <b>WARRANTY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                                                                                                    |     |     |
| 00-02-8710                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | WC, Warranty, Conversion, 12 Month                                                                                                                                                                                                 | 1   | REV |
| 00-02-8720                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | WC, Warranty, Paint, 60 month Prorated, Standard                                                                                                                                                                                   | 1   | REV |
| 00-02-8730                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | WC, Warranty, Structural, 20 Years, Std., Mods                                                                                                                                                                                     | 1   | REV |
| 00-02-8740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | WC, Warranty, Limited Electrical                                                                                                                                                                                                   | 1   | REV |
| 00-02-8750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | WC, Warranty, Cabinet Construction                                                                                                                                                                                                 | 1   | REV |
| <b>== WC-Type 1 153 Module - 1.004 03/26/21 ==</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                    |     |     |
| 00-00-0247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <     | ***** OUTSIDE GRAPHICS- 24/7 *****                                                                                                                                                                                                 | 1   | REV |
| HAVE PICTURES TAKEN PRIOR TO THE UNIT ENTERING THE FINAL LINE FOR GRAPHICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                    |     |     |
| <b>CERTIFICATIONS REQUIRED</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                    |     |     |
| 00-05-0050                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <     | This unit built in accordance with KKK-A-1822-F in effect on the date of order with exceptions as noted herein.                                                                                                                    | 1   | REV |
| 00-05-0100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <     | MD, This unit built in accordance with KKK-A-1822-F CN 10 Cabinet Requirements<br>This unit as specified meets all requirements of KKK-A1822-F Change notice 10.<br><br>All cabinets shall be labeled as to their capacity Rating. | 1   | REV |
| <b>01- CHASSIS REQUIREMENTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                                                                                                    |     |     |
| <b>FORD CHASSIS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                    |     |     |
| 01-01-2318                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | S < > | WC, 2023 Ford F450, XLT 4X4, 84" C/A, 169"W/B, 16,500 GVWR 2022-1 SR#221390F                                                                                                                                                       | 1   | REV |
| 2023 Ford F450 4X4 169 wb Gas motor, aluminum wheels, OEM back up camera relocated to the rear of the module<br>Auto throttle OEM Ford<br>Dual Alternators OEM Ford<br>Mirrors, OEM, Heated/Remote<br>Cab seats OEM Captains chairs(no armrests)<br>New for 2020- Sync 3<br>Enhanced voice recognition communication and entertainment system<br>8" LCD Capacitive Touch screen in center stack w/swipe Capability<br>Pinch to Zoom capability<br>AppLink<br>911 assist<br>Apple carPlay and Android Auto<br>Smart-charging USB-C Ports (2) |       |                                                                                                                                                                                                                                    |     |     |
| 01-02-0100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | Domestic Chassis                                                                                                                                                                                                                   | 1   | REV |
| <b>ALTERNATORS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                    |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                                                                                                    |     |     |

| PART NO                                       | S        | DESCRIPTION                                                                                                                                                                              | QTY | ID  |
|-----------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 01-03-1001                                    |          | Alternator - Standard OEM                                                                                                                                                                | 1   | REV |
| <b>SUSPENSION</b>                             |          |                                                                                                                                                                                          |     |     |
| 01-07-7609                                    | <        | MD, Rear Suspension, Liquid Spring- 2017+ F450, 4x4<br>Dump Feature activated by the Left rear access door.<br>Override switch to be on rear entry door<br>Ignition switch Hot, Standard | 1   | REV |
|                                               |          | The rear suspension shall lower the module when the vehicle is in park. DO NOT<br>TIE TO THE PARKING BRAKE                                                                               |     |     |
|                                               |          | Control panel to be on the dash left of the steering wheel                                                                                                                               |     |     |
| <b>HIGH IDLE</b>                              |          |                                                                                                                                                                                          |     |     |
| 01-13-1675                                    |          | High Idle Controls, OEM                                                                                                                                                                  | 1   | REV |
| <b>FRONT END ALIGNMENT</b>                    |          |                                                                                                                                                                                          |     |     |
| 01-17-7501                                    |          | Front End Alignment, None- QC Check -Standard                                                                                                                                            | 1   | REV |
| 01-19-0003                                    | <        | WC, Wheeled Coach Stainless Grille Logo, with Red Reflective backing<br>Red reflective behind cut out.                                                                                   | 1   | REV |
| <b>OUTSIDE REAR VIEW MIRRORS</b>              |          |                                                                                                                                                                                          |     |     |
| 01-20-0104                                    |          | Mirrors, OEM-STD                                                                                                                                                                         | 1   | REV |
| 01-21-4600                                    |          | MD, Cab Flooring, Black Rubber, F350/450, OEM                                                                                                                                            | 1   | REV |
| <b>WHEEL COVERS</b>                           |          |                                                                                                                                                                                          |     |     |
| 01-24-2022                                    |          | MD, Wheel Covers, Delete Set of Four (4)                                                                                                                                                 | 1   | REV |
| <b>BASE CONVERSION</b>                        |          |                                                                                                                                                                                          |     |     |
| 01-45-0210                                    |          | WC, Conversion, Type 1, 153 Module, F450 4x4 22-2                                                                                                                                        | 1   | REV |
| <b>MODULE BODIES:</b>                         |          |                                                                                                                                                                                          |     |     |
| 02-01-20SR                                    | S<br>U < | Extend the module to 157"<br>SR#221390F                                                                                                                                                  | 1   | REV |
| 02-01-2122                                    |          | MD, Interior Headroom, 72 Inches                                                                                                                                                         | 1   | REV |
| 02-01-3115                                    | <        | WC, Module, Type 1, 153" Body Length, Duraseam Doors,<br>153" L x 95" W                                                                                                                  | 1   | REV |
| 02-01-3152                                    |          | MD, Body Width 95" Standard                                                                                                                                                              | 1   | REV |
| 02-01-9566                                    |          | MD, Aisle Space, 44-45", Type 1                                                                                                                                                          | 1   | REV |
| 02-02-1301                                    | >        | MD, All Module Skins, 0.125 inch                                                                                                                                                         | 1   | REV |
| <b>STRUCTURAL FRAMING - RFP</b>               |          |                                                                                                                                                                                          |     |     |
| 03-01-1501                                    |          | MD, Type 1, General Body Construction Spec                                                                                                                                               | 1   | REV |
| 03-01-1503                                    |          | MD, Type 1, Vehicle Body Structure Spec                                                                                                                                                  | 1   | REV |
| <b>UNDERCOATING</b>                           |          |                                                                                                                                                                                          |     |     |
| <b>EXTERIOR MODULE CONSTRUCTION</b>           |          |                                                                                                                                                                                          |     |     |
| 03-03-1040                                    | >        | MD, Stone Guard, Front, Diamond Plate, Type 1, Standard Height                                                                                                                           | 1   | REV |
| <b>DROP SKIRTS</b>                            |          |                                                                                                                                                                                          |     |     |
| 03-03-2511                                    | >        | MD, Drop Skirt both sides, 4" forward of rear wheels                                                                                                                                     | 1   | REV |
| <b>FUEL FILLS &amp; SPLASH PLATE</b>          |          |                                                                                                                                                                                          |     |     |
| 03-03-8030                                    | >        | MD, Housing Fuel Fill, Cast Aluminum, Type 1                                                                                                                                             | 1   | REV |
| <b>DEF FILL HOUSING AND SPLASH PLATE</b>      |          |                                                                                                                                                                                          |     |     |
| <b>REAR KICKPLATE</b>                         |          |                                                                                                                                                                                          |     |     |
| 03-03-9066                                    |          | WC, Rear Kick plate, Under-Ride Bumper, w/ Tag recess, No lights                                                                                                                         | 1   | REV |
| <b>SUB-FLOOR SYSTEM</b>                       |          |                                                                                                                                                                                          |     |     |
| 03-04-0166                                    |          | MD, Flooring, 3/4" Marine Grade Plywood, Type 1                                                                                                                                          | 1   | REV |
| <b>MODULE ENTRANCE</b>                        |          |                                                                                                                                                                                          |     |     |
| 03-05-0200                                    |          | MD, Module Access, CS Door standard location                                                                                                                                             | 1   | REV |
| <b>MODULE DOORS, HANDLES &amp; HOLD OPENS</b> |          |                                                                                                                                                                                          |     |     |
| 03-06-0115                                    | <        | WC, Duraseam Hinged Doors with Hidden Jambs<br>- Magnetic door switches, Standard                                                                                                        | 1   | REV |
| 03-06-0713                                    | < >      | MD, Hold Open Rear Entry Doors, (2) 5.5" Cast Grabber<br>- Installed so doors will open as wide as possible<br>- Mount at Bottom of doors.                                               | 1   | REV |
| 03-06-0817                                    | <        | MD, Hold Open - Gas Strut, Curb Side Entry Door, 35#<br>New Code Per ECN 1823                                                                                                            | 1   | REV |

| PART NO    | S   | DESCRIPTION                                                                                                                                                                                                                                                                                                                          | QTY | ID                |
|------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------|
| 03-06-1027 | <   | WC, Patient Entry Door Handles, Trimark Black/Chrome Pull Handle w/"SafePass"<br>With Round Push button Emergency release top and bottom of interior door panels.                                                                                                                                                                    | 1   | REV               |
| 03-06-4201 | >   | MD, Electrical Feed to Required Doors, Spring Protector (per Door)<br><b>POWER DOOR LOCKS</b><br><b>POWER DOOR LOCKS</b>                                                                                                                                                                                                             | 1   | REV<br>REV<br>REV |
| 03-06-6120 | < > | WC, Power Door Lock, Trimark, Each Entry Door<br><br>Module entry doors.<br><br>one switch installed on CS wall just inside the side entry door, one switch installed on the CS rear entry door panel.<br>Includes tie in to OEM cab chassis doors (including Key fobs if chassis is so equipped)                                    | 2   | REV               |
| 03-06-6121 | < > | WC, Power Door Lock, Trimark, Each Compartment Door<br><br>All module compartments(except battery comp) .<br>(unless other specified)                                                                                                                                                                                                | 6   | REV               |
| 03-06-6130 | < > | MD, Switch, Momentary Rocker,Activate Power Door Locks<br>(Note: will not lock/unlock Dodge cab doors)<br><br>Installed on C/S wall at head of S/B.<br>(unless otherwise specified)                                                                                                                                                  | 1   | REV               |
| 03-06-6134 | < > | MD, Switch, Remote Stealth, Cab/Mod Doors<br>In grille on passenger's side.                                                                                                                                                                                                                                                          | 1   | REV               |
| 03-06-6137 | < > | MD, Relay Control Circuit, Power Door Locks<br>(Use drop down menu to pick keyless entry if required)                                                                                                                                                                                                                                | 1   | REV               |
| 03-06-6140 |     | MD, Circuit, OEM Door Lock to activate Mod Doors                                                                                                                                                                                                                                                                                     | 1   | REV               |
| 03-06-6207 | >   | MD, Intermotive CAN module for 2017+ Ford F-series<br><b>ENTRY DOOR INNER PANELS</b>                                                                                                                                                                                                                                                 | 1   | REV<br>REV        |
| 03-06-7335 | < > | WC, Entry Door Panels, Durasafe, S/S,w/ Chevrons & Red Reflective LOGO<br>- Durasafe Design<br>- Aluminum Center Panels covered: white/red reflective tape<br>- Logo to be cut in the lower entry door panel with a RED reflective 3M material (to match the chevron on the lock box) attached to an aluminum panel behind the logo. | 1   | REV               |
|            |     | <b>SIDE DOOR STEP</b>                                                                                                                                                                                                                                                                                                                |     | REV               |
| 03-08-2112 |     | MD, Side Entry Step Well, Type I, Aluminum Diamond Plate                                                                                                                                                                                                                                                                             | 1   | REV               |
| 03-08-2157 |     | MD, Double Step Well                                                                                                                                                                                                                                                                                                                 | 1   | REV               |
| 03-08-3056 |     | MD, Light, Side Entry Step well, LED, Whelen #TOCACCCR, 2"                                                                                                                                                                                                                                                                           | 1   | REV               |
|            |     | <b>WINDOWS</b>                                                                                                                                                                                                                                                                                                                       |     | REV               |
| 03-09-4109 | >   | MD, Window, Upper, CS/Slider, Rr/Fixed, Privacy Tint, PAN                                                                                                                                                                                                                                                                            | 1   | REV               |
|            |     | <b>MODULE TO CHASSIS MOUNTING SYSTEM</b>                                                                                                                                                                                                                                                                                             |     | REV               |
| 03-10-1210 |     | MD, Module to chassis mounting system, Type I                                                                                                                                                                                                                                                                                        | 1   | REV               |
|            |     | <b>CAB TO MODULE</b>                                                                                                                                                                                                                                                                                                                 |     | REV               |
| 03-11-2502 | < > | MD, Bellows, Pass thru, Unigrip, F1 2008+,<br><br>With Aluminum cab insert.                                                                                                                                                                                                                                                          | 1   | REV               |
|            |     | <b>REAR BUMPER AND REAR STEP CONSTRUCTION</b>                                                                                                                                                                                                                                                                                        |     | REV               |
| 03-12-2503 | <   | MD, Rear Bumper w/ Skids & Flip Up, F1/C1, w/LED DOT lights<br><br>w/ Gator Grip on flip up step.                                                                                                                                                                                                                                    | 1   | REV               |
| 03-12-2550 |     | MD, Coating, Polyurethane, Rear Bumper Supports                                                                                                                                                                                                                                                                                      | 1   | REV               |
|            |     | <b>INSULATION</b>                                                                                                                                                                                                                                                                                                                    |     | REV               |
| 03-13-3006 |     | MD, Insulation, Walls and Ceiling, R11 Fiberglass Batt                                                                                                                                                                                                                                                                               | 1   | REV               |

| PART NO                                  | S   | DESCRIPTION                                                                                                                                                                    | QTY     | ID  |
|------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|
| <b>RUB RAIL AND FENDER RINGS</b>         |     |                                                                                                                                                                                |         |     |
| 03-15-6634                               |     | WC, Rub Rails, Skirt Line, Extruded Rubber w/Refl Tape, 146-153" Module                                                                                                        | 1       | REV |
| 03-15-8350                               |     | MD, Fender Flare, Black Rubber                                                                                                                                                 | 1       | REV |
| <b>SPLASH GUARDS AND RUNNING BOARDS</b>  |     |                                                                                                                                                                                |         |     |
| 03-16-1721                               |     | WC, Mud Flaps, Rear, w/ Wheeled Coach Logo                                                                                                                                     | 1       | REV |
| 03-16-3605                               |     | MD, Running Boards, F450/550 w/Gator Grip                                                                                                                                      | 1       | REV |
| <b>DRIP RAILS</b>                        |     |                                                                                                                                                                                |         |     |
| 03-17-1020                               |     | MD, Drip Rail Trim Moldings Over Door Openings                                                                                                                                 | 1       | REV |
| <b>CAB TO PATIENT AREA ACCESS</b>        |     |                                                                                                                                                                                |         |     |
| 03-19-2301                               |     | MD, Bulkhead, Unigrip, Type 1F/D, Pass Thru, w/ Sliding Lexan Window                                                                                                           | 1       | REV |
| 03-19-23SR                               | U < | CABINET BEHIND ATTENDANT SEAT ON BULKHEAD WALL<br>SR#221248F<br>There shall be a cabinet behind the attendant seat on the bulkhead wall                                        | 1       |     |
| <b>LICENSE PLATE HOLDER</b>              |     |                                                                                                                                                                                |         |     |
| 03-20-4053                               | <   | WC, License Plate Holder, Cast LP0002-1 for Under ride Bumper<br>in rear kick plate, centered<br>License holder comes with (2) LED lights.                                     | 1       | REV |
| <b>EXTERIOR COMPARTMENT CONSTRUCTION</b> |     |                                                                                                                                                                                |         |     |
| 04-01-0502                               | < > | MD, Exterior Compartment, Std, Floor 2.5" Drop Down from Door Opening, Each<br><br>compartments #2, #4, #6 and #6.5 are STD drop down floor                                    | 4       | REV |
| 04-01-0504                               | < > | MD, Exterior Compartment, Sweep out, Each<br>- Compartments #1 and #8 are standard sweep out                                                                                   | 2       | REV |
| 04-01-3017                               | <   | MD, Door Sill Protector, Stainless, All Comps<br>Door Sill Protection - Install Stainless Steel sill protector on lower edge of all door frames to prevent paint damage        | 1       | REV |
| 04-01-5106                               | <   | MD, Polyurethane Coating per compartment<br>light gray                                                                                                                         | 6       | REV |
| <b>EXTERIOR COMPARTMENT DOORS</b>        |     |                                                                                                                                                                                |         |     |
| 04-02-0506                               | >   | WC, Compartment Comp Handle, Trimark, Oval Pull Handle, Black/Chrome                                                                                                           | 6       | REV |
| <b>COMPARTMENT DOOR HOLD OPEN</b>        |     |                                                                                                                                                                                |         |     |
| 04-02-7751                               | < > | MD, Hold Open, Gas Strut, Ext Comp, 60lb<br>for comp. #2 & #4 hold open                                                                                                        | 2       | REV |
| 04-02-7753                               | <   | MD, Hold Open Gas Strut, Ext Comp, 30lb<br>Compartments 1, 6, 6.5                                                                                                              | 3       | REV |
| 04-02-7768                               | < > | WC, Strap, 2" wide Black, Retaining for Compartment Door<br>To prevent the door from opening past 90 degrees<br><br>6.5                                                        | 1       | REV |
| <b>COMPARTMENT LIGHTING</b>              |     |                                                                                                                                                                                |         |     |
| 04-03-1485                               | <   | MD, Compartment Lighting, LED Hi-Brite Flex, <160" Module<br>both vertical edges near door jambs, compartments "1", "2", "4", "6", "6.5", & "8".<br>Hi-Brite Piece as O2 light | 1<br>6" | REV |
| <b>COMPARTMENT #1 - STREETSIDE FWD</b>   |     |                                                                                                                                                                                |         |     |
| 04-06-0451                               |     | MD, Compartment #1, Full Height                                                                                                                                                | 1       | REV |
| 04-06-0476                               |     | MD, No Dogleg for Stair chair in Compartment #1                                                                                                                                | 1       | REV |
| 04-06-1830                               | < > | MD, Compartment #1, Fixed Divider, Vertical, O2 Height<br>full depth - left of O2                                                                                              | 1       | REV |
| 04-06-1939                               | <   | MD, Compartment #1, Strap, Seat Belt style, Each<br>from divider to #1 wall mid height                                                                                         | 1       | REV |

| PART NO                                          | S      | DESCRIPTION                                                                                                                                                                                                                                                                                        | QTY | REV ID |
|--------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------|
| <b>COMPARTMENT #2 - STREETSIDE FWD WHEELWELL</b> |        |                                                                                                                                                                                                                                                                                                    |     |        |
| 04-07-2142                                       |        | WC, Compartment #2, Std Aisle, Standard Configuration                                                                                                                                                                                                                                              | 1   | REV    |
| 04-07-2630                                       | <      | MD, Compartment #2, Shelf, Fixed, Electrical storage, w/ Divider                                                                                                                                                                                                                                   | 1   | REV    |
|                                                  |        | Area to right of divider will be used for bio-waste in A/A if selected. If no bio-waste, area to be left open for additional customer storage.                                                                                                                                                     |     |        |
| 04-08-2100                                       | < >    | MD, Compartment #3, NONE                                                                                                                                                                                                                                                                           | 1   | REV    |
|                                                  |        | Door Face attached to slide out tray                                                                                                                                                                                                                                                               |     |        |
| <b>COMPARTMENT #4 - STREETSIDE AFT</b>           |        |                                                                                                                                                                                                                                                                                                    |     |        |
| 04-09-00SR                                       | U <    | PAC Haligan Mount<br>SR#221474F                                                                                                                                                                                                                                                                    | 1   | REV    |
|                                                  |        | Install Performance Advantage company Halligan tool mount kit - K5032 in the number 4 compartment must provide precise placement(with dimensions) of bracket(s) on work order for Eng to add reinforcement if required and Production to mount. Must specify strap color on work order(B / Y / OR) |     |        |
|                                                  |        | wall #3 next to scba                                                                                                                                                                                                                                                                               |     |        |
| 04-09-01SR                                       | U <    | PAC Bolt Cutter Holder<br>SR#221474F                                                                                                                                                                                                                                                               | 1   |        |
|                                                  |        | Install Performance Advantage company Bolt Cutter Kit-K5029-1 in the number 4 compartment must provide precise placement(with dimensions) of bracket(s) on work order for Eng to add reinforcement if required and Production to mount.                                                            |     |        |
|                                                  |        | wall #1 next to scba                                                                                                                                                                                                                                                                               |     |        |
| 04-09-3249                                       | XS < > | MD, Compartment #4, Custom<br>SR #221390F                                                                                                                                                                                                                                                          | 1   | REV    |
|                                                  |        | TOP 34" OF "4" SHALL BE REDUCED DEPTH FOR INTERIOR CABINET ILOS reduced depth for interior shallow c4 cabinet                                                                                                                                                                                      |     |        |
| 04-09-32SR                                       | U <    | ALUMINUM PLATE FOR #4<br>SR#221390F                                                                                                                                                                                                                                                                | 1   |        |
|                                                  |        | Aluminum tool plate from mid height to floor t mounted to the rear wall. Unistrut mounted to tool board for scba mounting Install a .25" thick aluminum plate on the back wall of the streetside rear #4 compartment. Plate is to have a D/A finish. Install using Unistrut.                       |     |        |
| 04-09-3620                                       | < >    | MD, Compartment #4, Hooks, (2), For Turnouts, Ferno #559, Installed                                                                                                                                                                                                                                | 1   | REV    |
|                                                  |        | Located:<br>installed at final inspection                                                                                                                                                                                                                                                          |     |        |
| 04-09-4550                                       | S < >  | MD, Compartment #4, Shelf, Adjustable, w/Aluminum Track, First Shelf                                                                                                                                                                                                                               | 1   | REV    |
|                                                  |        | NO LIPS ON SHELF                                                                                                                                                                                                                                                                                   |     |        |
| <b>COMPARTMENT #6 - CURBSIDE AFT</b>             |        |                                                                                                                                                                                                                                                                                                    |     |        |
| 04-11-1097                                       |        | MD, Compartment #6, Full Height                                                                                                                                                                                                                                                                    | 1   | REV    |
| 04-11-2090                                       | <      | MD, Compartment #6, First Divider, Vertical, 3/16" Thick, Recessed Adj Track (divider to be full depth if a shelf is requested) centered.                                                                                                                                                          | 1   | REV    |
|                                                  |        | stair chair to the right of divider                                                                                                                                                                                                                                                                |     |        |
| 04-11-4530                                       | < >    | MD, Compartment #6, Shelf, Adjustable, First shelf w/Aluminum Track                                                                                                                                                                                                                                | 1   | REV    |
|                                                  |        | OVER STAIRCHAIR                                                                                                                                                                                                                                                                                    |     |        |
| 04-11-4652                                       | < >    | MD, Compartment #6, Equipment Strap, Seat Belt Style, Each                                                                                                                                                                                                                                         | 2   | REV    |
|                                                  |        | Nylon web strap w/ seat belt buckle and two (2) footman loops                                                                                                                                                                                                                                      |     |        |
| 04-11-4662                                       | < >    | MD, Compartment #6, Flat bar, 2", Backboard Retainer                                                                                                                                                                                                                                               | 1   | REV    |
|                                                  |        | Flatbar screwed at top of comp: just below hold-open device, to keep backboards                                                                                                                                                                                                                    |     |        |

| PART NO    | S   | DESCRIPTION                                                                                                                                                                                         | QTY | ID         |
|------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|
|            |     | from falling out.                                                                                                                                                                                   |     |            |
| 04-11-4665 | <   | MD, Compartment #6, Recessed Door Panel, Diamond Plate,for Stair Chair (per eng drawings #291182D & 291185D Rev C)                                                                                  | 1   | REV        |
|            |     | comp #6 door panel.                                                                                                                                                                                 |     |            |
|            |     | Approximately 11.75" of floor near wall #3 to be raised approximately 2.5-3" (for 6252 stair chair or Ferno EZ Glide)                                                                               |     |            |
|            |     | <b>COMPARTMENT #6.5 - CURBSIDE AFT WHEELWELL</b>                                                                                                                                                    |     | <b>REV</b> |
| 04-12-0130 | <   | WC, Compartment #6.5, Below Squad Bench Floor Level<br>use a strap instead of strut to open door past 90 degrees                                                                                    | 1   | REV        |
|            |     | <b>COMPARTMENT #8 - CURBSIDE UPPER FORWARD</b>                                                                                                                                                      |     | <b>REV</b> |
| 04-14-2170 | <   | MD, Compartment #8.5, Lower Battery Door Only, No Door #8<br>this will be exterior access only                                                                                                      | 1   | REV        |
|            |     | <b>INTERIOR TRIM AND FEATURES</b>                                                                                                                                                                   |     | <b>REV</b> |
| 05-01-0105 | < > | MD, Interior Cabinets, Duralite Construction, Wood, CN10 compliant<br>All cabinets shall be labeled with their Rated Weight Capacity.                                                               | 1   | REV        |
|            |     | <b>INTERIOR ADJUSTABLE SHELVES</b>                                                                                                                                                                  |     | <b>REV</b> |
| 05-02-0050 | >   | MD, Shelf, Interior, Wood , (1) adjustable, in Cabinet                                                                                                                                              | 3   | REV        |
| 05-02-0054 | < > | MD, Shelf Track, Cabinet, #HA24663, CN 10 Upgrade<br>("C" channel/exterior shelf style track)                                                                                                       | 4   | REV        |
|            |     | **This option may require quantity adjustment**                                                                                                                                                     |     |            |
|            |     | <b>HEADLINER</b>                                                                                                                                                                                    |     | <b>REV</b> |
| 05-06-2855 | < > | WC, Headliner, Flat, PVC, Hinged trough cover, w/8 HVAC DAK Ducts<br>The headliner shall include the two plenums that run from the HVAC system to the eight 3" ducts in the ceiling (4 per plenum). | 1   | REV        |
|            |     | <b>FLOORING</b>                                                                                                                                                                                     |     | <b>REV</b> |
| 05-07-0120 | < > | MD, Flooring, Lon Seal "Lonplate II "<br>With approximately 3" roll up both street side and curbside.                                                                                               | 1   | REV        |
| 05-07-0121 |     | MD, Color, Gunpowder Gray #424TX                                                                                                                                                                    | 1   | REV        |
| 05-07-9896 |     | MD, Floor, Thresholds, Stainless Steel,Painted w/Black Poly-urea coating                                                                                                                            | 1   | REV        |
|            |     | <b>Entry Door Grab Handles</b>                                                                                                                                                                      |     | <b>REV</b> |
| 05-10-1529 | <   | MD, Entry Door Grab Handles (3), Custom "L" Shape, 1", Yellow<br>- Yellow Powder Coat Finish Stainless Steel Grab Handles                                                                           | 1   | REV        |
|            |     | <b>Ceiling Grab Rail - Center</b>                                                                                                                                                                   |     | <b>REV</b> |
| 05-10-1922 | <   | MD, Ceiling Grab Rail, Overhead, 96.5", Handicap Style, Yellow<br>- Yellow Powder Coat Finish                                                                                                       | 2   | REV        |
|            |     | see drawings                                                                                                                                                                                        |     |            |
|            |     | <b>IV FLUID HANGERS</b>                                                                                                                                                                             |     | <b>REV</b> |
| 05-11-0017 | < > | MD, IV Hook, Cast, Fold Down Recessed Each<br>see drawings                                                                                                                                          | 2   | REV        |
|            |     | <b>ACTION WALL AREA #2</b>                                                                                                                                                                          |     | <b>REV</b> |
| 05-13-00SR | U < | L2 CABINET UNDER ACTION AREA<br>SR#221390F<br>L2 cabinet below AA as wide as we can make it - ENCOMPASS TRASH AREA AS WELL See Drawings pick slider in QW                                           | 1   |            |
| 05-13-00SS | U < | Radio Cut out in Action Area<br>SR#221474F<br><br>Radio cutout in Action area for APX 8500 radio must specify precise cutout size and location. Does not include a mounting bracket.                | 1   |            |

| PART NO                                   | S   | DESCRIPTION                                                                                                                                                                       | QTY | ID         |
|-------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|
| 05-13-3030                                |     | MD, Cabinet, A/A, Std Aisle, w/Bio waste,Rounded Corner                                                                                                                           | 1   | REV        |
| 05-13-4382                                | < > | MD, Tray, A/A, w/Bio waste, Corian Platinum Gray                                                                                                                                  | 1   | REV        |
| 05-13-4414                                |     | MD, AA Upper Cabinets, U2.5, U2, Combine into 1 Large Cabinet, Full Ht Comp 1                                                                                                     | 1   | REV        |
| <b>CABINET DOORS</b>                      |     |                                                                                                                                                                                   |     | <b>REV</b> |
| 05-13-4576                                | >   | MD, Doors, "U2.5,U2,U1" Combined,Restocking Gray Poly carbonate Slider,CN 10 Cer                                                                                                  | 1   | REV        |
| <b>Interior Street side #3 - CPR Seat</b> |     |                                                                                                                                                                                   |     | <b>REV</b> |
| 05-14-1532                                |     | MD, CPR side seat, Fixed Backrest                                                                                                                                                 | 1   | REV        |
| 05-14-1534                                | <   | MD, CPR, Lid, Hinged Flip Up With Trimark Latch                                                                                                                                   | 1   | REV        |
| 05-14-1547                                | <   | MD, Cabinet U3.5 deleted                                                                                                                                                          | 1   | REV        |
| 05-14-1577                                |     | MD, Cabinet C3.5, deleted For Telemetry Area                                                                                                                                      | 1   | REV        |
| 05-14-1587                                |     | MD, Cabinet L3.5, full height, std                                                                                                                                                | 1   | REV        |
| 05-14-4418                                | <   | MD, "U" Barrier Bar, Padded, 1.5" SS, CPR Seat, Gunmetal Mounted at the front of the CPR side seat vertically in line with the Padded head cushion on the upper AA cabinets.      | 1   | REV        |
| 05-14-4558                                | <   | MD, Telemetry Tray,Corian Platinum Gray                                                                                                                                           | 1   | REV        |
| <b>CABINET DOORS</b>                      |     |                                                                                                                                                                                   |     | <b>REV</b> |
| 05-14-4652                                | <   | MD, Doors, L3.5, Restocking Gray Poly carbonate Slider, CN 10 Compliant Hinged bottom                                                                                             | 1   | REV        |
| <b>STREETSIDE REAR AREA #4</b>            |     |                                                                                                                                                                                   |     | <b>REV</b> |
| 05-15-5051                                | >   | MD, Cabinet U4, Combined with U3.5                                                                                                                                                | 1   | REV        |
| 05-15-5111                                | <   | MD, Cabinet C4, 6" depth                                                                                                                                                          | 1   | REV        |
|                                           |     | see drawings                                                                                                                                                                      |     |            |
| 05-15-5118                                |     | MD, Cabinet L4, Deleted                                                                                                                                                           | 1   | REV        |
| 05-15-51SR                                | U < | REDUCED DEPTH C4 SR#221390F C4 will be 33" high by 26" wide and 6" deep - no outside access to #4                                                                                 | 1   |            |
| <b>CABINET DOORS</b>                      |     |                                                                                                                                                                                   |     | <b>REV</b> |
| 05-15-6113                                |     | MD, Doors, U4/U3.5 Combined, Restocking Gray Poly carbonate Slider - CN 10 Co                                                                                                     | 1   | REV        |
| 05-15-6121                                |     | MD, Doors, C4, Restocking Clear Poly carbonate Slider - CN 10 Compliant                                                                                                           | 1   | REV        |
| <b>SQUAD BENCH AREA</b>                   |     |                                                                                                                                                                                   |     | <b>REV</b> |
| 05-16-0046                                |     | MD, Squad Bench, No Bio-Waste                                                                                                                                                     | 1   | REV        |
| 05-16-0070                                |     | MD, Lid, Squad Bench, Single, No Bio-Waste                                                                                                                                        | 1   | REV        |
| 05-16-0080                                |     | MD, Handle, Trimark, CPR Seat, Std.                                                                                                                                               | 1   | REV        |
| 05-16-0082                                |     | MD, Handle, Trimark, Squad Bench, STD                                                                                                                                             | 1   | REV        |
| 05-16-0084                                |     | MD, Prop, Lid, Jedco, 90/180 Deg, 8in                                                                                                                                             | 1   | REV        |
| 05-16-0214                                | <   | MD, Seatbelt, Assy, (4 Point), Per 4Max, Black, Vert. Mount, (1) Each, CN-8 Above bench Lid mounting (1) for CPR side seat (Delete shop note if not required) (2) for squad Bench | 1   | REV        |
| 05-16-0214                                | <   | MD, Seatbelt, Assy, (4 Point), Per 4Max, Black, Vert. Mount, (1) Each, CN-8 Above bench Lid mounting (1) for CPR side seat (Delete shop note if not required) (2) for squad Bench | 2   | REV        |
| 05-16-0222                                |     | MD, Patient Restraint Belts, Squad Bench (3)                                                                                                                                      | 1   | REV        |

| PART NO                         | S   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                   | QTY | ID  |
|---------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 05-16-1416                      | <   | MD, Safety Net, Head of Squad Bench, 2" Straps, Black<br>a net from floor at head of squad bench to ceiling at forward end- Removable<br>attachments at top and bottom - add backer plates in ceiling.                                                                                                                                                                                        | 1   | REV |
| 05-16-1436                      | S < | MD, Seatbelt, Two point, Bulkhead Wall Right side to the front corner of Right s<br>IN pass thru- right hand side to hold lucas device                                                                                                                                                                                                                                                        | 1   | REV |
| 05-16-9910                      | < > | MD, CS Splint, 7in Deep, 2 Sect, Clear Lexan Flap glass<br>Note: TO meet KKK requirement for space between<br>cushion on squad bench and bottom of splint cabinet.                                                                                                                                                                                                                            | 1   | REV |
| GEN III GREY FLIP UP DOORS      |     |                                                                                                                                                                                                                                                                                                                                                                                               |     |     |
| 05-16-9915                      | <   | KKK Compliancy Regarding Overhead Cabinetry<br>The inclusion of a cabinet over the squad bench or CPR seat on a unit with less than<br>72" headroom will result in the unit not meeting KKK specification requirements. The<br>end user has been informed of the KKK requirements and this cabinet has been<br>added at the request of, and according to the specifications of, the end user. | 1   | REV |
| CURBSIDE REAR                   |     |                                                                                                                                                                                                                                                                                                                                                                                               |     |     |
| 05-16-9923                      |     | MD, Cabinet, Curbside Rear, Standard                                                                                                                                                                                                                                                                                                                                                          | 1   | REV |
| 05-17-0090                      | <   | WC, Wall Mounted Sharps Container, with Wire Holder<br>Beamis Non-Locking Wire Bracket and five quart container<br><br>#10127126 SHARPS, 5 QT RED, 298507<br>#10134379 HOLDER,WIRE, BOUNDTREE 298519<br><br>Mounted: FOOT OF BENCH SEAT ON COMPARTMENT #6 WALL                                                                                                                                | 1   | REV |
| 05-17-2508                      | < > | MD, Cabinet, Glove Box Holder, (3), Above C/S door,<br>(narrows cabinet "E1" on Pureair 1 w/low headroom)<br><br>Must use M1 latches for KKK Change notice 10 compliance                                                                                                                                                                                                                      | 1   | REV |
| CURBSIDE RIGHT STACK STORAGE #8 |     |                                                                                                                                                                                                                                                                                                                                                                                               |     |     |
| 05-18-0040                      | <   | MD, RF ALS, Two Opening Cabinet w/Ctr drawer, HVAC at Top<br>SR#221390F<br>The U8 will have 1 adjustable shelf and a drawer below. The U8 will have Gen II<br>OHO GREY doors with a lock. The<br>doors will have the drawer behind them as well pick 05-18-0040 in QW. Be sure to<br>include windows, net,<br>latches, etc in your order.                                                     | 1   | REV |
| 05-18-5140                      | <   | MD, Door, None, Trim in Aluminum<br>Must use M1 latches for KKK Change notice 10 certification.                                                                                                                                                                                                                                                                                               | 1   | REV |
| 05-18-5156                      |     | MD, Doors, RF, U8, Dual Gen III OHO, Poly carbonate Doors, Clear                                                                                                                                                                                                                                                                                                                              | 1   | REV |
| 05-18-5216                      | <   | MD, RF ALS, C8 Center Drawer, 6" high x Full width x 22" D<br>Metal Drawer with Solid Face for maximum drawer space                                                                                                                                                                                                                                                                           | 1   | REV |
| 05-18-9480                      | <   | MD, Net, 2" Black webbing with Metal Seat belt Buckles, Over open cabinet<br>FOR THE L8                                                                                                                                                                                                                                                                                                       | 1   | REV |
| ATTENDANT SEAT                  |     |                                                                                                                                                                                                                                                                                                                                                                                               |     |     |
| 05-19-6902                      |     | MD, Attendant's Seat, EVS 1880,Comfort, Hi-Back Child Safety w/Per4Max                                                                                                                                                                                                                                                                                                                        | 1   | REV |
| 05-19-6944                      | >   | MD, Color, Cobalt Blue, Per4Max Belt, Black                                                                                                                                                                                                                                                                                                                                                   | 1   | REV |
| 05-19-7215                      | < > | MD, Attendant's Seat Base, EVS CBS Box Style<br>Box opening to be toward SIDE access door                                                                                                                                                                                                                                                                                                     | 1   | REV |
| INTERIOR COLORS                 |     |                                                                                                                                                                                                                                                                                                                                                                                               |     |     |
| 05-20-0055                      |     | MD, Mica, White Gloss                                                                                                                                                                                                                                                                                                                                                                         | 1   | REV |
| UPHOLSTERY                      |     |                                                                                                                                                                                                                                                                                                                                                                                               |     |     |
| 05-20-5904                      | >   | MD, Upholstery Color, Cobalt Blue                                                                                                                                                                                                                                                                                                                                                             | 1   | REV |
| 05-20-5964                      | >   | WC, Backrest Cushion, EVS, Cobalt Blue, w/ WC Logo, Each                                                                                                                                                                                                                                                                                                                                      | 3   | REV |
| MISC. INTERIOR OPTIONS          |     |                                                                                                                                                                                                                                                                                                                                                                                               |     |     |
|                                 |     |                                                                                                                                                                                                                                                                                                                                                                                               |     | REV |

| PART NO                          | S   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | QTY | ID  |
|----------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 05-21-2038                       | <   | MD, Divider, Blue, #40-220, (1) each<br>3 IN EACH SECTION OF THE U2 AND U4 CABINETS SPACED EVENLY<br><br>4 IN DRAWER OF RIGHT STACK<br><br>ALL SHOULD HAVE BINNING STRIPS TO BE ABLE TO MOVE THEM<br>ACCORDINGLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 24  | REV |
| <b>CABINET LATCHES- INTERIOR</b> |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |     |
| 05-21-8213                       | < > | MD, Latch, Southco M1, 2" S/S, (3/4" door) Non-Locking, CN 10-Rated 10lb<br>(self latching) Flush Mount. Non-Locking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1   | REV |
| 05-21-8219                       | < > | MD, Latch, Southco M1, 2" S/S, (3/8" Door) Non-Locking, CN 10-Rated 10lb<br>(self latching) Flush Mount. Non-Locking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2   | REV |
| 05-21-8219                       | < > | MD, Latch, Southco M1, 2" S/S, (3/8" Door) Non-Locking, CN 10-Rated 10lb<br>(self latching) Flush Mount. Non-Locking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2   | REV |
| 05-21-8229                       | < > | MD, Lock, Gen III for left hinged door, CW-LOCKKIT-LR, Key code AH01<br>U8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1   | REV |
| 05-21-8233                       | < > | MD, Lock, Gen III for right hinged door, CW-LOCKKIT-LL, Key code AH01<br>U8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1   | REV |
| 05-21-8237                       |     | MD, Locks, Pair, Gen III for Double doors, Key code AH01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1   | REV |
| <b>GENERAL WIRING</b>            |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |     |
| 06-01-0140                       | >   | MD, Electrical System: Vmux Multiplexed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1   | REV |
| 06-06-1235                       | < > | MD, Camera - Exterior Back-Up, Rostra Over Rear Doors for F-series<br>Install one (1) Rosco white IR color camera. Exterior mounted and connected to<br>vehicle's OEM display.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1   | REV |
| <b>COMMUNICATION</b>             |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |     |
| 06-06-15SR                       | U < | INSTALL CUSTOMER SUPPLIED ANTENNAS<br>SR#221390F<br>Install 2 customer supplied antennas to cab roof Dealer to pick "remove headliner<br>fee" in QW and add<br>customer supplied fee as described below EACH 'Wheeled Coach will not make or<br>break any connections.<br>Only includes labor to install the items listed. This option does not include any<br>connections to the radio. It is the<br>responsibility of the Dealer/Customer to have the connections made by a qualified<br>radio installer. Does not<br>include handling charge. 1. Items with serial numbers such as power load systems,<br>Knox Box, defibrillator<br>mounts, etc. will have a \$250 per item fee. 2. Items without serial numbers such as<br>lights, antennas,<br>miscellaneous mounts, etc. will have a \$100 per item fee. ALL customer or dealer<br>furnished items must be<br>new and in the original OEM packaging. They cannot be used, rebuilt, refurbished,<br>discontinued manufacturer<br>name and part number. etc. ALL customer or dealer furnished items must have a<br>Packing List (Form FI183)<br>included. ALL customer or dealer furnished items must be received at the time of<br>confirmed work order. Units<br>WILL NOT START cutting metal unless or until all items have been received or we will<br>have to generate a change<br>order to delete the customer or dealer furnished items option(s) to be able to<br>continue the build process. | 2   | REV |
| 06-06-5538                       | < > | MD, Coax Cable, RG58/U, Each, Terminate:<br>(1) - From module roof Dome #3 to CENTER CONSOLE with 6' pigtails<br><br>(1)- From module roof port Dome #7 ACTION AREA - with 6' pigtails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2   | REV |

| PART NO    | S   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                            | QTY | ID         |
|------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|
| 06-07-6607 | < > | MD, Clock, Digital, Display Systems BSA-62425, 12/24 Hr.                                                                                                                                                                                                                                                                                                                               | 1   | REV        |
|            |     | LOCATION:                                                                                                                                                                                                                                                                                                                                                                              |     |            |
|            |     | If mounted above rear doors the clock MUST be recessed into the Pad.                                                                                                                                                                                                                                                                                                                   |     |            |
| 07-00-3056 | < > | MD, Vmux Electrical System, Vista IV Touch screen, Front & Rear<br>(1) Touch screen/Button Vista 4 display in cab<br>(1) Touch screen only Vista 4 display in A/A                                                                                                                                                                                                                      | 1   | REV        |
| 07-00-3072 | <   | MD, Vmux Electrical System, Engineering Programming<br><br>One time fee per contract.                                                                                                                                                                                                                                                                                                  | 1   | REV        |
|            |     | <b>POWER SOURCES</b>                                                                                                                                                                                                                                                                                                                                                                   |     |            |
| 07-01-0152 | < > | MD, Buss Bar Assembly (+/-), 5 Position,<br>for ground and hot<br>1- AA<br>1- Center console                                                                                                                                                                                                                                                                                           | 2   | REV<br>REV |
| 07-01-1002 | <   | MD, Power Source, 12VDC, 20A, Ignition/Shoreline Hot<br><br>1- AA<br>1- Center console                                                                                                                                                                                                                                                                                                 | 2   | REV        |
| 07-01-1008 | < > | MD, Power Source, 12 VDC, 15 Amp (+-), Ignition Hot<br>- Ignition hot, terminating in cab console<br>- with 6 foot tails (hot and ground).                                                                                                                                                                                                                                             | 1   | REV        |
| 07-01-1016 | < > | MD, Power Source, 12 VDC, 30 Amp (+-), Constant Hot<br>- Constant Hot, to terminate behind the passenger seat<br>- with 6 foot tails (hot and ground).                                                                                                                                                                                                                                 | 1   | REV        |
|            |     | <b>VOLTMETER</b>                                                                                                                                                                                                                                                                                                                                                                       |     |            |
| 07-02-1150 |     | WC, Voltmeter, Analog, F1                                                                                                                                                                                                                                                                                                                                                              | 1   | REV        |
| 07-02-1155 | <   | MD, Alarm, Low Voltage, Audio/Visual<br>Light in cab console and Buzzer in cab.                                                                                                                                                                                                                                                                                                        | 1   | REV        |
|            |     | <b>BATTERY SYSTEM</b>                                                                                                                                                                                                                                                                                                                                                                  |     |            |
| 07-04-8722 | <   | MD, Battery Sw, V-Mux, 5min Timer, F1, Fig 5B, Batt under Hood<br>Activated thru OEM ignition switch timer function upon<br>ignition "off".<br>Momentary rocker switch, on driver's side of cab console,<br>to function as timer shutoff and also reactivate timer.<br><br>(2) OEM batteries under hood<br><br>ONLY Module power is turned on/off.<br>Chassis power is NOT turned off. | 1   | REV<br>REV |
| 07-10-1101 | < > | MD, Outlet, Power Point Style, (2), A/A<br>- on standard 20-amp ignition hot circuit. ("elect battery switch")                                                                                                                                                                                                                                                                         | 1   | REV        |
| 07-10-1105 | < > | MD, Outlet, Power Point Style, Each<br>L8                                                                                                                                                                                                                                                                                                                                              | 1   | REV        |
| 07-10-1109 | <   | MD, Power Outlet, Kussmaul, USB Dual Port, 5VDC, 4.8 Amp, switch panel<br>Located in the cab switch panel per Electrical Engineering                                                                                                                                                                                                                                                   | 1   | REV        |
| 07-10-1111 | <   | MD, Power Outlet, Kussmaul, USB Dual Port, 5VDC, 4.8 Amp, switch panel,<br>Each<br>Location in the Action area outlet panel.                                                                                                                                                                                                                                                           | 1   | REV        |

| PART NO                                        | S   | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | QTY | ID         |
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| <b>FRONT CONSOLE</b>                           |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |            |
| 08-01-3525                                     | S < | WC, Console, Drivers Switch & Radio, Center, Aluminum, Black, Type1 Ford USING CUSTOM CENTER CONSOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1   | REV<br>REV |
|                                                |     | Black polyurethane coated .125 Aluminum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |            |
|                                                |     | See below for Optional panels<br>10.75 x 12.5 x 7" deep storage area at rear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |            |
|                                                |     | VMUX 1ST<br>SIREN AND ARROWSTICK CONTROLLER 2ND<br>MOBILE RADIO 3RD<br>CUPHOLDERS 4TH<br>2 BLANK SECTION FOR PORTABLE RADIOS<br>MAP BOOK SECTION AT REAR<br>plate that goes to below pass thru for glove box storage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |            |
| 08-01-35SR                                     | U < | Custom Center Console<br>SR#221474F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1   |            |
|                                                |     | Custom Front Console - 1st section to be VMUX, next will be siren on the left side with the arrowstick controller to the right. Next will be a cutout for an APX 8500 radio, next will be 2 cupholders. After the cupholders will be a space for 2 portable radio chargers for APX 8000xe portable radios. After the portable spacing there will be map book storage for the remaining space to the back wall of the cab. At the very back of the console and flush with the cab rear, there will be a flat metal plate that will extend to right below the pass thru window. This console will be aluminum with black polyurethane coating. Pick (2) glove butlers in QW.(see one other suggestion below) |     |            |
| 08-01-35SS                                     | U < | GLOVE HOLDER FOR CENTER CONSOLE<br>SR#221474F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1   |            |
|                                                |     | Glove Holder, Wire Style,Below Passthru in cab 1 (SO-GLOVE-341090)<br>(SO-GLOVE-341090) Boundtree #168-<br>GW-055 Triple Vertical installed on back frame of the center console under the passthru. Mount so gloves load<br>SR#220403F                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |            |
| 08-01-4662                                     |     | WC, Lexan Divider for Map Storage Slot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1   | REV        |
| 08-01-6010                                     | <   | MD, Armrest, (1) Side mount, Havis C-ARM-102<br>State Location of Armrest:<br><br>MOUNT AT FINAL INSPECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2   | REV        |
| 08-02-0006                                     | <   | MD, Module Electrical Panels, Brushed Stainless Steel<br>brushed stainless steel panels for the Outlet panels, switch panels and other faceplates.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1   | REV        |
| <b>ATTENDANT CONTROL PANEL</b>                 |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |            |
| 08-03-0307                                     |     | WC, Console, A/A, Non-wood, Angled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1   | REV<br>REV |
| <b>SIREN ELECTRONIC - CONTROL HEADS / AMPS</b> |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |            |
| 09-03-1802                                     | < > | MD, Siren, Whelen, WS-295-SLSA1<br>powercall<br>wail<br>yelp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1   | REV<br>REV |
| <b>SIREN SPEAKERS</b>                          |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |            |
| 09-03-2708                                     | <   | WC, Siren Speakers, Cast SAD/PSAD3827-20FSD-1, F-Series 2020<br>Thru Front Bumper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1   | REV<br>REV |

| PART NO                                                              | S | DESCRIPTION                                                                                                                                                                                                              | QTY | ID  |
|----------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| <b>BACK-UP ALARMS</b>                                                |   |                                                                                                                                                                                                                          |     |     |
| 09-05-1116                                                           |   | > MD, Back-Up Alarm, w/ Cutoff, Auto Reset                                                                                                                                                                               | 1   | REV |
| <b>TRAFFIC MANAGEMENT LIGHTS</b>                                     |   |                                                                                                                                                                                                                          |     |     |
| 09-44-1984                                                           |   | MD, Traffic Advisor, 47", Whelen TAL85, 5mm LED                                                                                                                                                                          | 1   | REV |
| <b>WARNING LIGHT FLASHERS</b>                                        |   |                                                                                                                                                                                                                          |     |     |
| 09-80-2000                                                           |   | > MD, Flasher, Vanner 5860GCPE, C/D/E Spec                                                                                                                                                                               | 1   | REV |
| 09-80-7011                                                           |   | < > MD, Automatic Secondary, Park/Neutral, w/Momentary Switch, Auto Reset<br>the circuit would automatically reset when the gear shift lever is placed back into gear.                                                   | 1   | REV |
| 09-80-70SR                                                           | U | < WHITE LIGHT CUT OUT SWITCH<br>SR#221390F                                                                                                                                                                               | 2   |     |
|                                                                      |   | white light cut out switch - turn whites off while responding and to turn white lights on<br>when in park If possible and<br>where possible, EACH pair of lights Includes (1) switch or automatic.                       |     |     |
| <b>WARNING LIGHTS</b>                                                |   |                                                                                                                                                                                                                          |     |     |
| <b>LED Series - 9X7 Federal Signal FireRay LED (Flange Separate)</b> |   |                                                                                                                                                                                                                          |     |     |
| 09-95-1923                                                           |   | < MD, Light, Federal, Fireray, FR9C-W, 9x7 White LED, Clear lens, Internal flasher<br>Center - Front of Module                                                                                                           | 1   | REV |
| 09-95-1924                                                           | S | < MD, Light, Federal, Fireray, FR9C-R, 9x7 Red LED, Clear lens, Internal flasher<br>(4) 1st and 3rd position each side of the front of module<br>(2) CS<br>(2) SS<br>(2) Upper Rear<br>(2) 1 on each side of rear window | 12  | REV |
| 09-95-1993                                                           |   | MD, Bezel, Chrome, Fireray 9x7, FR9MC, Each                                                                                                                                                                              | 15  | REV |
| 09-95-19SR                                                           | U | < MD, Light, Federal, Fireray, FR9C-RW 9x7 Red /WhiteLED, Clear lens, Internal<br>fla<br>SR#221390F<br>2nd position each side of the front of the module                                                                 | 2   |     |
| 09-95-2723                                                           |   | > MD, Light, Federal, 7X3 Quadra flare, Amber LED, Clear Lens, w/Flange, Int<br>Flash                                                                                                                                    | 1   | REV |
| <b>LED Series - 7x3 Federal Signal FireRay LED (Flange Separate)</b> |   |                                                                                                                                                                                                                          |     |     |
| 09-95-2924                                                           |   | < MD, Light, Federal, 7X3 Fireray, FR7C-R, Red LED, Clear lens, Int flash<br>1- each side over rear wheels<br>1- #4 door<br>1-#6 door                                                                                    | 4   | REV |
| 09-95-2928                                                           |   | < MD, Light, Federal, 7X3 Fireray, FR7C-RW, Red/White LED, Clear lens, Int flash<br>1- each side of cab front for intersection                                                                                           | 2   | REV |
| 09-95-2993                                                           |   | MD, Bezel, 7X3, Fireray, FR7MC, Chrome                                                                                                                                                                                   | 6   | REV |
| <b>WHELEN ION WARNING LIGHTS (Flange Included)</b>                   |   |                                                                                                                                                                                                                          |     |     |
| 09-95-4708                                                           |   | < MD, Light, Whelen, ION, WIONSMCD, Red/Clear, W/chrome flange<br>grill lights<br>2- upper<br>2-lower<br><br>whites off on secondary                                                                                     | 4   | REV |
| <b>EXTERIOR AUTOMOTIVE LIGHTING</b>                                  |   |                                                                                                                                                                                                                          |     |     |
| 10-01-0042                                                           |   | < WC, Taillight Pkg, Whelen, LED Stop/Tail, Turn & LED Backup, w/WC logo<br>- Brake- Steady Burn<br>- Turn Arrow – sequential arrow<br>- Replace backup with 700 LED                                                     | 1   | REV |
| <b>ICC/MARKER LIGHTS</b>                                             |   |                                                                                                                                                                                                                          |     |     |
| 10-01-2177                                                           |   | < MD, Light, Clearance, Amber LED, Each<br>On front as clearance lights.                                                                                                                                                 | 3   | REV |

| PART NO                             | S     | DESCRIPTION                                                                                                                                                                                                                                                                                          | QTY | ID         |
|-------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|
| 10-01-2178                          | <     | MD, Light, Clearance, Red LED, Each<br>On rear as clearance lights.                                                                                                                                                                                                                                  | 3   | REV        |
| 10-01-2250                          | <     | WC, Corner Cap Lts, Multi, LED, (2) Amber (2) Red w/Flashers<br>- High intensity flashers; thru separate switch                                                                                                                                                                                      | 1   | REV        |
| <b>FLOOD AND LOAD SYSTEMS</b>       |       |                                                                                                                                                                                                                                                                                                      |     | <b>REV</b> |
| 10-02-2213                          | S < > | MD, Light, LED, Whelen, Pioneer Plus, Spot/Flood, PCPSM1C w/Chrome<br>Flange, Each<br>RECESS MOUNTED CENTERED IN FRONT OF MODULE<br><br>LABELED FRONT SCENE IN VMUX                                                                                                                                  | 1   | REV        |
| 10-02-2220                          | <     | MD, Light, Scene, FedSig, Fireray, FR9LEDSCENE, 9x7, LED<br>ILOS<br>CS<br>SS                                                                                                                                                                                                                         | 4   | REV        |
| 10-02-2224                          | <     | MD, Light, Scene, FedSig, Fireray, FR7LEDSCENE, 7x3, LED<br>ILOS<br>Over Rear Doors                                                                                                                                                                                                                  | 2   | REV        |
| <b>11 - INTERIOR LIGHTING</b>       |       |                                                                                                                                                                                                                                                                                                      |     | <b>REV</b> |
| 11-00-00SR                          | U <   | Tecniq Silho-x Area Light 2.75 Red/White over passenger seat<br>SR#221474F<br><br>Install Tecniq Silho-X Area Light - 2.75" Red/White combo above passenger seat in<br>the cab work order must<br>include "headliner removal fee" with this option. #E13-WS0R-1. Pick dual position<br>switch in QW. | 1   |            |
| 11-01-2809                          | <     | MD, Lights, Dome, LED, Whelen, White Flange, (4) S/S, (3) C/S<br>NOTE: NO VISABLE FASTENERS OR HOLES.                                                                                                                                                                                                | 1   | REV        |
| 11-01-2818                          | <     | MD, Light, Dome, LED, Whelen, White Flange, (1) Additional<br><br>Location _____?<br><br>NOTE: NO VISABLE FASTENERS OR HOLES.                                                                                                                                                                        | 3   | REV        |
| 11-01-2872                          | <     | WC, Lighting, LED, Recessed into Trough cover- White only<br>Single on/off switch in action area- Not activated by doors                                                                                                                                                                             | 1   | REV        |
| 11-01-9032                          | < >   | MD, Timer, Momentary Switch, 15 Minute, Constant Hot<br>(must have ECX timed battery switch with this option)<br><br>Located at the head of the bench on the wall<br><br>Switch to allow activation and<br>also deactivation. Wire to CS Domes in liner on High.                                     | 1   | REV        |
| <b>SPOTLIGHTS / HANDHELD LIGHTS</b> |       |                                                                                                                                                                                                                                                                                                      |     | <b>REV</b> |
| 11-02-1003                          |       | MD, Handheld Spotlight - Sho-Me 200,000 CP                                                                                                                                                                                                                                                           | 1   | REV        |
| 11-02-8522                          | < >   | MD, Light, Streamlite, Fire Vulcan 44401, Orange, 12V, Each<br><br>State Mounting Location :<br><br>Model #44401 12VDC CHARGER - ORANGE<br><br>Must be LED Lantern<br><br>1- pass thru right side mounted up high                                                                                    | 2   | REV        |

| PART NO    | S   | DESCRIPTION                                                                                                                                                                                                                                   | QTY | ID         |
|------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|
|            |     | 1-in front of center console on the floor - removal would be toward the drivers side                                                                                                                                                          |     |            |
|            |     | <b>ATTENDANT LIGHT</b>                                                                                                                                                                                                                        |     | <b>REV</b> |
| 11-03-2029 |     | MD, Light, Kinequip #621224W, LED, Each                                                                                                                                                                                                       | 1   | REV        |
|            |     | <b>12 - ELECTRICAL 125 VOLT AC</b>                                                                                                                                                                                                            |     | <b>REV</b> |
|            |     | <b>SHORELINE INLET</b>                                                                                                                                                                                                                        |     | <b>REV</b> |
| 12-01-9114 | < > | MD, Shoreline, 20A, Super Auto Eject, Red<br>- with red cover; mounted above comp "#2"                                                                                                                                                        | 1   | REV        |
|            |     | <b>OUTLETS - 125VAC</b>                                                                                                                                                                                                                       |     | <b>REV</b> |
| 12-02-2110 | <   | MD, Outlets, 125 VAC, Duplex, (1) Action Wall, (1) Right Front Cabinet<br>- (1) outlet in action area<br>- (1) outlet in the RF Cabinet "U8", wall #2, upper right.                                                                           | 1   | REV        |
| 12-02-2114 | < > | MD, Outlet, 125 VAC, Duplex, Each, State Location:<br>- telemetry area, wall #2.<br><br>and L8<br><br>IN PASS THRU RIGHT SIDE WALL THAT MEETS WHERE THE BULKHEAD WALL DOES                                                                    | 3   | REV        |
|            |     | <b>BLOCKHEATERS</b>                                                                                                                                                                                                                           |     | <b>REV</b> |
| 12-02-4001 | <   | Block Heater - With OEM Plug<br>This option does not include a switch.<br>(STANDARD).                                                                                                                                                         | 1   | REV        |
|            |     | <b>INVERTER - 125VAC</b>                                                                                                                                                                                                                      |     | <b>REV</b> |
| 12-03-1414 | < > | MD, Inverter/Charger, Vanner LifeSine<br>- Mounted on fixed shelf or ceiling in Compartment "E"<br>DEFAULT OT ON                                                                                                                              | 1   | REV        |
|            |     | <b>AUXILIARY ENVIRONMENTAL SYSTEMS</b>                                                                                                                                                                                                        |     | <b>REV</b> |
| 13-02-0111 |     | MD, Exhaust Fan, Single 12V, in Line Blower                                                                                                                                                                                                   | 1   | REV        |
| 13-02-0117 | <   | MD, Cowl Vent - 4" Polished<br>(1) Fresh air inlet<br>(1) Exhaust fan outlet<br>Locations per engineering Design.                                                                                                                             | 2   | REV        |
|            |     | <b>WHEELED COACH HVAC UNITS</b>                                                                                                                                                                                                               |     | <b>REV</b> |
| 13-02-5751 | >   | MD, Hoses, Heater, No Max, to Rear                                                                                                                                                                                                            | 1   | REV        |
| 13-02-5770 | < > | WC, Heat/AC, F1, Combo, w/Coolbar , DAK Ducted<br>with thermostat in action area.<br><br>12vdc External Condenser, in Coolbar mounted on front<br>of module. Painted to match front of module.<br><br>Note: pick warning lights separately !! | 1   | REV        |
| 13-02-57SR | U < | Hoseline #APS-253 Ultraviolet Air Purification System added to the Heat/AC unit<br>SR#2020741F<br><br>The Module heat/ac system shall have the hoseline UV air purification system added.                                                     | 1   |            |
| 13-02-6028 |     | WC, Air Conditioning Face Plate, Brushed Stainless Steel with Logo                                                                                                                                                                            | 1   | REV        |
| 13-02-6050 | >   | MD, Heat/AC Located RF corner, over ALS cabinet.                                                                                                                                                                                              | 1   | REV        |
| 13-02-6060 |     | MD, Kissling Continuous Duty Solenoid                                                                                                                                                                                                         | 1   | REV        |
| 13-02-6080 | < > | WC. Generation III Fiberglass Cool Bar cover                                                                                                                                                                                                  | 1   | REV        |
|            |     | Note: Type III units with 67" headroom must use Steel Coolbar Cover.                                                                                                                                                                          |     |            |
| 13-02-7752 | S < | DELETE                                                                                                                                                                                                                                        | 1   | REV        |

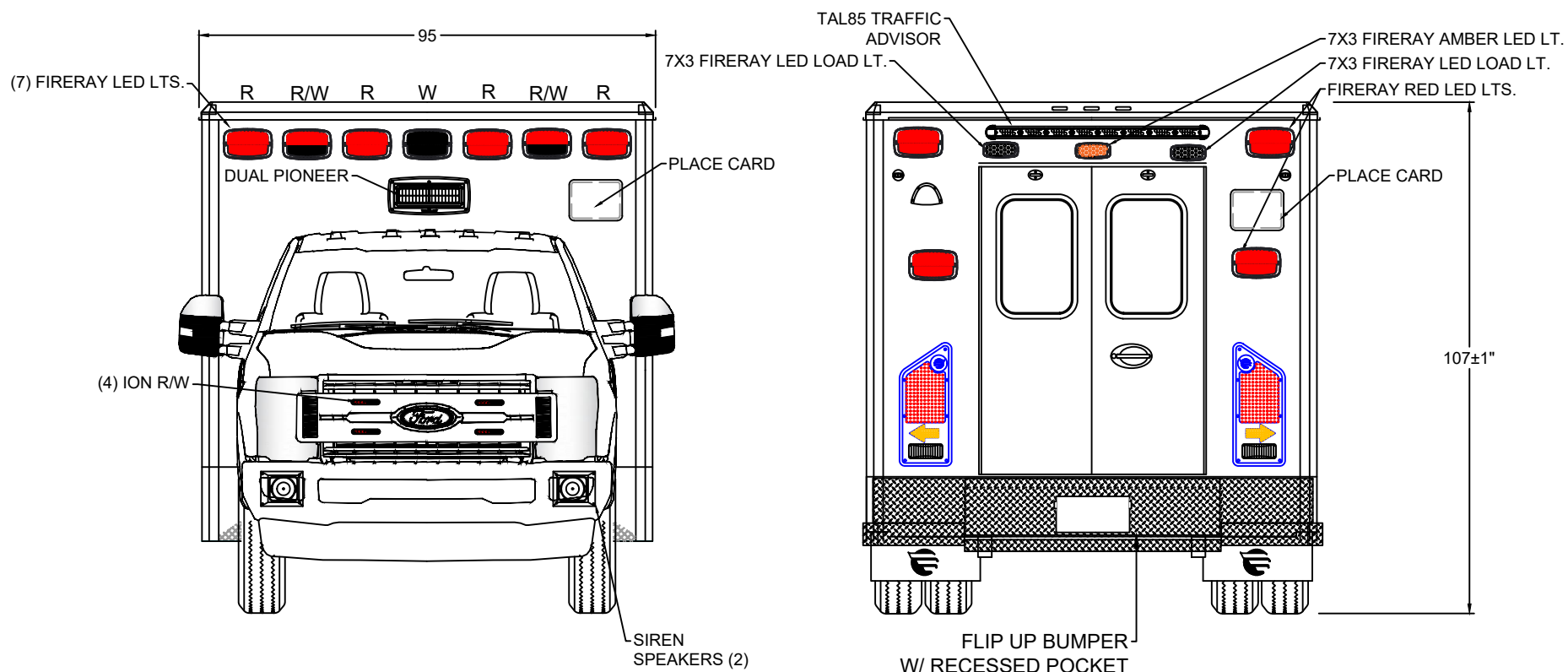
| PART NO                        | S   | DESCRIPTION                                                                                                                                                                                       | QTY | ID         |
|--------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|
| 13-02-7757                     | U   | MD,Thermostat,In Vista Display Temperature Sensor in Air Return                                                                                                                                   | 1   |            |
| <b>COT MOUNTING PROVISIONS</b> |     |                                                                                                                                                                                                   |     | <b>REV</b> |
| <b>Cot Mounts</b>              |     |                                                                                                                                                                                                   |     | <b>REV</b> |
| 14-01-1546                     | <   | MD, Cot Mount, Stryker Power Load, No Wheel Guides, CN 8 Compliant includes constant hot power supply for battery charging.                                                                       | 1   | <b>REV</b> |
| 14-01-162S                     | U < | Stryker Power Pro XT Stretcher<br>SR#2021832F                                                                                                                                                     | 1   |            |
| 14-01-4028                     |     | Center Mount                                                                                                                                                                                      | 1   | <b>REV</b> |
| <b>OXYGEN AND AIR SYSTEMS</b>  |     |                                                                                                                                                                                                   |     | <b>REV</b> |
| 14-02-2242                     | <   | MD, O2 Cylinder Bracket, Multiversal, #QR-MV, W/ Straps<br>(Uni-strut track mounting is now std)                                                                                                  | 1   | <b>REV</b> |
|                                |     | Specify O2 bottle size. M CYLINDER                                                                                                                                                                |     |            |
| 14-02-2244                     |     | MD, Track, Unistrut for Oxygen Rack                                                                                                                                                               | 1   | <b>REV</b> |
| 14-02-3010                     | < > | MD, Electric O2 System w/Manual Bypass<br>includes 12V solenoid, wiring, manual bypass - install bypass valve on action area wall near oxygen outlets                                             | 1   | <b>REV</b> |
| 14-02-3156                     | <   | MD, O2 Regulator, Preset 50 PSI<br>INSTALLED                                                                                                                                                      | 1   | <b>REV</b> |
| 14-02-4156                     | < > | MD, O2 System, Ohio Style (2 Action Area, 1 Liner, 1 CS Wall)                                                                                                                                     | 1   | <b>REV</b> |
|                                |     | Ohio style<br>(2) oxygen outlets in action area<br>(1) oxygen outlet in liner at head of cot<br>(1) oxygen outlet CS wall at head of squad bench                                                  |     |            |
| 14-02-4920                     | >   | MD, Lexan Flap, w/Hinge                                                                                                                                                                           | 1   | <b>REV</b> |
| <b>PORTABLE O2 HOLDERS</b>     |     |                                                                                                                                                                                                   |     | <b>REV</b> |
| 14-02-6282                     | < > | MD, O2 Cylinder Holder, Single, Zico QR-D-2 Strapless, CN 10 Certified<br>MOUNT IN PASS THRU LEFT HAND SIDE                                                                                       | 2   | <b>REV</b> |
| 14-02-9055                     | < > | MD, Bracket, SCBA, Zico, UN-5-30-2-SF, Each<br>#4 compartment low against back wall with straps to secure scba                                                                                    | 2   | <b>REV</b> |
| <b>SUCTION SYSTEM</b>          |     |                                                                                                                                                                                                   |     | <b>REV</b> |
| 14-03-3030                     |     | MD, Suction Pump, SSCOR 90206                                                                                                                                                                     | 1   | <b>REV</b> |
| 14-03-3045                     | >   | MD, Suction Port                                                                                                                                                                                  | 1   | <b>REV</b> |
| 14-03-3070                     | < > | MD, Suction System, SSCOR 23002 Disposable w/Canister Clip & Regulator<br>NO Ohio style vacuum outlet - plumb hose from SSCOR canister through hole in wall panel<br>Meets SAE J3043 Requirements | 1   | <b>REV</b> |
| <b>MISC MEDICAL</b>            |     |                                                                                                                                                                                                   |     | <b>REV</b> |
| 14-04-1200                     | < > | MD, Fire Extinguisher, 5# ABC with Surface Mount Bracket., Each<br>HD Amerex Bracket #861H with Amerex 5LB fire extinguisher.                                                                     | 2   | <b>REV</b> |
|                                |     | 1 - Pass thru<br>1- #2 compartment under inverter                                                                                                                                                 |     |            |
|                                |     | Mount at final inspection                                                                                                                                                                         |     |            |
| 14-04-5065                     | >   | MD, Swivel Mount, Technimount, ProSeries 35 for LP 15                                                                                                                                             | 1   | <b>REV</b> |
| 14-04-5090                     | < > | MD, Accessory Hook, Ferno Wall Hooks "J" Style, Each                                                                                                                                              | 1   | <b>REV</b> |
|                                |     | 1 -RIGHT SIDE OF PASS THRU TO HOLD THE LUCAS DEVICE HANDLE                                                                                                                                        |     |            |
|                                |     | SEE DRAWINGS                                                                                                                                                                                      |     |            |
| <b>PAINT AND FINISH</b>        |     |                                                                                                                                                                                                   |     | <b>REV</b> |
| 15-01-2000                     | <   | Module Paint, Single Color, OEM White                                                                                                                                                             | 1   | <b>REV</b> |

| PART NO    | S     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                        | QTY | ID         |
|------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|
|            |       | Ford white: FA91:YZ<br>2019 & up Dodge white : RAM88:GW7<br>2018 Dodge: FLNA40738<br>Chevy white: FLNA40738<br>C4500- 5500 2019-2020 FLNA 41383<br>International 4300-4400 white: NAV9212- Check chassis spec<br>Freightliner white: CHA88:GW6-Check chassis spec                                                                                                                                  |     |            |
| 15-01-5000 |       | Cab Paint - Single Color, OEM White<br><b>PAINT STRIPING DESIGN</b>                                                                                                                                                                                                                                                                                                                                | 1   | REV        |
| 15-02-1200 |       | Paint Belt, None<br><b>GRAPHICS AND LETTERING</b>                                                                                                                                                                                                                                                                                                                                                  | 1   | REV        |
| 15-02-8001 | S < > | Lettering/Graphics, By Outside Vendor<br>SR#221390F                                                                                                                                                                                                                                                                                                                                                | 1   | REV        |
|            |       | Graphics to Match existing units 24/7 Pick rear chevron in QW !!!<br><br>(if rear chevron will be installed, add comment in paint area<br>of work order to delete any paint belts on rear of module!!!)<br><br>Location:<br># of Days:                                                                                                                                                             |     |            |
| 15-02-8062 | < >   | MD, Chevron Striping, Full Rear including doors, 6" Scotchlite<br>To be installed by 24/7 Graphics<br><br>COLORS: RED/YELLOW                                                                                                                                                                                                                                                                       | 1   | REV        |
|            |       | <b>DECALS AND NOMENCLATURE</b>                                                                                                                                                                                                                                                                                                                                                                     |     | REV        |
| 15-03-6370 |       | MD, Roof Star, White Border, Installed                                                                                                                                                                                                                                                                                                                                                             | 1   | REV        |
| 15-04-2005 | < >   | MD, Sign Holder, 12 inch x 12 inch, (1)<br>INCLUDING PLATES FOR SLIDE IN<br><br>ONE FRONT OF MODULE DRIVERS SIDE<br>ONE REAR OF MODULE PASSENGER SIDE<br><br>THESE HOLDERS WILL HAVE THE PLATE SLIDE IN FROM THE TOP NOT THE<br>SIDE<br><br>PLATES WILL BE PAINTED WHITE WITH RED UNIT #S<br>VERLFY WITH SALES PERSON THE UNIT NUMBER                                                              | 2   | REV        |
| 74-09-0099 | <     | Indemnification Statement<br>The purchaser agrees to defend, indemnify and hold Rev Ambulance Group<br>harmless from any claims, costs (including actual attorneys' fees), damages and<br>liabilities caused in whole or in part by any alteration or modification of, or changes or<br>additions to the purchased products OR use of product for purposes it was not<br>designed or intended for. | 1   | REV        |
|            |       | <b>End Of Order</b><br><b>== Factory Ship Loose - EMS Equipment - 1.004 03/26/21 ==</b>                                                                                                                                                                                                                                                                                                            |     | REV<br>REV |

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## EXTERIOR COMPARTMENT DIMENSIONS IN INCHES

| INTERIOR DIMENSIONS |        |       |       | PASS THRU |       | INTERIOR DIMENSIONS |        |       |       | JAMB OPENING |       |
|---------------------|--------|-------|-------|-----------|-------|---------------------|--------|-------|-------|--------------|-------|
| COMPT.              | HEIGHT | WIDTH | DEPTH | HEIGHT    | WIDTH | COMPT.              | HEIGHT | WIDTH | DEPTH | HEIGHT       | WIDTH |
|                     |        |       |       |           |       |                     |        |       |       |              |       |
|                     |        |       |       |           |       |                     |        |       |       |              |       |
|                     |        |       |       |           |       |                     |        |       |       |              |       |
|                     |        |       |       |           |       |                     |        |       |       |              |       |

50" AISLE

BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING



TYPE 1 FORD 2021  
FRONT / REAR  
EXTERIOR VIEWS

DATE: 5/24/21

SCALE

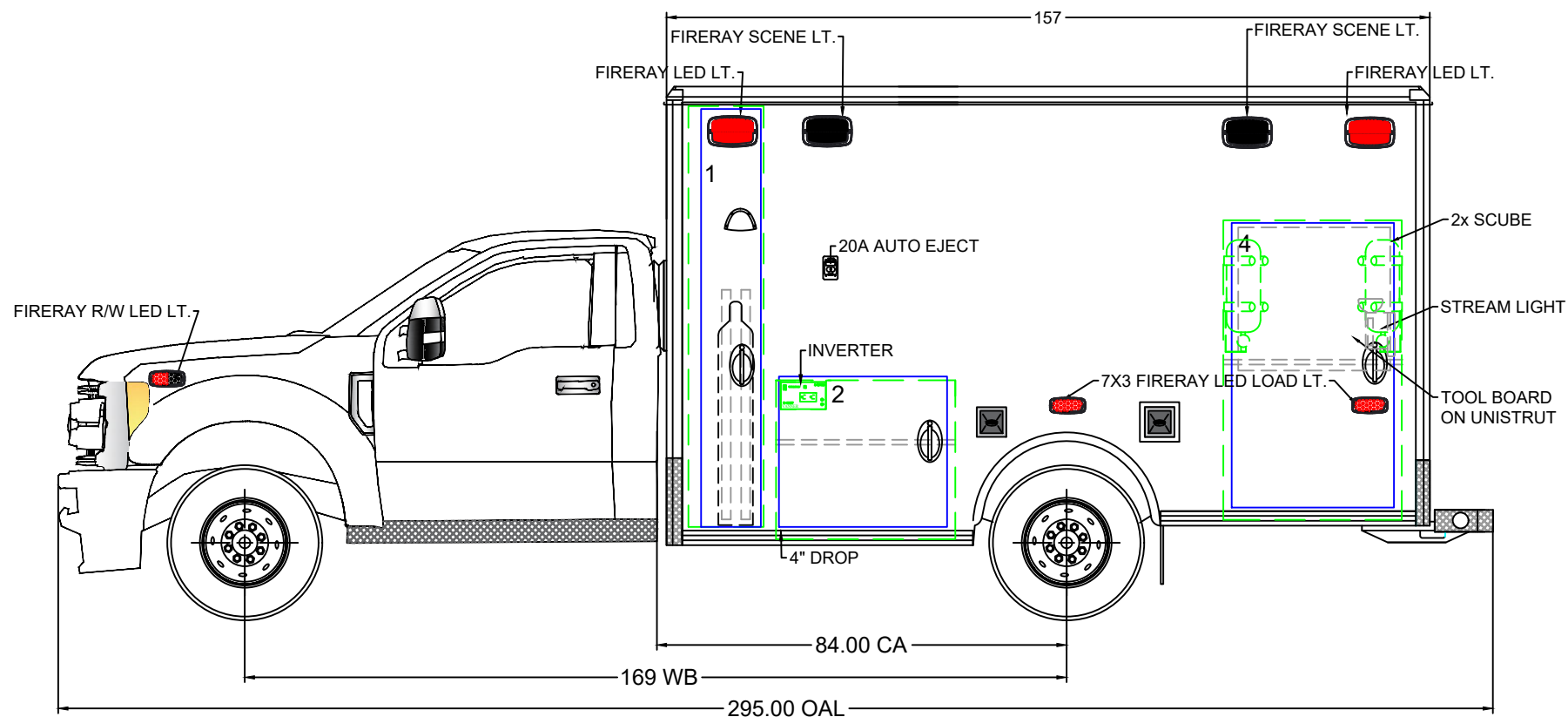
OWN BY: DLM

DWG NO: 1 / 9

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WARREN COUNTY F/R

157 x 95 x 72



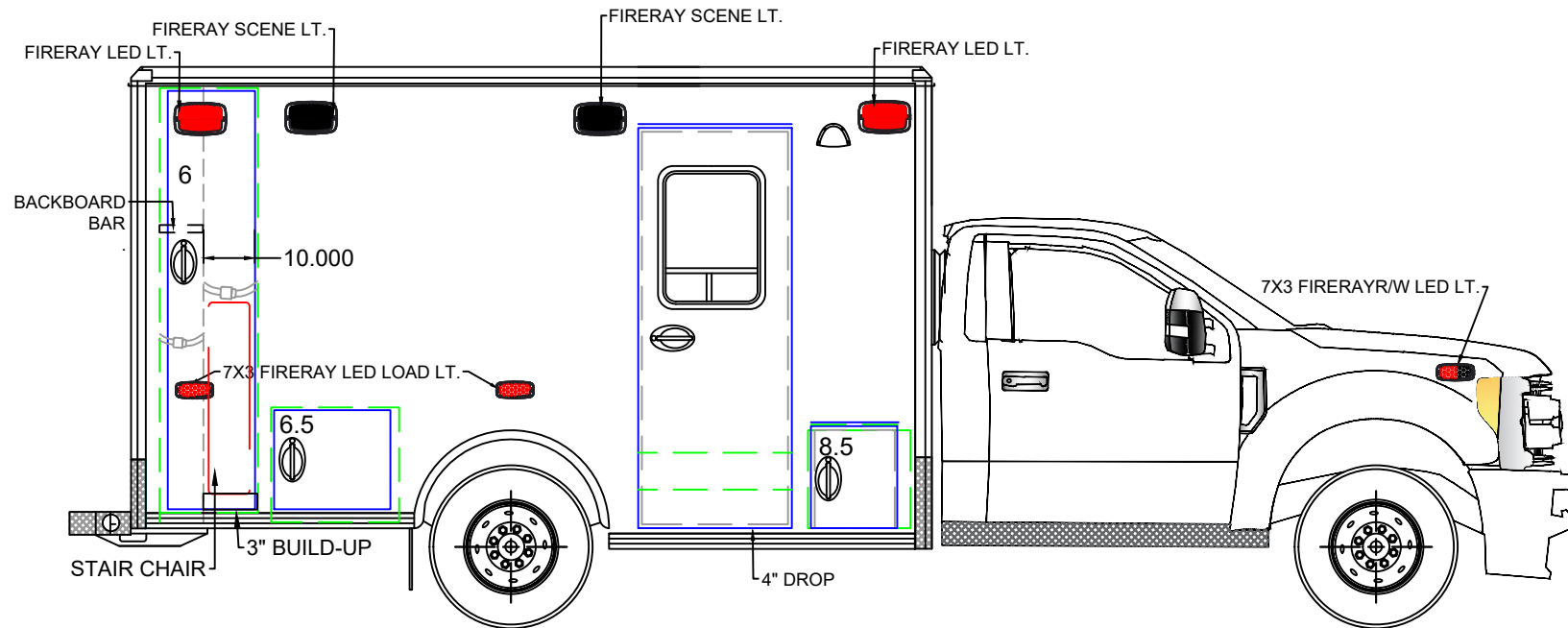
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TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR  
REFERENCE ONLY PRIOR TO FINAL ENGINEERING

| EXTERIOR COMPARTMENT DIMENSIONS IN INCHES |        |       |       |              |       |                     |        |       |       |              |       |  |                 |
|-------------------------------------------|--------|-------|-------|--------------|-------|---------------------|--------|-------|-------|--------------|-------|---------------------------------------------------------------------------------------|-----------------|
| INTERIOR DIMENSIONS                       |        |       |       | JAMB OPENING |       | INTERIOR DIMENSIONS |        |       |       | JAMB OPENING |       |                                                                                       |                 |
| COMPT.                                    | HEIGHT | WIDTH | DEPTH | HEIGHT       | WIDTH | COMPT.              | HEIGHT | WIDTH | DEPTH | HEIGHT       | WIDTH | TYPE 1 FORD 2021<br><br>LEFT EXT. VIEW                                                |                 |
| 1                                         | 89.00  | 14.00 | 17.00 | 86.50        | 13.75 |                     |        |       |       |              |       |                                                                                       |                 |
| 2                                         | 33.00  | 35.25 | 17.00 | 31.00        | 35.00 |                     |        |       |       |              |       |                                                                                       |                 |
| 4                                         | 61.50  | 32.75 | 17.00 | 58.50        | 29.50 |                     |        |       |       |              |       |                                                                                       |                 |
|                                           |        |       |       |              |       |                     |        |       |       |              |       |                                                                                       |                 |
| 50" AISLE                                 |        |       |       |              |       |                     |        |       |       |              |       | DATE<br>5/24/21                                                                       | SCALE           |
|                                           |        |       |       |              |       |                     |        |       |       |              |       | DRAWN BY<br>DLM                                                                       | DWG NO<br>2 / 9 |

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## EXTERIOR COMPARTMENT DIMENSIONS IN INCHES

| INTERIOR DIMENSIONS |        |       |       | JAMB OPENING |       | INTERIOR DIMENSIONS |        |       |       | JAMB OPENING |       |
|---------------------|--------|-------|-------|--------------|-------|---------------------|--------|-------|-------|--------------|-------|
| COMPT.              | HEIGHT | WIDTH | DEPTH | HEIGHT       | WIDTH | COMPT.              | HEIGHT | WIDTH | DEPTH | HEIGHT       | WIDTH |
| 8.5                 | 19.50  | 20.00 | 19.00 |              |       |                     |        |       |       |              |       |
| 6.5                 | 22.25  | 25.00 | 17.00 | 19.25        | 22.75 |                     |        |       |       |              |       |
| 6                   | 82.50  | 19.25 | 18.50 | 82.00        | 17.00 |                     |        |       |       |              |       |

50" AISLE



TYPE 1 FORD 2021

RIGHT EXT. VIEW

DATE 5/24/21

SCALE

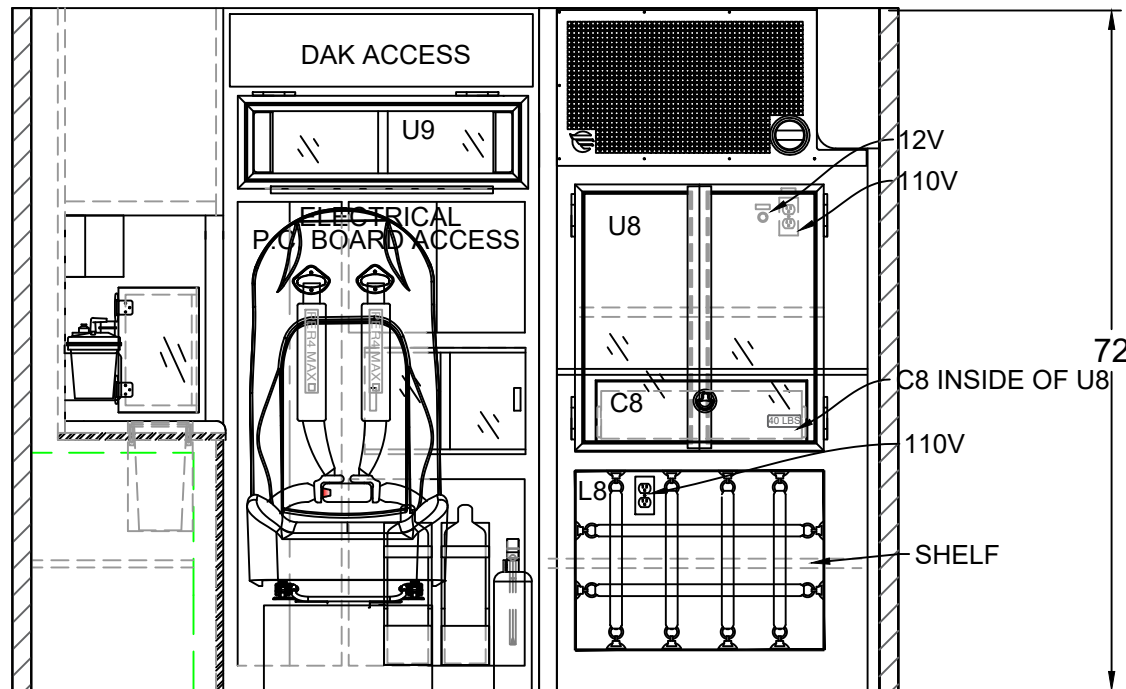
DRAWN BY DLM

DWG NO 3 / 9

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WARREN COUNTY F/R

157 x 95 x 72



BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED  
TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR  
REFERENCE ONLY PRIOR TO FINAL ENGINEERING

CABINET WEIGHT RATINGS:  
NON-RESTOCKING = 40 LBS.  
RESTOCKING = 30 LBS.

#### INTERIOR CABINET DIMENSIONS IN INCHES

| CABINET | HEIGHT | WIDTH | DEPTH | CABINET | HEIGHT | WIDTH | DEPTH |
|---------|--------|-------|-------|---------|--------|-------|-------|
| U8      | 19.00  | 33.50 | 22.25 |         |        |       |       |
| C8      | 5.00   | 21.00 | 20.00 |         |        |       |       |
| L8      | 18.50  | 33.50 | 22.25 |         |        |       |       |
| U9      | 8.00   | 28.00 | 8.00  |         |        |       |       |
|         |        |       |       |         |        |       |       |



TYPE 1 FORD 2021  
BULKHEAD INTERIOR

DATE 5/24/21

SCALE

DRAWN BY DLM

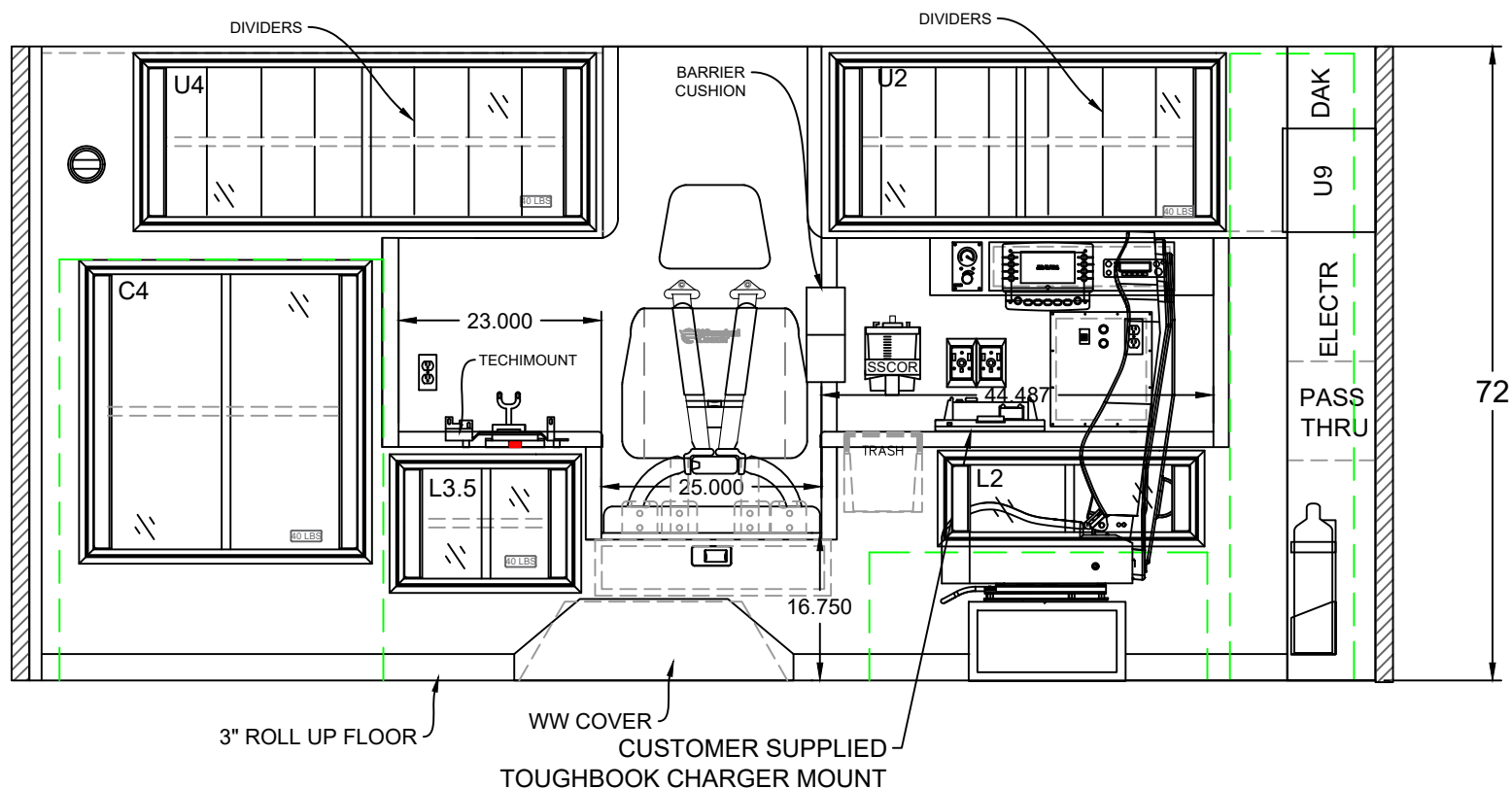
DWG NO 4 / 9

50" AISLE

CA166381

WARREN COUNTY F/R

157 x 95 x 72



INTERIOR CABINET DIMENSIONS IN INCHES

| CABINET | HEIGHT | WIDTH | DEPTH |  | CABINET | HEIGHT | WIDTH | DEPTH |  |
|---------|--------|-------|-------|--|---------|--------|-------|-------|--|
| C4      | 17.00  | 28.75 | IS/OS |  | L3.5    | 14.25  | 20.25 | 18.25 |  |
| U4      | 18.75  | 50.00 | 18.25 |  | CPR     | 4.50   | 23.50 | 18.25 |  |
|         |        |       |       |  |         |        |       |       |  |
| L2      | 10.00  | 28.50 | 18.25 |  |         |        |       |       |  |
| U2      | 18.75  | 43.50 | 16.00 |  |         |        |       |       |  |

50" AISLE

CABINET WEIGHT RATINGS:  
NON-RESTOCKING = 40 LBS.  
RESTOCKING = 30 LBS.

BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED  
TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR  
REFERENCE ONLY PRIOR TO FINAL ENGINEERING



TYPE 1 FORD 2021

LEFT INTERIOR

DATE: 5/24/21

SCALE

DWN BY

DLM

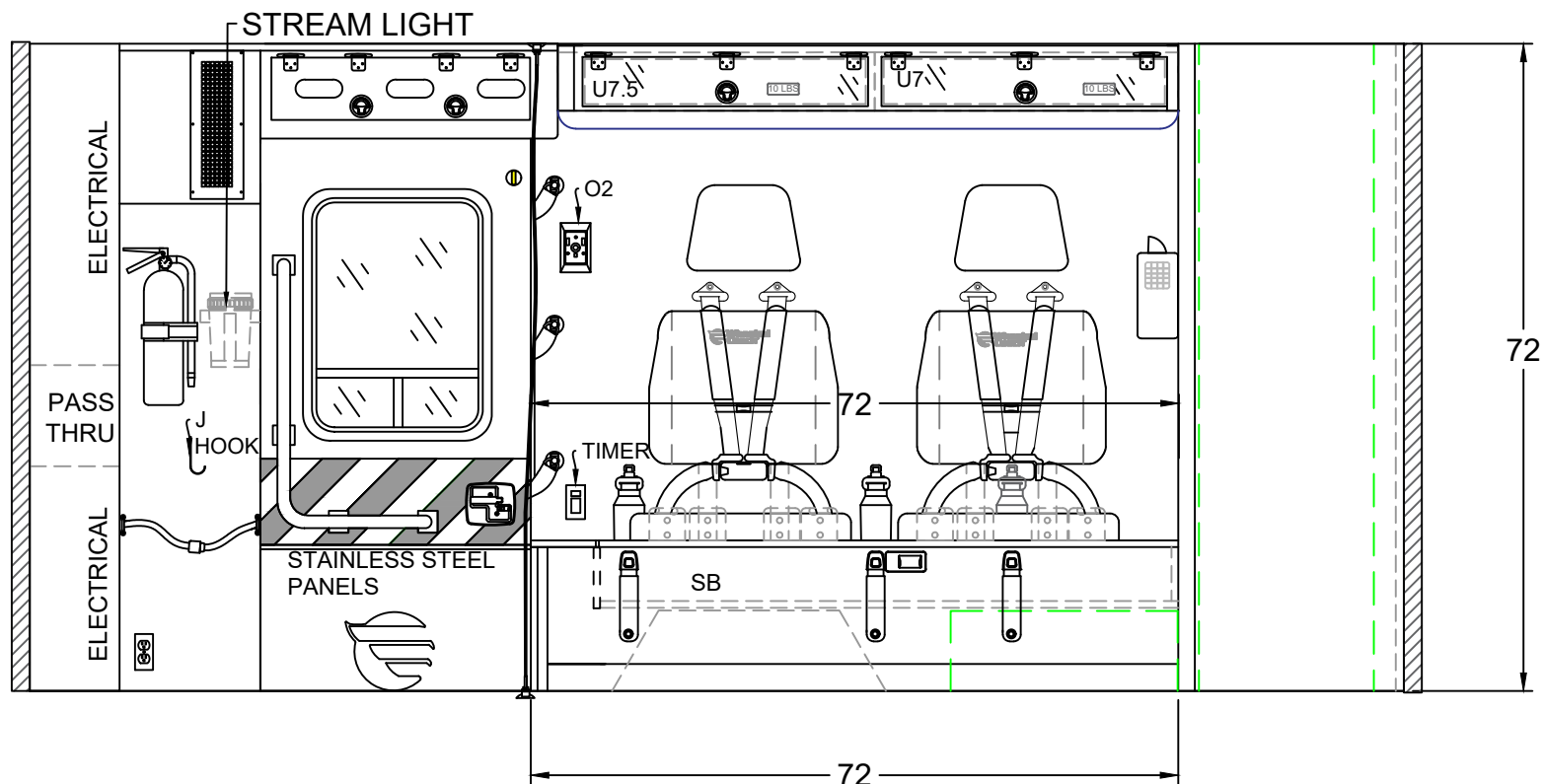
DWG NO

5 / 9

CA166381

WARREN COUNTY F/R

157 x 95 x 72



INTERIOR CABINET DIMENSIONS IN INCHES



TYPE 1 FORD 2021  
RIGHT INTERIOR

| COMPT.    | HEIGHT | WIDTH | DEPTH |                                                                             | COMPT.                                                                                                                                                    | HEIGHT | WIDTH | DEPTH |  |
|-----------|--------|-------|-------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|-------|--|
| SB        | 5.75   | 63.50 | 16.75 |                                                                             |                                                                                                                                                           |        |       |       |  |
| U7- 7.5   | 5.00   | 32.00 | 7.00  |                                                                             |                                                                                                                                                           |        |       |       |  |
|           |        |       |       |                                                                             |                                                                                                                                                           |        |       |       |  |
|           |        |       |       |                                                                             |                                                                                                                                                           |        |       |       |  |
|           |        |       |       |                                                                             |                                                                                                                                                           |        |       |       |  |
| 50" AISLE |        |       |       | CABINET WEIGHT RATINGS:<br>NON-RESTOCKING = 40 LBS.<br>RESTOCKING = 30 LBS. | BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED<br>TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR<br>REFERENCE ONLY PRIOR TO FINAL ENGINEERING |        |       |       |  |

DATE: 5/24/21

SCALE

DWN BY

DLM

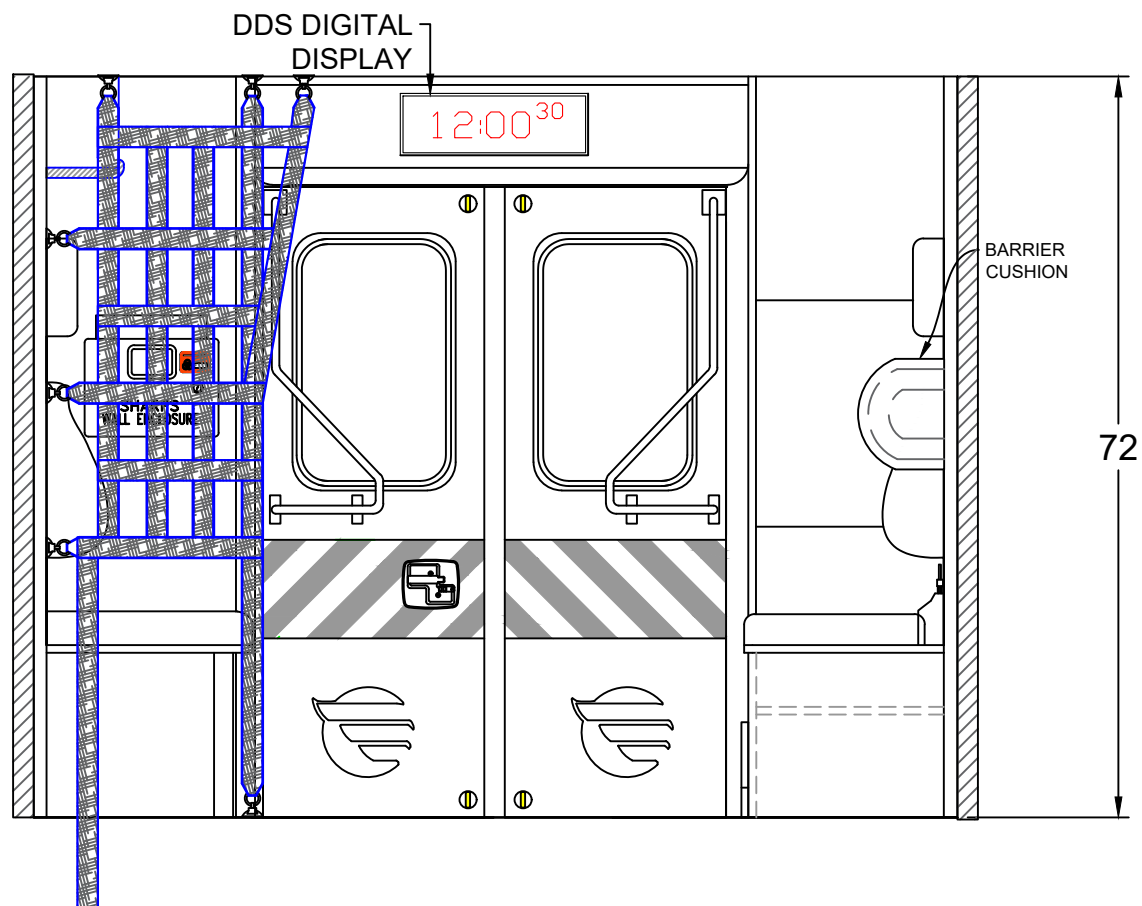
DWG NO

6 / 9

CA166381

WARREN COUNTY F/R

157 x 95 x 72



## INTERIOR CABINET DIMENSIONS IN INCHES



TYPE 1 FORD 2021

REAR BULKHEAD INTERIOR

DATE: 5/24/21

SCALE

DRAWN BY

DLM

DWG NO

7 / 9

50" AISLE

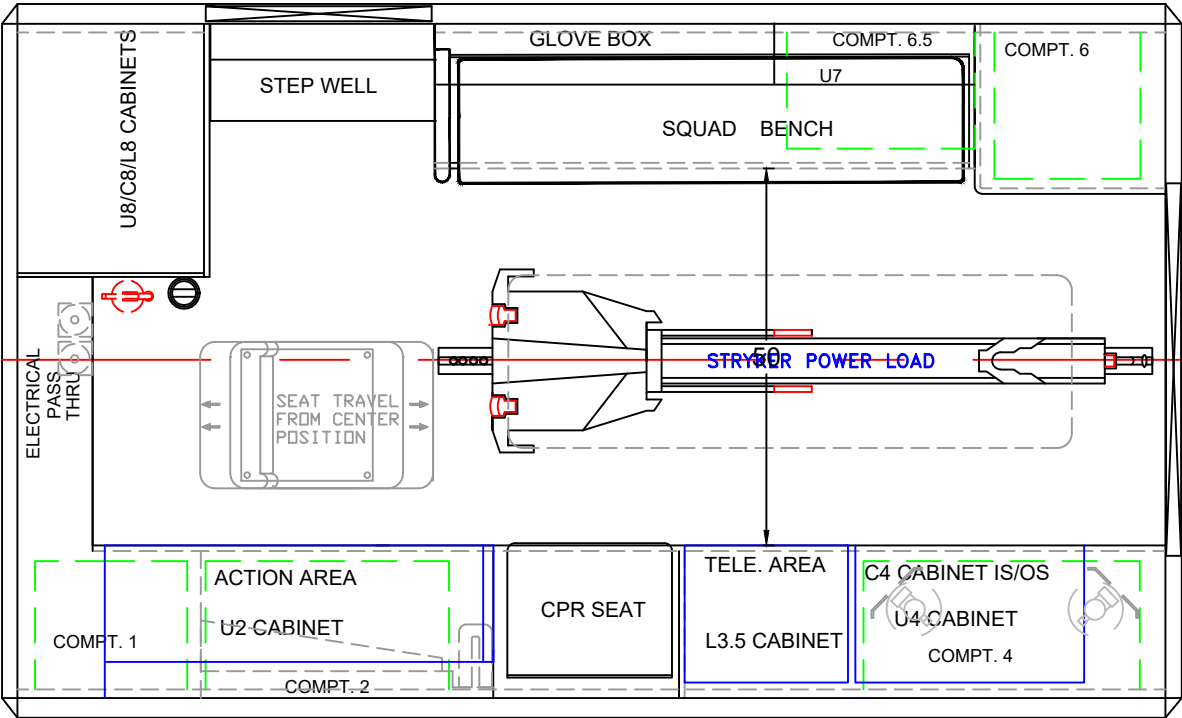
CABINET WEIGHT RATINGS:  
NON-RESTOCKING = 40 LBS.  
RESTOCKING = 30 LBS.

BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED  
TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR  
REFERENCE ONLY PRIOR TO FINAL ENGINEERING

CA166381

WARREN COUNTY F/R

157 x 95 x 72



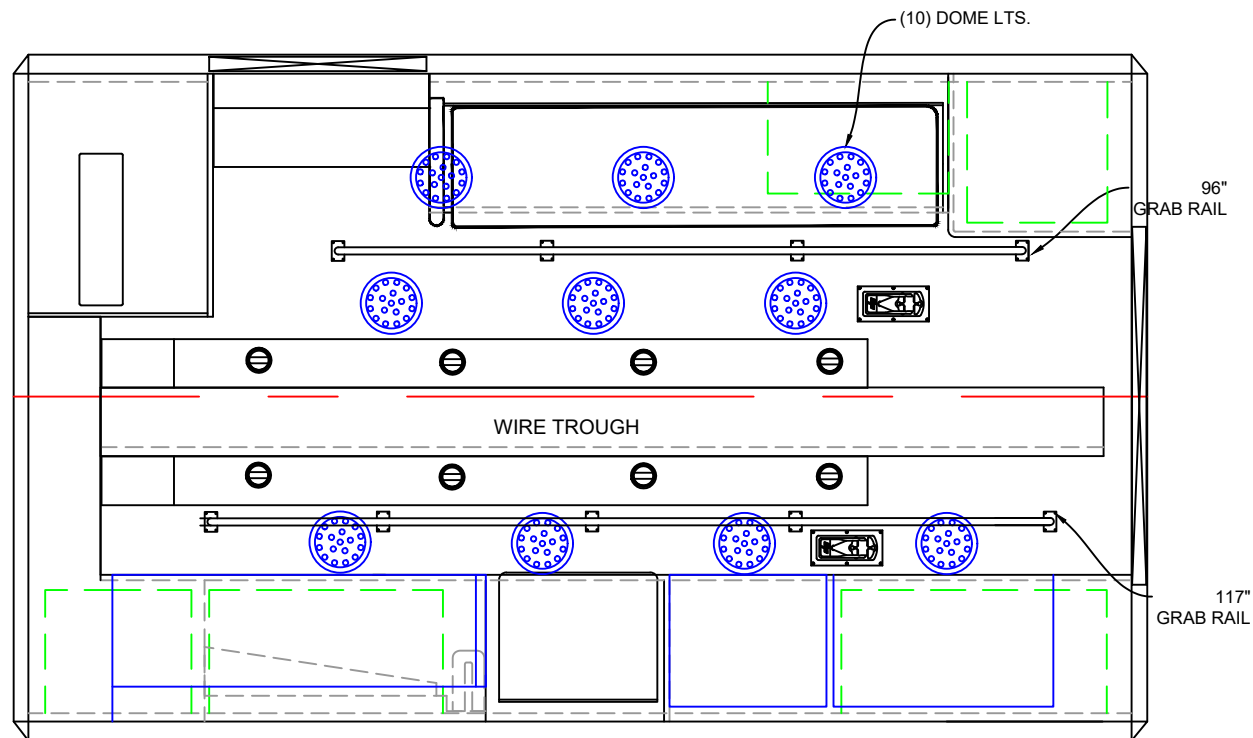
BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR REFERENCE ONLY PRIOR TO FINAL ENGINEERING

| 50" AISLE | INTERIOR CABINET DIMENSIONS IN INCHES |        |       |       |         |        |         |        |  |
|-----------|---------------------------------------|--------|-------|-------|---------|--------|---------|--------|---------------------------------------------------------------------------------------|
|           | CABINET                               | HEIGHT | WIDTH | DEPTH | CABINET | HEIGHT | WIDTH   | DEPTH  |                                                                                       |
|           |                                       |        |       |       |         |        |         |        |                                                                                       |
|           |                                       |        |       |       |         |        |         |        |                                                                                       |
|           |                                       |        |       |       |         |        |         |        |                                                                                       |
|           |                                       |        |       |       |         |        |         |        |                                                                                       |
|           |                                       |        |       |       |         |        |         |        |                                                                                       |
|           |                                       |        |       |       |         |        |         |        | TYPE 1 FORD 2021                                                                      |
|           |                                       |        |       |       |         |        |         |        | FLOOR PLAN                                                                            |
|           |                                       |        |       |       |         | DATE:  | 5/24/21 | SCALE  |                                                                                       |
|           |                                       |        |       |       |         | DWN BY | DLM     | DWG NO | 8 / 9                                                                                 |

CA166381

WARREN COUNTY F/R

157 x 95 x 72



BE ADVISED THAT THESE ARE PRELIMINARY LAYOUTS INTENDED  
TO ILLUSTRATE DESIGN INTENT AND DIMENSIONS ARE FOR  
REFERENCE ONLY PRIOR TO FINAL ENGINEERING

|           |                                       |        |       |       |         |        |       |       |                                                                                       |               |
|-----------|---------------------------------------|--------|-------|-------|---------|--------|-------|-------|---------------------------------------------------------------------------------------|---------------|
| 50" AISLE | INTERIOR CABINET DIMENSIONS IN INCHES |        |       |       |         |        |       |       |  |               |
|           | CABINET                               | HEIGHT | WIDTH | DEPTH | CABINET | HEIGHT | WIDTH | DEPTH |                                                                                       |               |
|           |                                       |        |       |       |         |        |       |       |                                                                                       |               |
|           |                                       |        |       |       |         |        |       |       | TYPE 1 FORD 2021<br><br>LINER                                                         |               |
|           |                                       |        |       |       |         |        |       |       |                                                                                       |               |
|           |                                       |        |       |       |         |        |       |       |                                                                                       |               |
|           |                                       |        |       |       |         |        |       |       |                                                                                       |               |
|           |                                       |        |       |       |         |        |       |       |                                                                                       |               |
|           |                                       |        |       |       |         |        |       |       | DATE: 5/24/21                                                                         | SCALE:        |
|           |                                       |        |       |       |         |        |       |       | DWG BY: DLM                                                                           | DWG NO: 9 / 9 |



# COUNTY OF WARREN, VIRGINIA

## BOARD OF SUPERVISORS AGENDA ITEM

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                           |                                                                                                                                                                    |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>DATE</b><br>10/18/2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>ITEM</b><br>H-7                                                                                                        | <b>SUBJECT:</b><br>Resolution in Support of the Virginia America 250 Commission to Commemorate the 250 <sup>th</sup> Anniversary of the American Revolutionary War |                      |
| <b>EXPLANATION &amp; SUMMARY:</b><br>In 2020 the Virginia General Assembly established the Virginia American revolution 250 Commission (aka VA250) whose mission is to commemorate the 250 <sup>th</sup> anniversary of the American Revolution and the Revolutionary War to win independence of the nation. They have been tasked to promote and assist Counties, Cities and Towns to form local committees and partnerships in order to participate in grant funding opportunities for commemorative events, exhibitions, and educational resources. The following links provide additional information about the organization and events.<br><br><a href="#">History - Virginia American Revolution 250 Commemoration - VA250</a><br><a href="#">Virginia American Revolution 250 Commemoration - VA250   Facebook</a> use the hashtag #va250<br><br>Please see attached resolution. |                                                                                                                           |                                                                                                                                                                    |                      |
| <b>PROPOSED OR SUGGESTED MOTION:</b><br>I move that the Board of Supervisors approve the attached resolution in support of the Virginia America 250 Commission and form a local committee to recognize, promote and commemorate the 250 <sup>th</sup> anniversary of the American Revolution and Revolutionary War for Independence in the County of Warren, Virginia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                           |                                                                                                                                                                    |                      |
| <b>SUBMITTED BY:</b><br>Matt Wendling, CFM<br>Planning Director<br>County Floodplain Manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>DISPOSITION OF BOARD:</b><br><input type="checkbox"/> <b>APPROVED</b> <input type="checkbox"/> <b>OTHER (Describe)</b> |                                                                                                                                                                    | <b>PROCESSED BY:</b> |

# RESOLUTION



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***of the Board of Supervisors of Warren County Relating to the Support of the Virginia America 250 Commission to Commemorate the 250<sup>th</sup> Anniversary of the American Revolutionary War for Independence and the Birth of Our Nation***

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WHEREAS the Board of Supervisors of Warren County, Virginia ("the County") is dedicated to the furtherance of economic development and tourism in the County of Warren, Virginia; and

WHEREAS the Virginia America 250 Commission (VA250) was created in 2020 by the General Assembly for the purpose of preparing for and commemorating the 250th anniversary of Virginia's participation in American independence; and

WHEREAS VA250 has requested that each locality form a committee to aid in planning for the commemoration period; and

WHEREAS Warren County, Virginia will form a local VA250 committee that will plan and coordinate programs occurring within the locality and communicate regularly with VA250; and

WHEREAS the Board of Supervisors wishes to undertake this endeavor with VA250 to promote and commemorate this important historic milestone; and

WHEREAS this Commission will include the recognition of the County's namesake Major General Dr. Joseph Warren as a major contributor in the fight for freedom and honor his sacrifice in giving his last full measure of devotion to the cause of liberty; and

WHEREAS the Commission will recognize other local soldiers and patriots such Brigadier General Daniel Morgan, Thomas Allen, Daniel Cloud, Samuel Cox, Reuben Finnell, Philip Gatewood, John Honaker, William H. Jacobs, James Markham Marshall, Thomas Marshall, Alexander Mathews, John A. McDonald, Samuel M. Richardson, William Richardson, Henry VanMeter, Jr., and other whose names may have been lost to time but whose deeds will always be remembered.

NOW, THEREFORE, BE IT RESOLVED by the Board of Supervisors of Warren County, Virginia:

1. The Board of Supervisors hereby desires to support the Virginia America 250 Commission and their efforts to commemorate the 250th anniversary of Virginia's participation in American War for Independence, Liberty and self-governance; and
2. Dr. Edwin C. Daley, County Administrator, will form a committee to aid in the planning for the commemoration period.

The Resolution shall be effective immediately.

## CERTIFICATE

The undersigned Dr. Edwin C. Daley, Clerk of the Board of Supervisors of Warren County, Virginia, hereby certifies the foregoing constitutes a true and correct copy of a Resolution Relating to the Support of the Virginia America 250 Commission Recitals was adopted at a regular meeting duly held and called on October 18, 2022, for which proper notice was given. A record of the roll-call vote by the Board is as follows:

| <b>Name</b>                  | <b>Aye</b> | <b>Nay</b> | <b>Abstain</b> | <b>Absent</b> |
|------------------------------|------------|------------|----------------|---------------|
| Cheryl L. Cullers, Chair     |            |            |                |               |
| Delores R. Oates, Vice Chair |            |            |                |               |
| Jerome K. "Jay" Butler       |            |            |                |               |
| Victoria L. "Vicky" Cook     |            |            |                |               |
| Walter J. "Walt" Mabe        |            |            |                |               |

Adopted: October 18, 2022

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Chair, Board of Supervisors

ATTEST:

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Clerk to the Board of Supervisors

### **Motion to be Made Going into Closed Meeting**

I move the Board enter into a closed meeting under the provisions of Sections 2.2-3711(A)(7) and (A)(8) of the Virginia Freedom of Information Act for consultation with legal counsel pertaining to actual or probable litigation and the provision of legal advice regarding the Industrial Development Authority of the Town of Front Royal and the County of Warren, Virginia (the “EDA”), the Town of Front Royal, the *EDA vs. Jennifer McDonald, et al.*, the *Town of Front Royal vs. the EDA, et al.*, the *EDA vs. the Town of Front Royal*, other potential claims and litigation relating to other possible liabilities of the EDA, the recovery of EDA funds and assets, and the outstanding indebtedness of the EDA.

- - -

### **Motion to be Made Coming out of Closed Meeting**

I move that the Board certifies to the best of each member’s knowledge only public business matters lawfully exempted from open meeting requirements under Sections 2.2-3711(A)(7) and (A)(8) of the Virginia Freedom of Information Act and only such public business matters as were identified in the motion by which the closed meeting was convened were heard, discussed, or considered in the meeting by the public body.