MEETING OF THE BOARD OF COMMISSIONERS REGULAR MONTHLY MEETING BETHEL TOWN HALL August 5, 2025

Present: Mayor Carl Wilson, Mayor Pro-Temp Barbara Bynum, Commissioner Ferrell Blount, Commissioner Thomas Lilley, Commissioner Tina Staton, and Commissioner Fred Whitehurst

Members of the Board Absent: None

Staff Present: Interim Town Manager, D. Scott Elliott, Attorney, Keen Lassiter, CPA, Beverly Stroud, and Deputy Clerk, Jalissa Griggs

Call to Order

Mayor Wilson called the meeting to order at 6:02 P.M. Mayor Pro Temp Bynum gave the invocation.

Mayor Wilson then led the pledge of allegiance.

Commissioner Lilley made a motion to approve the proposed agenda, the motion carried unanimously.

Commissioner Staton made a motion to approve the minutes from the regular monthly meeting on June 3, 2025 and the special called meetings on May 13, 2025 and July 21, 2025, the motion carried unanimously.

Commissioner Lilley made a motion to approve the designation of "Mayor for a Day" to Mariah Harrell.

Principal Bell from Bethel School commented that Mariah Harrell is a phenomenal 4th grade student at Bethel School.

Judge Wendy Hazelton then performed the swearing-in for Oath of Office to Mariah Harrell.

Mayor Wilson presented Mariah Harrell a Certificate of Recognition.

Public Comments

Curshenia Wilson, a citizen of Bethel, expressed her concerns of the mega site proposal for Allpine Taylor Rd.

Tricia Werkaw, a citizen of Bethel, mentioned that she has voter registration forms for the Municipal Election in November 2025.

Hometown Bethel, an organization of Bethel, announced that the Harvest Festival will take place on September 20, 2025 with a rain date of September 27, 2025 from 10am until 9pm.

Public Hearing

Ben Jones with Faltor Consulting described the 2025 CDBG Neighborhood Revitalization Grant project and how the funding could assist the town's revitalization needs if funded (See Attachment A).

Interim Town Manager asked Ben Jones to explain how applicants will be vetted. All applicants will be surveyed to include name, address, phone number, household count, and income information, as well as a home evaluation.

Commissioner Staton asked how a citizen could receive an application. Citizens can call Town Hall to have their name added to a call back list for Faltor Consulting to complete the survey and home evaluation.

Commissioner Blount asked if the grant was awarded, are applicants burdened with a lien or will this be a gift. If awarded, the applicant will have a forgivable loan for eight years. The applicant will not have to pay it back unless they are to sell the property before the eight year period. Every year for eight years a percentage of the money originally spent on rehabilitation is forgiven. After eight years the Deed of Trust is cancelled.

Mayor Pro Temp Bynum asked how many homes could be done with the CDBG grant program. Depending on the size of the homes selected, four to five homes could be torn down and rebuilt per program.

A Public Hearing was held to receive public input regarding the 2025 CDBG Neighborhood Revitalization Grant project.

Mayor Wilson opened the public hearing.

No one spoke.

Mayor Wilson closed the public hearing.

Interim Town Manager announced that there will be a second Public Hearing on September 2, 2025 at 6:00pm.

Old Business

Interim Town Manager stated that a motion of intent to purchase a new fire pumper was passed at the Special Called Meeting on May 13, 2025. Subsequent to that meeting, the Town was required to engage the LGC (Local Government Commission) into the process of the truck

purchase because the Town is still on the UAL (Unit Assistance List) and because the Town will be seeking financing terms on \$150,000 loan toward the purchase of the truck.

It was noted that the Town of Bethel will be ineligible to participate in the State's OFSM (Office of State Fire Marshall) 50-50 grant program for the purchase of the new fire truck. This would have leveraged an additional \$40,000 of funding to a town grant match of \$40,000. The reason the town will be ineligible is because no decision to purchase can be made before the grant submission date of March 1, 2026 as well as the grant award announcements by OSFM of May 15, 2026.

Commissioner Blount asked for the cons of waiting to purchase. Commissioner Lilley commented that if it were delayed, it would be another 16 to 24 months to purchase a pumper. Captain Wayne Bryant stated that the price would be significantly higher because the engine will change based on updated codes.

Mayor Pro Temp Bynum asked for clarity with the 50-50 grant. Commissioner Lilley explained that the Office of State Fire Marshall would consider a match up to \$40,000.

Commissioner Lilley mentioned that the 50-50 grant could still be utilized in the future to purchase equipment features for the new truck.

Commissioner Blount stated he would be willing to make a contribution toward the \$40,000 gap to purchase the fire truck.

Interim Town Manager stated that any monies raised could defer the \$376,548 Town fund balance appropriation. A purchase order will still have to be executed in the financial software system to account for the balance on the books.

Commissioner Lilley made a motion to execute a purchase agreement for the E-ONE/FL VM8 Pumper (\$526,548) (See Attachment B), motion carried unanimously.

It was noted that the \$40,000 cannot be contributed toward the apparatus purchase. The balance of \$376,548 is the Town's responsibility to be deferred potentially by fundraising efforts.

Rivers & Associates provided an update regarding the Town's Stormwater AIA Study. The first major phase of the study (Asset Inventory Assessment) is now considered complete. The second phase of the work is to then develop a Stormwater Asset Management Plan.

Rivers & Associates provided an overview of their initial study results as well as an explanation of the stormwater issues in the areas of town affected by the July 13, 2025 rain event (See Attachment C).

A Public Information/Input Meeting for the Stormwater Study is scheduled for Tuesday, August 12, 2025 6:00pm at the Bethel Fire Department Meeting Room. A Public Officials Workshop – Stormwater Plan Completion will be scheduled at a later date once the study is completed.

Public Comments

Deborah Jordan, a citizen of Bethel, expressed heartfelt thanks to Interim Town Manager and Commissioner Lilley for their efforts in assisting her from a motor vehicle accident.

New Business

Interim Town Manager commented that Pitt County, acting as the Town's administrative agent for Hazard Mitigation Matters, is asking for municipalities to adopt the recently revised Neuse River Regional Hazard Mitigation Plan. As referenced in the Plan, it states that "Communities with an adopted and federally approved hazard mitigation plan thereby became pre-positioned and more apt to receive available mitigation funding before and after the next disaster strikes." Attachment D is the first fifteen pages of a roughly 750-page overall document. These pages serve as a summary in the essence of the plan.

Commissioner Lilley made a motion to adopt the Resolution in regard to the Neuse River Regional Hazard Mitigation Plan (See Attachment E), motion carried unanimously.

Interim Town Manager presented two End of Year (FY24-25) budget adjustments:

- Budget Amendment #18 (See Attachment F)
- Budget Amendment #19 (See Attachment G)

These adjustments were within the Interim Town Manager's authority to approve. They were executed toward the purpose of preventing an over expenditure of funds within the budgets of the Senior Center and Fire Department.

Interim Town Manager presented one budget amendment for FY25-26. This budget amendment moves existing line-item funding within Public Works from Supplies (560-3330) to Street Maintenance (560-1500).

• Budget Amendment #1 (See Attachment H)

This has been discussed and prepared by the Town's outside financial consultant, Beverly Stroud, CPA.

Mayor Pro Temp Bynum made a motion to approve Budget Amendment 1, motion carried unanimously.

Departmental Reports

Interim Town Manager referred the public safety report for the month of May 2025 and June 2025 from information provided by the Town of Bethel and the Sheriff's Office (Attachment I).

Beverly Stroud, CPA gave the financial report. The Town will be submitting the trial balance for fiscal year 2025 to Gregory Redman, CPA soon so that the 2025 audit can begin. The LGC-203 and Powell Bill expenditure report have been submitted.

The Town had an ending fund balance in fiscal year 2024 of \$3,214,460 and is projected to have a decrease in fund balance in fiscal year 2025 of approximately \$500,000 due to appropriations in fund balance for several projects. Appropriations from fund balance were made in the amount of \$1,009,002 during fiscal year 2025. Of this amount, \$746,410 has been spent at June 30, 2025. Some appropriations will need to be re-allocated in fiscal year 2026 to complete the projects (i.e. Stormwater Study) approved by the Board of Commissioners (See Attachment J).

Commissioner Lilley made a motion to approve the financial report for the month of May 2025 and June 2025, motion carried unanimously.

Interim Town Manager announced the Hometown Bethel Harvest Festival will be held September 20, 2025.

Interim Town Manager announced the 2025 Christmas Parade proposed date of Saturday, December 13, 2025 and the 2025 Tree Lighting proposed date of Saturday, December 6, 2025.

Awesome Radio would like to hold a 2025 Town of Bethel Candidate's Forum on October 9, 2025. Location to be announced.

It was announced that the next monthly meeting will be held September 2, 2025.

Fire Department

Fire Chief Lilley gave a report of calls for June 2025 and July 2025 (See Attachment K).

Town Hall will take requests for smoke alarm installations.

September 20, 2025 BBQ Chicken Fire Department Fundraiser.

Public Works

The LED street lighting conversion is ongoing by Dominion Energy at no cost to the Town and will yield a lower utility bill to the Town.

The existing mowing contractor terminated their contract to continue the municipal lawn care contract due to inability to fulfil the workload. The new contractor has begun as of August 1, 2025. The former contractor still holds the Residential Debris Pick up Contract, although if the

contractor is not able to fulfil the workload, the current municipal lawn care contractor is able to take over the contract.
Town Attorney
No report was given.

Closing Remarks

Mayor Pro Temp Bynum announced that Jerome Brown ran into difficulties with the grocery store and the coffee shop is proposed to open in November 2025.

Commissioner Staton announced the Harvest Festival 2025 vendor forms are available.

Mayor Wilson asked citizens to help keep the city clean by cleaning up grass clippings.

Commissioner Lilley made a motion to adjourn the meeting at 7:51 pm, the motion carried unanimously.

ATTEST:	Mayor, Carl Wilson	
Linda Sheppard, Town Clerk		
Date		

ATTACHMENT A

Community Development Block Grant Neighborhood Revitalization (CDBG-NR)

Funded by: U.S. Department of Housing & Urban Development (HUD)

Administered by: NC Department of Commerce / Rural Economic Development

Division

Purpose / Objective

"Supports community-driven revitalization activities in low- to moderate-income areas to address housing, infrastructure, and public facility needs that improve quality of life."

Eligible Activities

- Housing rehabilitation/reconstruction (main activity)
- · Public infrastructure improvements (streets, sidewalks, water/sewer)
- · Neighborhood parks & public spaces upgrades
- Funding Information
- Maximum Grant Amount: \$950,000.00
- No Local Match Requirement: (100% Grant funded)
- Administration fees paid from grant
- No cost to Town
- Application Deadline: (Oct. 29)
- Grant Period: 36 Months
- Municipality can apply each year
- Recipient Eligibility Requirements
- Low and Moderate Income
- Owner Occupied Homes
- Real Property

ATTACHMENT B



Presents To

Bethel Fire Department

E-ONE/FL VM8 Pumper

EXPERIENCE THE DIFFERENCE.



2520 N. Wesleyan Blvd. Rocky Mount, NC 27804 Office | 1.877.358.FIRE sales@fireconnections.com

EMERGENCY VEHICLE PROPSAL

March 26, 2025

This propsal has been prepared for:

Bethel Fire Department

We hereby propose to furnish to you, subject to proper execution of the attached agreement by you and by an officer of Fire Connections, Inc., the following apparatus, and equipment to be built in accordance with the attached specifications:

One (1) E-One/FL VM8 Pumper Q 141060 3-26-25

\$526,548.00

- This proposal will expire April 26, 2025
- The delivery will be F.O.B. Fire Connections, Inc., Rocky Mount. The approximate delivery date will be determined once all changes are complete, and the order is released to production.
- Terms of payment are cash upon pick-up unless otherwise stated.

Fire Connections, Inc.

...

Jack W. May

Travis Mayo President

Dealer supplied Items:

Travel is included in this proposal for [4] FD personnel for final inspection only. All transportation, meals and lodging are included.

This proposal includes a \$3,000.00 graphics allowance. This will cover any graphics not listed in this specification.

This proposal includes a \$10,000.00 Equipment and Mounting allowance.

- [1] 1" Booster Nozzle TFT 1040
- [2] 100' X 1" Rubber booster hose.
- Streamlight Vulcan LED handlights mounted.
- [1] 6" Barrel Strainer
- [2] 6" X 10' Hard Suction hose
- [2] Axes Mounted
- [2] pike poles

The following items are included in the proposal price but not listed in the specification due to program restrictions.

- 2.5" front bumper discharge
 FCI will exchange the 1.5" discharge with a 2.5" and all its respective
 components.
- Deck Gun Package
 An Akron Apollo Hi-Riser deck gun package will be include din the price of the truck and will have a ground mount, solid bore tips, and fog nozzle included. This gun rotates and extends up 13"

3. M9 Blue Light

FCI will replace in exchange a Whelen M9 upper rear Driver Side Red light with a blue light.

4. Ion-T in Rub Rail

FCI will add [2] ION-T Whelen lights in the rub rail area to improve on side warning lights.

Foam Gauge and Valve

FCI will add a foam level gauge on the pump panel and provide a 1" foam drain valve and to allow filling of buckets with foam concentrate.

Wheel Chocks

FCI will install 2 wheel chocks under the body.

7.

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VM8 BASE MODEL

TOP MOUNT PUMPER

VM8 Compliance

E-ONE Badging

The following logos shall be provided:

- (4) small E-ONE logos mounted one each side and rear
- (1) vinyl logo on the front bumper

NFPA Compliance

The E-ONE supplied components of the apparatus shall be compliant with NFPA 1900, 2024 edition.

CHASSIS PREP

Chassis Processing

Commercial chassis administrative, processing and handling,

VM8 CHASSIS OPTIONS

Isolated Air Reservoir

The air system shall have an additional 1738 cu. in. isolated reservoir. The supply side of the reservoir shall be equipped with a check valve and an 85 psi pressure protection valve.

Specified options shall be plumbed to the isolated air tank.

ALUMINUM WHEELS

Aluminum wheels will be supplied by the commercial chassis manufacturer. Includes front wheels and rear wheels.

WHEEL TRIM PACKAGE

The front wheels shall have stainless steel lug nut covers (for use with aluminum wheels) OR chrome plated plastic (for use with steel wheels). The wheels shall be covered with American made Real Wheels brand mirror finish, 304L grade, non-corrosive stainless steel universal baby moons for the front wheels and high

hats for the rear outer wheels. All shall carry a lifetime warranty plus a 2 year re-buffing policy. There shall be two (2) baby moons and twenty (20) lug nut covers.

CAB COLOR SPECIAL

Commercial cab color special color as required by the customer. Provided as ordered with the commercial chassis.

OEM FRONT BUMPER AND TOW HOOKS

The chassis OEM from bumper and tow hooks will be omitted to allow installation of extended front bumper assemby.

FREIGHTLINER

Freightliner M2 106 Conventional

Minimum GVWR: 2-door - 39,000 lbs.

191 W/B Side Mount - 221 WB Top Mount

ENGINE

Cummins L9 - 360EV HP @2200 RPM; 1150 lb/ft @ 1200 RPM

Maximum 68 MPH road speed limit (per NFPA 1901)

Side of hood air intake with NFPA compliant ember screen and fire retardant Donaldson or equal air cleaner.

Minimum 320 amp alternator

Minimum 2000CCA, 370RC batteries with threaded studs under left side cab

Positive load disconnect with cab mounted control switch mounted outboard of driver's seat

Turbocharged 18.7 cfm air compressor with internal safety valve and mechanical governor

Exhaust brake integral with variable geometry turbo and ON/OFF dash switch. Must automatically activate apparatus stop lamps.

Right side outboard under step mounted horizontal aftertreatment system with horizontal tailpipe exiting forward of right rear wheels

Engine aftertreatment device, automatic over the road active regeneration and dash mounted single regeneration request/inhibit switch

Diesel exhaust fluid tank - 6 gallon under left cab aft of fuel tank

Horton Drivemaster Advantage ON/OFF fan drive, automatic control

1100 square inch aluminum radiator

Electric grid air intake warmer

TRANSMISSION

Allison 3000 EVS automatic

PTO provision for Chelsea 280 series PTO (2)

Vocation package 198 for fire vehicle applications

Magnetic drain plugs

Push-button electronic shift control - dash mounted

Water-to-oil cooler in radiator tank

Synthetic fluid

FRONT AXLE

2-door cab models - 14,700 lb. Set-back with drop

16.5X5Q+ cast spider heavy duty cam front brakes, double anchor, fabricated shoes

Fire and Emergency Severe Service, non-asbestos front lining

Cast iron front brake drums

Front oil seals

Vented oil front hub caps with window, center and side plugs

Automatic slack adjusters with stainless steel clevis pins

Power steering

2-quart see-through power steering reservoir

14,600 lb. taperleaf suspension

Maintenance-free rubber bushings

Shock absorbers

REAR AXLE

27,000 lb. T-Series fire vehicle service single

5.13 rear axle ratio

Iron carrier with standard axle housing

Extended lube main driveline with half-round yoke

16.6X7 P cast spider cam rear brakes, double anchor, cast shoes

Fire and Emergency Severe Service non-asbestos rear brake linings

Brake cams and chambers on forward side of drive axle

Rear oil seals

Longstroke 1-drive axle spring parking chambers

Automatic slack adjusters

27,000 lbs. flat leaf spring rear suspension with radius rod for Fire/Emergency service

Fore/Aft control rods

BRAKE SYSTEM

WABCO 4S/4M ABS

Air system pressure protection and 85 psi pressure protection for air horns

Relay valve with 5-8 psi crack pressure

WABCO System Saver HP with integral air governor and heater

Auto Drain valve - wet tank

WHEELBASE

2-door Side Mount models – Turning radius is considered critical for this apparatus, therefore the maximum wheelbase shall not exceed 191 inches

2-door Top Mount models – Turning radius is considered critical for this apparatus, therefore the maximum wheelbase shall not exceed 212 inches

FUEL TANK & SYSTEM

Minimum 50 gallons/189 liter rectangular polished aluminum mounted beneath left front cab door.

Bright aluminum treadplate trim package will be installed beneath the cab doors above the secondary step and the bottom of the cab and the first and secondary step.

Cab steps shall be polished stainless steel

Fuel/water separator with water in fuel sensor

High temperature reinforced nylon fuel line

Fuel cooler

TIRES & WHEELS

Front: Michelin or equal XZE 12R22.5 16 ply radial

Rear: Michelin or equal XDN2 12R22.5 16 ply radial

22.5x8.25 10-hub piloted steel disc (6)

HUBS

Conmet Preset Plus premium iron

CAB EXTERIOR

2-door cab models - 106 inch BBC flat roof aluminum conventional cab

Air cab mounting

Cab roof reinforcements for roof mounted lightbar

Safety yellow left and right interior grab handles and exterior non-slip grab handles

Chromed grille

Chromed air intake grille with ember screen

Fiberglass tilting hood

Dual 25 inch round Stuttertone hood mounted air horns (one left and one right) with shields.

Left and right air horn foot switches with momentary dash switch for horn button

Door locks and ignition switch keyed alike

Dual West Coast mirrors; bright finish; heated; left and right remote adjustment 8 inch bright finish convex mounted under primary mirrors; right side down view mirror

Aftertreatment system on right side with polished diamond plate cover

Electric horn warning system for park brake when not set with door open and all ignition key positions

Tinted windshield and door glass

Manual door window regulators

Three-piece 14 inch chromed steel bumper with collapsible ends

Front tow hooks - frame mounted (2)

CAB INTERIOR

Molded inner door panels

Opal gray vinyl interior

Black mats with single insulation

Heater, defroster and air conditioner with standard HVAC ducts and controls with recirculation switch

Premium cab insulation

Door activated dome/red map lights, forward left and right and (if 4-door) rear left, right and center.

Manual cab door locks

Seats:

- Driver: High back air suspension driver seat with NFPA 1901 compliant seat sensor
- Officer: High back air suspension officer seat with NFPA 1901 compliant seat sensor

Black Cordura Plus cloth seat covers

NFPA compliant high visibility orange seatbelts

All seating positions shall have a seat sensor that advises the driver through a visual display on the dash within the driver zone of seatbelt status for all positions in the apparatus. The sensors shall be connected directly to the VDR (vehicle data recorder (VDR) integrated into the dash. Connection for downloading recorded data shall be through the J1939 port.

Adjustable tilt and telescoping steering column with 4-spoke 18 inch steering wheel

Driver and officer side interior sunvisors

INSTRUMENTS & CONTROLS

Engine remote interface with park brake interlock

Low air pressure indicator light and audible alarm

2 inch primary and secondary air pressure gauges

Engine compartment mounted air restriction indicator with graduations and warning light in dash

Woodgrain driver and center instrument panel

Electronic cruise control with switches in left switch panel

Ignition switch with non-removable key

Heavy duty onboard diagnostics interface connector located below left dash

2 inch fuel gauge

Engine remote interface for remote throttle

Engine remote interface connector in engine compartment

Engine coolant temperature gauge

Engine oil pressure gauge

2 inch transmission temperature gauge

Engine and trip hour meters integral within driver display

Power and ground wiring provision in overhead console

Electronic MPH speedometer with secondary KPH scale without odometer

Vehicle speed sensor

Electronic 3000 rpm tachometer

Digital voltage display integral in driver display

Electric windshield wiper motor and display

Alternating flashing headlamp system with fire apparatus controlled engagement

Parking brake system with dash valve control auto/neutral and warning indicator

Self-cancelling turn signal switch with dimmer, washer/wiper and hazard in handle

AIR OUTLET

A ½" male plug air hose inlet shall be connected to the air reservoir tank. A ½" inline check valve will be installed in the line. Air hose connection will provide the capability of filling the air brake system with air from an outside source. It will be located beneath the driver's cab door above the fuel tank.

CAB DOOR RETRO-REFLECTIVE STRIPING

Chevron style retro-reflective striping shall be added to the inside of the cab doors in accordance to NFPA requirements. It shall cover not less than 96 sq.in of each door meeting MFPA 1901.

TIRE PRESSURE MONITORING SYSTEM

There shall be a RealWheels LED AirGuard Set and Go, six (6) wheel stabilizer kit, for 2.00 inch round holes and LED indicators proper air pressure in the tire.

The inner tire on the rear dual axle shall have an extension provided that will pass through the outside rim and attach to the stabilizer providing an unobstructed view for inspection of the inner tire air pressure.

The indicators shall be installed by the department after the unit has been fully equipped and the tires set to the manufactures recommended pressure rating. The indicators will calibrate to that initial air pressure setting upon installation and will intermittently flash when the tire pressure is reduced by 5 to 10 psi from its original calibrated pressure.

EXTENDED FRONT BUMPER

The chassis frame shall be extended twenty (20) inches. The extension shall provide added protection to the front of the chassis cab.

The bumper shall be stainless steel not less than 10" high contour wrapped on the end in place of the OEM bumper.

Space between the bumper and the hood will be filled by minimum .125" bright aluminum treadplate. All seams shall be welded.

An additional Whelen 600 warning light shall be provided one each side of the front bumper extension.

Jacobs Engine Brake

One (1) Jacobs engine brake shall be installed to assist in slowing and controlling the vehicle as required by NFPA 1901 for vehicles with gross vehicle weight ratings (GVWR) of 36,000 lbs. or greater. An on-off control switch and a high-medium-low selector switch shall be mounted in the cab accessible to the driver.

When activated, the Jacobs engine brake shall cut off the flow of fuel to the cylinders and alter the timing of the exhaust valves. This shall transform the engine into a high-pressure air compressor, driven by the wheels, and the horsepower absorbed by the engine in this mode shall slow the vehicle. The selector switch allows the driver to select the amount of retarding power.

When the on-off switch is in the "on" position, the engine brake shall be automatically applied whenever the accelerator is in the idle position and the automatic transmission is in the lock-up mode. If the accelerator is depressed or if the on-off switch is placed in the "off" position, the engine brake shall immediately release and allow the engine to return to its normal function.

Electronic Stability Control

Electronic stability control shall be provided with commercial chassis.

CAB DOOR OPTIONS

Cab Door Interior Striping

Reflective striping shall be installed on commercial cab doors, visible when the door is open, meeting NFPA requirement of 96 sq. in. coverage for each door.

VM8 BODY OPTIONS

Folding Steps

Innovative Controls dual lighted LED folding steps(4) shall be located officer side front of body. The folding steps shall meet current NFPA in step height and surface area.

Innovative Controls dual lighted LED folding step with LED lights integral to the step on the top to provide NFPA requirements of 2 fc (20 lx) on the stepping surface. Folding step shall also have a LED light integral to the bottom of the step to meet NFPA requirements of a stepping surface up to 18" below the step. The folding step shall

sustain a minimum static load of 500 lb. The folding step shall also meet NFPA slip resistance qualifications. Corrosion resistance shall be demonstrated by a 1000 hr salt spray test with no visible signs of deterioration of the step body or hardware.

One (1) hand rail shall be installed in compliance with current NFPA. The hand rail shall be constructed of 6063T5 1.25" OD anodized aluminum tube, with an integral ribbed surface to assure a good grip for personnel safety, mounted between chrome stanchions.

REAR RUBRAIL

The lowest edge of the rear tailboard will be trimmed with an extruded C-Channel aluminum extrusion rub rail not less than 3" high x 1.50" deep. Each end of each rail will be capped with a contoured black formed PVC end cap for safety matching the shape of the rub rail.

The inside flat surface will be designed to apply retro-reflective striping for added visibility and rear clearance lights.

The rub rail will be secured with stainless steel fasteners and spaced away from the apparatus body with .50 inch nylon spacers to help absorb moderate impacts and prevent the collection of water and debris for easier cleaning.

ROLL UP DOORS PAINTED

There will be a total of six (6) roll-up doors for compartments L-1, L-2, L3, R-1, R-2, R-3. Each compartment will have a non-locking ROM Series IV roll-up shutter door.

Each shutter slat, track, bottom rail, and drip rail will be constructed from anodized 6063 T6 aluminum. Shutter slats will feature a double wall extrusion with a concave interior surface to minimize loose equipment jamming the shutter door closed. Shutter slats will feature an interlocking end shoe to prevent side to side binding of the shutter door during operation. Slats must have interlocking joints with an inverted locking flange. Slat inner seal will be a one piece PVC extrusion; seal design will be such to prevent metal to metal contact while minimizing dirt and water from entering the compartment.

Shutter door track will be one piece design with integral overlapping flange to provide a clean finished look without the need of caulk. Door track will feature an extruded rubber double lip low profile side seal with a silicone co-extruded back to reduce friction during shutter operation.

Shutter bottom rail will be a one piece double wall extrusion with integrated finger pull. Finger pull will be curved upward with a linear striated surface to improve operator grip while operating the shutter door. Bottom rail will have a smooth contoured interior surface to prevent loose equipment from jamming the shutter door. Bottom rail seal will I be a double "V" seal to prevent water and debris from entering compartment. Bottom rail lift bar will be a one piece "D" shaped aluminum extrusion with linear striations to

improve operator grip during operation. Lift bar will have a wall thickness of 0.125 inches. Lift bar will be supported by no less than two pivot blocks; pivot blocks will be constructed from Type 66 Glass filled reinforced nylon for superior strength. Bottom rail end blocks will have incorporated drain holes which will allow any moisture that collects inside the extrusion to drain out.

Shutter door will have an enclosed counter balance system. Counter balance system will be 4.00 inches in diameter and held in place by 2 heavy duty 18 gauge zinc plated plates. Counter balance system will have 2 over-molded rubber guide wheels to provide a smooth transition from vertical track to counter balance system.

The compartment doors will have a painted finish, matching the main body color. The track shall be painted aluminum with a finishing flange incorporated to provide a finished look around the perimeter of the door without additional trim or caulking.

Each roll up door will have an integral door open indicator magnet in the lift bar.

If the door is not properly closed and the transmission is placed into drive or reverse mode with the parking brake released, it will activate the "hazard light" in the cab to alert the crew.

HARD SUCTION HOSE STORAGE

A compartment will be provided in the upper left side of the hosebed that will accommodate (2) lengths of 10-foot hard suction hoses.

HOSEBED DIVIDER ADDITIONAL [Qty: 3]

There shall be an additional hose bed divider provided the full fore-aft length of the hose bed.

The hose bed divider shall be constructed of 1/4" (0.25") smooth aluminum plate with an extruded aluminum base welded to the bottom. The rear end of the divider shall have a 3" radius comer to protect personnel. The divider shall be natural finish aluminum for long-lasting appearance and shall be sanded and de-burred to prevent damage to the hose.

The divider shall be adjustable from side to side in the hose bed to accommodate varying hose loads.

DUAL SCBA STORAGE (8)

Dual SCBA storage compartments shall be installed in the wheel well panels, two (2) each side, one (1) each ahead of and behind the rear wheels. Each compartment shall accommodate two (2) 8 inch diameter x 24 inch long spare SCBA bottles, for a total of eight (8) spare bottles.

The compartments will be vacuum formed PVC material with a drain hole at the bottom rear. A hinged stainless steel door will be provided over the opening with a thumb-release latch.

ADJUSTABLE SHELF [Qty: 2]

Compartment shelving (each) shall be provided as required by the customer. The shelving will be made out of .190 inch smooth aluminum sheet material with a formed 2.00 inch lip on the front and back.

Side mounting brackets will be provided for vertical adjustment.

SLIDE MASTER TRAY

A SlideMaster roll out tray (each) shall be floor mount in the compartment as specified by the customer.

Each tray will feature all-aluminum structural rails to prevent corrosion. The rails shall be rated at a minimum of 700 lbs. capacity. A push-pull lever will be provided to release the tray from lock in or lock out position using rotary latch. The aluminum tray shall have 70% extension. The tray shall be fabricated of minimum .125 inch thick aluminum sheet material with four (4) 3.00 inch side flanges, corner welded for maximum strength and will be as wide and as deep as compartment allows.

HOSEBED ALLOWANCE

Hosebed hose allowance: 1200 lbs.

EQUIPMENT ALLOWANCE

Equipment allowance: 3000 lbs.

P-RUBBER / FLEX JOINT

The area between the pump module and body shall include a rubber flex joint.

APPARATUS BODY

BODY MATERIAL TYPE

At a minimum, all formed substructure crossmembers and associated assemblies, exterior panels and compartments will be emergency vehicle industry standard 5052-H32 aluminum alloy. Softer alloys will not be acceptable in the construction processes, except where non-structural bright aluminum treadplate is utilized. The subframe shall be constructed of 3/16" (.188") aluminum plate with cross beams constructed of 1/4" (.25") aluminum plate across the wheel wells and front of the body. The body side panels and compartments shall be constructed of a minimum 1/8" (.125") aluminum plate.

FASTENERS

All fasteners utilized on the substructure crossmembers, associated assemblies and body compartment structures will be precision engineered Huck® fasteners.

Once installed, no matter how vibration-intensive the environment, these fasteners are engineered to never come loose. Huck bolts are to provide direct metal-to-metal contact when installed, to eliminate the transverse vibration often found in conventional nuts and bolts that have a tendency to loosen over time.

ANTI-CORROSION PROCESS

Absolutely no dissimilar metals will be used in the body and its supporting substructure without being separated by ECK®. This process is not required where the fastener is an aluminum Huck-bolt to aluminum components.

BODY FINITE ELEMENT ANALYSIS

The proposed body design must have completed a review and analysis. The analysis is to include real world working load scenarios. Analysis to cover both static and dynamic situations must be completed. The purpose of the finite element analysis is to ensure proper design of the apparatus body, and that it is capable of carrying the typical fire apparatus loads and those specified by NFPA for equipment. The analysis process must conclude that the body structure is properly designed and manufactured to provide longevity under normal conditions. Proof of having completed this testing must be immediately submitted, upon request, during the bid review process.

BODY MOUNTING SYSTEM

The entire body module assembly will be mounted above the chassis frame rails exclusively with not less than twelve (12) torsion isolator assemblies to reduce the vibration and stress providing an extremely durable body mounting system.

The body substructure will be mounted above the frame to allow independent flexing to occur between the body and the chassis. Each assembly will be mounted to the chassis frame rails with steel, gusseted mounting brackets. Each body mount bracket will be mounted to the side chassis frame flange with .625" (5/8") Grade 8 Geomet coated (anti-corrosion) bolts. Each mounting bracket will be bolted to the frame using not less than four (4) bolts.

There will be no welding to the chassis frame rail sides, web or flanges, or drilling of holes in the top or bottom frame flanges between axles. All body to chassis connections will be bolted so that in the event of an accident, the body will be easily removable from the truck chassis for repair or replacement.

Because of the constant vibration and twisting action that occurs in chassis frame rails and suspension, the torsion mounting system is required to minimize the possibility of premature body structural failures.

COMPARTMENT INTERIOR WALLS

All compartment interiors will be sanded smooth aluminum plate.

COMPARTMENT FLOORS

All body compartment floors will be sanded smooth aluminum plate and have a .75" (3/4") lip downward at the door opening side of the compartment. This lip will form a "sweep-out" compartment. The design will also allow for a complete door / weather seal across the bottom.

Each compartment will have the ability to drain and louvers ventilation adequate to provide air circulation.

EXTERIOR COMPARTMENT LOCATIONS AND CONFIGURATION

L-1 - Left Side Forward

There will be one (1) a compartment ahead of the rear wheels on the left side of the apparatus.

The approximate interior dimensions of this compartment will be not less than 51.5"W \times 70.5"H \times 26"D.

The approximate pass-thru opening will measure not less than 49"W x 60.5"H.

L-2 - Left Side Over Wheels

There will be a compartment above the rear wheels on the left side of the apparatus.

The approximate interior dimensions of this compartment will be not less than 63.75"W x 37.5"H x 26"D.

The approximate pass-thru opening will measure not less than 54.5"W x 27.5"H.

L-3 - Left Side Aft of Rear Wheels

There will be a compartment aft of the rear wheels on the left side of the apparatus.

The approximate interior dimensions of this compartment will be not less than 42"W x 70.5" x 26"D .

The approximate pass-thru opening will measure not less than 39.5"W x 60.5"H.

R-1 - Right Side Forward

There will be a compartment ahead of the rear wheels on the right side of the apparatus.

The approximate interior dimensions of this compartment will be not less than 51.5"W x 33"H x 26"D lower and 55.5"W x 37.50"H x 13.5"D upper.

The approximate pass-thru opening will measure not less than 49"W x 60.5"H.

R-2 - Right Side Over Wheels

There will be a compartment above the rear wheels on the right side of the apparatus.

The approximate interior dimensions of this compartment will be not less than 63.75"W x 37.5"H x 13.5"D.

The approximate pass-thru opening will measure not less than 54.5"W x 27.5"H.

R-3 - Right Side Aft of Rear Wheels

There will be a compartment aft of the rear wheels on the right side of the apparatus.

The approximate interior dimensions of this compartment will be not less than 42"W x 33"H x 26"D lower and 42"W x 37.5"H x 13.5"D upper.

The approximate pass-thru opening will measure not less than 39.5"W x 60.5"H.

B-1 - Rear of Body below Hosebed

There will be a compartment on the rear of the apparatus.

The approximate interior dimensions of this compartment will be not less than 43"W \times 61"H \times 26"D.

The approximate pass-thru opening will measure not less than 40.5"W x 51"H.

NOTE: All compartment depths must be measured from back of wall to inside closed door.

LADDER COMPARTMENT

Located on the right rear of the body will be a ground ladder compartment that measures approximately 29"H x 10.50"W (pass-thru). The bottom of the opening will not more than approximately 60" (+/- 2") from ground level.

The compartment will accommodate, at a minimum, the following:

- one (1) 14-ft roof ladder
- one (1) 24-ft two-section ladder
- one (1) 10-ft attic ladder
- two (2) 10-ft pike poles

HOSEBED

The hosebed will be full width of the body to provide storage for not less than 800' of 3" double jacketed and 1500-feet of 5" hose LDH.

The hosebed will be constructed of extruded aluminum slats with adequate spacing between slats to allow airflow and drainage. It will be capable of removal as a two-piece unit for tank service access.

CORNER TRIM - STAINLESS STEEL

The front and rear of the apparatus body vertical wall overlay will be integrated with a minimum .625" (5/8") satin finish stainless steel corner trim for edge protection. The vertical edge trim will extend from the top to bottom and will be attached with stainless steel fasteners.

REAR TAILBOARD

The tailboard will be an independent assembly bolted to the rear body structural framing to provide body protection and a solid rear stepping platform.

The rear tailboard and body will be constructed such that the angle of departure will be not less than 8 degrees at the rear of the apparatus when fully loaded (NFPA) 1901, Standard for Automotive Fire Apparatus.

The rear tailboard will be approximately not less than 9.5"D x full width of the body. The step surface will be formed bright treadplate aluminum with an embossed aggressive anti-slip pattern.

Three (3) LED rear body marker lights will be centered on the face of the step.

On the rear body surface, a sign will be attached that states: "DO NOT RIDE ON REAR STEP, DEATH OR SERIOUS INJURY MAY RESULT."

WHEEL WELLS

Wheel wells will have semicircular black polymer composite inner liners that are bolted to the wheel well panel. Each wheel well will be a continuous piece with no breaks or ledges where road grime or debris may accumulate. This liner will be removable for access to suspension assembly for repairs. There will be no exception to the bolted wheel well inner liner requirement.

COMPARTMENT UNISTRUT

Vertically mounted Unistrut will be installed in all apparatus body compartments to accommodate the installation of shelves, trays, and or other miscellaneous equipment.

SIDE RUB RAILS

The lowest edge of the apparatus body side compartments will be trimmed with an extruded C-Channel aluminum extrusion rub rail not less than 3"H x 1.5"D. Each end of each rail will be capped with a contoured black formed PVC end cap for safety matching the shape of the rub rail. The rub rails will not be constructed as an integral part of the apparatus body structure, allowing each rub rail to be easily removed in the event of damage.

The inside flat surface will be designed to apply retro-reflective striping for added visibility, clearance lights, auxiliary turn signal and NFPA 1901 Lower Zone warning lights.

The rub rails will be secured with stainless steel fasteners and spaced away from the apparatus body with .5" (1/2") nylon spacers to help absorb moderate side impacts and prevent the collection of water and debris for easier cleaning.

FOLDING STEPS

LED illuminated folding steps conforming to current NFPA requirements, will be provided and installed on the apparatus as specified below.

The steps will have a minimum of 46 sq. inches of surface area capable of sustaining a 1200 lb. static load. They will have a maximum 18" spread between each step.

HANDRAILS

Three (3) handrails will be installed on the rear of the apparatus. Each handrail will be of an adequate length, as available usable space allows, to provide a suitable gripping area for personnel.

Two (2) vertical handrails will be installed, one on each side, just below the hose bed sides. The remaining handrail will be installed horizontally, just below the hose bed area.

TOW EYES

There will be two rear tow eyes installed to the frame rails, one each side, accessible below the rear of the apparatus. They will be manufactured of 1" plate steel 5" wide with 2.5" round hole.

Each plate will be bolted to the chassis frame rail with minimum .625" (5/8") Grade 8 Geomet coated (anti-corrosion) bolts. All steel components will be painted black.

MUD FLAPS

Heavy-duty black rubber mud flaps will be provided behind the rear wheels. The mud flaps will be bolted in place.

MINIMUM REQUIRED LABELING

Where not required in other paragraphs contained in this document, the minimum required labeling otherwise will include the following:

CHASSIS REQUIRED LABELING

Signs that state "Occupants must be seated and belted when apparatus is in motion" will be provided.

They will be visible from each seating position.

There will be a lubrication plate mounted inside the cab listing the type and grade of lubrication used in the following areas on the apparatus and chassis:

- Engine oil
- Engine Coolant
- Transmission Fluid
- Pump Transmission Lubrication Fluid
- Drive Axle Lubrication Fluid
- Generator Lubrication Fluid (where applicable)
- Tire Pressures

APPARATUS INFORMATION LABEL

There will be a high-visibility label installed in a location clearly detectable to the driver while in the seated position.

The label will indicate the following specified information:

- Overall Height (feet and inches)
- · Overall Length (feet and inches)
- Overall GVWR (tons or metric tons)

WATER TANK

TANK CAPACITY

A water tank will be installed with a minimum capacity of 1000 US gallons.

TANK CONSTRUCTION

The booster tank will be constructed of .50 inch thick Polyprene sheet stock which is a non-corrosive stress relieved thermoplastic. It will be designed to be completely independent of the body and compartments. All joints and seams are extrusion welded and/or contain the "Bent Edge" and tested for maximum strength and integrity. The top of the booster tank is fitted with lifting eyes designed with a 3 to 1 safety factor to facilitate tank removal.

The tank will feature a 0.5" recess for a drain / cleanout.

COVER

The tank cover will be constructed of .50 inch thick Polyprene and will be recessed. A minimum of two lifting dowels will be drilled and tapped .50 inch x 2.00 inch to accommodate the lifting eyes.

BAFFLES

The swash partitions will be manufactured from .50 inch Polyprene. All partitions will be equipped with vent and air holes to permit movement of air and water between compartments to provide maximum water flow. All swash partitions interlock and are welded to one another as well as to the walls of the tank.

MOUNTING

The tank will be isolated from the body substructure cross members with .50 inch x 2.50 inch rubber strips that are 60 durometer in hardness. The tank will sit nested inside the center body substructure and will be completely removable without disturbing the body side panels. Tank stops on all four sides will keep the tank from shifting front to back or side to side.

FILL TOWER

The fill tower opening will be approximately 13.00 inches x 12.00 inches.

The tower will have a .25 inch thick removable Polyprene screen and a Polyprene hinged type cover that will open if the tank is filled at an excess rate. There will be a removable .25 inch (6.40 mm) thick Polyprene screen to prevent debris from falling into the tank.

The fill tower will have a 4.00 inch overflow that will discharge underneath the tank, behind the rear axle(s), avoiding the chassis fuel tank and suspension components where applicable. The overflow will terminate above the tank water level when filled to the rated capacity.

The fill tower will be located to the left side at the front of the hose bed

OUTLETS

An outlet shall be provided for the tank fill valve. If there are any additional options selected (such as an extra tank suction or direct tank inlets), there will be additional outlets provided to accommodate these items.

SATIN ROLL UP DOOR - B1

There will be a roll-up door for compartment B-1. The compartment will have a nonlocking ROM Series IV roll-up shutter door.

Each shutter slat, track, bottom rail, and drip rail will be constructed from anodized 6063 T6 aluminum. Shutter slats will feature a double wall extrusion with a concave interior surface to minimize loose equipment jamming the shutter door closed. Shutter slats will feature an interlocking end shoe to prevent side to side binding of the shutter door during operation. Slats must have interlocking joints with an inverted locking flange. Slat inner seal will be a one piece PVC extrusion; seal design will be such to prevent metal to metal contact while minimizing dirt and water from entering the compartment.

Shutter door track will be one piece design with integral overlapping flange to provide a clean finished look without the need of caulk. Door track will feature an extruded rubber double lip low profile side seal with a silicone co-extruded back to reduce friction during shutter operation.

Shutter bottom rail will be a one piece double wall extrusion with integrated finger pull. Finger pull will be curved upward with a linear striated surface to improve operator grip while operating the shutter door. Bottom rail will have a smooth contoured interior surface to prevent loose equipment from jamming the shutter door. Bottom rail seal will I be a double "V" seal to prevent water and debris from entering compartment. Bottom rail lift bar will be a one piece "D" shaped aluminum extrusion with linear striations to improve operator grip during operation. Lift bar will have a wall thickness of 0.125 inches. Lift bar will be supported by no less than two pivot blocks; pivot blocks will be constructed from Type 66 Glass filled reinforced nylon for superior strength. Bottom rail end blocks will have incorporated drain holes which will allow any moisture that collects inside the extrusion to drain out.

Shutter door will have an enclosed counter balance system. Counter balance system will be 4.00 inches in diameter and held in place by 2 heavy duty 18 gauge zinc plated plates. Counter balance system will have 2 over-molded rubber guide wheels to provide a smooth transition from vertical track to counter balance system.

The compartment door will have a satin aluminum finish.

The roll up door will have an integral door open indicator magnet in the lift bar.

If the door is not properly closed and the transmission is placed into drive or reverse mode with the parking brake released, it will activate the "hazard light" in the cab to alert the crew.

Brushed stainless steel sill plates will be installed at the bottom of each body compartment door opening.

HOSEBED DIVIDER

There will be a full height adjustable divider provided and installed in the hosebed area of the apparatus body.

The divider will be fabricated of .25 inch thick aluminum plate and attached to the adjustable slide rails. The rear of the divider will have a radius to provide a smooth comer.

Hose payout will be unobstructed by the divider.

Tool Board

A pegboard style aluminum pull-out tool board will be installed in the left side rear compartment. The tool board will be attached to Unistrut material mounted on the floor and ceiling of the compartment, extending perpendicular to the rear wall, allowing for horizontal adjustment from compartment wall to partition.

The tool board shall be located offset to front of the compartment.

The tool board will be mounted utilizing an Austin Hardware slide with locking device at the bottom to keep the board in the stored and extended positions.

A .190 inch aluminum partition will be installed 25" off the forward compartment wall.

HOSEBED / CROSSLAY COVERS

HOSEBED

The hosebed area will have a vinyl cover installed on the top and rear of the hosebed area.

The top cover will be held in place by an extrusion installed across the front edge of the hosebed and Velcro along the left and right edges. The top rear of the hosebed cover will be secured each side by a footman's loop and buckles allowing for the cover to be pulled tight on each side. Additional footman's loops will be provided each side at the lower corners at the floor of the hosebed to secure the cover to the apparatus.

The full cover will have a flap with Velcro closure providing access to each fill tower without necessitating removal of entire hosebed cover.

CROSSLAY

The crosslay hose bed area will have a vinyl cover installed on the top and each side of the crosslay area.

The top cover will be held in place with velcro. The sides of the crosslay cover will be secured by means of two footman's loops and buckles, each side. The footman's loops will be installed at the lower corners to secure the cover to the apparatus.

The hosebed and crosslay covers will be Black color.

LADDER BRAND

The ladder brand capable of being carried on the unit shall be Duo-Safety

Stainless Fenderette

FENDERETTES

Two (2) polished stainless steel fenderettes will be provided and installed on body rear wheel well openings, one (1) each side. Rubber welting will be provided between the body and the crown to seal the seam and restrict moisture from entering.

VM8 PUMP MODULE OPTIONS

Auxiliary Air Tank Plumbing

The auxiliary air tank shall be plumbed to air primer.

Running Board Tray Securing Strap [Qty: 2]

A heavy duty black nylon strap with an stainless steel quick-release buckle shall be provided for the running board hose tray(s). The strap shall be attached to the inboard side of the tray as low as practical to allow cinching of strap for securing tray contents and shall not reduce the overall tray capacity.

FRONT BUMPER DISCHARGE OUTLET

One (1) 1.50" front bumper discharge and center bumper tray shall be provided. The center tray shall be provided with a cover matching the hosebed and crosslay cover. The discharge outlet will be provided and installed in the lower back wall of the hose tray.

The front bumper discharge includes 2" valve controlled at the pump panel The brass swivel shall be located in the lower back wall of the hose tray.

BOOSTER REEL

A Hannay booster reel shall be provided and floor mounted in the rear body compartment (B1). The booster reel shall be controlled at the pump panel and shall include an air blow out.

The booster reel shall be constructed utilizing an all aluminum welded base. Reel bushings shall be manufactured from Nylatron to ensure maintenance-free operation. A 12 volt electrical motor shall be provided and will rewind the reel with a chain and sprocket drive mechanism. All electrical switch connections shall be coated to protect against moisture. The booster reel shall have a capacity for up to 200° of 1" booster hose.

Plumbing to the reel shall be a 1-1/2" flexible line with the discharge control located at the operator's control panel.

All fabricated piping shall be constructed of a minimum of Schedule 10 stainless steel pipe to reduce corrosion of the lines.

RIGHT SIDE INTAKE

There will be one (1) gated 2.50 inch gated suction inlet installed on the right side pump panel. The right side intake shall be controlled at the intake.

FOAM CELL KIT

FOAM CELL KIT

Integrated into the water tank will be a minimum 30 US gallon foam cell. It will have a fill tower matching the water tank fill tower and include foam connections on the front of the tank. Both fill towers will be clearly identified as "WATER" and "FOAM."

REAR TANK INLET

A 2.50 inch rear tank inlet with inboard automatic check valve will be installed on the upper right rear of the tank. A colored LED tank level gauge shall be provided at the rear of the tank.

SPEEDLAY PRECONNECTS

PRE-CONNECT STORAGE

Two (2) transverse storage areas shall be encorporated into the module to accommodate preconnected handlines. Plumbing for the handlines shall be located at the upper back wall of the storage area to facilitate use of optional removable trays.

SPEEDLAYS

Each speed lay section shall include one (1) 2" brass swivel with a 1-1/2" hose connection to permit the use of the hose from either side of the apparatus. Each of the two (2) speedlay areas shall have a capacity for up to 200' of 2.0" double-jacket fire hose double stacked. The floor and side walls shall be constructed of 3/16" (.188) smooth aluminum plate. The floor shall be slotted to prevent the accumulation of water and allow for ventilation of wet hose.

Each speedlay hose bed shall consist of a 2" heavy-duty hose coming from the pump discharge manifold to the 2" swivel for each hosebed. The hose shall be connected to a manually operated 2" Akron valve. The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve control shall be located at the pump operator's panel and shall visually indicate the position of the valve at all times.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

TOP MOUNT PUMP MODULE

The complete apparatus pump compartment will be constructed of a combination of structural tubing and formed sheet metal. The same materials used in the body will be utilized in the construction of the pump compartment. The structure will be welded utilizing the same A.W.S. Certified welding procedure as used on the structural body module. These processes will ensure the quality of structural stability of the pump compartment module.

The pump compartment module will be separated from the apparatus body with a gap. This gap is necessary to accommodate the flexing of the chassis frame rails that are encountered while the vehicle is in transit so that harmful torsional forces are not transmitted into the structural framework.

FLEX PUMP MODULE MOUNTING SYSTEM

The entire pump module assembly will be mounted above the chassis frame rails exclusively with not less than four (4) torsion isolator assemblies to reduce the vibration and stress providing an extremely durable body mounting system.

The pump module substructure will be mounted above the frame to allow independent flexing to occur between the body and the chassis. Each assembly will be mounted to the chassis frame rails with steel, gusseted mounting brackets. Each body mount bracket will be mounted to the side chassis frame flange with 5/8" Grade 8 Geomet coated (anti-corrosion) bolts. Each mounting bracket will be bolted to the frame using not less than four (4) bolts.

There will be no welding to the chassis frame rail sides, web or flanges, or drilling of holes in the top or bottom frame flanges between axles. All pump module to chassis connections will be bolted so that in the event of an accident, the module will be easily removable from the truck chassis for repair or replacement.

Because of the constant vibration and twisting action that occurs in chassis frame rails and suspension, the torsion mounting system is required to minimize the possibility of premature pump module structural failures.

Top Mounted Pump Control Area

The upper area of the module shall be configured for a top mount pump operator's panel. The upper side walls of the module shall be notched rearward and tapered for improved operator visibility.

Crosswalk

An extruded aluminum crosswalk shall be provided at the front of the pump module. The crosswalk shall be integral to the pump module and be constructed entirely of aluminum extrusions. The crosswalk walkway shall be in accordance with NFPA in both step height and stepping surface. The crosswalk walkway floor shall be formed from .188" aluminum treadplate. The walkway floor shall be bolted on to the module and be easily removable to service chassis components or for replacement in the case of damage.

The crosswalk entry shall include two (2) 5" wide formed diamond plate steps located one (1) on each side offset forward and two (2) handrails, a minimum 24" long, located one (1) on each side mounted vertically on the forward extrusion of the pump module.

PUMP COMPARTMENT WIDTH

The width of the pump module will be not exceed 34.00 inches.

AIR CHUCK OUTLET

There will be a quick disconnect air chuck outlet provided and installed on the apparatus at the left side lower pump compartment panel/sill. The air chuck outlet will be plumbed to the chassis air system and have on/off valve and label.

LEFT & RIGHT SIDE PUMP PANELS STYLE

There will be two (2) pump panels on each side of the pump compartment, one (1) upper and one (1) lower. Each panel will be accessible by a quick-release mechanical type latch, closing against a door seal. Both panels will be easily removed for access to the pump for service.

The panels for the pump compartment on the left and right side will be made from minimum 14 gauge 304 stainless steel capable of withstanding the conditions and effects of extreme weather and temperature changes.

RUNNING BOARDS

The pump compartment running boards will be made of a structural tubular framework. They will be not less than 12 inches deep. The tubular frame support all loads by transmitting the loads through the pump compartment structure directly to the chassis frame rails.

The running boards will be independent of the apparatus body and will be integrated to the pump compartment structure only, eliminating any pump compartment to body interference. This is essential in keeping a truly 'modular' configuration. Slip-resistant abrasive adhesive materials will be applied to the top surface of the running board framework to provide a suitable stepping surface where applicable.

They will have a .188 inch embossed (no exceptions) aluminum diamond plate overlays installed.

PLUMBING SYSTEM - QMAX XS 1500 GPM

MIDSHIP PUMP

The pump will be a Hale single stage QMAX-XS mid-ship pump. The pump will have the capacity of 1500 gallons per minute, measured in U.S. Gallons.

PUMP ASSEMBLY

The entire pump will be assembled and tested at the pump manufacturer's factory. The pump will be driven by a drive line from the truck transmission. The engine will provide sufficient horsepower and RPM to enable pump to meet and exceed its rated performance.

The entire pump will be hydrostatically tested to a pressure of 600 PSI. The pump will be fully tested at the pump manufacturer's factory to the performance spots as outlined by (NFPA) 1901, Standard for Automotive Fire Apparatus. Pump will be free from objectionable pulsation and vibration.

The pump body and related parts will be of fine grain alloy cast iron, with a minimum tensile strength of 30,000 PSI (2069 bar). All metal moving parts in contact with water will be of high quality bronze or stainless steel. Pump utilizing castings made of lower tensile strength cast iron not acceptable.

Pump body will be vertically split, on a single plane for easy removal of entire impeller assembly including clearance rings.

Pump shaft to be rigidly supported by two bearings for minimum deflection. The bearings will be heavy-duty, deep groove ball bearings in the gearbox and they will be splash lubricated. Shaft seal comes standard with face-type, self-adjusting corrosionand wear-resistant mechanical seals.

The pump impeller will be hard, fine grain bronze of the mixed flow design; accurately machines, hand-ground and individually balanced. The vanes of the impeller intake eye will be hand ground and polished to a sharp edge and be of sufficient size and design to provide ample reserve capacity utilizing minimum horsepower.

Impeller clearance rings will be bronze, easily renewable without replacing impeller or pump volute body.

The pump shaft will be heat-treated, electric furnace, corrosion resistant stainless steel. Pump shaft must be sealed with double-lip oil seal to keep road dirt and water out of gearbox.

GEAR BOX

Pump gearbox will be of sufficient size to withstand up to 16,000 lbs. ft. of torque of the engine. The drive unit will be designed of ample capacity for lubrication reserve and to maintain the proper operating temperature.

The gearbox drive shafts will be of heat-treated chrome nickel steel and at least 2.75 inches in diameter, on both the input and output drive shafts. They will withstand the full torque of the engine.

All gears, drive and pump, will be of highest quality electric furnace chrome nickel steel. Bores will be ground to size and teeth integrated and hardened, to give an extremely accurate gear for long life, smooth, quiet running, and higher load carrying capability. An accurately cut spur design will be provided to eliminate all possible end thrust.

The pump ratio will be selected by the apparatus manufacturer to give maximum performance with the engine and transmission selected.

If the gearbox is equipped with a power shift, the shifting mechanism will be a heat treated, hard anodized aluminum power cylinder, with stainless steel shaft. An in-cab control for rapid shift will be provided that locks in road or pump.

For automatic transmissions, three green warning lights will be provided to indicate to the operator(s) when the pump has completed the shift from Road to Pump position. Two green lights to be located in the truck driving compartment and one green light on pump operator's panel adjacent to the throttle control. For manual transmissions, one green warning light will be provided for the driving compartment. All lights to have appropriate identification/instruction plates.

APPARATUS PLUMBING LABELING

Verbiage tag bezels will be installed for each control. The bezel assemblies will be used to identify apparatus components. These tags will be designed and manufactured to withstand the specified apparatus service environment and will be backed by a warranty equal to that of the exterior paint and finish. The verbiage tag bezel assemblies will include a chrome-plated panel-mount bezel with durable easy-to-read UV resistant polycarbonate inserts featuring the specified verbiage and color coding.

These UV resistant polycarbonate verbiage and color inserts will be subsurface screen printed to eliminate the possibility of wear and protect the inks from fading. Both the insert labels and bezel will be backed with 3M permanent adhesive, which meets UL969 and NFPA standards.

PRESSURE GOVERNOR AND MONITORING DISPLAY

The pump shall be controlled by a Class 1, "TPG" Total Pressure Governor installed on the pump operator's panel. It shall be interfaced with a SAE J1939 Controller Area Network (CAN) device that controls engine speed using data communications directly to the engine ECU or with an analog control signal. Operating on the J1939 network, the governor is able to monitor engine RPM and other pertinent data directly from the engine ECU. Control algorithms shall be optimized to take advantage of the J1939 CAN data to yield crisp and accurate control of engine and subsequently pump speed and pressure output. Graphic diagnostics shall be integrated that provides wiring and troubleshooting information.

It shall control the engine fuel to maintain a desired pump pressure, or engine speed setting. Additionally the TPG will display important engine information specifically battery voltage, engine coolant temperature, oil pressure and RPM.

Features:

- A panel control module (display), a pressure transducer and appropriate cables and connectors.
- Large easy to read Alpha/numeric display.
- Sealed electronics which provide maximum resistance to water, condensation, and humidity.
- A panel display which consolidates throttle with preselect and high idle features in a single 4-1/2" weather resistant housing.
- Communicates with the engine ECU over the J1939 CAN bus for improved accuracy resolution and response. When in the "pressure" mode the TPG will operate as a pressure sensor (regulating) governor (PSG) eliminating any need for a relief valve on the discharge side of the pump. This feature will be set to operate at 100 psi unless specifically requested by the customer to use another pressure. This setting can be changed by the department.

The following parameters shall be visible at all times:

- Pump Intake Pressure
- Pump Discharge Pressure
- Engine RPM
- Engine Oil Pressure
- Engine Coolant Temperature
- Transmission Temperature
- System Voltage
- Throttle Ready Interlock Status
- Pump Engaged Interlock Status
- OKAY to Pump Interlock Status

- Operating Mode Status (RPM or Pressure)
- Target Pressure Indication (when in pressure mode)

TESTING PORTS

Test port connections for pressure and vacuum will be provided at the pump operator's panel. One (1) will be connected to the intake side of the pump, and the other to the discharge manifold side of the pump.

Each port will have 0.25 inch (6.35 mm) standard pipe thread connection and be manufactured of non-corrosive polished stainless steel or brass plugs.

PRESSURE RELIEF VALVE

A pressure relief valve will be provided. The valve will have an easy to read adjustment range from 90 to 300 PSI with 90, 125, 150, 200, 250 and 300 PSI adjustment settings and an "OFF" position. Pressure adjustments will be made utilizing a 1/4" hex key, 9/16" socket or 14mm socket.

For corrosion resistance the cast aluminum valve will be a hardcoat anodized with a powder coat interior and exterior finish. The valve will meet (NFPA) 1901, Standard for Automotive Fire Apparatus, requirements for pump inlet relief valves. The unit will be covered by a five year warranty. The valve will be preset at 125 PSI (860 kPa) suction inlet pressure, unless otherwise shop noted. The valve will be installed inside the pump compartment where it will be easily accessible for future adjustment. The excess water will be plumbed to the atmosphere and will dump on the opposite side of the pump operator.

For normal pumping operations, the relief valve will not be capped and there will be a placard stating "DO NOT CAP" installed.

TANK LEVEL GAUGE

There will be a Class 1 model #ITL-40M blue tank level gauge provided and installed at the pump operator's panel location.

The tank level gauge will indicate the liquid level for water in increments of 1/20th of a tank with a visual warning at 1/4 of a tank.

The tank level gauge will include a pressure transducer mounted on the outside of the tank, a super bright LED display with visual indication and weather resistant connectors.

PUMP COMPARTMENT WORK LIGHT

A LED work light will be installed in the pump compartment module to illuminate the piping and plumbing components.

The light will be activated by a weather resistant toggle switch installed inside the pump compartment.

MASTER DRAIN VALVE

A Trident manifold type drain valve will be installed in the pump compartment. All pump drains will be connected to the master drain valve. The drain valve will be controlled from the left side lower pump house sill. The control will be a hand wheel knob marked "open" and "closed".

The drain will be located such that it will not interfere with pumping operations or function such as soft suction hoses, etc. nor will it protrude past the outer edge of the apparatus, to prevent damage to the valve.

In some cases, it is necessary to locate the master drain in a secondary location to ensure proper draining. If no lower or vertical sill exists, the drain will be located below the bottom outside edge of the hose body near the forward most corner on the driver's side hose body. The drain will not protrude past the outer edge of the body, thus preventing damage to the valve.

PUMP SEAL

A mechanical, or packing style seal will be supplied on the inboard side.

PUMP SHIFT

The drive unit will be provided with an air pump shift system.

A green light will be energized when the pump shift has been completed and will be labeled "PUMP ENGAGED"; a second green light will be labeled "OK TO PUMP" energized when both the pump shift has been completed and the chassis automatic transmission is engaged.

A third green indicator light will be installed adjacent to the throttle on the pump operator's panel. This light will be labeled "Throttle Ready".

PUMP SHIFT LOCATION

The pump shift will be mounted in the "best fit" location as determined by the apparatus manufacture.

PUMP ANODE

One (1) pump anode will be installed on the suction side of the pumping system to prevent damage from galvanic corrosion within the pump system.

DISCHARGE AND INLET MANIFOLDS

A 6.00 inch pump manifold inlet will be provided on each side of the pump. The inlets will protrude up to 2 inches (50mm) away from the side panels and maintain a low connection height. A discharge manifold will also be added to the pressure side of the pump to feed the specified discharge waterways.

The main pump inlets will have National Standard Threads and include removable screens designed to provide cathodic protection for reducing deterioration in the pump.

MAIN PUMP INLET - LEFT SIDE

A 6.00 inch pump manifold inlet will be provided on the left side of the pump. The inlet will protrude up to 2.00 inches away from the side panel and maintain a low connection height.

The main pump inlet will have National Standard Threads and includes a removable screen designed to provide cathodic protection for reducing deterioration in the pump.

MAIN PUMP INLET - RIGHT SIDE

A 6.00 inch pump manifold inlet will be provided on the right side of the pump. The inlet will protrude up to 2.00 inches away from the side panel and maintain a low connection height.

The main pump inlet will have National Standard Threads and includes a removable screen designed to provide cathodic protection for reducing deterioration in the pump.

6" CHROME PLATED BRONZE CAP

There will be one (1) 6.00 inch long handled chrome plated cap installed on each Steamer Inlet.

STAINLESS STEEL PLUMBING

All auxiliary suction and discharge plumbing related fittings, and manifolds will be fabricated with 3.00 inch (77 mm) schedule 10 stainless steel pipe; brass or high pressure flexible piping with stainless steel couplings. Galvanized components and/or iron pipe will NOT be accepted to ensure long life of the plumbing system without corrosion or deterioration of the waterway system. Where waterway transitions are critical (elbows, tees, etc.), no threaded fittings will be allowed to promote the smooth transition of water flow to minimize friction loss and turbulence. All piping components and valves will be non-painted, unless otherwise specified. All piping welds will be wire brushed and cleaned for inspection and appearance.

The high pressure flexible piping will be black SBR synthetic rubber hose with 300 PSI working pressure and 1200 PSI burst pressure for flexible piping sizes 1.50 inches (38 mm) through 4.00 inches (100 mm). Sizes .75 inch (19 mm), 1.00 inch (25 mm) and

5.00 inches (125 mm) are rated at 250 PSI working pressure and 1000 PSI burst pressure. All sizes are rated at 30 in HG vacuum. Reinforcement consists of two plies of high tensile strength tire cord for all sizes and helix wire installed in sizes 1.00 inch (25 mm) through 5.00 inches (125 mm) for maximum performance in tight bend applications. The material has a temperature rating of -40 degrees Fahrenheit to +210 degrees Fahrenheit.

The stainless steel full flow couplings are precision machined from high tensile strength stainless steel. All female couplings are brass. Mechanical grooved and male .75 inch (19 mm) and 1.00 inch (25 mm) couplings are brass. A high tensile strength stainless steel ferrule with serrations on the I.D. is utilized to assure maximum holding power when fastening couplings to hose.

PUMP HOUSE LINE PROTECTION

All drain lines for the discharges, suctions, ABS discharge gauge lines and any other appropriate connections in the pump house area will have a protective cover provided on the lines in the required areas of the lines to prevent the lines from rubbing on any other components in the pump house area.

All drain lines, ABS lines, high pressure discharge lines and electrical wiring in the pump house area will be properly and neatly routed, wire tied and rubber coated "P" clamped, to keep the items secured.

DRAIN VALVES

An Innovative Controls 3/4" quarter turn drain valve will be included on each discharge, gated intake, and steamer valve (if applicable). A side stem, long stroke chrome plated lift handle will be provided on the drain valve to facilitate use with a gloved hand. The drain valve will have an ergonomically designed handle with a recessed verbiage tag area easily read by the operator before opening.

The drain valve will be connected to the valve with a flexible hose that is routed in such a manner as to assure complete drainage to below the apparatus.

VALVE CONTROL - T-HANDLE PULL ASSEMBLY

Unless specified otherwise, the discharge valves will be controlled from an Innovative Controls side mount valve control assembly. The ergonomically designed handle will be chrome-plated with recessed areas for name plate and color code. A .75 inch (19.5 mm) diameter hardcoat anodized aluminum control rod and housing will, together with a stainless spring steel locking mechanism, eliminate valve drift. Teflon impregnated bronze bushings in both ends of the rod housing will minimize rod deflection, never need lubrication, and ensure consistent long-term operation. The control assembly will include a decorative chrome-plated panel-mounting bezel. The valve operating mechanism will indicate the position of the valve at all times.

AUXILIARY LEFT SIDE INLET

There will be one (1) auxiliary gated suction inlet with .75 inch bleeder installed on the left side pump panel.

INTAKE VALVE

A 2.50 inch Akron Brass 8000 series swing-out valve with stainless steel ball.

The intake control valve will be a 'swing out type' direct operation manual lever actuator at the valve.

INTAKE PLUMBING

The plumbing will consist of 2.50 inch piping, and will incorporate a manual drain control installed below the pump area for ease of access.

SUCTION/INTAKE TERMINATION

The termination will include the following components:

One (1) 2.50 inch NST swivel female straight adapter with screen

One (1) 2.50 inch self-venting plug, secured by a chain

The inlet will be located on the pump panel.

DECK GUN MONITOR WATERWAY

There shall be one (1) deck gun monitor waterway installed on the apparatus.

The deluge waterway shall consist of 3.00 inch piping and shall be drained with an auto-drain located at the lowest point of the waterway plumbing if required.

There shall be an air "blowout" system provided and installed for the front bumper discharge drainage.

The air blow out system shall be connected to the chassis air brake system. A check valve shall be provided between the chassis system and the front bumper discharge blow out system. There shall be a manual control valve provided on the pump operator's panel for the air blow out system.

LEFT SIDE DISCHARGE

There will be two (2) 2.50 inch gated discharges installed on the left side of the apparatus.

RIGHT SIDE DISCHARGE

There will be one (1) 2.50 and one (1) 3.00 inch gated discharges installed on the right side of the apparatus.

REAR DISCHARGE

A 2.50 inch discharge will terminate on the upper rear body below the hosebed.

DISCHARGE GAUGES

A 2.50 inch gauge will be supplied for reading the pressure of each discharge greater than 1.50 inches in diameter, unless otherwise specified.

MASTER GAUGES

A 4.50 inch Master Vacuum and Master Pressure gauge will be provided and installed on a panel to the right of the crosslays (side mount) OR centered on the pump panel (top mount).

GAUGE SCALE

Each gauge will be marked for reading a pressure range of 0-400 PSI.

GAUGE FACE COLOR

Each gauge will have black markings on a white face.

BEZELS FOR 2.5" DISCHARGE GAUGES

There will be a Deluxe metal bezel supplied around each of the 2.50 inch discharge pressure gauges. The bezels will be constructed from chrome-plated zinc with large, easily identifiable recessed labels for color-coding and verbiage.

TANK TO PUMP LINE

The connection between the tank and the pump will be capable of the flow recommendations as set forth in (NFPA) 1901, Standard for Automotive Fire Apparatus, latest revision and will be tested to those standards when the pump is being certified.

One (1) non-collapsible flexible hose and valve will be incorporated into the tank to pump plumbing to allow movement in the line as the chassis flexes to avoid damage during normal road operation. Four (4) inch stainless steel schedule 10 piping will be used to complete the connection from the tank to pump valve to the water tank.

TANK TO PUMP CHECK VALVE

There will be a tank to pump check valve, conforming to NFPA standard requirements to prevent water from back flowing at an excessive rate if the pump is being supplied from a pressurized source. The check valve will be mounted as an integral part of the pump suction extension. A hole up to .25 inch is allowable in the check valve to release steam or other pressure buildup so that the void between the valve and check valve may drain of water that could be subject to freezing.

TANK FILL LINE

One (1) 2.00 inch tank fill/recirculating line will be installed from the pump directly to the booster tank.

A 3.00 inch Akron Brass 8000 series swing-out valve with a stainless steel ball.

The valve will be controlled from the pump operator's panel location.

PUMP PANEL LIGHTS

There will be adequate illumination provided at the side pump panels with the installation of shielded LED light assemblies, one (1) on the left and one (1) on the right side pump compartment.

The lights will be controlled by a switch located on the side operator's panel.

RUNNING BOARD SUCTION TRAYS - EACH SIDE

A running board suction hose tray approximately 10" D (9" to the slats) x maximum width available of the pump module shall be provided in the left and right side running board.

The tray shall be recessed mounted and constructed of 1/8" (.125) aluminum diamond plate (exterior) with a smoother surface interior. The tray shall be designed to store a minimum 15` length of soft suction hose. The bottom of the tray shall have removable turtle tile and drain holes to allow water drainage from hose stored in the tray.

Trident Primer

A Trident air operated priming system shall be installed in place of standard primer. The unit shall be of all brass and stainless steel construction and designed for fire pumps of 1,250 GPM (4,600 LPM) or more. Due to corrosion exposure no aluminum or vanes shall be used in the primer design. The primer shall be three-barrel design with 3/4" NPT connection to the fire pump.

The primer shall be mounted above the pump impeller so that the priming line will automatically drain back to the pump. The primer shall also automatically drain when the panel control actuator is not in operation. The inlet side of the primer shall include

a brass "wye" type strainer with removable stainless steel fine mesh strainer to prevent entry of debris into the primer body.

The system shall create vacuum by using air from the chassis air brake system through a two-barrel multi-stage internal "venturi nozzles" within the primer body. The noise level during operation of the primer shall not exceed 75 Db.

Air Flow Requirements

The primer shall require a minimum of 15.6 cubic foot per minute air compressor and shall be capable of meeting drafting requirements at high idle engine speed. The air supply shall be from a chassis supplied "protected" air storage tank with a pressure protection valve. The air supply line shall have a pressure protection valve set between 70 to 80 PSIG.

Primer Control

The primer control shall have a manually operated, panel mounted "push to prime" air valve. The valve shall direct air pressure from the air brake storage tank to the primer body. To prevent freezing, no water shall flow to and from the panel control.

Warranty

The primer shall be covered by a five (5) year parts warranty.

Discharge 2.5" addtional

An additional 2.5" discharge valve and pump panel controls shall be provided for use for dealer installed additional discharge option. The discharge valve shall be located ahead of the foam manifold and is not foam capable.

PUMP OPTIONS

Pump Shift - Electric

The pump shift shall be accomplished by activation of a single "ROAD/PUMP" switch in the cab.

A indicator light shall be located in the cab visible to the driver and be labeled "PUMP ENGAGED". The light shall not activate until the pump shift has completed its full travel into pump engagement position.

A second indicator light shall be located in the cab visible to the driver and be labeled "OK TO PUMP".

VM8 WARNING LIGHTS

WHELEN LIGHT BAR

A Whelen F4N2VLED 55" light bar shall be provided. The light bar will be mount on brackets foreward facing above the cab roof.

The light bar shall meet the requirements for Upper Zone A.

REAR DIRECTION LIGHTBAR

There will be a Whelen model #TAL65 36.00 inch long directional lightbar with six (6) amber 500 series LED light heads provided and installed on the rear of the apparatus. The traffic advisor will include model TACTL5 control head that includes remote flash control.

The rear directional lightbar will be installed as high as possible at the rear of the apparatus.

The rear directional lightbar control head shall be located at the center console in the cab.

WHELEN WARNING LIGHTS

Whelen 900 series Super-LED lights (model 90RR5FCR) with chrome bezels shall be installed on the upper left and right body; one each fore and aft for a total of four (4).

EMERGENCY WARNING SYSTEM

Upper Zone B&D:

There will be a red Whelen 900 series Super-LED lights (model 90RR5FCR) with chrome bezels and clear lenses installed on the upper left and right rear body for a total of two (2).

Upper Zone C:

There will be two (2) red Whelen 900 series Super-LED lights (model 90RR5FCR) with chrome bezels and clear lenses installed on the upper left and right rear body.

Lower Zone A:

There will be two (2) red Whelen 600 series Super-LED lights (model 60R02FCR) with chrome bezels and clear lenses installed and installed on the grille of the apparatus chassis.

Lower Zone B&D:

There will be four (4) red Whelen ION-TLIR Super-LED lights with chrome bezels and clear lenses installed in the lower rubrails: two (2) each side forward and two (2) each side aft.

Lower Zone C:

There will be two (2) red Whelen 600 series Super-LED lights (model 60R02FCR) with chrome bezels and clear lenses installed in the lower section of the taillight assembly.

Siren Control Head

One (1) Whelen electronic siren, model #295SLSA1 will be provided and mounted in the top of the cab console.

The siren will be 100-200 watts and feature wail, yelp, phaser, air horn and manual wail. The microphone will have noise canceling circuitry and Public Address override.

The siren and hard wired microphone will be installed within reach of the driver and officer.

Siren Speaker

A Federal Signal model ES100 100 watt siren speaker will be provided, located on the front bumper face on the left side outboard of the frame rail in the far outboard position.

Back Up Alarm

An electronic back-up alarm will be supplied. The 97 dB alarm will be wired into the chassis back-up lights to signal when the vehicle is in reverse gear.

Rear View Camera

There will be a shielded camera mounted up high at the rear of the vehicle to provide a wide angle rear view.

The camera image shall be shown in a color display mounted on the cab console.

The camera will be interlocked with the chassis transmission. When the apparatus is placed in reverse the camera will automatically be activated and when the transmission is placed in any other gear the screen will return to the previously displayed screen.

VM8 12V ELECTRICAL

COMPARTMENT LIGHT ADDITIONAL

An additional LED strip light model TecNiq E4S, will be installed in each body compartment for a total of two (2) per compartment. The tube light will be centered vertically along the rearward side of the door framing and at maximum length available to fit the opening.

Compartment lights in each compartment will be on a separate circuit, turning on only those lights that have open compartment doors.

FORWARD BROW FLOOD LIGHT

A FireTech 46" long brow flood light with black housing shall be installed beneath the lightbar on the cab roof. The flood light will be 18,000 lumens with split optics

The brow light will be activated by separate switches located on the cab console, scene, spot and flood.

FLOOD LIGHTS

There will be four (4) FireTech Guardian Elite flood lights installed on the body sides of the apparatus, two (2) on each side; one (1) located at the front and one (1) located at the rear corner of the body side walls for a total of four (4). Each light will be rated at 12,500 lumens (125 watts).

They will be activated by a switch marked "Work Light" located on the cab console

MECHANICAL Q2B SIREN

The front bumper will include an electro mechanical Federal Signal Q2B™ siren, which will be streamlined, chrome-plated and will produce 123 decibels of sound at 10.00 feet.

The Q2B™ siren produces a distinctive warning sound that is recognizable at long distances. A unique clutch design provides a longer coast down sound while reducing the amp draw to 100 amps.

The siren will measure 10.50 inches wide by 10.00 inches high by 14.00 inches deep. The siren will include mounting hardware designed to recess mount.

The siren will be pedestal mounted on the right side of the bumper.

The mechanical siren will be actuated by two (2) black push buttons in the switch panel on the console. A momentary siren brake rocker switch will be provided in the switch

panel on the console. Push buttons will be located one (1) to be accessed by driver side of console, and one (1) for officer on officer side of console

The switch will be labeled "SIREN".

The siren will only be active when the master warning switch is on to prevent accidental engagement.

NOTE: Requires extended front bumper.

REAR SCENE WORK LIGHTS

There will be two (2) FireTech Guardian flood lights installed on the rear facing vertical surface of the body, one (1) on each side. Each light will be rated at 6500 lumens (75 watts).

They will be activated by a switch marked "Work Light" located on the cab console or whenever the apparatus is placed in the reverse mode of operation to access with backing.

ELECTRICAL SYSTEM - VMUX

Electrical System

The apparatus body shall incorporate a Weldon V-MUX powered by Digital Truck Designer multiplexing system. The system shall use active/standby architecture and communicate via J1939 CAN bus. The electrical system installed by the apparatus manufacturer shall conform to current SAE standards, the latest FMVSS standards, and the requirements of the applicable NFPA standards.

The electrical circuits shall be provided with low voltage over-current protective devices. Such devices shall be accessible and located in required terminal connection locations or weather-resistant enclosures. The over-current protection shall be suitable for electrical equipment and shall be automatic reset type and meet SAE standards. All electrical equipment, switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. The system shall have electro-magnetic interference suppression provided as required in applicable SAE standards.

Any electrical junction or terminal boxes shall be weather-resistant and located away from water spray conditions.

Multiplex System

For superior system integrity, the networked multiplex system shall meet the following minimum component requirements:

The network system shall use the J1939 protocol.

- Modules shall be IP67 rated to handle the extreme operating environment found in the fire service industry.
- All modules shall be solid state circuitry utilizing MOS-FET technology and utilize Deutsch series input/output connectors.
- Load shedding power management (8 levels).
- Switch input capability for chassis functions.
- · Responsible for lighting device activation.
- Self-contained diagnostic indicators.
- Wire harness as need to interface electrical devices with multiplex modules.
- The grounds from each device should return to the main ground trunk in each sub harness by the use of ultrasonic splices.

Wiring

All harnessing, wiring and connectors shall be manufactured to the following standards/guidelines. No exceptions.

- NFPA (Specific edition documented elsewhere in these specifications)
- SAE J1127 and J1127
- IPC/WHMA-A-620 Requirements and Acceptance for Cable and Wire Harness Assemblies. (Class 3 – High Performance Electronic Products)

All wiring shall be copper or copper alloys of a gauge rated to carry 125 of the maximum current for which the circuit is protected. Insulated wire and cable 8 gauge and smaller shall be SXL, GXL, or TXL per SAE J1128. Conductors 6 gauge and larger shall be SXL or SGT per SAE J1127.

All wiring shall be colored coded and imprinted with the circuits function. Minimum height of imprinted characters shall not be less than .082" plus or minus .01". The imprinted characters shall repeat at a distance not greater than 3".

A coil of wire shall be provided behind electrical appliances to allow them to be pulled away from mounting area for inspection and service work.

Wiring Protection

The overall covering of the conductors shall be loom or braid.

Braid style wiring covers shall be constructed using a woven PVC-coated nylon multifilament braiding yarn. The yarn shall have a diameter of no less than .04" and a tensile strength of 22 lbs. The yarn shall have a service temperature rating of -65 F to 194 F. The braid shall consist of 24 strands of yarn with 21 black and 3 yellow. The yellow shall be oriented the same and be next to each other.

Wiring loom shall be flame retardant black nylon. The loom shall have a service temperature of -40 F to 300 F and be secured to the wire bundle with adhesive-backed vinyl tape.

Wiring Connectors

All connectors shall be Deutsch series unless a different series of connector is needed to mate to a supplier's component. The connectors and terminals shall be assembled per the connector/terminal manufacturer's specification. Crimble/Solderless terminals shall be acceptable. Heat shrink style shall be utilized unless used within the confines of the cab.

Fast Idle System

A fast idle system shall be provided and controlled by a switch accessible by the driver. The system shall increase engine idle speed to a preset RPM for increased alternator output.

NFPA Required Testing of Electrical System

The apparatus shall be electrical tested upon completion of the vehicle and prior to delivery. The electrical testing, certifications, and test results shall be submitted with delivery documentation per requirements of NFPA. The following minimum testing shall be completed by the apparatus manufacturer:

1. Reserve capacity test:

The engine shall be started and kept running until the engine and engine compartment temperatures are stabilized at normal operating temperatures and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for ten (10) minutes. All electrical loads shall be turned off prior to attempting to restart the engine. The battery system shall then be capable of restarting the engine. Failure to restart the engine shall be considered a test fail.

2. Alternator performance test at idle:

The minimum continuous electrical load shall be activated with the engine running at idle speed. The engine temperature shall be stabilized at normal operating temperature. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure.

Alternator performance test at full load:

The total continuous electrical load shall be activated with the engine running up to the engine manufacturer's governed speed. The test duration shall be a minimum of two (2) hours. Activation of the load management system shall be permitted during this test. However, an alarm sounded by excessive battery discharge, as detected by the system required in the NFPA Standard, or a system voltage of less than 11.7 volts DC for a 12-volt nominal system, for more than 120 seconds, shall be considered a test failure.

4. Low voltage alarm test:

Following the completion of the above tests, the engine shall be shut off. The total continuous electrical load shall be activated and shall continue to be applied until the excessive battery discharge alarm activates. The battery voltage shall be measured at the battery terminals. With the load still applied, a reading of less than 11.7 volts DC for a 12-volt nominal system shall be considered a test failure. The battery system shall then be able to restart the engine. Failure to restart the engine shall be considered a test failure.

NFPA Required Documentation

The following documentation shall be provided on delivery of the apparatus:

- A. Documentation of the electrical system performance tests required above.
- B. A written load analysis, including:
 - The nameplate rating of the alternator.
 - b. The alternator rating under the conditions.
 - Each specified component load.
 - d. Individual intermittent loads.

Vehicle Data Recorder

A vehicle data recorder system will be provided to comply with NFPA 1901, 2009 edition. The following data will be monitored:

- Vehicle speed MPH
- Acceleration (from speedometer) MPH/Sec.
- Deceleration (from speedometer) MPH/Sec.
- Engine speed RPM
- · Engine throttle position % of full throttle
- ABS Event On/Off
- Seat occupied status Occupied Yes/No by position
- Seat belt status Buckled Yes/No by position
- Master Optical Warning Device Switch On/Off
- Time: 24 hour time
- Date: Year/Month/Day

Display

The multiplex electrical system shall include a 7" color display.

The display shall have the following features:

- · Bonded transmissive TFT LCD screen
- Diagonal measurement of no less than 7°

- J1939 Communications protocol capable
- · IP67 sealed front and rear
- Twelve (12) multi-function tactal buttons
- Home button
- · Menu button

Display screens shall be configured to include the following:

- Warning light switching
- · Work and scene light switching
- · Image from back-up camera
- · Indicator for park brake
- · Occupant detection indication
- · Specific door ajar indication
- Clock
- · Access to the multiplex system diagnostics

The display shall be located in the center cab console.

Occupant Detection System

There will be a visual and audible warning system installed in the cab that indicates the occupant buckle status of all cab seating positions that are designed to be occupied during vehicle movement.

The audible warning will activate when the vehicle's park brake is released and a seat position is not in a valid state. A valid state is defined as a seat that is unoccupied and the seat belt is unbuckled, or one that has the seat belt buckled after the seat has been occupied.

The visual warning will consist of a graphical representation of each cab seat in the multiplex display screen that will continuously indicate the validity of each seat position.

The system will include a seat sensor and safety belt latch switch for each cab seating position, audible alarm and wiring harness.

Electrical Connection Protection

The vehicle electrical system will be made more robust by the application of a corrosion inhibiting spray coating on all exposed electrical connections on the chassis and body. If equipped with an aerial device, the exposed connections on the aerial components will also be protected.

The coating will use nanotechnology to penetrate at the molecular level into uneven surfaces to create a protective water repellant film. The coating will protect electrical connections against the environmental conditions apparatus are commonly exposed to.

Cab Control Console

The control center console will be fabricated of minimum .125 inch smooth aluminum and will be installed between the driver and officer seat. The base of the console will be custom trim-fit to the chassis floor line and be securely fastened.

This area will serve as the main electrical distribution point for all chassis related functions and contain the majority of the hardware related to these functions.

12-Volt Charger Port

A USB charger port will be installed in the top of the console. It will be provided with a tethered rubber cover. It will be wired directly to battery hot.

Battery Switch

There will be a rotary style switch installed on the floor left of the driver's seat to disconnect major loads from the battery system as required by NFPA 1900.

Auto Fast Idle

Engine will increase in RPM to a preset amount if the battery voltage drops below 11.7V and the pump is not engaged or transmission placed in drive gear.

Hazard Light in Cab

There will be a LED "Door Open" indicator light provided and installed in the chassis cab. The light will be installed on the console and will activate when the parking brake is released and a compartment door or any additional specified accessible devices are not in the completely closed positions.

A warning placard will be installed in the apparatus cab near the light, stating "Do Not Move Apparatus When Light Is On."

Battery Charger

A minimum 40-amp (12 volt) battery charger/conditioner will be provided and installed in the "best fit" location as determined by the apparatus manufacture.

Shoreline Receptacle w/ Auto Eject

A Kussmaul "Super Auto-Eject" 120 volt 20 amp shoreline receptacle will be installed on the apparatus. It will automatically eject the plug when the starter button is depressed.

The electrical current will be interrupted before the plug is automatically ejected to prevent arcing. The plug for the receptacle will be shipped loose for installation on the shoreline cord.

The shoreline connection will be installed under the driver's door step area at the lower step level and placed forward of the immediate stepping area where space allows.

The electrical inlet will be connected to the battery charger.

The shoreline inlet connection will include a yellow cover.

DOT Lighting

There will be seven (7) lights located on the rear of the apparatus. Three (3) of the lights will be mounted on the rear of the apparatus center location, for use as identification lamps. Two (2) additional lights will be located on the rear outboard locations, one (1) each side as high as possible. Two (2) lights will be mounted in the rubrails on the sides facing the side at the rear corners, for use as clearance lamps.

Rear Tail Light Assembly

There will be Whelen 600 series Super LED rear tail light assemblies provided and installed with the apparatus, one (1) each side at the rear.

The following will be installed in each taillight stack:

One (1) red brake/tail light with clear lenses

One (1) amber arrow turn signal light with clear lenses and populated arrow flash pattern

One (1) clear backup light

One (1) red warning light on the bottom of the stack

They will be mounted in PLAST4V chrome flanges provided for each tail light assembly.

Engine Compartment Light

There will be one (1) 12 volt LED work light installed in the engine compartment on the firewall. The light will have an integrated on/off switch.

Cab Step Lights

There will be a LED light installed underneath each of the apparatus cab steps meeting NFPA 1900 requirements. The lights will be positioned to provide illumination to the ground area or the lower step under the cab entry doors.

The lights will be activated by the opening of any cab door and work light switch in the cab console.

Under Body Lights

There will be one (1) perimeter light under each side of the pump house running boards and two (2) under the rear tailboard.

The perimeter lights will illuminate the area with the activation of the work light switch in the cab dash and with the parking brake applied.

LED Intermediate Turn Signal Lighting

There will be two (2) amber intermediate turn signals and two (2) amber intermediate marker lights on the sides of the apparatus (one (1) each per side) between the front and rear axles.

The lights will be Weldon brand 9186-1500 series LED amber markers.

Intermediate Turn Signals

The intermediate turn signals will flash with the turn indicators.

Compartment Lighting

One (1) LED Strip light, Techiq E45, will be installed in each body compartment. The tube light will be centered vertically along the forward side of the door framing and at maximum length available to fit the opening.

The light in each compartment will be on a separate circuit, turning on only those lights that have open compartment doors.

LED Crosslay Flood Light

There will be one (1) LED light with clear LED wide flood lamp rated at not less than 750 lumens installed on the top center of the cross compartment. It will be capable of illuminating the entire crosslay hose bed area.

It will be manually activated by the Work Light switch located on the cab console.

LED Hosebed Flood Light

There will be an LED minimum 6:00 x 3.00 inch LED flood light with clear lens located at the front of the hosebed rated at not less than 1900 lumens capable of illuminating the entire hosebed area.

It will be manually activated by the Work Light switch located on the cab console.

GROUND LADDERS

DUO-SAFETY ROOF LADDER

A Duo-Safety 775-A, 14' roof ladder shall be provided. Folding steel roof hooks shall be attached to one end of the ladder with steel spikes on the other.

DUO-SAFETY EXTENSION LADDER

A Duo-Safety 900-A, 24' 2-section extension ladder shall be provided.

DUO-SAFETY ATTIC LADDER

Ladder - Duo-Safety 585-A 10' Attic ladder with shoes shall be provided.

EXTERIOR PAINT

Paint Process/Manufacturer

The specified E-ONE supplied components shall be painted with PPG Industries paint.

All applicable metal surfaces shall be mechanically etched by sanding disc to remove any surface oxidation or surface debris which may hinder the paint adhesion. Once all imperfections on the exterior surfaces are removed and sanded smooth, body fillers shall be applied to the surfaces that require a critically aesthetic finish and sanded smooth.

The applicable surfaces shall then be coated with a high quality base primer that is designed to fill any minor surface defects, provide an adhesive bond between the primer and the paint and improve the color and gloss retention of the color. The finish to this procedure shall be sanding the surfaces to a smooth finish followed by sealing the seams with an automotive seam sealer. The minimum thickness of the primer coat after sanding shall be 2.50 mils with a maximum thickness of 5.00 mils.

The applicable surfaces shall then be painted the specific color(s) designated by the customer with an acrylic urethane type system designed to retain color and resist acid rain and most atmospheric chemicals found on an emergency scene. The paint shall have a minimum thickness of 1.0 mils with a maximum of 4.0 mills, followed by a clear top coat with a minimum of 2.0 mils and a maximum of 4.0 mils. All applicable components shall then be baked to speed the curing process of the coatings.

VM8 PAINT / GRAPHICS

BODY COLOR

The body side panels will be painted to match the primary cab color.

STRIPING

CAB AND BODY STRIPE

A single Scotchlite stripe, up to 6 inches in width shall be installed on the cab and body . The stripe shall have a hockey style, Z or S style or any other customer specific design style.

The stripe shall be NFPA compliant and the size, color and location shall be as specified by the customer.

CAB AND BODY STRIPE [Qty: 2]

An additional Scotchlite stripe, up to 3 inches in width shall be installed on the cab and body.

The stripe shall be NFPA compliant and the design, size, color and location shall be as specified by the customer.

REAR CHEVRON STRIPE

Individual chevron style Scotchlite striping shall be provided on the rear of the apparatus. The stripes shall consist of 6" red/lemon yellow alternating stripes in an "A" pattern. The striping shall be located full width on rear of body each side of B1. Colors shall be Red/Lemon yellow. Does not include B1 Door.

GRAPHICS

Graphics Drawing

A graphics drawing shall be provided for the apparatus. The drawing shall include striping, lettering and logos meeting NFPA guidelines. The drawing shall be presented for review and approval by the end user prior to application of the graphics.

WARRANTY / STANDARD & EXTENDED

General 1 Year Warranty

Purchaser shall receive a General One (1) Year or 24,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0001. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

Body Structural (Aluminum) Warranty

Purchaser shall receive a Body Structure (Aluminum) Fifteen (15) Years or 100,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0503. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

Electrical Warranty

Purchaser shall receive an Electrical One (1) Year or 18,000 Miles limited warranty in accordance with, and subject to, warranty certificate RFW0201. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

Paint and Finish (FRP Panels) Warranty

Purchaser shall receive a Paint and Finish (Exterior FRP Panels) Twelve (12) Years limited warranty in accordance with, and subject to, warranty certificate RFW0722. The warranty certificate is incorporated by reference into this proposal, and included with this proposal or available upon request.

SUPPORT, DELIVERY, INSPECTIONS AND MANUALS

Electronic Manuals

Two (2) copies of all operator, service, and parts manuals MUST be supplied at the time of delivery in digital format -NO EXCEPTIONS! The electronic manuals shall include the following information:

- Operating Instructions, descriptions, specifications, and ratings of the cab, chassis, body, aerial (if applicable), installed components, and auxiliary systems.
- Warnings and cautions pertaining to the operation and maintenance of the fire apparatus and firefighting systems.
- Charts, tables, checklists, and illustrations relating to lubrication, cleaning, troubleshooting, diagnostics, and inspections.
- Instructions regarding the frequency and procedure for recommended maintenance.

- Maintenance instructions for the repair and replacement of installed components.
- · Parts listing with descriptions and illustrations for identification.
- Warranty descriptions and coverage.

The electronic document shall incorporate a navigation page with electronic links to the operator's manual, service manual, parts manual, and warranty information, as well as instructions on how to use the manual. Each copy shall include a table of contents with links to the specified documents or illustrations.

The electronic document must be formatted in such a manner as to allow not only the printing of the entire manual, but to also the cutting, pasting, or copying of individual documents to other electronic media, such as electronic mail, memos, and the like.

A find feature shall be included to allow for searches by text or by part number.

These electronic manuals shall be accessible from any computer operating system capable of supporting portable document format (PDF). Permanent copies of all pertinent data shall be kept file at both the local dealership and at the manufacturer's location.

NOTE: Engine overhaul, engine parts, transmission overhaul, and transmission parts manuals are not included.

Specification

FREIGHTLINER

Freightliner M2 106 Conventional

Minimum GVWR: 2-door - 39,000 lbs.

191 W/B Side Mount - 221 WB Top Mount

ENGINE

Cummins L9 - 360EV HP @2200 RPM; 1150 lb/ft @ 1200 RPM 4

Maximum 68 MPH road speed limit (per NFPA 1901)

Side of hood air intake with NFPA compliant ember screen and fire retardant Donaldson or equal air cleaner.

Minimum 320 amp alternator

Minimum 2000CCA, 370RC batteries with threaded studs under left side cab

Positive load disconnect with cab mounted control switch mounted outboard of driver's seat

Turbocharged 18.7 cfm air compressor with internal safety valve and mechanical governor

Exhaust brake integral with variable geometry turbo and ON/OFF dash switch. Must automatically activate apparatus stop lamps.

Right side outboard under step mounted horizontal aftertreatment system with horizontal tailpipe exiting forward of right rear wheels

Engine aftertreatment device, automatic over the road active regeneration and dash mounted single regeneration request/inhibit switch

Diesel exhaust fluid tank – 6 gallon under left cab aft of fuel tank

Horton Drivemaster Advantage ON/OFF fan drive, automatic control

1100 square inch aluminum radiator

Electric grid air intake warmer

TRANSMISSION

Allison 3000 EVS automatic _

PTO provision for Chelsea 280 series PTO (2)

Vocation package 198 for fire vehicle applications

Magnetic drain plugs

Push-button electronic shift control - dash mounted Water-to-oil cooler in radiator tank Synthetic fluid FRONT AXLE 2-door cab models - 14,700 lb. Set-back with drop . 16.5X5Q+ cast spider heavy duty cam front brakes, double anchor, fabricated shoes Fire and Emergency Severe Service, non-asbestos front lining. Cast iron front brake drums Front oil seals Vented oil front hub caps with window, center and side plugs Automatic slack adjusters with stainless steel clevis pins Power steering 2-quart see-through power steering reservoir 14,600 lb. taperleaf suspension Maintenance-free rubber bushings Shock absorbers REAR AXLE 27,000 lb. T-Series fire vehicle service single 5.13 rear axle ratio Iron carrier with standard axle housing Extended lube main driveline with half-round yoke 16.6X7 P cast spider cam rear brakes, double anchor, cast shoes Fire and Emergency Severe Service non-asbestos rear brake linings Brake cams and chambers on forward side of drive axle Rear oil seals

Longstroke 1-drive axle spring parking chambers

Automatic slack adjusters

27,000 lbs. flat leaf spring rear suspension with radius rod for Fire/Emergency service

Fore/Aft control rods

BRAKE SYSTEM

WABCO 4S/4M ABS

Air system pressure protection and 85 psi pressure protection for air horns

Relay valve with 5-8 psi crack pressure

WABCO System Saver HP with integral air governor and heater

Auto Drain valve - wet tank *

WHEELBASE

2-door Side Mount models – Turning radius is considered critical for this apparatus, therefore the maximum wheelbase shall not exceed 191 inches

2-door Top Mount models – Turning radius is considered critical for this apparatus, therefore the maximum wheelbase shall not exceed 212 inches

FUEL TANK & SYSTEM

Minimum 50 gallons/189 liter rectangular polished aluminum mounted beneath left front cab door.

Bright aluminum treadplate trim package will be installed beneath the cab doors above the secondary step and the bottom of the cab and the first and secondary step.

Cab steps shall be polished stainless steel

Fuel/water separator with water in fuel sensor

High temperature reinforced nylon fuel line

Fuel cooler

TIRES & WHEELS

Front: Michelin or equal XZE 12R22.5 16 ply radial

Rear: Michelin or equal XDN2 12R22.5 16 ply radial

22.5x8.25 10-hub piloted steel disc (6)

HUBS	
Conmet Preset Plus premium iron - Hum	
CAB EXTERIOR	
2-door cab models - 106 inch BBC flat roof aluminum conventional c	ab
Air cab mounting	
Cab roof reinforcements for roof mounted lightbar	
Safety yellow left and right interior grab handles and exterior non-sli	p grab handles
Chromed grille	
Chromed air intake grille with ember screen	
Fiberglass tilting hood	
Dual 25 inch round Stuttertone hood mounted air horns (one left and	one right) with shields.
Left and right air horn foot switches with momentary dash switch for	horn hutton
Door locks and ignition switch keyed alike	Ext. FROUT.
Dual West Coast mirrors; bright finish; heated; left and right remote convex mounted under primary mirrors; right side down view mirror	adjustment 8 inch bright finish
Aftertreatment system on right side with polished diamond plate cove	er 700 wat speake
Electric horn warning system for park brake when not set with door o	pen and all ignition key positions
Tinted windshield and door glass	222
Manual door window regulators	
Three-piece 14 inch chromed steel bumper with collapsible ends	
Front tow hooks – frame mounted (2)	
CAB INTERIOR	
Molded inner door panels	
Opal gray vinyl interior	

Heater, defroster and air conditioner with standard HVAC ducts and controls with recirculation switch

Black mats with single insulation

Premium cab insulation

Door activated dome/red map lights, forward left and right and (if 4-door) rear left, right and center.

Manual cab door locks

Seats:

- Driver: High back air suspension driver seat with NFPA 1901 compliant seat sensor
- Officer: High back air suspension officer seat with NFPA 1901 compliant seat sensor

Black Cordura Plus cloth seat covers

NFPA compliant high visibility orange seatbelts

All seating positions shall have a seat sensor that advises the driver through a visual display on the dash within the driver zone of seatbelt status for all positions in the apparatus. The sensors shall be connected directly to the VDR (vehicle data recorder (VDR) integrated into the dash. Connection for downloading recorded data shall be through the J1939 port.

Adjustable tilt and telescoping steering column with 4-spoke 18 inch steering wheel

Driver and officer side interior sunvisors

INSTRUMENTS & CONTROLS

Engine remote interface with park brake interlock

Low air pressure indicator light and audible alarm

2 inch primary and secondary air pressure gauges

Engine compartment mounted air restriction indicator with graduations and warning light in dash

Woodgrain driver and center instrument panel

Electronic cruise control with switches in left switch panel

Ignition switch with non-removable key

Heavy duty onboard diagnostics interface connector located below left dash

2 inch fuel gauge

Engine remote interface for remote throttle

Engine remote interface connector in engine compartment

Engine coolant temperature gauge

Engine oil pressure gauge

2 inch transmission temperature gauge

Engine and trip hour meters integral within driver display

Power and ground wiring provision in overhead console

Electronic MPH speedometer with secondary KPH scale without odometer

Vehicle speed sensor

Electronic 3000 rpm tachometer

Digital voltage display integral in driver display

Electric windshield wiper motor and display

Alternating flashing headlamp system with fire apparatus controlled engagement

Parking brake system with dash valve control auto/neutral and warning indicator

Self-cancelling turn signal switch with dimmer, washer/wiper and hazard in handle

AIR OUTLET

A ¼" male plug air hose inlet shall be connected to the air reservoir tank. A ¼" inline check valve will be installed in the line. Air hose connection will provide the capability of filling the air brake system with air from an outside source. It will be located beneath the driver's cab door above the fuel tank.

CAB DOOR RETRO-REFLECTIVE STRIPING

Chevron style retro-reflective striping shall be added to the inside of the cab doors in accordance to NFPA requirements. It shall cover not less than 96 sq.in of each door meeting MFPA 1901.

TIRE PRESSURE MONITORING SYSTEM

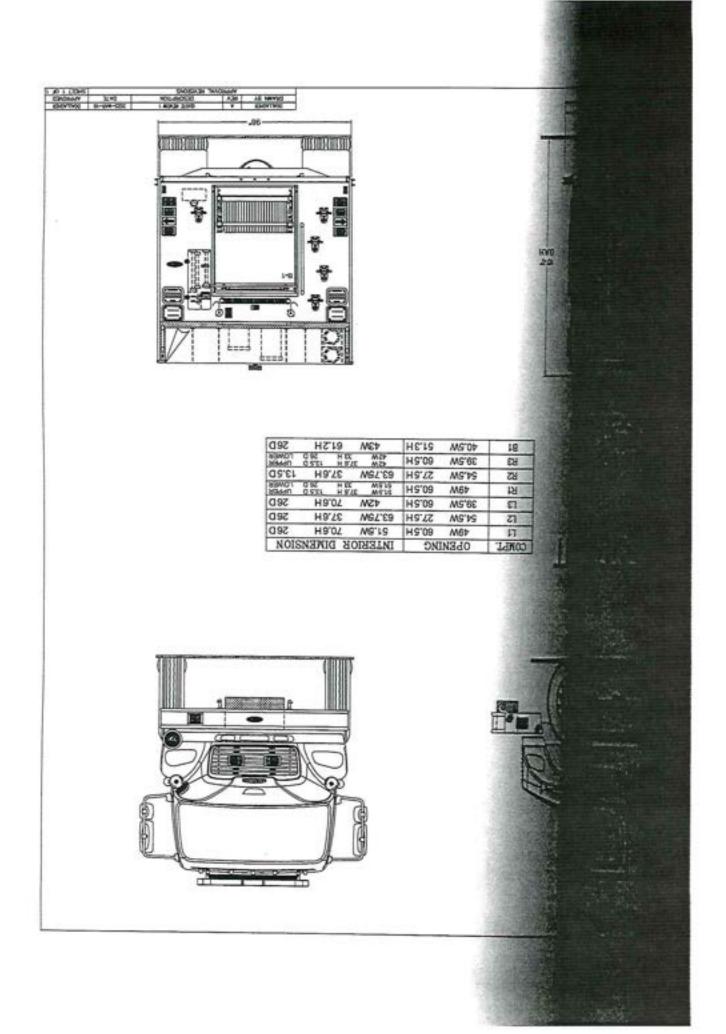
There shall be a RealWheels LED AirGuard Set and Go, six (6) wheel stabilizer kit, for 2.00 inch round holes and LED indicators proper air pressure in the tire.

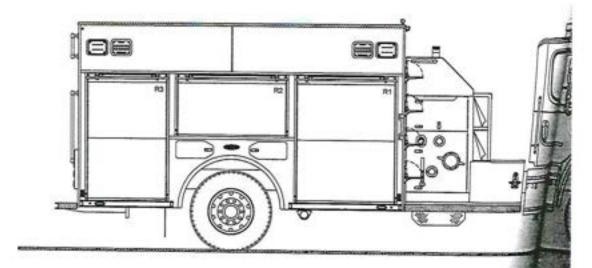
The inner tire on the rear dual axle shall have an extension provided that will pass through the outside rim and attach to the stabilizer providing an unobstructed view for inspection of the inner tire air pressure.

The indicators shall be installed by the department after the unit has been fully equipped and the tires set to the manufactures recommended pressure rating. The indicators will calibrate to that initial air pressure setting upon installation and will intermittently flash when the tire pressure is reduced by 5 to 10 psi from its original calibrated pressure.

Specification								
PLUMBING	SYSTEM	- QMAX	XS	1500	GPM			

MIDSHIP PUMP

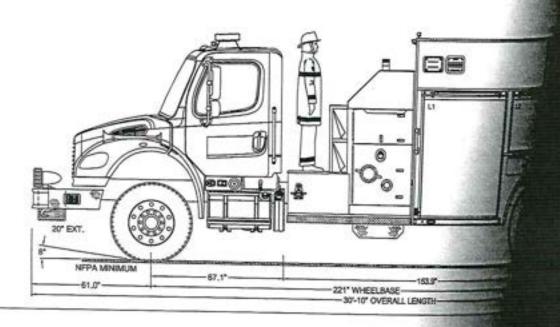






BETHEL FIRE DEPAR

BETHEL, NC Q141060 COMMERCIAL PUMP 1500 GPM HALE QMAXXS 1000 GALLON WATER / 30 GALL FREIGHTLINER M2-106 2 DOOR CA





Fire Apparatus One (1) Year or 24,000 Miles

General

Limited Warranty

Subject to the provisions, limitations, and exclusions set forth in this certificate, E-one, inc. ("OEM") extends the following Limited Warranty to the Purchaser of a fire apparatus vehicle (the "Product") manufactured by OEM. As used herein, "Purchaser" means that person or entity which purchases and commences first commercial use of the Product for its intended purpose.

This Limited Warranty Covers:

The Product shall be free from defects in material and workmanship, under normal use and maintenance, for the warranty period described below in this certificate. Also see the Section herein entitled "Specific Exclusions and Conditions" for more details regarding the parts and components covered by this Limited Warranty.

This Limited Warranty Coverage will Begin

The date the Product is placed into service by the Purchaser or thirty (30) days after the date of the Product invoice to the Purchaser, whichever comes first,

This Limited Warranty Coverage Ends After the First Occurrence of:

One (1) Year or 24,000 Miles

Who is Covered by this Limited Warranty: This Limited Warranty only applies to Purchaser and, unless required by applicable law, may not be assigned or transferred to any other person or entity without OBM's prior written authorization. This Limited Warranty is valid only in the country in which the Product is first sold.

Now to Obtain Warranty Service: See the Operator Manual(s) for instructions on how to negister the Product, to obtain warranty repair authorization and service, and to make arrangements for the Product to be transported to an OEM-authorized service facility for warranty service. All warranty service and towing must be authorized by an OEM outsomer service representative before any warranty or towing service is performed. OEM shall not be responsible for, or reimburse Purchaser for, any costs or expenses relating to unauthorized warranty service or towing. Purchaser must notify EM or its authorized customer service representative as soon as possible after discovery of any defect with the Product but in no event more than ten (10) days after discovery.

Exclusive Remedy: OEM will, at its option, repair or replace the Product if it is defective in materials or workmanship during the warranty period stated above and covered by this Limited Warranty. Such repair or replacement may be performed at an OEM facility or by an OEM-authorized service facility. Any repaired or replaced Product shall be warranted only for the remainder of the warranty period applicable to the original Product. THIS PARAGRAPH CONTAINS OEM'S SOLE OBLIGATION AND PURCHASEN'S EXCLUSIVE REMEDIES FOR ANY DEFECTIVE PRODUCT COVERED BY THIS LIMITED WARRANTY.

Third Party Representations: No person or entity is authorized to create any other warranty, obligation or liability in connection with the Product, and OEM is not responsible for any representation, promise or warranty made by any person, dealer, component manufacturer, vehicle manufacturer, or other entity beyond what is expressly stated in this Limited Warranty.

Disclaimer of Other Warranties: THIS LIMITED WARRANTY IS GEN'S SOLE AND EXCLUSIVE WARRANTY WITH RESPECT TO THE PRODUCT. EXCEPT FOR THE LIMITED WARRANTIES STATED IN THIS CERTIFICATE, GEM MAKES NO OTHER EXPRESS OR IMPLIED REPRESENTATIONS OR WARRANTIES WHATSDEVER REGARDING THE PRODUCT INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT, OR ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. TO THE EXTENT THAT ANY IMPLIED WARRANTIES MAY NOT BE DISCLAIMED UNDER APPLICABLE LAW, SUCH WARRANTIES ARE EXPRESSLY LIMITED TO THE DURATION OF THE DOPRESS WARRANTY STATED IN THIS CERTIFICATE.

Limitation of Liability:

IN NO EVENT SHALL DEM BE LIABLE TO PURCHASER OR ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL SPECIAL, EXEMPLARY, ENHANCED, PUNITIVE OR CONSEQUENTIAL DAMAGES RELATINS TO OR ARISING OUT OF THE PRODUCT OR OTHERWISE (INCLUDING, WITHOUT LIMITATION, LOST REVENUE, LOST PROFITS, LOSS OF OPPORTUNITIES, LOSS OF USE, DOWN TIME, DIMINUTION IN VALUE, COST OF ALTERNATIVE TRANSPORTATION, INCONVENIENCE, COST OF LODGING, VEHICLE RENTAL EXPENSES, LABOR CHARGES, EQUIPMENT RENTAL CHARGES OR OTHER ECONOMIC LOSSESS, WHETHER IN AN ACTION IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR THERWISE, EVEN IF ORM HAS BEEN ADVISED OF THE POSSIBILITIES OF SUCH DAMAGES, FURTHER, JEM'S LIABILITY FOR ANY AND ALL WARRANTY CLAIMS HEREUNDER SHALL BE LIMITED TO THE PURCHASE PRICE OF THE PRODUCT.

Specific Exclusions and Conditions

Except as excluded in this certificate, this Limited Warranty covers Product parts, components, and subsystems manufactured by OEM. Excluded from this Limited Warranty are (a) Third-Party Parts, as defined below, and (b) those parts, components and subsystems manufactured by OEM which are pubject to separate OEM limited warranties such as, but not limited to, the Product's chassis, engine emissions system, electrical system, multiplex electronic system, frame, aerial device, hydraulic system, body structure, cab structure, paint system, and plumbing system.

If the Product is manufactured using a chassis provided by a Third-Party Parts manufacturer (i.e. a commercial chassis), this Limited Warranty shall not apply to the chassis. Instead, the Product's chassis will be covered by, and subject to, a separate limited warranty provided by that Third-Party Parts manufacturer.

General Exclusions and Conditions; What This Limited Warranty Does Not Cover: The Product may incorporate subsystems, assemblies, parts, components, and other items manufactured by third-party manufacturers which may include, but are not limited to, chassis, engine and emissions system, transmission, transfer case, axies, suspensions, water pumps, monitors, valves, foam systems, aerial devices (oach, a "Third-Party Parts"). OEM does not warrant Third-Party Parts"). OEM does not warrant Third-Party Parts. Defects in materials and workmanship related to Third-Party Parts that carry their own warranty are subject to that warranty. OEM hereby assigns to Purchaser any assignable warranty applicable to the Third-Party Parts. The previous sentence is OEM's sole obligation with respect to Third-Party Parts.

This Limited Warranty does not apply to, and OEM shall have no responsibility or liability for, any claim, loss or damage resulting from or caused by any of the following: (a) normal wear and teat; (b) misuse, carelessness, abuse or neglect (e.g. overloading, driving over curbs or exposure to corross or flooded environments); (c) improper handling, storage or repairs; (d) use of the Product other than for its intended purpose; (e) collision, fire, theft, vandalism; (f) weather, freezing, flooding, acts of God, or other casualties; (g) exposure to salt, acids, corrosive agents or other damaging chemicals or materials; (h) components or systems, whether new or used, provided by Purchaser and installed at its request; (i) when the adometer or hour meter is disconnected, or its reading has been altered, or actual mileage or hours cannot be determined; (j) improper maintenance or use including, but not limited to, failure to follow the required or recommended maintenance schedules, failure to maintain operating parameters, and failure to follow operating instructions; (k) any Third-Party Parts; (I) additions or accessories not originally installed by DEM, including ancillary equipment used in firefighting, and any problems resulting from such additions or accessories; (m) any "aftermarket" devices installed on the Product; (n) the repair or modification of any existing part, component or subsystem originally installed by OEM without its prior express written authorization and any problems resulting from such repair or modification. Further, this Limited Warranty shall be null and void if the Product is ever lessed or rented, whether or not for compensation, to another person or

Miscellaneous Terms:

OEM reserves the right to make changes to the Product without incurring any obligation to modify or improve previously manufactured parts or products. Further, OEM may respond to or correct any issue or complaint for which it does not otherwise have responsibility under this Limited Warnanty without becoming obligated to respond to or correct any future issue or complaint of a same or similar nature, and such response or correction shall not constitute an admission of warranty coverage or impose any additional obligations on OEM.



One (1) Year or 18,000 Miles Electrical

Limited Warranty

Subject to the provisions, limitations, and exclusions set forth in this certificate, E-one, inc. ("DEM") extends the following Limited Warranty to the Purchaser of a fire apparatus vehicle manufactured by DEM (the "Apparatus"). As used herein, "Purchaser" means that person or entity which purchases and commences first commercial use of the Product for its intended purpose.

This Limited Warranty Covers:

The Apparatus's electrical system (the "Product") shall be free from defects in material and workmanship, under normal use and maintenance, for the warranty period described below in this certificate. Also see the Section herein entitled "Specific Exclusions and Conditions" for more details regarding the parts and components covered by this Limited Warrants.

This Limited Warranty Coverage will Begin:

The date the Product is placed into service by the Purchaser or thirty (30) days after the date of the Product avoice to the Purchaser, whichever comes first.

This Limited Warranty Coverage Ends After the First Occurrence of:

One (1) Year or 18,000 Miles

Who is Covered by this Limited Warranty: This Limited Warranty only applies to Purchaser and, unless required by applicable law, may not be assigned or transferred to any other person or entity without OEM's prior written authorization. This Limited Warranty is valid only in the country in which the Product is first sold.

How to Obtain Warranty Service: See the Operator Manual(s) for instructions on how to register the Product, to obtain warranty repeir authorization and service, and to make arrangements for the Product to be transported to an OEM-authorized service facility for warranty service. All warranty service and towing must be authorized by an OEM customer service representative before any warranty or towing service is performed. OEM shall not be responsible for, or reimburse Purchaser for, any costs or expenses relating to unauthorized warranty service or towing. Purchaser must notify OEM or its authorized customer service representative as soon as possible after discovery of any defect with the Product but in no event more than ten (10) days after discovery.

Exclusive Remedy: CEM will, at its option, repair or replace the Product if it is defective in materials or workmanship during the warranty period stated above and covered by this United Warranty. Such repair or replacement may be performed at an OEM facility or by an OEM-authorized service facility. Any repaired or replaced Product shall be warranted only for the remainder of the warranty period applicable to the original Product. THIS PARAGRAPH CONTAINS OEM'S SOLE OBJIGATION AND PURCHASER'S EXCLUSIVE REMICDIES FOR ANY DEFECTIVE PRODUCT COVERED BY THIS LIMITED WARRANTY.

Third Party Representations: No person or entity is authorized to create any other warranty, obligation or liability in connection with the Product, and OEM is not responsible for any representation, promise or warranty made by any person, dealer, component manufacturer, vehicle manufacturer, or other entity beyond what is expressly stated in this Limited Warranty.

Disclaimer of Other Warrandies: THIS LIMITED WARRANTY IS GEM'S SOLE AND EXCLUSIVE WARRANTY WITH RESPECT TO THE PRODUCT. EXCEPT FOR THE LIMITED WARRANTIES STATED IN THIS CERTIFICATE, ORM MAKES NO OTHER EXPRESS OR IMPLIED REPRESENTATIONS OR WARRANTIES WHATSOEVER REGARDING THE PRODUCT INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY, RITHESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT, OR ANY WARRANTIES OF DEALING OR USAGE OF TRADE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED. THERE ARE NO WARRANTIES WHICH EXTEND REYOND THE DESCRIPTION ON THE FACE RESECS. TO THE EXTENT THAT ANY IMPLIED WARRANTIES MAY NOT 85 DISCLAIMED UNDER APPLICABLE LAW, SUCH WARRANTIES ARE EXPRESSLY LIMITED TO THE DURATION OF THE EXPRESS WARRANTY STATED IN THIS CERTIFICATE.

Limitation of Liability:

IN NO EVENT SHALL OWN BE LIABLE TO PURCHASER OR ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, ENHANCED, PUNITIVE OR CONSEQUENTIAL DAMAGES RELATING TO OR AREING OUT OF THE PRODUCT OR OTHERWISE (INCLUDING, WITHOUT LIMITATION, LOST REVENUE, LOST PROPITS, LOSS OF OPPORTUNITIES, LOSS OF USE, DOWN TIME, DIMINIUTION IN VALUE, COST OF ALTERNATIVE TRANSPORTATION, INCONVENIENCE, COST OF LODGINS, VENCUE RENTAL EXPENSES, LABOR CHARGES, EQUIPMENT RENTAL CHARGES OR OTHER ECONOMIC LOSSES), WHETHER IN AN ACTION IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE, EVEN IF ORM HAS BEEN ADVISED OF THE POSSIBILITIES OF SUCH DIAMAGES, PURTHER, OGEN'S LIABILITY FOR ANY AND ALL WARRANTY CLAIMS HERELYDER SHALL BE LIMITED TO THE PURCHASE PRICE OF THE PRODUCT.

Specific Exclusions and Conditions

This Limited Warranty only covers defects in the main wire harnesses and related circuit protection, connectors, routing, harness clamping, and wire protection of the Product, Parts, components and Subsystems excluded from this Limited Warranty Include, but are not limited to, electronic devices, lighting, bulbs, siners, radios, intercoms, ECUs, gauges, switches, occupant protection airbags and psynotechnics, electronically controlled valves, pressure governors, foam system controls, ABS, ESC, solenoids, and relays.

If the Product is manufactured using a chazzis provided by a Third-Party Parts manufacturer (i.e. a commercial chazzis), this Limited Warranty shall not apply to the chazzis. Instead, the Product's chazzis will be covered by, and subject to, a separate limited warranty provided by that Third-Party Parts manufacturer.

General Exclusions and Conditions; What This Limited Warranty Does Not Cover:

The Product may incorporate subsystems, assemblies, parts, components, and other items manufactured by third-party manufacturers which may include, but are not limited to, chassis, engine and emissions systems, transmission, transfer case, ades, suspensions, water pures, monitors, valves, foam systems, aerial devices (sech, a "Third-Party Part" and collectively, the "Third-Party Parts". OBM does not warrant Third-Party Parts. Defects in materials and workmanship related to Third-Party Parts that carry their own warranty are subject to that warranty. OBM hereby assigns to Purchaser any assignable warranty applicable to the Third-Party Parts. The previous sentence is OBM's sole obligation with respect to Third-Party Parts.

This Limited Warranty does not apply to, and OEM shall have no responsibility or liability for, any claim, lost or damage resulting from or caused by any of the following: (a) normal wear and tear; (b) misuse, carelessness, abuse or neglect (e.g. overloading, driving over curbs or exposure to corrosk or flooded environments); (c) improper handling, storage or repain; (d) use of the Product other than for its intended purpose; (e) collision, fire, theft, vandalism; (f) weather, freezing, flooding, acts of God, or other casualties; (g) exposure to salt, acids, corrosive agents or other damaging chemicals or materials; (h) components or systems, whether new or used, provided by Purchaser and installed at its request; (i) when the adometer or hour meter is disconnected, or its reading has been altered, or actual mileage or hours cannot be determined; (i) improper maintenance or use including, but not limited to, failure to follow the required or recommended maintenance schedules, failure to main operating parameters, and failure to follow operating instructions; (k) any Third-Party Parts; (l) additions or accessories not originally installed by CEM, including ancillary equipment used in firefighting, and any problems resulting from such additions or accessories; (m) any "aftermarket" devices installed on the Product; (n) the repair or modification of any existing part, component or subsystem originally installed by CEM without its prior express written authorization and any problems resulting from such repair or modification. Further, this Limited Warranty shall be null and void if the Product is ever leased or rented, whether or not for compensation, to another person or

Miscellaneous Terms

OEM reserves the right to make changes to the Product without incurring any obligation to modify or improve previously manufactured parts or products. Further, OEM may respond to or correct any issue or complaint for which it does not otherwise have responsibility under this Limited Warranty without becoming obligated to respond to or correct any future issue or complaint of a same or similar nature, and such response or correction shall not constitute an admission of warranty coverage or impose any additional obligations on OEM.



Fire Apparatus Ten (10) Years or 100,000 Miles

Body Structure (Aluminum)

Limited Warranty

Subject to the provisions, limitations, and exclusions set forth in this certificate, E-one, Inc. ("DEM") extends the following Limited Warranty to the Purchaser of a fire apparatus vehicle manufactured by DEM (the "Apparatus"). As used herein, "Purchaser" means that person or entity which purchases and commences first commercial use of the Product for its intended purpose. This Limited Warranty Covers:

The Apparatus's aluminum body structure system (the "Product") shall be free from defects in material and workmanship, under normal use and maintenance, for the warranty period described below in this certificate. Also see the Section herein entitled "Specific Exclusions and Conditions" for more details regarding the parts and components covered by this Limited Worsanty.

This Limited Warranty Coverage will Begin:

The date the Product is placed into service by the Purchaser or thirty (30) days after the date of the Product invoice to the Purchaser, whichever comes first.

This Limited Warranty Coverage Ends After the First Occurrence of:

Ten (10) Years or 100,000 Miles

Who is Covered by this Limited Warranty: This Limited Warranty only applies to Purchaser and, unless required by applicable law, may not be assigned or transferred to any other person or entity without OEM's prior written authorization. This Limited Warranty is valid only in the country in which the Product is first sold.

Now to Obtain Warranty Service: See the Operator Manual(s) for instructions on how to register the Product, to obtain warranty repair authorization and service, and to make arrangements for the Product to be transported to an OEM-authorized service facility for warranty service, All warranty service and towing must be authorized by an OEM customer service representative before any warrantly or towing service is performed. OEM shall not be responsible for, or reimburse Purchaser for, any costs or expenses relating to unauthorized warranty service or towing. Purchaser must notify OEM or its authorized customer service representative as soon as possible after discovery of any defect with the Product but in no event more than ten (10) days after discovery.

Exclusive Remedy: CIEM will, at its option, repair or replace the Product if it is defective in materials or workmanship during the warranty period stated above and covered by this Limited Warranty. Such repair or replacement may be performed at an OEM facility or by an OEM-authorized service facility. Any repaired or replaced Product shall be warranted only for the remainder of the warranty period applicable to the original Product. This paragraph contains dem's sole obligation and PURCHASER'S EXCLUSIVE REMEDIES FOR ANY DEFECTIVE PRODUCT COVERED BY THIS LIBATTED

Third Party Representations: No person or entity is authorized to create any other warrancy, obligation or liability in connection with the Product, and OEM is not responsible for any representation, promise or warranty made by any person, dealer, component manufacturer, vehicle manufacturer, or other entity beyond what is expressly stated in this Limited Warranty.

Disclaimer of Other Warranties: THIS LIMITED WARRANTY IS DEM'S SOLE AND EXCLUSIVE WARRANTY WITH RESPECT TO THE PRODUCT. EXCEPT FOR THE LIMITED WARRANTIES STATED IN THIS CERTIFICATE, DEM MAKES NO OTHER EXPRESS OR IMPLIED REPRESENTATIONS OR WARRANTIES WHATSOEVER REGARDING THE PRODUCT INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY, PITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT, OR ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. TO THE EXTENT THAT ANY IMPLIED WARRANTIES MAY NOT BE DISCLAIMED UNDER APPLICABLE LAW, SUCH WARRANTIES ARE EXPRESSLY LIMITED TO THE DURATION OF THE EXPRESS WARRANTY STATED IN THIS CERTIFICATE.

Limitation of Liability:

IN NO EVENT SHALL DEM BE LIABLE TO PURCHASER OR ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, ENHANCED, PUNITIVE OR CONSEQUENTIAL DAMAGES RELATING TO OR ARISINS OUT OF THE PRODUCT OR OTHERWISE (INCLUDING, WITHOUT LIMITATION, LOST REVENUE, LOST PROFITS, LOSS OF OPPORTUNITIES, LOSS OF USE, DOWN TIME, DIMINUTION IN VALUE, COST OF ALTERNATIVE TRANSPORTATION, INCONVENIENCE, COST OF LODGING, VEHICLE RENTAL EXPENSES, LABOR CHARGES, EQUIPMENT RENTAL CHARGES OR OTHER ECONOMIC LOSSES). WHETHER IN AN ACTION IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE, EVEN IF DEM HAS BEEN ADVISED OF THE POSSIBILITIES OF SUCH DAMAGES. FURTHER, DEM'S LIABILITY FOR ANY AND ALL WARRANTY CLAIMS HEREUNDER SHALL BE LIMITED TO THE

Specific Exclusions and Conditions

This Limited Warranty only covers defects in the material and workmanship of the aluminum body structural components of the Product. Parts, components and subsystems excluded from this Unite Warranty include, but are not limited to, the exterior coating, graphics, corresion damage, electrical system, lighting, equipment mounting, shelves, trays, compartment doors, hinges, trim parts, body rounting brackets, vibration isolators, fasteners or hardware.

General Exclusions and Conditions; What This Limited Warranty Does Not Cover: The Product may incorporate subsystems, assemblies, parts, components, and other items manufactured by third-party manufacturers which may include, but are not limited to, chassis, engine and emissions system, transmission, transfer case, axies, suspensions, water pumps, monitors, valves, foam systems, serial devices (each, a "Third-Party Part" and collectively, the "Third-Party Parts"), OEM does not warrant Third-Party Parts. Defects in materials and workmanship related to Third-Party Parts that carry their own warranty are subject to that warranty. OEM hereby assigns to Purchaper any assignable warranty applicable to the Third-Party Parts. The previous sentence is OEM's sole obligation with respect to Third-Party Parts.

This Limited Warranty does not apply to, and DEM shall have no responsibility or liability for, any claim, loss or damage resulting from or caused by any of the following: (a) normal wear and teat; (b) misuse, carelessness, abuse or neglect (e.g. overloading, driving over curbs or exposure to corrosive or flooded environments); (c) improper handling, storage or repairs; (d) use of the Product other than for its intended purpose; (e) collision, fire, theft, vandalism; (f) weather, freezing, flooding, acts of God, or other casualties; (g) exposure to salt, acids, comosive agents or other damaging chemicals or materials; (h) components or systems, whether new or used, provided by Purchaser and installed at its request; (i) when the adometer or hour meter is disconnected, or its reading has been altered, or actual mileage or hours cannot be determined; (j) improper maintenance or use including, but not limited to, failure to follow the required or recommended maintenance schedules, failure to main operating parameters, and failure to follow operating instructions; (k) any Third-Party Parts; (f) additions or accessories not originally installed by OEM, including ancillary equipment used in firefighting, and any problems resulting from such additions or accessories; (m) any "aftermarket" devices installed on the Product; (n) the repair or modification of any existing part, component or subsystem originally installed by OEM without its prior express written authorization and any problems resulting from such repair or modification. Further, this Limited Warranty shall be null and void if the Product is ever leased or rented, whether or not for compensation, to another person or

Miscellaneous Terms:

OEM reserves the right to make changes to the Product without incurring any obligation to modify or improve previously manufactured parts or products. Further, OEM may respond to or correct any issue or complaint for which it does not otherwise have responsibility under this Limited Warranty without becoming obligated to respond to or correct any future issue or complaint of a same or similar nature, and such response or correction shall not constitute an admission of warranty coverage or impose any additional obligations on OEM.



Ten (10) Years

Paint and Finish (Exterior Clear coated)

Limited Warranty

Subject to the provisions, limitations, and exclusions set forth in this certificate, 5-one, Inc. ("OEM") extends the following Limited Warranty to the Purchaser of a fire apparatus vehicle manufacts. OEM (the Apparatus"). As used herein, "Purchaser" means that person or entity which purchases and commences first commercial use of the Product for its intended purpose,

This Limited Warranty Covers:

The Apparatus's OEM-applied exterior costing and finishing system (the "Product") shall be free from the point system adhesion defects listed in the Section herein entitled "Specific Exclusion Conditions", under normal use and maintenance, for the warranty period described here.

Limited Warranty coverage schedule:

Basecost/Clear Cost

Correction

0-120 Months: 100%

0-24 Months or 100,000 Miles: 100%

25-48 Months or 100,000 Miles: 50%

If the Product is manufactured using a chassis provided by a Third-Party Parts manufacturer (i.e. a commercial chassis), this Limited Werranty shall not apply to the chassis. Instead, the Product's chassis will be covered by, and subject to, a separate limited warranty provided by that Third-Party Parts manufacturer. In addition, also see the Section herein entitled "Specific Exclusions and Conditions* for more eletails regarding this Limited Warranty.

This Limited Warranty Coverage will begin:

The date the Product is placed into service by the Purchaser or thirty (30) days after the date of the Product invoice to the Purchaser, whichever comes first.

This Limited Warranty Coverage Ends After the First Occurrence of:

Ten (10) Years

Who is Covered by this Limited Warranty: This Limited Warranty only applies to Purchaser and, unless required by applicable law, may not be assigned or transferred to any other person or entity without OEM's prior written authorization. This Limited Warranty is valid only in the country in which the Product is first sold.

How to Obtain Warranty Service: See the Operator Manual(s) for instructions on how to registe the Product, to obtain warranty repair authorization and service, and to make arrangements for the Product to be transported to an OEM-authorized service facility for warranty service. All warranty service and towing must be authorized by an OEM customer service representative before any warranty or towing service is performed. ODM shall not be responsible for, or reimburse Purchase for, any costs or expenses relating to unauthorized warranty service or towing. Furchaser must notify OEM or its authorized customer service representative as soon as possible after discovery of any defect with the Product but in no event more than ten (10) days after discovery.

Exclusive Remedy: OEM will, at its option, repair or replace the Product if it is defective in materials or workmanship during the warranty period stated above and covered by this Limited Warranty. Such repair or replacement may be performed at an OEM facility or by an OEM-authorized service facility. Any repaired or replaced Product shall be warranted only for the remainder of the warranty period applicable to the original Product. THIS PARAGRAPH CONTAINS OBM'S SOLE OBLIGATION AND PURCHASER'S EXCLUSIVE REMEDIES FOR ANY DEFECTIVE PRODUCT COVERED BY THIS LIMITED WARRANTY.

Third Party Representations: No person or entity is authorized to create any other warranty, obligation or liability in connection with the Product, and OEM is not responsible for any representation, promise or warranty made by any person, dealer, component manufacture manufacturer, or other entity beyond what is expressly stated in this Limited Warranty.

Disclaimer of Other Warrantjes: THIS LIMITED WARRANTY IS DEM'S SOLE AND EXCLUSIVE WARRANTY WITH RESPECT TO THE PRODUCT, EXCEPT FOR THE LIMITED WARRANTIES STATED IN THIS CERTIFICATE, OEM MAKES NO OTHER EXPRESS OR IMPUED REPRESENTATIONS OR WARRANTIES WHATSDEVER REGARDING THE PRODUCT INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERIOGANTABILITY, PITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT, OR ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. TO THE EXTENT THAT ANY IMPLIED WARRANTIES MAY NOT BE DISCLAIMED UNDER APPLICABLE LAW, SUCH WARRANTIES ARE EXPRESSLY LIMITED TO THE DURATION OF THE EXPRESS WARRANTY STATED IN THIS CERTIFICATE.

Limitation of Liability:

IN NO EVENT SHALL GEM BE LIABLE TO PURCHASER OR ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, ENHANCED, PLINITIVE OR CONSEQUENTIAL DAMAGES RELATING TO OR ARISING OUT OF THE PRODUCT OR OTHERWISE (INCLUDING, WITHOUT LIMITATION, LOST REVENUE, LOST PROFITS, LOSS OF OPPORTUNITIES, LOSS OF USE, DOWN TIME, DIMINUTION IN VALUE, COST OF ALTERNATIVE TRANSPORTATION, INCONVENIENCE, COST OF LODGING, VEHICLE RENTAL EXPENSES, LABOR CHARGES, EQUIPMENT RENTAL CHARGES OR OTHER ECONOMIC LOSSES), WHETHER IN AN ACTION IN CONTRACT OR TORT (INCLUDING NEGLIGENCE). STRICT LIABILITY OR OTHERWISE, EVEN IF DEM HAS BEEN ADVISED OF THE POSSIBILITIES OF SUCH DAMAGES, FURTHER, GEM'S LIABILITY FOR ANY AND ALL WARRANTY CLAIMS HEREUNDER SHALL BE UNITED TO THE PURCHASE PRICE OF THE PRODUCT.

Specific Exclusions and Conditions

This Limited Warranty only covers defects in the following aspects of the Product.

A. Loss of ashesion of the Product resulting in rusting less than Rust Grade 5 as in ASTM D 610-08.

B. Cracking of the Paint System as set forth in ASTM D 661-93.

C. Excessive loss of gloss caused by cracking, checking, and hazing.

D. Scab corresion, and corresion under the paint film, where the point of origin is not: (a) A breach of the coating that occurred because of damage to the paint system, (b) Corrosion originating from a crevice, or (c) Dissimilar metals

E. Chemical Resistance meet ASTM D1308 standards 25 MEX double rubs.

F. Stone Chip SAE J400 Method A - 48 or above.

Dismage or Defects excluded from this United Warranty Include, but are not limited to:

1. Use of cleaning products not prescribed in the apparatus operator manual(s).

2. Exposure to corrosive agents, acid rain, chemical fallout.

3. Heavy-duty pressure washing or aggressive mechanical wash systems.

4. Paint deterioration caused by abuse, accidents, scratches, chips, or bruises.

5. Paint or coetings on the vehicle's undercarriage or interior.

6. Applied or painted graphics, reflective material or gold leaf. Paints or coatings of supplier parts including roller shutter doors.

Mechanical abrasion or external fereign object damage.

Application of, or removal of, stickers or decals including replacement.

10. Body compartment interior coatings, undercarriage and frame,

11. Defects resulting from or inherent to application such as runs, orange peel, and fisheyes.

12. Defects caused by acid rain and industrial fallout.

General Exclusions and Conditions; What This Limited Warranty Does Not Covers The Product may incorporate subsystems, assemblies, parts, components, and other items manufactured by third-party manufacturers which may include, but are not limited to, chassis, engine and emissions system, transmission, transfer case, axies, suspensions, water pumps, monitors, valves, foam systems, serial devices leach, a "Third-Party Part" and collectively, the "Third-Party Parts"), CEM does not warrant Third-Party Parts. Defects in materials and workmanship related to Third-Party Parts that carry their own warranty are subject to that warranty. OEM hereby assigns to Purchaser any assignable warranty applicable to the Third-Party Parts. The provious sentence is OEM's sole obligation with respect to Third-Party Parts.

This Limited Warranty does not apply to, and OEM shall have no responsibility or liability for, any claim, loss or damage resulting from or caused by any of the following: (a) normal wear and tear; (b) misuse, carelessness, abuse or neglect (e.g. overloading, driving over curbs or exposure to corrosi or flooded environments); (c) improper handling, storage or repeirs; (d) use of the Product other than for its intended purpose; (e) collision, fire, theft, vendalism; (f) weather, freezing, flooding, acts of God, or other casualties; (g) exposure to salt, acids, corresive agents or other damaging chemicals or materials; (h) components or systems, whether new or used, provided by Purchaser and installed at its request; (i) when the adometer or hour meter is disconnected, or its reading has been aboved, or actual mileage or hours cannot be determined; (j) improper maintenance or use including, but not limited to, failure to follow the required or recommended maintenance schedules, failure to maintain operating parameters, and failure to follow operating instructions: (ii) any Third-Party Parts; (I) additions or accessories not originally installed by OEM, including ancillary equipment used in firefighting, and any problems resulting from such additions or accessories; (m) any "aftermarket" devices installed on the Product; (n) the repair or modification of any existing part, component or subsystem originally installed by OEM without its prior express written authorization and any problems resulting from such repair or modification. Further, this Limited Warranty shall be null and void If the Product is ever leased or rented, whether or not for compensation, to another

QEM reserves the right to make changes to the Product without incoming any obligation to modify or improve previously manufactured parts or products. Further, OEM may respond to or correct any issue or complaint for which it does not otherwise have responsibility under this Limited Warranty without becoming obligated to respond to or correct any future issue or complaint of a same or similar nature, and such response or correction shall not constitute an admission of warranty coverage or impose any additional obligations on CEM.



Ten (10) Years or 100,000 Miles Plumbing and Piping (Stainless Steel)

Limited Warranty

Subject to the provisions, limitations, and exclusions set forth in this certificate, E-one, Inc. ("OEM") extends the following Limited Warranty to the Purchaser of a fire apparatus vehicle manufactured by DEM (the Apparatus"). As used herein, "Purchaser" means that person or entity which purchases and commences first commercial use of the Product for its intended purpose.

This Limited Warranty Covers:

The Apparatus's steinless steel fire suppression plumbing and piping system (the "Product") shall be free from defects in material and workmanship, under normal use and maintenance, for the warranty period described below in this certificate. Also see the Section herein entitled "Specific Exclusions and Conditions" for more details regarding the parts and components covered by this Limited Warranty.

This Limited Warranty Coverage will Begin:

The date the Product is placed into service by the Punthaser or thirty (30) days after the date of the Product invoice to the Punchaser, whichever comes first.

This Limited Warranty Coverage Ends After the First Occurrence of:

Ten (10) Years or 100,000 Miles

Who is Covered by this Limited Warranty: This Limited Warranty only applies to Purchaser and, unless required by applicable law, may not be assigned or transferred to any other person or entity without OBM's prior written authorization. This Limited Warranty is valid only in the country in which the Product is first sold.

Mow to Obtain Warranty Service: See the Operator Manual(s) for instructions on how to register the Product, to obtain warranty repair authorization and service, and to make arrangements for the Product to be transported to an OEM-authorizad service facility for warranty service. All warranty service and towing must be authorized by an OEM outsterner service representative before any warranty or towing service is performed, OEM shall not be responsible for, or reimburse Purchaser for, any costs or expenses relating to unauthorized watranty service or towing. Purchaser must notify XEM or its authorized customer service representative as soon as possible after discovery of any defect with the Product but in no event more than ten (10) days after discovery.

Exclusive Remedy: GEM will, at its option, repair or replace the Product if it is defective in materials or workmanship during the warranty period stated above and covered by this Limited Warrancy. Such repair or replacement may be performed at an OEM facility or by an OEM-authorized service facility. Any repaired or replaced Product shall be warranted only for the remainder of the warranty period applicable to the original Product. THIS PARLAGRAPH CONTAINS GEM'S SOLE GRUSATION AND PURCHASEN'S EXCLUSIVE REMEDIES FOR ANY DEFECTIVE PRODUCT COVERED BY THIS LIMITED WARRANTY.

Third Party Representations: No person or entity is authorized to create any other warranty, obligation or liability in connection with the Product, and OEM is not responsible for any representation, promise or warranty made by any person, dealer, component manufacturer, vehicle manufacturer, or other entity beyond what is expressly stated in this Limited Warranty.

Disclaimer of Other Wartanties: This limited warranty is dem's sole and exclusive warranty with respect to the product, except for the limited warranties stated in this certificate, dem makes no other express or implied representations or warranties whatsdever regarding the product including, without limitation, any warranties of merchantability, fitness for a particular purpose, or non-infringement, or any warranties of personanties arising from course of dealing or usage of trade, all of which are expressly disclaimed. There are no warranties which extend sevond the description on the face hereof. To the extent that any implied warranties may not be disclaimed under applicable law, such warranties are expressly limited to the duration of the express warranty stated in this certificate.

Limitation of Liability:

IN NO EVENT SHALL DEM BE LIABLE TO PURCHASER OR ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, ENHANCED, PUNITIVE OR CONSEQUENTIAL DAMAGES RELATING TO OR ARISING OUT OF THE PRODUCT OR OTHERWISE (INCLUDING, WITHOUT LIMITATION, LOST REVENUE, LOST PROFITS, LOSS OF OPPORTUNITIES, LOSS OF USE, DOWN TIME, DIMINUTION IN VALUE, COST OF ALTERNATIVE TRANSPORTATION, INCONVENIENCE, COST OF LODGING, VEHICLE RENTAL EXPENSES, LABOR CHARGES, EQUIPMENT RENTAL CHARGES OR OTHER ECONOMIC LOSSES), WHETHER IN AN ACTION IN CONTRACT OR TORT (INCLUDING MEGLIGENCE), STRICT LIABILITY OR "THERMSE, EVEN IF ORM HAS BEEN ADVISED OF THE POSSIBILITIES OF SUCH DAMAGES, FURTHER, JEM'S LIABILITY FOR ANY AND ALL WARRANTY CLAIMS HERELINDER SHALL BE LIMITED TO THE PURCHASE PRICE OF THE PRODUCT.

Specific Enclusions and Conditions

This Limited Warranty only covers defects in the material and workmanship of the stainless steel fire suppression pipes and associated joints for intake and discharge lines of the Product. Parts, components and subsystems excluded from this Limited Warranty include, but are not limited to, the exterior coatings, electrical system, pump and pump accessories, valves, monitors, light towers, generators, gauges, hoses, trim parts, fasteners or hardware.

Seneral Exclusions and Conditions; What This Limited Warranty Does Not Cover:

The Product may incorporate subsystems, assemblies, parts, components, and other items manufactured by third-party manufacturers which may include, but are not limited to, chassis, engine and emissions system, transmission, transfer case, axies, suspensions, water pumps, monitors, valves, foam systems, serial devices (each, a "Third-Party Part" and collectively, the "Third-Party Parts"). OEM does not warrant Third-Party Parts. Defects in materials and workmanship related to Third-Party Parts that carry their own warranty are subject to that warranty. OEM hereby assigns to Punchaser any assignable warranty applicable to the Third-Party Parts. The previous sentence is OEM's sole obligation with respect to Third-Party Parts.

This Limited Warranty does not apply to, and OEM shall have no responsibility or liability for, any claim, loss or damage resulting from or caused by any of the following: (a) normal wear and tear; (b) misuse, carelessness, abuse or neglect (e.g. overloading, driving over curbs or exposure to corrosive or flooded environments); (c) improper handling, storage or repairs; (d) use of the Product other than for its intended purpose; (e) collision, fire, theft, vandalism; (f) weather, freezing, flooding, acts of God, or other casualties; (g) exposure to salt, acids, corrosive agents or other damaging chemicals or materials; (h) components or systems, whether new or used, provided by Purchaser and installed at its request; (i) when the odometer or hour meter is disconnected, or its reading has been altered, or ectual mileage or hours cannot be determined; (i) improper maintenance or use including, but not limited to, failure to follow the required or recommended maintenance schedules, failure to maintain operating parameters, and failure to follow operating instructions; (k) any Third-Party Parts; (l) additions or accessories not originally installed by OEM, including ancillary equipment used in firefighting, and any problems resulting from such additions or accessories; (m) any "aftermarket" devices installed on the Product; (n) the repair or modification of any existing part, component or subsystem originally installed by OEM without its prior express written authorization and any problems resulting from such repair or modification. Further, this Limited Warranty shall be null and void if the Product is ever leased or rented, whether or not for compensation, to another person or entity.

Miscellaneous Terms:

OEM reserves the right to make changes to the Product without incurring any obligation to modify or improve previously manufactured parts or products. Further, OEM may respond to or correct any issue or complaint for which it does not otherwise have responsibility under this Limited Warranty without becoming obligated to respond to or correct any future issue or complaint of a same or similar nature, and such response or correction shall not construte an admission of warranty coverage or impose any additional obligations on OEM.



Twelve (12) Years

Paint and Finish (Exterior FRP Panels)

Limited Warranty

Subject to the provisions, limitations, and exclusions set forth in this certificate, E-one, Inc. ("OEM") extends the following Limited Warranty to the Purchaser of a fire apparatus vehicle manufactured by OEM (the Apparatus"). As used herein, "Purchaser" means that person or entity which purchases and commences first commercial use of the Product for its intended purpose.

This Limited Warranty Covers:

The Apparatus's OEM-applied exterior coating and finishing system (the "Product") shall be free from the paint system adhesion defects listed in the Section herein entitled "Specific Exclusions and Conditions", under normal use and maintenance, for the warranty period described in this certificate.

If the Product is manufactured using a chassis provided by a Third-Party Parts manufacturer (i.e. a commercial chassis), this Limited Warranty shall not apply to the chassis. Instead, the Product's chassis will be covered by, and subject to, a separate limited warranty provided by that Third-Party Parts manufacturer. In addition, also see the Section herein entitled "Specific Exclusions and Conditions" for more details regarding this Limited Warranty.

This Limited Warranty Coverage will Begin

The date the Product is placed into service by the Purchaser or thirty (30) days after the date of the Product invoice to the Purchaser, whichever comes first,

This Limited Warranty Coverage Ends After the First Occurrence of:

Dwelve (12) Years

Who is Covered by this Limited Warranty: This Limited Warranty only applies to Punchaser and, unless required by applicable law, may not be assigned or transferred to any other person or entity without OEM's prior written authorization. This Limited Warranty is valid only in the country in which the Product is first sold.

How to Obtain Warranty Service: See the Operator Manual(s) for instructions on how to register the Product, to obtain warranty repair authorization and service, and to make arrangements for the Product to be transported to an OEM-authorized service facility for warranty service, All warranty service and towing must be authorized by an DEM customer service representative before any warranty or towing service is performed. OEM shall not be responsible for, or reimburse Punthaser for, any costs or expenses relating to unauthorized warranty service or towing. Purchaser must notify OEM or its authorized customer service representative as soon as possible after discovery of any defect with the Product but in no event more than ten (10) days after discovery.

Exclusive Remedy: OEM will, at its option, repair or replace the Product if it is defective in materials or workmanship during the warranty period stated above and covered by this Limited Warranty. Such repair or replacement may be performed at an OEM facility or by an OEM-authorized service facility. Any repaired or replaced Product shall be warranted only for the remainder of the warranty period applicable to the original Product. THIS PARAGRAPH CONTAINS DEM'S SOLE DBLIGATION AND PURCHASER'S EXCLUSIVE REMEDIES FOR ANY DEFECTIVE PRODUCT COVERED BY THIS LIMITED WARRANTY.

Third Party Representations: No person or entity is authorized to create any other warranty, obligation or Sability in connection with the Product, and OEM is not responsible for any representation, promise or warranty made by any person, dealer, component manufacturer, vehicle manufacturer, or other entity beyond what is expressly stated in this Limited Warranty.

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Umitation of Liability

IN NO EVENT SHALL DEM BE LIABLE TO PURCHASER OR ANY THIRD PARTY FOR ANY INDIRECT. INCIDENTAL SPECIAL, EXEMPLARY, ENHANCED, PUNITIVE OR CONSEQUENTIAL DAMAGES RELATING TO OR ARISING OUT OF THE PRODUCT OR OTHERWISE (INCLUDING, WITHOUT LIMITATION, LOST REVENUE, LOST PROFITS, LOSS OF OPPORTUNITIES, LOSS OF USE, DOWN TIME, DIMINUTION IN VALUE, COST OF ALTERNATIVE TRANSPORTATION, INCONVENIENCE, COST OF LOGGING, VEHICLE RENTAL EXPENSES, LABOR CHARGES, EQUIPMENT RENTAL CHARGES OR OTHER ECONOMIC LOSSES), WHETHER IN AN ACTION IN CONTRACT OR TORT (INCLUDING NEGLIGENCE). STRICT LIABILITY OR OTHERWISE, EVEN IF DEM HAS BEEN ADVISED OF THE POSSIBILITIES OF SUCH DAMAGES, FURTHER, OEM'S LIABILITY FOR ANY AND ALL WARRANTY CLAIMS HEREUNDER SHALL BE LIMITED TO THE PURCHASE PRICE OF THE PRODUCT.

Specific Exclusions and Conditions
This Limited Warranty only covers defects in the following aspects of the Product:

- A. Loss of adhesion of the Product resulting in rusting less than Rust Grade 5 as in ASTM D 610-08.
- R. Cracking of the Paint System as set forth in ASTM D 661-03.
- C. Excessive loss of gloss caused by cracking, checking, and hacing.
- D. Scab corresion, and corresion under the paint film, where the point of origin is not: (a) A breach of the coating that occurred because of damage to the paint system, (b) Corrosion originating from a crevice, or (c) Dissimilar metals
- E. Chemical Resistance meet ASTM D1308 standards 25 MEX double rubs
- F. Stone Chip SAE J400 Method A 48 or above.
- amage or Defects excluded from this Limited Warranty include, but are not limited to:
- Use of cleaning products not prescribed in the apparatus operator manual(s).
- 2. Exposure to corrosive agents, acid rain, chemical fallout,
- 3. Heavy-duty pressure washing or aggressive mechanical wash sys
- Paint deterioration caused by abuse, accidents, scratches, chips, or bruises.
- 5. Paint or coatings on the vehicle's undercarriage or interior
- 6. Applied or painted graphics, reflective material or gold leaf.
- 7. Paints or coatings of supplier parts including roller shutter doors.
- 8. Mechanical abrasion or external foreign object damage.
- 9. Application of, or removal of, stickers or decals including replacement.
- 10. Body compartment interior coatings, undercarriage and frame.
- 11. Defects resulting from or inherent to application such as runs, orange peel, and fisheyes.
- 12. Defects caused by acid rain and industrial fallout.

As a condition to maintaining this Limited Warranty, the Apparatus must be inspected by an OEM authorized representative on a three, five, seven and ten year basis. The inspection report must ocument completely the condition of the painted surfaces and be submitted to the OEM Narranty department by no later than 45 days after each inspection, it is Purphaser's sole esponsibility to arrange for each paint inspection. If an inspection report is not submitted within 45 days after the required inspection date, this Limited Warranty will be null and void, and the OEM's andard prorated paint Limited Warranty shall apply.

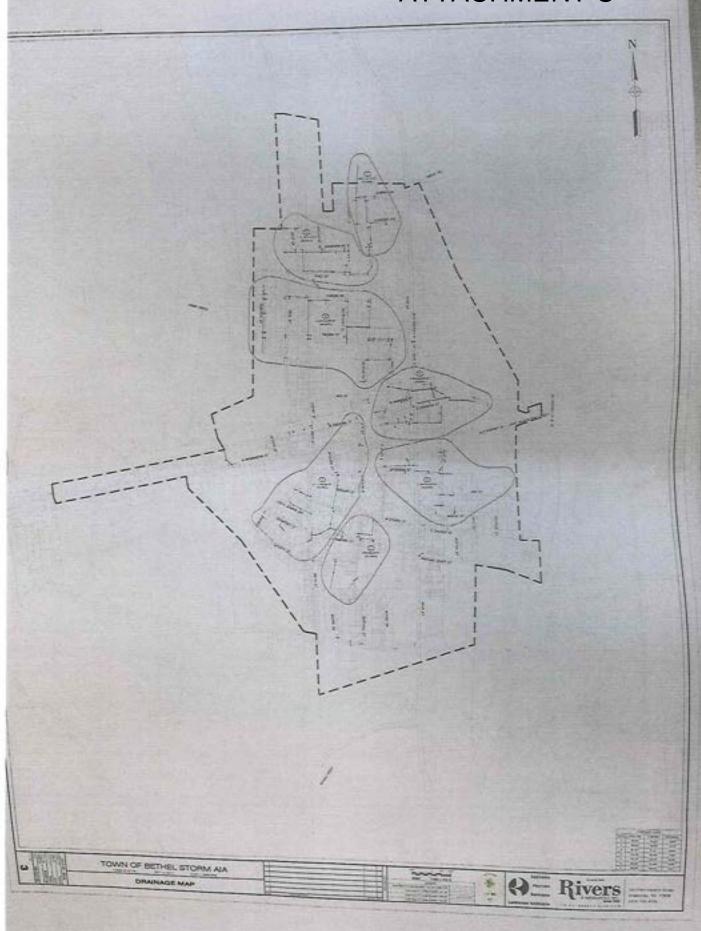
General Exclusions and Conditions; What This Limited Warranty Does Not Cover The Product may incorporate subsystems, assemblies, parts, components, and other items manufactured by third-party manufacturers which may include, but are not limited to, chassis, engine and emissions system, transmission, transfer case, axies, suspensions, water pumps, monitors, valves, foam systems, serial devices (each, a "Third-Party Part" and collectively, the "Third-Party Parts"). OEM does not warrant Third-Party Parts. Defects in materials and workmanship related to Third-Party Parts that carry their own warranty are subject to that warranty. QEM hereby assigns to Purchaser any assignable warranty applicable to the Third-Party Parts. The previous sentence is OEM's sole obligation with respect to Third-Party Parts.

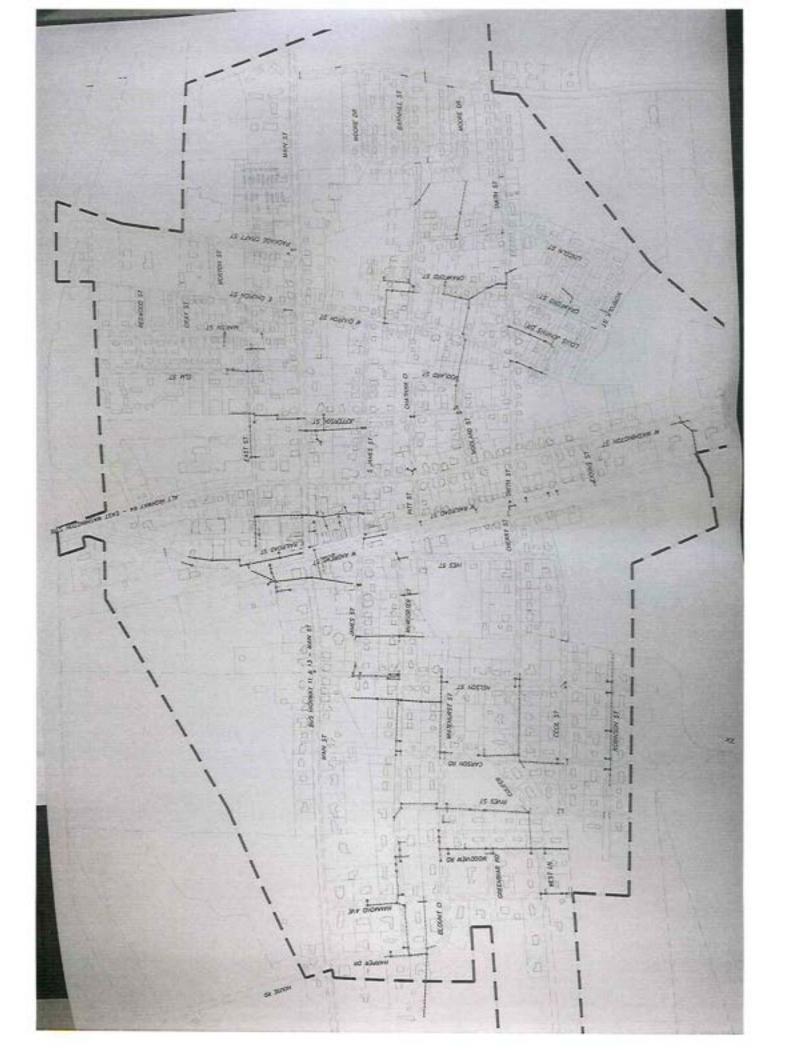
This Limited Warranty does not apply to, and OEM shall have no responsibility or liability for, any claim, loss or damage resulting from or caused by any of the following: (a) normal wear and tear; (b) micuse, carelessness, abuse or neglect (e.g. overloading, driving over curbs or exposure to corresive or flooded environments); (c) improper handling, storage or repairs; (d) use of the Product other than for its intended purpose; (e) collision, fire, theft, vandalism; (f) weather, freezing, flooring, acts of God, or other casualties; (g) exposure to salt, acids, corrosive agents or other damaging chemicals or materials; (h) components or systems, whether new or used, provided by Purchaser and installed at its request; (i) when the odometer or hour meter is disconnected, or its reading has been altered. or actual mileage or hours cannot be determined; (i) improper maintenance or use including, but not limited to, failure to follow the required or recommended maintenance schedules, failure to maintain operating parameters, and failure to follow operating instructions; (k) any Third-Party Parts; (i) additions or accessories not originally installed by OBM, including ancillary equipment used in fireflighting, and any problems resulting from such additions or accessories; [m] any "aftermarket" devices installed on the Product; (n) the repair or modification of any existing part, component or subsystem originally installed by OEM without its prior express written authorization and any problems resulting from such repair or modification. Further, this Limited Warranty shall be null and void if the Product is ever leased or rented, whether or not for compensation, to another person or entity.

Miscellaneous Terms:

GEM reserves the right to make changes to the Product without incurring any obligation to modify or improve previously manufactured parts or products. Further, OEM may respond to or correct any issue or complaint for which it does not otherwise have responsibility under this Limited Warranty without becoming obligated to respond to or correct any future issue or complaint of a same or similar nature, and such response or correction shall not constitute an admission of warrancy coverage or impose any additional obligations on OEM.

ATTACHMENT C







Town of Bethel Stormwater Asset Inventory & Assessment Project







Project Scope and Purpose

Stormwater AIA

- GPS/GIS Survey
- Asset Inventory
- Condition Assessment
- Hydrologic / Hydraulic Evaluation
- Preliminary Improvements/Design
- Cost Estimating
- Funding Assistance (if necessary)





Original Proposed Project Schedule

ESA executed in late November 2024

Projected Project Schedule												
PROJECT GENERAL TASKS MONTH	1	2	3	4	5	6	7	8	9	10	11	12
GPS Survey / GIS Mapping Phase												
Condition Assessment & System Analysis Phase												
Asset Assessment & Capital Improvement Plan (CIP) Phase												
Stormwater Asset Management Plan (SWAMP) Phase							7				IV.	
Project Close-out												







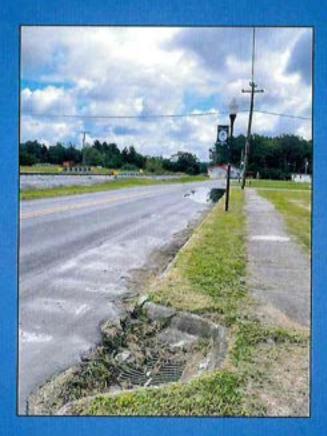














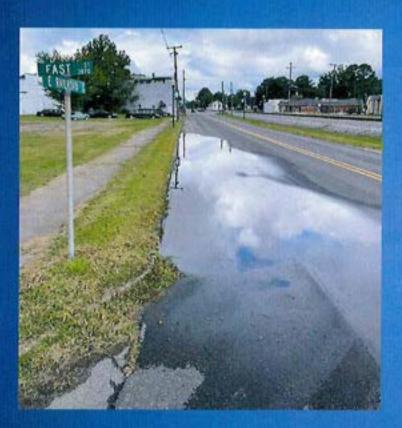








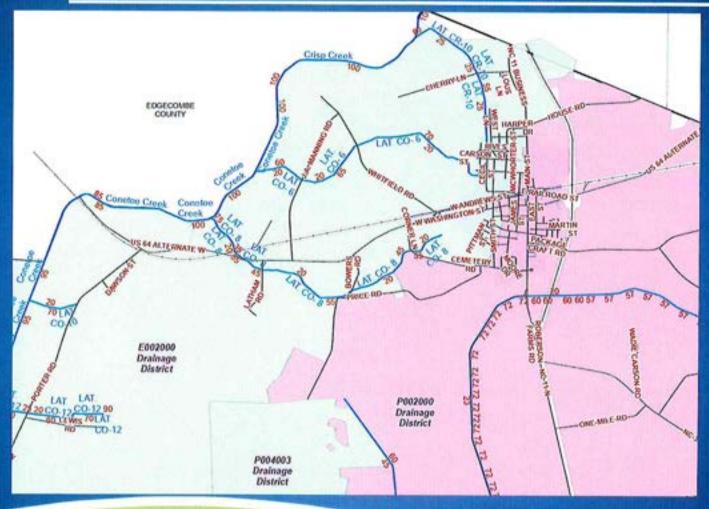




VS.











Current Situation

- Seven (7) primary drainage basins
- Older system with pipes installed in roadside ditches/swales
- 12" vs. 15" pipes (1.56 capacity)
- Minimum grade of 0.5% (1/200) (only 2/7 basins)
- "Rule of Thumb" 10-yr storm design minimums and function (attenuate water in roadway)





Current Situation

Pipe	Pipe	Percentage
Diameters (in.)	Length (ft.)	of System
12" or Smaller	10,979.05	40.70%
15"-18"	10,309.97	38.22%
24"-30"	5,380.20	19.94%
36"-48"	306.42	1.14%
Total of System (ft.)	26,975.65	

1,800 LF of <12"





- Undersized pipes
- Not at minimum grades
- Pine Straw on grates
- Grass clippings and sediment in pipes (diminished capacity)
- Off-set inlet location (anticipated curb/gutter)
- Downstream ditch elevations
- Obstructions (vegetation, beavers, etc)

















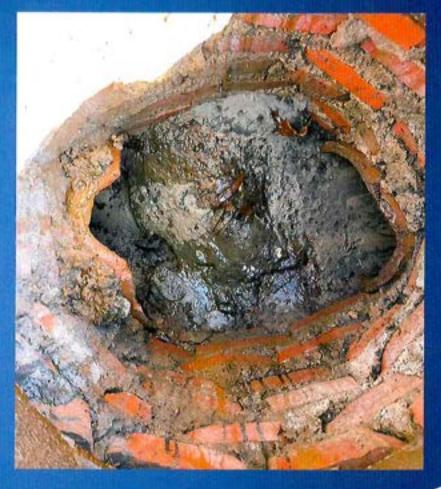
















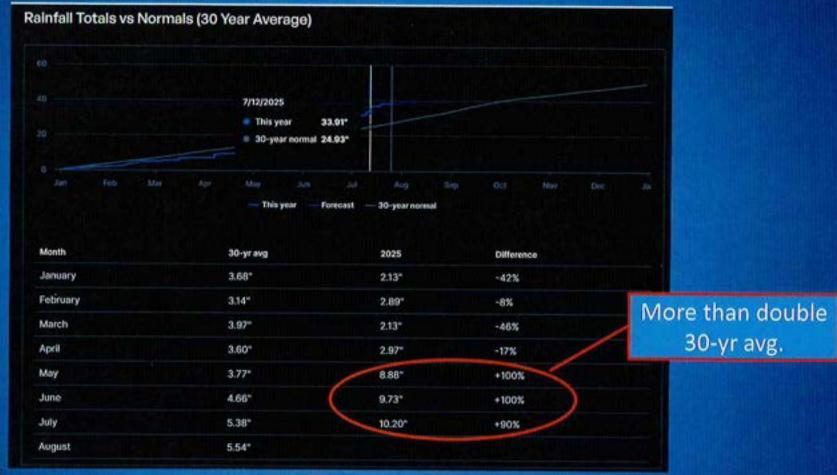








July 13, 2025 Rain Event







July 13, 2025 Rain Event

- 3"-4" in one hour
- Saturated Soils
- Full ditches/canals (diminished pipe capacity due to sediment)
- 10-yr storm event intensity
- Double the 30-yr average rainfall in May, June and July.
- 6" of rain in 4-day period, with 3"-4" falling in one hour



July 13, 2025 Rain Event







Potential Solutions



- Cleaning Outfall Ditches/Canals
 - Coordination between Town, Drainage District/County, NCDOT
- Cleaning of pipe network (initial cleaning and continued maintenance) by contractor
 - Cleaning at most beneficial time of year (Spring)
 - \$2 \$5 per LF depending on pipe size and severity of debris (@ \$100k)
- Pipe rehabilitation, replacement, and/or upsizing
- Typically work from downstream to upstream
- Street sweeping of curb/gutter areas





Funding \$

- Currently no appropriated funding in budget for Fall 2025
- Major focus on Western NC
- Possible DWI Spring 2026 Round
- General Assembly Special Appropriation request
- Stormwater is a "utility" and can have rates/fees per NC General Statutes
- UNC School of Govt. Utility Rate Dashboard (https://efc.sog.unc.edu/nc-stormwater-dashboard/)





Next Steps

- Preliminary Improvements/"Design"
- Cost Estimating
- SW Asset Mgmt. Plan / Capital Imp. Plan
- Funding Assistance (if desired)







Questions













ATTACHMENT D

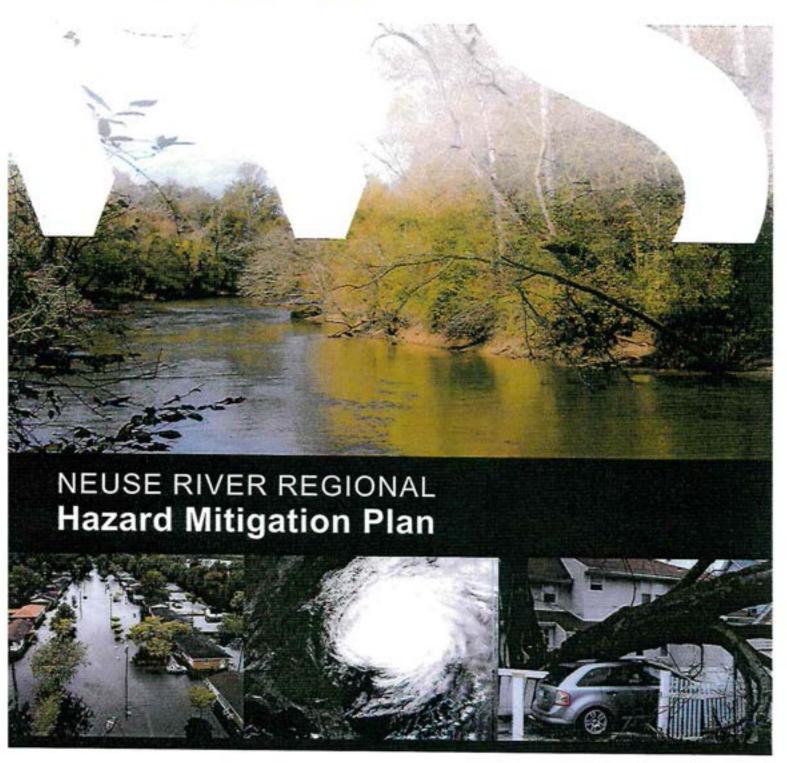






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1 INTRODUCTION

Section 1 provides a general introduction to hazard mitigation and an introduction to the Neuse River Regional Hazard Mitigation Plan. This section contains the following subsections:

- 1.1 Background
- 1.2 Purpose and Authority
- 1.3 Scope
- 1.4 References
- 1.5 Plan Organization

1.1 BACKGROUND

This document comprises a Hazard Mitigation Plan for the Neuse River Region of North Carolina.

Each year in the United States, natural and human-caused hazards take the lives of hundreds of people and injure thousands more. Nationwide, taxpayers pay billions of dollars annually to help communities, organizations, businesses, and individuals recover from disasters. These monies only partially reflect the true cost of disasters because additional expenses incurred by insurance companies and non-governmental organizations are not reimbursed by tax dollars. Many natural hazards are predictable, and much of the damage caused by hazard events can be reduced or even eliminated.

Hazards are a natural part of the environment that will inevitably continue to occur, but there is much we can do to minimize their impacts on our communities and prevent them from resulting in disasters. Every community faces different hazards, has different resources to draw upon in combating problems, and has different interests that influence the solutions to those problems. Because there are many ways to deal with hazards and many agencies that can help, there is no one solution for managing or mitigating their effects. Planning is one of the best ways to develop a customized program that will mitigate the impacts of hazards while accounting for the unique character of a community.

A well-prepared hazard mitigation plan will ensure that all possible activities are reviewed and implemented so that the problem is addressed by the most appropriate and efficient solutions. It can also coordinate activities with each other and with other goals and activities, preventing conflicts and reducing the costs of implementing each individual activity. This plan provides a framework for all interested parties to work together toward mitigation. It establishes the vision and guiding principles for reducing hazard risk and proposes specific mitigation actions to reduce identified vulnerabilities.

In an effort to reduce the nation's mounting natural disaster losses, the U.S. Congress passed the Disaster Mitigation Act of 2000 (DMA 2000) to invoke new and revitalized approaches to mitigation planning. Section 322 of DMA 2000 emphasizes the need for state and local government entities to closely coordinate on mitigation planning activities and makes the development of a hazard mitigation plan a specific eligibility requirement for any local government applying for federal mitigation grant funds. These funds include the Hazard Mitigation Grant Program (HMGP), the Building Resilient Infrastructure & Communities (BRIC) program, and the Flood Mitigation Assistance (FMA) Program, all of which are administered by the Federal Emergency Management Agency (FEMA) under the Department of Homeland Security. Communities with an adopted and federally approved hazard mitigation plan thereby become pre-positioned and more apt to receive available mitigation funds before and after the next disaster strikes.

This plan was prepared in coordination with FEMA Region 4 and the North Carolina Division of Emergency Management (NCEM) to ensure that it meets all applicable federal and state planning requirements. A Local Mitigation Plan Review Tool, found in Appendix A, provides a summary of FEMA's current minimum standards of acceptability and notes the location within this plan where each planning requirement is met.

1.2 PURPOSE AND AUTHORITY

This plan was developed in a joint and cooperative manner by members of a Hazard Mitigation Planning Committee (HMPC) which included representatives of County, City, and Town departments, federal and state agencies, citizens, and stakeholders. This plan will ensure all jurisdictions in the Neuse River Region remain eligible for federal disaster assistance including FEMA HMGP, BRIC, and FMA programs.

This plan has been prepared in coordination with FEMA Region 4 and NCEM and in compliance with Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act), 42 U.S.C. 5165, enacted under Section 104 of the Disaster Mitigation Act of 2000, (DMA 2000) Public Law 106-390 of October 30, 2000, as implemented at CFR 201.6 and 201.7 dated October 2007. Additionally, this plan will be monitored and updated on a routine basis to comply with the above legislation and with the National Flood Insurance Act of 1968, as amended by 42 U.S.C. 4001 et seq, and North Carolina General Statutes, Chapter 166A: North Carolina Emergency Management Act, as amended by Senate Bill 300: An Act to Amend the Laws Regarding Emergency Management as Recommended by the Legislative Disaster Response and Recovery Commission (2001).

This plan will be adopted by each participating jurisdiction in accordance with standard local procedures under the authority and police powers granted to counties as defined by the State of North Carolina (N.C.G.S., Chapter 153A) and the authority granted to cities and towns as defined by the State of North Carolina (N.C.G.S., Chapter 160A). Copies of adoption resolutions are provided in Section 9 Plan Adoption.

1.3 SCOPE

This document comprises a Regional Hazard Mitigation Plan for the Neuse River Region. The planning areas includes all incorporated municipalities and unincorporated areas listed in Table 1.1.

Table 1.1 - Participating Jurisdictions in the Neuse River Regional Hazard Mitigation Plan

Greene County	- AVAI -
Hookerton	Snow Hill
Waistonburg	
Jones County	
Maysville	Pollocksville
Trenton	
Lenoir County	
Kinston	La Grange
Pink Hill	
Pitt County	
Ayden	Bethel
Falkland	Farmville
Fountain	Greenville

Grifton	Grimesland
Simpson	Winterville
Wayne County	
Eureka	Fremont
Goldsboro	Mount Olive
Pikeville	Seven Springs
Walnut Creek	

The focus of this plan is on those hazards deemed "high" or "moderate" priority hazards for the planning area, as determined through the risk and vulnerability assessments. Lower priority hazards will continue to be evaluated but will not necessarily be prioritized for mitigation in the action plan.

The Neuse River Region followed the planning process prescribed by FEMA, and this plan was developed under the guidance of an HMPC comprised of representatives of County, City, and Town departments; citizens; and other stakeholders. The HMPC conducted a risk assessment that identified and profiled hazards that pose a risk to the planning area, assessed the planning area's vulnerability to these hazards, and examined each participating jurisdiction's capabilities in place to mitigate them. The hazards profiled in this plan include:

- Dam Failure
- Drought
- Earthquake
- Excessive Heat
- Flooding
- Hurricane & Coastal Hazards
- Severe Winter Weather
- Tornado & Thunderstorm
- Wildfire

1.4 REFERENCES

The following FEMA guides and reference documents were used to prepare this document:

- FEMA 386-1: Getting Started: Building Support for Mitigation Planning. September 2002.
- FEMA 386-2: Understanding Your Risks: Identifying Hazards and Estimating Losses. August 2001.
- FEMA 386-3: Developing the Mitigation Plan. April 2003.
- FEMA 386-4: Bringing the Plan to Life. August 2003.
- FEMA 386-5: Using Benefit-Cost Review in Mitigation Planning. May 2007.
- FEMA 386-6: Integrating Historic Property and Cultural Resource Considerations into Hazard Mitigation Planning. May 2005.
- FEMA 386-7: Integrating Manmade Hazards into Mitigation Planning. September 2003.
- FEMA 386-8: Multijurisdictional Mitigation Planning. August 2006.
- FEMA 386-9: Using the Hazard Mitigation Plan to Prepare Successful Mitigation Projects. August 2008.
- FEMA. Local Mitigation Plan Review Guide. October 1, 2011.
- FEMA National Fire Incident Reporting System 5.0: Complete Reference Guide. January 2008.
- FEMA. Integrating Hazard Mitigation into Local Planning: Case Studies and Tools for Community Officials. March 1, 2013.

- FEMA Hazard Mitigation Assistance Program and Policy Guide. July 30, 2024.
- FEMA. Integrating Hazard Mitigation into Local Planning: Case Studies and Tools for Community Officials. March 1, 2013.
- FEMA. Mitigation Ideas. A Resource for Reducing Risk to Natural Hazards. January 2013.
- FEMA. FP 206-21-0002. Local Mitigation Planning Policy Guide. April 19, 2023.
- FEMA. Local Mitigation Planning Handbook. May 2023.

Additional sources used in the development of this plan, including data compiled for the Hazard Identification and Risk Assessment, are listed in Appendix D.

1.5 PLAN ORGANIZATION

The Neuse River Regional Hazard Mitigation Plan is organized into the following sections:

- Section 1: Introduction
- Section 2: Planning Process
- Section 3: Planning Area Profile
- Section 4: Risk Assessment
- Section 5: Capability Assessment
- Section 6: Mitigation Strategy
- Section 7: Mitigation Action Plans
- Section 8: Plan Maintenance
- Section 9: Plan Adoption
- Appendix A: Local Plan Review Tool
- Appendix B: Planning Process Documentation
- Appendix C: Mitigation Alternatives
- Appendix D: References

2 PLANNING PROCESS

Requirement \$201.6(b): An open public involvement process is essential to the development of an effective plan. To develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include:

- 1) An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;
- 2) An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia, and other private and nonprofit interests to be involved in the planning process; and
- Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.
 Requirement \$201.6(c)(1): The plan shall include the following:
- Documentation of the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.

This section provides a review of the planning process followed for the development of the Neuse River Regional Hazard Mitigation Plan. It consists of the following sub-sections:

- 2.1 Purpose and Vision
- 2.2 What's Changed in the Plan
- 2.3 Preparing the Plan
- 2.4 Hazard Mitigation Planning Committee
- 2.5 Meetings and Workshops
- 2.6 Involving the Public
- 2.7 Outreach Efforts
- 2.8 Involving the Stakeholders
- 2.9 Documentation of Plan Progress

2.1 PURPOSE AND VISION

As defined by FEMA, "hazard mitigation" means any sustained action taken to reduce or eliminate the long-term risk to life and property from a hazard event. Hazard mitigation planning is the process through which hazards are identified, likely impacts determined, mitigation goals set, and appropriate mitigation strategies determined, prioritized, and implemented.

The purpose of the Neuse River Regional Hazard Mitigation Plan is to identify, assess, and mitigate hazard risk to better protect the people and property within the Region from the effects of natural and human-caused hazards. This plan documents progress on existing hazard mitigation planning efforts, updates the previous plan to reflect current conditions in the Region including relevant hazards and vulnerabilities, increases public education and awareness about the plan and planning process, maintains grant eligibility for participating jurisdictions, maintains compliance with state and federal requirements for local hazard mitigation plans, and identifies and outlines strategies the Region's participating jurisdictions will use to decrease vulnerability and increase resiliency.

During the development of the 2020 Neuse River Regional Hazard Mitigation Plan, the Hazard Mitigation Planning Committee (HMPC) met to discuss their vision for the Region in terms of what the successful implementation of the plan would achieve, what outcomes the plan would generate, and what

the Region will look like in five years. This vision statement, presented below, remains relevant to define and guide the planning process for this plan update and the region's approach to hazard mitigation.

Using a coordinated and multi-disciplinary hazard mitigation approach, protect life, property, and the environment through coordination and cooperation among public and private partners in order to reduce risk/loss and enhance the quality of life for citizens throughout the Neuse River Region.

2.2 WHAT'S CHANGED IN THE PLAN

This plan is an update to the 2020 Neuse River Basin Regional Hazard Mitigation Plan, which included participation from all jurisdictions involved in this plan update: Greene, Jones, Lenoir, Pitt, and Wayne Counties. The previous plan was approved by FEMA on June 16, 2020.

This hazard mitigation plan update involved a comprehensive review and update of each section of the existing plan and an assessment of the success of the Counties and participating municipalities in evaluating, monitoring and implementing the mitigation strategy outlined in their existing plans. Only the information and data still valid from the existing plans was carried forward as applicable into this update. The following requirements were addressed during the development of this regional plan:

- Consider changes in vulnerability due to action implementation;
- Document success stories where mitigation efforts have proven effective;
- Document areas where mitigation actions were not effective;
- Document any new hazards that may arise or were previously overlooked;
- Incorporate new data or studies on hazards and risks;
- Incorporate new capabilities or changes in capabilities;
- Incorporate growth and development-related changes to inventories; and
- Incorporate new action recommendations or changes in action prioritization.

Section 4.2 provides a comparison of the hazards addressed in the 2023 State of North Carolina Hazard Mitigation Plan and the 2020 Neuse River Basin Regional Plan and provides the final decision made by the HMPC as to which hazards should be included in this 2025 plan update.

In addition to the specific changes in hazard analyses identified in Section 4.2, the following items were also addressed in this 2025 plan update:

- GIS was used, to the extent data allowed, to analyze the priority hazards as part of the vulnerability assessment.
- Assets at risk to identified hazards were identified by property type and values of properties based on North Carolina Emergency Management's IRISK Database.
- A discussion on climate change and its projected effect on specific hazards was included in each hazard profile in the risk assessment.
- The discussion on growth and development trends was enhanced utilizing 2022 American Community Survey data.
- An effort was made to provide underserved communities and vulnerable populations with opportunities to participate in and contribute to the plan update process. Engagement opportunities were provided through the public survey, the plan website, and stakeholder coordination.

 Enhanced public outreach and agency coordination efforts were conducted throughout the plan update process in order to meet the more rigorous requirements of the 2017 CRS Coordinator's Manual, in addition to DMA requirements.

2.3 PREPARING THE PLAN

The planning process for preparing the Neuse River Regional Hazard Mitigation Plan was based on DMA planning requirements and FEMA's associated guidance. This guidance is structured around a four-phase process:

- 1 Planning Process;
- 2 Risk Assessment;
- 3 Mitigation Strategy; and
- 4 Plan Maintenance.

Into this process, the planning consultant integrated a more detailed 10-step planning process used for FEMA's Community Rating System (CRS) and Flood Mitigation Assistance (FMA) programs. Thus, the modified 10-step process used for this plan meets the requirements of six major programs: FEMA's Hazard Mitigation Grant Program (HMGP); Building Resilient Infrastructure & Communities (BRIC) Program; CRS Program; FMA Program; Severe Repetitive Loss Program; and new flood control projects authorized by the U.S. Army Corps of Engineers.

Table 2.1 shows how the 10-step CRS planning process aligns with the four phases of hazard mitigation planning pursuant to the Disaster Mitigation Act of 2000.

Table 2.1 - Mitigation Planning and CRS 10-Step Process Reference Table

DMA Process	CRS Process
Phase I - Planning Process	
§201.6(c)(1)	Step 1. Organize to Prepare the Plan
§201.6(b)(1)	Step 2. Involve the Public
§201.6(b)(2) & (3)	Step 3. Coordinate
Phase II - Risk Assessment	
§2.01.6(c)(2)(i)	Step 4. Assess the Hazard
§201.6(c)(2)(ii) & (iii)	Step 5. Assess the Problem
Phase III - Mitigation Strategy	
§201.6(c)(3)(i)	Step 6. Set Goals
§201.6(c)(3)(ii)	Step 7. Review Possible Activities
§201.6(c)(3)(iii)	Step 8. Draft an Action Plan
Phase IV - Plan Maintenance	
§201.6(c)(5)	Step 9. Adopt the Plan
§201.6(c)(4)	Step 10. Implement, Evaluate and Revise the Plan

In addition to meeting DMA and CRS requirements, this plan also meets the recommended steps for developing a Community Wildfire Protection Plan (CWPP). Table 2.2 below outlines the recommended CWPP process and the CRS step and sections of this plan that meet each step.

Table 2.2 - Community Wildfire Protection Plan Process Reference

CWPP Process	CRS Step	Fulfilling Plan Section		
Convene decision makers		Section 2 - HMPC		
Involve Federal agencies	Step 3	Section 2 - Involving Stakeholders		

CWPP Process	CRS Step	Fulfilling Plan Section
Engage interested parties (such as community representatives)	Step 1, 2, and 3	Section 2 - HMPC, Involving the Public, Involving Stakeholders
Establish a community base map		Section 4 - Wildfire
Develop a community risk assessment, including fuel hazards, risk of wildfire occurrence, homes, business and essential infrastructure at risk, other community values at risk, local preparedness, and firefighting capability	Step 4 and 5	Section 4 - Wildfire Section 5 - Capability
Establish community hazard reduction priorities and recommendations to reduce structural ignitability	Step 6, 7, and 8	Section 6 - Mitigation Strategy Section 7 - Mitigation Action Plans
Develop an action plan and assessment strategy	Step 8 and 10	Section 7 - Mitigation Action Plans Section 8 - Plan Maintenance
Finalize the CWPP	Step 9	Section 9 - Plan Adoption

The process followed for the preparation of this plan, as outlined in Table 2.1 above, is as follows:

2.3.1 PHASE I - PLANNING PROCESS

Planning Step 1: Organize to Prepare the Plan

With the Region's commitment to participate in the DMA planning process, community officials worked to establish the framework and organization for development of the plan. An initial meeting was held with key community representatives to discuss the organizational aspects of the plan development process. The County Emergency Managers and Planning Directors led each County's effort to reorganize and coordinate for the plan update. Consultants from WSP, ESP, and Insight Planning & Development assisted by leading the Region through the planning process and preparing the plan document.

Planning Step 2: Involve the Public

Public involvement in the development of the plan was sought using various methods, as detailed in Section 2.6.

Planning Step 3: Coordinate

The HMPC formed for development of the 2020 Neuse River Regional Hazard Mitigation Plan was reconvened for this plan update. Membership was updated where necessary to ensure each community had adequate representation from staff and stakeholders. More details on the HMPC are provided in Section 2.4. Stakeholder coordination was incorporated into the formation of the HMPC and was also sought through additional outreach methods. These efforts are detailed in Section 2.8 and documentation of additional stakeholder outreach is provided in Appendix B.

Coordination with Other Community Planning Efforts and Hazard Mitigation Activities

In addition to stakeholder involvement, coordination with other community planning efforts was also seen as paramount to the success of this plan. Mitigation planning involves identifying existing policies, tools, and actions that will reduce a community's risk and vulnerability to hazards. Communities in the Neuse River Region use a variety of planning mechanisms, such as comprehensive plans, subdivision regulations, building codes, and ordinances to guide growth and development. Integrating existing planning efforts, mitigation policies, and action strategies into this plan establishes a credible and comprehensive plan that ties into and supports other community programs. As detailed in Table 2.3, the development of this plan incorporated information from existing plans, studies, reports, and initiatives as well as other relevant data from neighboring communities and other jurisdictions.

These and other documents were reviewed and considered, as appropriate, during the collection of data to support the planning process and plan development. Data from these sources was incorporated into the risk and vulnerability assessment and was used in determining the capability of each jurisdiction to implement certain mitigation strategies. The Risk Assessment is presented in Section 4 and the Capability Assessment can be found in Section 5.

Table 2.3 - Summary of Existing Studies and Plans Reviewed

Resource Referenced	Use in this Plan
Local Comprehensive Plans	Where available, each community's comprehensive plan was referenced to develop the Planning Area Profile in Section 3, with future land use maps and descriptions incorporated into community annexes. Local land use and comprehensive plans were also used to develop Mitigation Action Plans in Section 7 and were referenced in the Capability Assessment in Section 5.
Local Ordinances (Flood Damage Prevention Ordinances, Subdivision Ordinances, Zoning Ordinances, etc)	Local ordinances were referenced in the Capability Assessment in Section 5 and where applicable for updates or enforcement in Mitigation Action Plans in Section 7.
Greene, Jones, Lenoir, Pitt and Wayne Counties and Incorporated Areas Flood Insurance Study (FIS) Reports	FIS reports were referenced in the preparation of the flood hazard profile in Section 4.
Neuse River Basin Regional Hazard Mitigation Plan, 2020	The previous plan was referenced in compiling the Hazard Identification and Risk Assessment in Section 4 and in reporting on implementation status and developing the Mitigation Action Plans in Section 2 and Section 7, respectively.
Eastern Carolina Regional Resilience Portfolio; Mid-East Regional Resilience Portfolio	These plans were referenced in the Capability Assessment in Section 5 and for development of the Mitigation Action Plans in Section 7.
North Carolina State Hazard Mitigation Plan, 2023	The State plan was referenced in compiling the Hazard Identification and Risk Assessment in Section 4.

2.3.2 PHASE II - RISK ASSESSMENT

Planning Steps 4 and 5: Identify/Assess the Hazard and Assess the Problem

The HMPC completed a comprehensive effort to identify, document, and profile all hazards that have, or could have, an impact on the planning area. Geographic information systems (GIS) were used to display, analyze, and quantify hazards and vulnerabilities. A draft of the risk and vulnerability assessment was made available on the plan website for the HMPC, stakeholders, and the public to review and comment.

The HMPC also conducted a capability assessment to review and document the planning area's current capabilities to mitigate risk from and vulnerability to hazards. By collecting information about existing government programs, policies, regulations, ordinances, and emergency plans, the HMPC could assess those activities and measures already in place that contribute to mitigating some of the risks and vulnerabilities identified. A more detailed description of the risk assessment process and the results are included in Section 4 Risk Assessment.

2.3.3 PHASE III - MITIGATION STRATEGY

Planning Steps 6 and 7: Set Goals and Review Possible Activities

Insight Planning & Development facilitated a discussion with the HMPC to review and revise the planning goals and objectives and a comprehensive range of mitigation alternatives. The HMPC also discussed a method of selecting and defending recommended mitigation actions using a series of selection criteria. This information is included in Section 6 Mitigation Strategy.

Planning Step 8: Draft an Action Plan

A complete first draft of the plan was prepared based on input from the HMPC regarding the draft risk assessment and the goals and activities identified in Planning Steps 6 and 7. This draft was shared for HMPC, stakeholder, and public review and comment via the plan website. HMPC, public, and stakeholder comments were integrated into the final draft for NCEM and FEMA Region 4 to review and approve, contingent upon final adoption by all participating jurisdictions.

2.3.4 PHASE IV - PLAN MAINTENANCE

Planning Step 9: Adopt the Plan

To secure buy-in and officially implement the plan, the plan will be reviewed and adopted by all participating jurisdictions. Resolutions will be provided in Section 9.

Planning Step 10: Implement, Evaluate and Revise the Plan

Implementation and maintenance of the plan is critical to the overall success of hazard mitigation planning. Up to this point in the planning process, the HMPC's efforts have been directed at researching data, coordinating input from participating entities, and developing mitigation actions. Section 8 Plan Maintenance provides an overview of the strategy for plan implementation and maintenance and outlines the method and schedule for monitoring, updating, and evaluating the plan. The Section also discusses incorporating the plan into existing planning mechanisms and how to continue public involvement.

2.4 HAZARD MITIGATION PLANNING COMMITTEE

As with the previous plan, this Hazard Mitigation Plan was developed under the guidance of a planning committee comprising representatives of County, City, and Town departments, federal and state agencies, citizens, and stakeholders.

To form the HMPC, the County Emergency Managers coordinated with County, City, and Town officials to designate representatives for each jurisdiction. Each community was asked to designate a primary and secondary contact for the HMPC. Communities were also asked to identify local stakeholder representatives to participate on the HMPC alongside the local staff to improve the integration of stakeholder input into the plan. Table 2.4 lists the membership of the HMPC, the agencies and jurisdictions they represented, and members' attendance at meetings. Many of these representatives were involved in the development of the 2020 Hazard Mitigation Plan and have since participated in regular plan reviews and maintenance. For this plan update, an effort was made to involve additional stakeholders who could represent or coordinate with underserved communities and vulnerable populations.

Table 2.4 - HMPC Members

				HMPC Meeting Attendance			
Jurisdiction	Representative	Agency	Position/Title or *Stakeholder	Mtg.1	Mtg.2	Mtg.3	Mtg.4
Greene County	Brock Kearney	Emergency Services	Director		1	1	1
Greene County	Andrew Harrison	Emergency Services	ES Planner				
Jones County	Ryan "Sissy" Mills	Jones County Emergency Svcs	Emergency Services Director		1		1
Jones County	Kyle Smith	Jones County Administration	County Manager				
Jones County	Reid Southerland	Jones County Emergency Svcs	EM Coordinator	1			
Jones County	Kay Futrell	Jones County Resident	Stakeholder*	1			
Lenoir County	Samuel Kornegay	Lenoir Co Emergency Services	EM Planner	-	1		
Lenoir County	Murry Stroud ¹	Lenoir Co Emergency Services	Director	1			
Lenoir County	Norman Bryson ¹	Lenoir Co Emergency Services	Director				1
Lenoir County	Melissa Greene	County Resident	Stakeholder*				
Lenoir County	Justin Tilghman	County Resident / Business Owner	Stakeholder*				
Kinston	Chad Jackson	City of Kinston	Fire/Deputy Chief		1		1
Kinston	Elizabeth Blount	City of Kinston	Planning Director	1		1	1
Kinston	Omar Grady	Resident	Stakeholder*	1			
Kinston	Randy Jones	Resident	Stakeholder*				
Pink Hill	Lauren Smith	Town of Pink Hill	Town Clerk				1
Pitt County	Jonas Hill	Pitt County Planning & Development	Planning Director		1	1	1
Pitt County	Thomas Shrader	Pitt County Planning & Development	Planner III	1	1	1	1
Pitt County	David Davenport	Pitt County Planning Board	Stakeholder*	1	- 3		
Pitt County	Steve Little	Pitt County Planning Board	Stakeholder*				
Ayden	Stephen Smith	Town of Ayden	Assistant Town Manager	1	1	1	1
Ayden	Scott Howard	Town of Ayden	Town Manager				
Farmville	Justin Oakes	Town of Farmville	Planning Director	1		1	1
Farmville	David Hodkins	Town of Farmville	Town Manager				
Farmville	Kevin Wainwright	Resident	Stakeholder*		- 3		
Farmville	Burt Smith	Resident	Stakeholder*				
Creenville	Daryl Norris	City of Greenville Public Works Dept.	Stormwater Engineer	1	/	4	

			HMPC Meeting Attendance				
Jurisdiction	Representative	Agency	Position/Title or *Stakeholder	Mtg.1	Mtg.2	Mtg.3	Mtg.
Greenville	Bryan Jones	City of Greenville Public Works Dept.	Surveyor/Floodplain Coordinator	1	1	1	~
Greenville	Dr. Jeff McKinnon	Resident	Stakeholder*	1	5-1		
Greenville	Dr. Yoshi Newman	Resident	Stakeholder*	1			1
Grifton	Dylan Haman	Town of Grifton	Town Manager				
Grifton	Derrick Dennis	Town of Crifton	Police Chief				
Grifton	Mike Gaskins	Resident	Stakeholder*				
Grifton	Daniel Allbritton	Resident	Stakeholder*				
Crimesland	Jaime Moles	Town of Grimesland	Town Clerk				
Grimesland	Tina Dixon	Town of Grimesland	Public Works Director		1		1
Winterville	Terri L. Parker	Town of Winterville	Town Manager				
Winterville	Stephen Penn	Town of Winterville	Planning Director				1
Winterville	Bryan Fagundus	Resident	Stakeholder*				
Winterville	Sean Owens	Resident	Stakeholder*				
Wayne County	Berry Gray	Wayne County Planning	Planning Director	1	1	1	1
Wayne County	Anthony Cape	Wayne County Planning	Planning Technician				
Wayne County	Randy Gray	Resident	Stakeholder*				
Wayne County	Curtis Stafford	Resident	Stakeholder*				
Fremont	Jonathan Allen	Town of Fremont	Town Administrator	1			
Fremont	Shannon Daly	Town of Fremont	Finance Officer				
Goldsboro	Mark Helmer	City of Goldsboro	Planning Director	1			
Goldsboro	Kenny Talton	City of Goldsboro	Assistant Planning Director	1		1	
Goldsboro	Fritz Knack	Resident	Stakeholder*			1	
Walnut Creek	Robert Parchman	Village of Walnut Creek	Administrator/Chief of Police		/	1	1
Walnut Creek	Jacqui Whitmire	Village of Walnut Creek	Village Clerk				
Walnut Creek	Cyndi Dupuy	Resident	Stakeholder*	0.00			
Walnut Creek	John Seegars	Resident	Stakeholder*				
N/A	Chris Crew	NCEM	Mitigation Plans Manager*	1			
N/A	John Mello	NCEM	Mitigation Planner*			1	
N/A	Carl Baker	NCEM	Mitigation Planner*	1	1	1	1
N/A	Donald Taft	NCEM	Area 4 Coordinator*	1 1			
N/A	Greg Hardee	NCEM	Area 3 Coordinator*		1.7		

	Representative	Agency	Laborate States -	HMPC Meeting Attendance			
Jurisdiction			Position/Title or *Stakeholder	Mtg.1	Mtg.2	Mtg.3	Mtg.4
N/A	Charles Tripp	NCEM	Area 2 Coordinator*				-
N/A	Dianne Curtis	NCEM	Eastern Branch Manager*				
N/A	Steven Jackson	NCEM	Deputy HM Section Chief*	1			
N/A	Matthew Stillwagon	NCDPS	NFIP Planner*		1		
N/A	Andrea Webster	NCORR	Resilience Policy Advisor*		1		
N/A	Helene Weatherington	NCORR	Resilient Communities Specialist			1	
N/A	Hannah Thompson- Welch	NC Forest Service	Wildfire Mitigation Specialist*		1	/	

[&]quot;Asterisk indicates that the representative is a citizen or outside stakeholder not affiliated with the local government

Note: Norman Bryson replaced Murry Stroud as an HMPC member for Lenoir County during the planning process.

Several of the jurisdictions elected to designate their respective county official to represent their jurisdiction on the HMPC, generally because they did not have the time or staff to be able to attend on their own. Although these members designated county officials to represent them at in-person meetings, each was still contacted throughout the planning process and participated by providing suggestions and comments on the plan and updates to mitigation actions and local capabilities via emails and phone conversations. These members are listed in Table 2.5 by jurisdiction.

Table 2.5 - Jurisdictions Designating County Representation on the HMPC

Jurisdiction	Representative	Agency/Position
Hookerton	Tyler Shirley	Town of Hookerton, Maintenance Supervisor
Snow Hill	April Vinson	Town of Snow Hill, Town Manager
Walstonburg	Bess Patton	Town of Walstonburg, Town Clerk
Maysville	Shumata Brown	Town of Maysville, Town Manager
Pollocksville	Jay Bender	Town of Pollocksville, Mayor
Trenton	Glenn Spivey	Town of Trenton, Town Clerk
La Grange	Shawn Condon	Town of La Grange Administration, Town Manager
Bethel	Scott Elliott	Town of Bethel, Town Manager
Falkland	Ginger Little	Town of Falkland, Mayor
Fountain	Letha H. Hines	Town of Fountain Administration, Town Clerk
Grifton	Oryan Lowry	Town of Grifton, Interim Town Manager
Simpson	Richard C Zeck	Village of Simpson, Mayor
Eureka	Clara Sauls	Town of Eureka, Planning Commission Member
Mount Olive	Jammie Royall	Town of Mount Olive, Town Manager
Pikeville	Tim Biggerstaff	Town of Pikeville, Town Administrator
Seven Springs	Ronda Hughes	Town of Seven Springs, Mayor

The HMPC led the planning and decision-making efforts throughout the planning process; however, other staff from the participating communities were involved in an advisory role to provide input and local data, review plan drafts, update the status of their respective mitigation actions, and otherwise support the HMPC in this plan update. These were not members of the HMPC. Additional local staff that supported the HMPC are recognized in Table 2.6 below.

Table 2.6 - Additional Staff Supporting the Planning Process

Jurisdiction	Representative	Agency	Position/Title
Lenoir County	Miranda Futrell	Lenoir County Emergency Services	Deputy Director
Kinston	Timothy Mooring	Kinston Fire & Rescue	Fire Control Specialist
Kinston	Stevens Nimmo	Kinston Fire & Rescue	Captain
Wayne County	Gary Tillman	Wayne County Emergency Services	Director

The formal HMPC meetings followed the 10 CRS Planning Steps. Agendas, minutes, and sign-in sheets for the HMPC meetings are included in Appendix B. The meeting dates and topics discussed are summarized in Section 2.5 Meetings and Workshops. All HMPC meetings were open to the public.

The DMA planning regulations and guidance stress that each local government seeking FEMA approval of their mitigation plan must participate in the planning effort in the following ways:

- Participate in the process as part of the HMPC;
- Detail where within the planning area the risk differs from that facing the entire area;
- Identify potential mitigation actions; and
- Formally adopt the plan.

For the Neuse River Region HMPC, "participation" meant the following:

- Providing facilities for meetings;
- Attending and participating in the HMPC meetings;
- Collecting and providing requested data (as available);
- Providing an update on previously adopted mitigation actions;
- Managing administrative details;
- Making decisions on plan process and content;
- Identifying mitigation actions for the plan;
- Reviewing and providing comments on plan drafts;
- Informing the public, local officials, and other interested parties about the planning process and providing opportunity for them to comment on the plan;
- Coordinating and participating in the public input process; and
- Coordinating the formal adoption of the plan by local governing bodies.

Detailed summaries of HMPC meetings are provided under Section 2.5 Meetings and Workshops, including meeting dates, locations, and topics discussed. During the planning process, the HMPC members communicated through face-to-face meetings, email, and phone conversations. This continued communication ensured that coordination was ongoing throughout the entire planning process even though not all HMPC members could be present at every meeting. Additionally, draft documents were distributed via the plan website so that the HMPC members could easily access and review them and provide comments.

2.5 MEETINGS AND WORKSHOPS

The preparation of this plan required a series of meetings and workshops for facilitating discussion, gaining consensus, and initiating data collection efforts with local government staff, community officials, and other identified stakeholders. More importantly, the meetings and workshops prompted continuous input and feedback from relevant participants throughout the drafting stages of the plan.

Table 2.7 summarizes the key meetings and workshops held by the HMPC during the development of the plan. In many cases, routine discussions and additional meetings were held by local staff to accomplish planning tasks specific to their department or agency such as reporting on changes to local capabilities, updating the status of mitigation actions, and identifying new actions. These meetings were informal and are not documented here.

Public meetings are summarized in subsection 2.6.

Table 2.7 - Summary of HMPC Meetings

Meeting Title	Meeting Topic	Meeting Date	Meeting Location
HMPC Mtg. #1 - Project Kick-Off	Introduction to DMA and CRS requirements and the planning process Review of HMPC responsibilities and the project schedule	July 10, 2024	City of Kinston Public Services Building 2360 Hwy 258 South Kinston, NC
HMPC Mtg. #2	Review the draft Hazard Identification & Risk Assessment Discuss updates to local capabilities Review problem statements and mitigation action ideas	December 9, 2024	The Jeffreys Building 134 N John Street 2 nd Floor Conference Room Goldsboro, NC 27530

ATTACHMENT E

Resolution 25-06

RESOLUTION ADOPTING NEUSE RIVER REGIONAL HAZARD MITIGATION PLAN

WHEREAS, the citizens and property within the Town of Bethel are subject to the effects of natural hazards that pose threats to lives and cause damage to property, and with the knowledge and experience that certain areas of the region are particularly vulnerable to dam failure, drought, earthquake, excessive heat, flooding, hurricane and coastal hazards, thunderstorm, tornado, winter weather, and wildfire; and

WHEREAS, the Town of Bethel desires to seek ways to mitigate the impact of identified hazard risks; and

WHEREAS, the Legislature of the State of North Carolina has in Article 5, Section 160D-501 of Chapter 160D of the North Carolina General Statutes, delegated to local governmental units the responsibility to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry; and

WHEREAS, the Legislature of the State of North Carolina has enacted General Statute Section 166A-19.41 (State emergency assistance funds) which provides that for a state of emergency declared pursuant to G.S. 166A-19.20(a) after the deadline established by the Federal Emergency Management Agency pursuant to the Disaster Mitigation Act of 2002, P.L. 106-390, the eligible entity shall have a hazard mitigation plan approved pursuant to the Stafford Act; and.

WHEREAS, Section 322 of the Federal Disaster Mitigation Act of 2000 states that local governments must develop an All-Hazards Mitigation Plan in order to be eligible to receive future Hazard Mitigation Grant Program Funds and other disaster-related assistance funding and that said Plan must be updated and adopted within a five-year cycle; and

WHEREAS, the Town of Bethel has performed a comprehensive review and evaluation of each section of the previously approved Hazard Mitigation Plan and has updated the said plan as required under regulations at 44 CFR Part 201 and according to guidance issued by the Federal Emergency Management Agency and the North Carolina Division of Emergency Management.

WHEREAS, it is the intent of the Board of Commissioners of the Town of Bethel to fulfill this obligation in order that the Town of Bethel will be eligible for federal and state assistance in the event that a state of disaster is declared for a hazard event affecting the County;

NOW, THEREFORE, be it resolved that the Board of Commissioners of the Town of Bethel hereby:

- 1. Adopts the Neuse River Regional Hazard Mitigation Plan.
- Vests Pitt County Planning Department with the responsibility, authority, and the means to:

- Inform all concerned parties of this action.
- b. Cooperate with Federal, State and local agencies and private firms which undertake to study, survey, map and identify floodplain areas, and cooperate with neighboring communities with respect to management of adjoining floodplain areas in order to prevent exacerbation of existing hazard impacts.
- 3. Appoints Pitt County Emergency Management to assure that the Hazard Mitigation Plan is reviewed annually and every five years as specified in the Plan to assure that the Plan is in compliance with all State and Federal regulations and that any needed revisions or amendments to the Plan are developed and presented to the Town of Bethel for consideration.
- Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted this the 5th day of August, 2025.

	Carl Wilson Mayor	
	Carl Wilson, Mayor	
Attest:		
Linda Sheppard, Town Clerk		

ATTACHMENT F

TOWN OF BETHEL

LINE ITEM TRANSFER/BUDGET AMENDMENT

6/18/25
Transfer # _____18__
Department: RECREATION/SENIOR CENTER

		LINE	TEM TRANSFER	Talky III	
2000 0000	FROM			TO	
Account Name	Acct #	Amount	Account Name	Acct #	Amount
Total		ş -	Total		s ,
	NOTE:	BUDG	ET AMENDMENT		
	REV	ENUES		EXPEN	DITURES
Account Name	Acct #	Amount	Account Name	Acct #	Amount
			Repairs and Maintenance Uniforms	10-620-1500 10-530-2400	\$ (1,000.00 \$ 1,000.00
Total		ş .	Total		s .
Explanation: To move fund	is from recreation to				\$ -
Requested by:	155		Approved by:		

Scott Elliot (89) 6-19-25

Note: approved via Budget Ord. authority.

ATTACHMENT G

TOWN OF BETHEL

LINE ITEM TRANSFER/BUDGET AMENDMENT

10/1/24 Transfer # _____19__ Department: SCIF GRANT

		LINET	TEM TRANSFER		
	FROM			TO	60
Account Name	Acct #	Amount	Account Name	Acct #	Amount
Total		s -	Total		s -
		BUDG	ET AMENDMENT		
	REV	ENUES		EXPEN	DITURES
Account Name	Acct#	Amount	Account Name	Acct#	Amount
			Town Hall Renovations Police Building Repairs	54-420-1500 64-510-1500	\$ 28,250.00 \$ (28,250.00
		(AS			
Total		s .	Total		s .
Explanation: To move SCIF fur	nds from Police b	uilding to Tow	n Hall renovations per council m	inutes 10/1/2024	
Requested by:			Approved her		

Set Ellist

per Board Solartion of vendor on 10-1-24. (See attached abstract and minites.)

ATTACHMENT H

TOWN OF BETHEL

LINE ITEM TRANSFER/BUDGET AMENDMENT

Date: 8/5/25
Amendment # _____1
Department: STREETS

	1/2/2014	LINE	TEM TRANSFER		
	FROM		,	10	
Account Name	Acct #	Amount	Account Name	Acct#	Amount
54					
Total		s -	Total		\$ -
	9200	BUDGE	TAMENDMENT		
	REV	ENUES		EXPEN	DITURES
Account Name	Acct #	Amount	Account Name Supplies Street Maintenance	<u>Acct #</u> 10-560-3300 10-560-1500	* (5,000.00 \$ 5,000.00
Total			Total		s .
Explanation: To move \$5,0	00 from supplies for	street mainten	ance		
Requested by:			Approved by:		

ATTACHMENT I

Town of Bethel Monthly Crime Statistic June 2025 July 9, 2025

Total Calls For Service N= 83(CAD Data) Total Incident Reports N= 29

Index Crimes			
Violent Crime	April 2025	May 2025	June 2025
Murder	0	0	0
Sexual Assault	0	0	0
Robbery	0	0	0
Assault	3	2	2
Property Crime	29 24 G2 La El	AND STREET	TABLE OF
Burglary	0	0	0
Larceny	0	1	1
Auto Theft	0	0	0
Arson	0	0	0

Total Part II Crimes reported N= 26

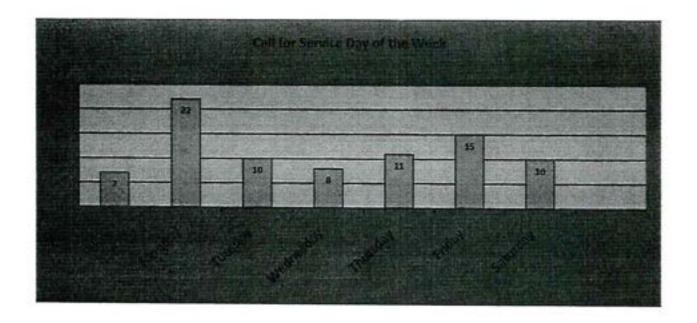
(Numbers Based on the number of incident reports)

The most common Calls For Service prefomed with in the city of Bethel.

Traffic Complaint Report	0
Traffic Stops	2
Business Checks	245(These are done in addition to calls for service.)
Sex Offender Check	0
Welfare Check	7
Alarm	5
Warrant Service	0
Ride By	17

Calls for Service Day of the Week

N=83(CAD Data)



ATTACHMENT J

			Projected
	6/30/2023	6/30/2024	6/30/2025
Stabilization by State Statute	168,922	178,704	180,551
Transportation (Powell Bill)	61,390	98,940	
USDA Debt Service	11,827	11,827	11,827
Unassigned	2,634,662	2,924,989	2,416,146
	2,876,801	3,214,460	2,608,524

Used for paving FY25

*Estimated Fund Balance Decrease FY25:

(508.943)	Decrease Fund Balance
(2,371,471)	Less:Expenses
120,10	and during ran suryanus

	Fund Baland	Fund Balance Appropriations FY25	ns FY25
Purpose	Budget	Actual	
Fire Salaries	9,358	9,358	9,358 Used for salaries
Land Use Regulations	7,500		Has not been invoiced
Housing Demolition	200,000	200,000	Transferred to Demolition Fund
Smith Street Park	200,000	200,000	Transferred to Smith St Park Fund
LED Street Lights	30,000	,	Will not expend
Street Paving	195,000		\$484,762 spent for paving less \$159,652 paid by Powell Bill
Street Paving	218,452	325,110	Funds
Stormwater Project	181,000	90,000	90,000 Partially spent 6/30/25; will need to re-appropriate FY26
Original Budget Oridinance FY25	45,750		
ARPA funds used to cover Sheriff Contract	(78,058)	(78,058)	(78,058) Added back to Fund Balance by using ARPA \$
	1,009,002	746,410	

ATTACHMENT K



