



2/4/2026

ADDENDUM NO. 5
IFB FY26-I-003 – Bus Wash

Pursuant to Section 2.3, Amendment to the IFB, which allows DART to amend the IFB at any time through the issuance of an addendum, this Addendum hereby modifies the solicitation documents as follows:

The document titled “Bus Wash Specifications – Construction Documents – SPECS” (available at:

https://www.ridedart.com/sites/default/files/business-center/procurement/25_1222%20-%20DART%20Bus%20Wash%20-%20Const%20Docs%20-%20SPECS.pdf) is **removed from the IFB** and shall no longer be considered part of the bid requirements.

In its place, the document titled “Vehicle Wash Equipment Specifications & Requirements” is hereby incorporated into and made part of IFB FY26-I-003 and shall govern the equipment specifications for this procurement.

The Vehicle Wash Equipment Specifications & Requirements document includes a dedicated section that provides clarity regarding Owner Responsibilities and Vendor Responsibilities, including but not limited to the following:

- Owner Responsibilities generally include providing electrical, water, drain, and other utilities to designated equipment connection points, as well as performing any work necessary to route, extend, relocate, resize, or otherwise modify utilities to serve the new equipment.
- Vendor Responsibilities generally include furnishing the vehicle wash equipment; removing existing equipment as required; installing the new equipment; and connecting the equipment to Owner-provided utility connection points, including all equipment-side piping, wiring, hoses, and fittings necessary for proper operation.

All other terms, conditions, and requirements of IFB FY26-I-003 remain unchanged and in full force and effect.

Also, attached is the questions and answers document.

**Des Moines
Area Regional
Transit Authority**

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515-283-8100
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VEHICLE WASH EQUIPMENT SPECIFICATIONS & REQUIREMENTS

PART 1 – GENERAL

WORK INCLUDED

A. Equipment items listed below by Equipment Mark Number:

1. **WASHER, DRIVE-THROUGH, FOUR BRUSH**

Equipment Mark Number: **3900**

B. Removal of existing vehicle wash equipment required to accommodate the new equipment, limited to equipment and equipment-mounted components.

C. Furnishing of new vehicle wash equipment.

D. Placement, anchorage, and connection of vehicle wash equipment to Owner provided utility connection points only.

E. This Section is limited to equipment scope only. Building construction, utility extensions, relocations, rerouting, resizing, or infrastructure modifications are excluded.

ALTERNATIVE BIDS

A. Refer to Section 3.1 of the IFB for any deviations or proposed equivalent product submission requirements.

QUALITY ASSURANCE

A. Experience

Equipment must be produced by a manufacturer of established reputation with a minimum of five years' experience supplying specified equipment in similar transit applications.

B. Manufacturer's Representative

1. **Installation:** Provide a qualified manufacturer's representative at site to supervise work related to equipment installation, check out and start up.
2. **Training:** Provide qualified manufacturer's technical representative to provide training to Owner's maintenance personnel in operation and maintenance of specified equipment.

C. Performance

1. The Manufacturer or Supplier of the Vehicle Wash System must be responsible for the design of a washer that satisfactorily washes the Owner's vehicle fleet.

- a. The washer must remove all visible, heavy dirt accumulation and majority of the road film from all surfaces including the rear of the Owner's vehicles.
 - b. The washer must be capable of washing up to 10 vehicles per hour.
2. The Manufacturer or Supplier of the Vehicle Wash System must be solely responsible for the performance of the washer, as specified, and must modify, add to, or alter the equipment, as necessary, without any additional cost to the Owner, to provide a satisfactory performance. If the system cannot be altered, modified, or adjusted to provide satisfactory performance according to the section on Quality Assurance and Performance of this specification, the Manufacturer or Supplier must remove the washer equipment at no additional cost to the Owner and must refund all purchase monies received from the Owner, either directly or indirectly through the Contractor.
3. The Manufacturer or Supplier of the Vehicle Wash System must be solely responsible for the performance of the reclamation system, as specified, and must modify, add to, or alter the equipment, as necessary, without any additional cost to the Owner, to provide satisfactory performance. If the system cannot be altered, modified, or adjusted to provide satisfactory performance according to the Quality Assurance and Performance section of this specification, the Manufacturer or Supplier must remove the reclamation system equipment at no additional cost to the Owner and must refund all purchase monies received from the Owner, either directly or indirectly through the Contractor.
4. The Water Reclamation System must be guaranteed by the Manufacturer or Supplier to control odors for a period of three years after final acceptance and must take whatever action is necessary to correct any odor causes during the guarantee period without the use of chemicals. Corrective action must be at no additional cost to Owner.

STANDARD AND REGULATORY REQUIREMENTS

The reference publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by basis designation only.

A. ASTM International

1. ASTM A36/A36M – Standard Specification for Carbon Structural Steel
2. ASTM A123/A123M – Standard Specification for Zinc Coating (Hot-Dip Galvanized)

B. American Welding Society (AWS)

1. AWS D1.1/D1.1 M - Structural Welding Code - Steel

C. National Electric Manufacturer's Association (NEMA)

1. ANSI/NEMA 250 – Enclosures for Electrical Equipment

D. National Electric Code (NEC)

1. ANSI/NFPA 70, Article 430 - Motors, Motor Circuits, and Controllers
2. ANSI/NFPA 79 – Electrical Standard for Industrial Machinery

E. Underwriters Laboratory (UL)

1. UL 508A – Industrial Control Panels

The wash system must be in compliance with current editions of all applicable local, state, and federal codes and regulations, including all applicable portions of CFR 29 Part 1910: Occupational Safety and Health Standards, as enforced by OSHA.

Buy America Requirements: All manufactured products listed within this specification section are part of a federally assisted procurement involving funds granted by the Federal Transit Administration (FTA) and must comply with Buy America requirements as delineated by Title 49 Code of Federal Regulations (CFR) Subsection 661.

SUBMITTALS

A. Product Data:

1. All Product Data submittals must identify proposed project specific items marked by arrow, circle, underline, reproducible highlight, or other markings clearly discernable by the reviewer, to show which specific items, parts and accessories are being submitted for the project product data review. Non-marked or generic product data submittals with no marks indicating specific items, parts and accessories will be a cause for rejection.
2. Restrict submitted material to pertinent data. For instance, do not include manufacturer's complete catalog when pertinent information is contained on a single page.

B. Operation and Maintenance Manual:

1. Provide a Complete parts list, operating instructions, and maintenance manual covering equipment at time of installation including, but not limited to:

- a. Description of system and components.
- b. Schematic diagrams of electrical, plumbing and compressed air systems.
- c. Manufacturer's printed operating instructions.
- d. Printed listing of periodic preventive maintenance items and recommended frequency required to validate warranties. Failure to provide maintenance information will indicate that preventive maintenance is not a condition for validation of warranties.
- e. List of original manufacturer's parts, including suppliers' part numbers and cuts, recommended spare parts stockage quantity and local parts and service source.

2. Assemble and provide copies of manual in 8-1/2 by 11-inch format. Foldout diagrams and illustrations are acceptable. Manual to be reproducible by dry copy method.

C. Shop Drawings:

1. Submitted shop drawings must be project specific and must include a minimum 1/8 inch to 1 foot scaled (or larger standard architectural imperial scale), dimensioned, graphical representation of the size, orientation, and location for the submitted equipment. The drawings must further include dimensions from structural elements or architectural grid lines, operational clearances, locations of any utility service connection points, mounting requirements, and structural supports required for the submitted equipment.

D. Manufacturer must verify in writing that the washer will satisfactorily wash all vehicles currently operated by Owner or on order by Owner at time of bid and must include this verification with the submittal.

E. Submit written evidence (references with name of contact, telephone number, and year of installation) that manufacturer has required experience.

F. Buy America Certificates: Buy America certificates required during bidding must also be required as part of each product submittal. Certificates must be complete and accurate. Certificates must indicate either compliance or non-compliance with the Buy America regulations. Certificates of non-compliance must also include copies of any granted waivers.

WARRANTY

A. Warranty work specified herein for one year from substantial completion against defects in materials and workmanship.

B. Warranty must include materials, labor, transportation, installation, and adjustment necessary to correct defects in a timely manner to limit impact on owner's / end user's operations.

C. Defects must include, but not be limited to noisy, rough, or substandard operation; loose, damaged, and missing parts; and abnormal deterioration of finish. Defects must not include damage due to neglect, misuse, or situations resulting from non-performance of manufacturers recommended preventive maintenance schedule.

D. Warranty must address prompt response from service personnel to minimize owner / end user downtime.

E. Submit warranty information that fully informs the owner / end user of the specifications and procedures necessary to prevent voiding any portion of the warranty.

F. The terms 'Regular Service' and 'Minor Maintenance' must be defined by the warranty. Regular service and minor maintenance, when performed by a technician not certified by the manufacturer / installer, must not be a cause to void any portion of the warranty.

H. All parts must be readily available locally in the United States.

PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Deliver equipment in manufacturers' containers, appropriately packaged and/or crated for protection during shipment and storage in humid, dusty conditions.

B. Indelibly label all containers, including those contained in others, label the outside with item description(s) per title and Mark Number of this specification.

C. Provide equipment and materials specified complete in one shipment for each equipment item. Split or partial shipments are not permissible.

LABELING

Manufacturers must securely attach in a prominent location to each major item of equipment a non-corrosive nameplate showing manufacturer's name, address, model number, serial number, and pertinent utility or operating data.

- A. Label all piping in vehicle wash and water reclaim systems as to its function and flow direction.

- B. All electrical equipment and materials must be new and must be listed by Underwriter's Laboratories, Inc. (U.L.), or other National Recognized Testing Laboratory (NRTL), in categories for which standards have been set by that agency and labeled as such in the manufacturer's plant.

PART 2 – PRODUCTS

WASHER, DRIVE-THROUGH, FOUR BRUSH

Equipment Mark Number: 3900

A. General

1. Description:
 - a. Washer must thoroughly clean roofs, sides, fronts and rears of standard transit buses.
 - b. Provide a wash system complete and operable with all equipment necessary for a complete wash system.
 - c. Wash system must limit impacts to existing infrastructure and be able to be removed and relocated to a new facility in the future.
2. Coordination: Specification information indicated herein is intended as a basis of design. Final design of the wash system must be by the manufacturer and must be presented in the shop drawings as a fully coordinated, complete design.
3. Compliance: The washing system must be in compliance with current editions of all applicable local, state, and federal codes and regulations, including all applicable portions of CFR 29 Part 1910 (OSHA)

B. Sequence of Operation

1. Washer components must be automatically actuated in sequence by vehicles, driven centered between tire guides, at a nominal speed of 1 to 1.5 feet per second through each washing stage without stopping.
2. Entry must be through a chemical application arch with recycled water, progressing through a friction brush washing cycle that must effectively scrub all vertical body surfaces of front, sides and rear of vehicles including windshield and windows, using a minimum of four vertical rotary brushes, each equipped with detergent spray applicators.
3. Each brush must be capable of scrubbing its respective vehicle side and must perform its scrubbing function in a wrap-around mode to scrub its respective front or rear of the vehicle.

4. Four brushes, two fixed and two wrap around, must scrub the sides and rear of the vehicle during the wash. Effective washing of the horizontal and curved portions of the vehicle front and roof must be by a full width set of extended mops.
5. High-pressure water is applied to the vehicle front and wheels to remove debris from those areas of the surface that cannot benefit from brush scrubbing.
6. Final rinse of the front, roof, sides, rear, and wheels must be by fresh water. Wash system must include an integrated water reclamation system configured to reclaim water for the pre-rinse and wash cycle.

C. Major Components: The following major components must be included with the wash system.

1. Automatic Controls - Vehicle actuated switchgear including pre-wired electric control panel and manual override controls.
2. Tire guides: Full length, one pair.
3. Skid plates: One pair.
4. Pre-wetting/detergent spray arch assembly: Automatic, frame mounted, freestanding unit.
5. Mop Assembly: Full width with integral detergent spray assembly.
6. Vertical brushes and frame assembly: Four rotary brushes with integral detergent spray and supporting frame assembly.
7. High Pressure Front and Wheel Sprays.
8. Final rinse arch: Automatic, frame mounted, free standing, freshwater unit.
9. Air system: Automatic with air control panel.
10. Miscellaneous washer equipment: Brush yokes, columns, base plates, anchor bolts, pump, detergent distribution system, control wands, solenoid valve, pump, entrance lights, and speed warning.

D. Capacity and Dimensions

Automated Wash System must operate within the Wash Bay with clear dimensions as follows:

- a. Length: 75 feet, 0 inches
- b. Width: 18 feet, 8 inches
- c. Height: 15 feet, 0 inches

E. Features and Construction

- 1. Tire Guides:
 - a. Fabricated from minimum 4-inch diameter tubular schedule 40 hot dip galvanized steel pipe sections supported at maximum 60-inch intervals, providing guide runs on both sides of vehicle; installed full length of vehicle wash lane with angled entry sections.
 - b. Guide spacing must accommodate vehicles up to and including 8 foot, 6 inches in width. Ends of rails must be capped and all sections must be smoothly finished to prevent tire damage.
- 2. Slip Plates:
 - a. Provide flat, polished, stainless-steel slip mounted flush to slab. Angled entry section of tire guide must minimize tire sidewall damage caused by resistance to lateral movement resulting from misaligned entry to vehicle washer.
- 3. Chemical Arch:
 - a. The arch must have front and rear detergent arch manifolds, and the application of detergent to the front and rear of the vehicle must be applied with separate, stainless-steel manifolds with individually adjustable soap pumps. The Manufacturer must determine the operation and position of the arch to provide optimum detergent coverage.
 - b. Arch must be fabricated with 1.25-inch diameter stainless steel pipe with stainless supports fastened to floor. Each arch must be equipped with single or double nozzles with check valves for even detergent applications on front, rear, sides, and roof of bus driving under arch.
 - c. Arch must be designed to immediately activate detergent applications when vehicle position is detected.

- d. Provide two Dosatron detergent proportioners with adjustable injection stem to provide detergent dilution range from 1:200 (0.5%) to 1:20 (5%) and separate control of detergent concentration to the rear. Injectors must be positive displacement type.
 - e. Furnish 3 HP water booster pump for consistent water pressure to detergent proportioners.
4. Roof Mop:
- a. The hanging roof mop must wash the top of the bus and the upper part of the front windshield. Roof mop design must not interfere with any mirrors or other protrusions of the buses.
 - b. Hang mop curtain from free-standing 304 stainless steel, 2" schedule 40 pipe. Frame must be anchored to the slab.
 - c. The mop curtain must have four rows of vertical cloth. Each row of the mop must include a top mounted horizontal pipe. Each pipe must have a minimum of five nozzles to spray alkaline detergent on the mop.
5. Under Chassis Spray Bar and Wheel Wash:
- a. Under chassis manifold must consist of 1.25-inch galvanized pipe with 9 nozzles.
 - b. The under-chassis wash must provide a minimum of 60 GPM 60 PSI of reclaimed water. Provide 5 HP water booster pump for consistent water pressure to rinse nozzles.
 - c. Provide two-wheel wash manifolds, one on each side. Each manifold must use four nozzles capable of spraying 15 GPM 60 PSI.
6. Counter-Rotating 4 Brush Module:
- a. The washing system must have a total of four brushes. Brush configuration includes two fixed position front brushes for cleaning the sides, and two wrapping brushes for cleaning the sides and the rear of the bus.
 - b. The brush assemblies must consist of support frames, brush segments, brush center columns, column bearings, fixtures, motors, and drives.

- 1) All frames and supports must be hot dip galvanized.
- c. The brushes on each side of the bus must counter rotate to eliminate streaks. The rotary brushes must be driven electrically by a minimum of 2 HP motors.
 - 1) Motors must have a splash-proof rating.
 - 2) All bearings must be sealed and manually or factory greased.
 - 3) Gear reducers must be totally enclosed.
- d. All brush column bearings must be ball or roller type, meeting the requirements of AFBMA L50, having a median life of 200,000 hours.
 - 1) The brush column bearings must be sealed on the brush side and lubricated from track level without the use of a ladder.
- e. All brushes must be furnished with brush segments firmly affixed to a vertical brush bearing shaft. Brush shafts must be affixed to mounting arms bolted to the frame.
- f. The movable rear brushes on each side of the bus must be controlled independently. Movement of the brushes must be by air-over-oil system. Systems that rely solely on pneumatics or solely on electric to move brushes are not acceptable to the Owner.
 - 1) The rear brush pneumatic panel will control the pressure of the brushes exerted on the side and rear of the bus. The system will automatically deactivate, and an alarm will be announced on the main control panel should the system experience a loss of compressed air.
- g. Activation and timing of the rear brushes must be precise. The activation of higher air pressure for the rear brushes to wrap the back of the bus must not take place while the brushes are on the side of the bus. The higher air pressure must activate immediately as the rear corner of the bus passes the rear brushes. It is up to each supplier to select the method to achieve the proper rapping action.
- h. Water spraying manifolds must activate and de-activate when the brushes are started and stopped.

7. Intensified Front Wash Arches:
 - a. The front high-pressure arches must be constructed of 2-inch, schedule 40 galvanized pipe with fifteen nozzles to supply combined water output of 150 GPM 120 PSI. Oscillating nozzles are not acceptable.
 - b. Activate arch with photo eyes mounted on adjustable height stands designed to activate all vehicle sizes in Owner's fleet. Wire sensors to watertight junction boxes with drain holes.
8. High-Pressure Pumping Module:
 - a. Provide centrifugal diffuser-type high-pressure pump capable of producing pressures up to 120 PSI with maximum flow up to 150 GPM.
 - b. Suction, discharge, stage and diffuser casings must be ductile iron.
 - c. Casing design must permit hydrostatic testing to 150% of maximum pumping pressure at operating speed.
 - d. Impellers must be suction type and balanced to minimize axial thrust loads. Each impeller must be individually keyed to the pump shaft.
 - e. Bearings must have an average operational life of 50,000 hours. Bearings must be greaseable.
 - f. High-pressure pump must be driven by a squirrel cage induction motor suitable for across-the-line starting with a minimum rating of 30 HP and including soft start. The motor must be totally enclosed fan cooled (TEFC) and operate on 460V, 3-phase, 60 hertz with a service factor of 1.25.
9. Final Rinse Arch:
 - a. Supply final rinse arch with fresh water.
 - b. Manufacturers must determine operation and position of arch to provide optimum rinse water coverage.
 - c. The arch must be fabricated with 1.25-inch diameter stainless steel pipe with twenty-four (24) double swivel nozzles with check valves

for even and thorough application of rinse water to front, rear, sides and roof of vehicle driving under arch.

- d. Provide 3 HP water booster pump for consistent water pressure to rinse nozzles.

10. Fresh Water Tank:

- a. The freshwater rinse tank must be constructed of linear low-density polyethylene with a minimum capacity of 400 gallons.

- 1) Tank dimensions:

- a) Length: 66 inches
- b) Width: 29 inches
- c) Height: 70 inches

B. Water Reclamation and Treatment Technical Specifications

1. Sump Pump:

- a. Provide minimum 5 HP self-priming sump pump for transferring water from sump pit to the interscreen.
- b. Sump pump(s) must handle solids found in wash water with little to no wear or decrease in capacity.

2. Aeration System:

- a. Provide a system to pump aerated water into the trench pit to prevent algae and odor build-up.
 - 1) Distribute aerated water throughout the reclaim pit by circulating water even when the wash system is not operating.
 - 2) No odors from algae are permitted
 - 3) No odor masking deodorants or other chemical to kill odors is allowed.

3. Stainless Steel Intake Filter:

- a. The minimum horsepower rating of sump pump must be 5 HP. Sump pump must be self-priming.

- b. The sump pump intake filter must be InterScreen. Wire mesh filters are not acceptable.
 - 1) Slotted orifices must be sized 0.015" or smaller and prevent dirt from clogging water spray nozzles.
 - 2) Intake filter must be constructed of stainless steel.
 - 3) Equip intake filter with compressed air backwash that automatically actuates to maintain unrestricted water flow to sump pump.

C. Controls

- 1. The control system must be PLC based with separate HMI. The PLC must be the centralized process application controller and provide near real time control of the entire wash system and integration with other systems.
 - a. Connect PLC to a distributed I/O via an Ethernet network. The operator interface must be through a separate HMI, not integral to the PLC, and connected to the PLC via Ethernet. Provide I/O capacity for future expansion.
 - b. Provide terminal windows for monitoring and troubleshooting communication problems with any devices communicating to PC via Ethernet, RS232, etc.
 - c. Initialize all devices to a known state at start-up. Store all configurable settings such as timing set points, alarm settings, and communication settings in PLC and removable storage device. Alarms must have configurable user delays to prevent nuisance tripping.
 - d. System settings such as baud rates, parity, comport; configurations must be reconfigurable without need to recompile application software.
 - e. Failure of any components must disable the entire wash system.
- 2. The Industrial Control Panel must be manufactured and evaluated by Underwriters Laboratories, Inc. (UL) standard 508A -Industrial Control Panels. Panels must be evaluated for short circuit withstand capacity and

must bear the appropriate UL marks including the short circuit withstand value mark as part of the official UL label.

- a. Panel must be designed for 460 V, 3 phase, 60 Hertz with a short circuit capacity of 25,000 amperes RMS symmetrical at incoming line terminals of control panel.
- b. Panel must be designed to meet the requirements of NEC ANSI/NFPA 70, Article 430 and ANSI/NFPA 79 – Electrical Standard for Industrial Machinery.
- c. Control panels that are not UL approved and labeled are not acceptable to the Owner with no exceptions.

3. Mount PLC and HMI in NEMA 4 rated electrical enclosure.

D. Miscellaneous

1. The wash system must include a series of shut-off ball valves to drain all water from the complete system in the event of below freezing conditions. All valves must be accessible by the Owner to drain water from all piping and arches. This does not apply to any water in the center trench or reclaim pit.

2. Splash Wall

- a. Provide a splash wall assembly to fully separate the washing bay equipment from the support equipment. Prevent direct splashing onto the pumps, control panels, and other electrical devices.
- b. Walls must consist of modular galvanized steel B-line support structure.
- c. Walls must also include a fiberglass vertical panel that is a minimum of 38 inches wide and 12 feet tall. Each panel must overlap the previous by a minimum of one inch on any wall run.
- d. Secure the assembled wall structure to the floor and the sidewall of the wash bay to prevent flex, and distortion over time during wash use.

E. Finish: All fabricated sections of washer frame, brush yokes and arms, roof mop frame, spray arch frames, and miscellaneous structure must be hot-dipped galvanized after fabrication per ASTM A123. Metallic surfaces not

suitable for galvanizing must be coated with 95% zinc primer and covered with durable machine enamel.

F. Utilities Required:

1. Electrical: 480V, 3ph, 200A service
2. Air: Provided by wash manufacturer
3. Water: 2-1/2-inch supply line at 40 PSI minimum
4. Drain: 6-inch, minimum overflow to sewer

G. Manufacturers Reference:

Prime manufacturer: Specifications are based on equipment identified herein by manufacturer's name and model to establish acceptable standards of quality, performance, features, and construction.

1. Interclean Equipment 3939 Bestech Rd.
Ypsilanti, MI 48197
Phone: (734) 975-2967
Fax: (734) 975-1646
Website: www.interclean.com
 - a. Model: XJ 404 RW
2. Other manufacturers: Contingent upon compliance with these specifications and documentation requirements set forth in SUBMITTALS, equipment produced by other manufacturers, including the following, may be considered as equal.
 - a. N/S Corporation Telephone: (800) 782-1582
235 West Florence Avenue Inglewood, California 90301

PART 3 – RESPONSIBILITIES, CONNECTIONS, AND ACCEPTANCE

INSPECTION

- A. Coordinate location of rough-in work and utility stub-outs to assure match with equipment to be installed.

- B. Equipment inspected for damage from shipping and exposure to weather. Compare delivered equipment with packing lists and specifications to assure receipt of all items.
- C. Report in writing to the Owner any damaged, missing or incomplete scheduled equipment and improper rough-in work or utility stub-outs.

INSTALLATION

- A. Manufacturer must be responsible for complete operational equipment installation.
- B. Perform work under direct supervision of Owner with authority to coordinate installation of scheduled equipment with Architect.
- C. Install equipment in accordance with plans, shop drawings and manufacturer's instructions:
- D. Positioning: Place equipment in accordance with any noted special positioning requirements generally level (or slight slope as required by instructions), plumb and at right angles to adjacent work.
- E. Fitting: Where field cutting or trimming is necessary, perform in a neat, accurate, professional manner without damaging equipment or adjacent work.
- F. Anchorage: Use fastenings as specified herein. Attach equipment securely to prevent damage resulting from inadequate fastenings. Installation fasteners must be installed to avoid scratching or damaging adjacent surfaces.
- G. Upon completion of work, finish surfaces must be free of tool marks, scratches, blemishes, and stains.

TESTING

- D. Specification Compliance: After final connections are made and prior to authorizing payment, specified equipment must be tested for compliance with all specified features. This testing must be performed by the manufacturer or the manufacturer's designated representative only. This testing must not be performed by the installer, unless the installer is also the manufacturer.
- E. Performance Testing: Each washer must consecutively wash five vehicles of Owner's choice within 45 minutes.

- F. Equipment must not damage vehicles, including mirrors, windshield wipers and windows, or equipment itself.
- G. Malfunctions during testing must be corrected within five days and re-tested. Malfunctions during second testing must be corrected within five days and retested.
- H. Inadequate Performance: If equipment fails the third test, Owner may elect to have all specified Vehicle Wash Equipment removed from site at no cost or obligation to Owner.

CLEANUP

- I. Touch-up damage to painted finishes.
- J. Wipe and clean equipment of any oil, grease, and solvents, and make ready for use.
- K. Clean area around equipment installation and remove packing or installation debris from job site.
- L. Notify Owner for acceptance inspection.

TRAINING

- M. Direct the technical representative to provide specified hours of training to designate Owner's maintenance personnel in operation and maintenance of the following equipment. Coordinate, with Owner, training schedule and list of personnel to be trained.

A. WASHER, DRIVE-THROUGH, FOUR BRUSH

Equipment Mark Number: 3900 Hours Required: 4

- N. Obtain, from technical representative, a list of Owner's personnel trained in equipment operations and maintenance.
- O. Provide a Windows compatible movie file format recording on DVD disk of the training session. The DVD training movie can be of a live session or a produced training video.

EXISTING EQUIPMENT REMOVAL

Vendor to remove existing vehicle wash equipment required to install the new equipment. Removal is limited to equipment and equipment-mounted components. Utilities must be disconnected at the equipment interface.

OWNER AND VENDOR RESPONSIBILITIES

Owner Responsibilities

- A. Provide electrical, water, drain, and other utilities to designated equipment connection points.
- B. Perform all work required to route, extend, relocate, resize, or otherwise modify utilities to serve the new equipment.

Vendor Responsibilities

- A. Connect vehicle wash equipment to Owner-provided utility connection points.
- B. Provide all equipment-side piping, wiring, hoses, and fittings necessary for connection.

No other work is included in this Section.

INSPECTION, TESTING, AND ACCEPTANCE

After final connections are made, the Vehicle Wash Equipment must be tested using Owner vehicles. Five vehicles must be washed within a 45-minute period. Equipment must operate in accordance with specifications. If equipment fails to perform, corrective action must be taken as specified in Section 1.03.



INVITATION FOR BID (IFB)

QUESTIONS AND ANSWERS

Project Title: Bus Wash

IFB Reference No.: FY26-I-003

Issuing Organization: Des Moines Area Regional Transit Authority

Issue Date: February 5, 2026

Q&A Addendum No.: 5

QUESTIONS AND ANSWERS

Question 1

Please supply a plan holders list.

Answer:

There is no plan holders list.

Question 2

Please confirm that this project is funded by the FTA.

Answer:

There is federal and local funding being used to purchase and install this equipment.

Question 3

Please confirm that a bid bond is or is not required to bid this project.

Answer:

There is no bid bond requirement for this solicitation.

Question 4

Please confirm that the bidder will need to hold a general contractors license to bid this project due to the alteration of the building.



Answer: There are no alterations to the building. This project is to remove and replace bus wash equipment only in its existing location.

Question 5

N/S Corporation is a WBE. Is there any WBE or DBE goal in this project?

Answer:

There are no WBE or DBE goals.

Question 6

Please supply all above ground and below ground DWGs of existing bus wash system.

Answer:

These are available at <https://ridedart.bonfirehub.com/projects/215603/publicFiles>

Question 7

Is Section 11.11.26 part of a larger construction project?

Answer:

No, this project is focused on replacing this existing bus wash equipment only.

Question 8

Please confirm since the advertisement for bid that it is not allowed for any bidder or subcontractor to reach out to any DART employee or architect associated with this project other than the listed contact per the bid documentation.

Answer:

See Section 2.2 Restriction on Communication.

Question 9

There is reference to a heater in the DWG's and in the specification. Please confirm that this equipment is in the project.

Answer:

There is a heater in the bay, but it is not part of the project. The information provided is to show it is there and to work around it.



Question 10

Please provide an addition Q/A period if clarification is needed from the Answer from DART.

Answer:

See Section 2.14 Bid clarification process. Currently, DART does not anticipate adding another question-and-answer period.

Question 11

H. Miscellaneous/Page 13

J. (2) Air: Provided by wash manufacturer.?? Please confirm that there is shop air in the wash bay that will be provided by owner for bus wash manufacturer.

Answer:

The bus wash manufacturer shall provide the air system as part of the complete wash system. This is called out on the specifications as 3900L and located in the support equipment alcove.

Question 12

If a manufacturer is listed in the bid documents, is it necessary to request approved equal. 1.06 Product Substitution (page 5) Substitution Approval: Manufacturers listed for each equipment item may bid without submittal for that item. Manufacturers not listed shall submit for approval in accordance with "Instructions to Bidders". Prior to procurement, submittals for each equipment item by Mark Number shall be provided in accordance with Division 1- General Requirements.

Answer:

Due to the requirement of replacing existing equipment using the existing location without modification and the ability to relocate the equipment to new location in the future, any equal or equivalent must be pre-approved to ensure compatibility.

Question 13

Please supply pre bid sign in sheet.



Answer:

This is available at: <https://ridedart.bonfirehub.com/projects/215603/publicFiles>

Question 14

Can a bidder set up an additional site visit in order to bring sub's in to look at project?

Answer:

Yes, but must coordinate with DART Issuing Officer.

Question 15

Cyber Liability On page 8 of the General Terms and Conditions, it is stated that a \$3,000,000 cyber liability policy is required. However, the Dart Privacy & Security Standards specify a requirement for a \$5,000,000 policy. Since our scope of work involves only the removal and replacement of equipment, with no data handling or network connection involved, could you please advise if obtaining this additional coverage is necessary?

Answer:

DART will waive this requirement.

Question 16

Section 1.05 Submittals 1. Section D requires shop drawings to be stamped, but is this necessary since this isn't a construction project?

Answer:

The wash manufacturer's equipment drawings do not need to be stamped but must clearly show proof that they are the manufacturer's final engineered drawings.

Question 17

Please list the vehicles you plan to wash as required by section E of the #0704-03 construction documents.

Answer:

40', 35',30', 29' heavy duty buses. 27'-31' medium duty buses, 25' light duty buses and support vehicles varying from pick-up trucks to small sedans.



Question 18

Section B Sequence of operation 2. States reclaim water is used for chemical applications. Should fresh water be used for this function?

Answer:

No, not at this location.

Question 19

Section B Sequence of operation 3. states the brushes can wrap the front and back, the XJ-404RW uses a fixed front brush, please confirm the brushes scrub the sides and wrap the back. NOTE: Touchless cleaning is used for the front. (Reference C.6. Counter Rotating Brush Module).

Answer:

No, brushes must be able to wrap and wash the front and rear of the bus.

Question 20

Section B Sequence of operation 4. refers again to the front scrubbing or front wrap, typical XJ-404RW uses touchless for the front, friction for the sides and the back. Please confirm.

Answer:

No, brushes must be able to wrap and wash the front and rear of the bus.

Question 21

Section B Sequence of operation 6. for this XJ-404RW design the reclaim water is used for the wheel and chassis wash, please confirm.

Answer:

This is correct.

Question 22

Section C Features and Construction 1. Roof Mop B. Typical Mop Curtain frame construction is galvanized, is galvanized acceptable or is an upgrade to stainless steel required?

Answer:

Galvanized is acceptable.



Question 23

Counter rotating brush B.1) Please confirm that all frames and supports must be hot dip galvanized, as both approved vendors can meet this requirement. If aluminum is approved as an alternative, will hard coat anodizing be required to protect it from corrosion and oxidation, similar to how galvanizing protects steel?

Answer: Aluminum is not approved.

Question 24

Please supply readable existing shop DWG. What was supplied was of no help. Please supply full DWG on one- page or take picture.

Answer:

These are available at <https://ridedart.bonfirehub.com/projects/215603/publicFiles>

Question 25

Section C Features and Construction 1. Roof Mop B Typical Mop Curtain frame construction is Aircraft Grade Aluminum, is this upgrade acceptable to galvanized steel?

Answer: Aircraft Grade Aluminum is not approved.

Question 26

Section 1.05 Submittals 1. Section D requires shop drawings to be stamped, but is this necessary since this isn't a construction project? How does this bidder know that this is not a construction project?

Answer:

The wash manufacturer's equipment drawings do not need to be stamped but must clearly show proof that they are the manufacturer's final engineered drawings.

Question 27

a. Counter rotating brush B.1) Please confirm that all frames and supports must be hot dip galvanized, as both approved vendors can meet this requirement. If aluminum is approved as an alternative, will hard coat anodizing be required to protect it from corro

b. How does this bidder know what type of material a manufacturer utilizes?



Answer:

- a. Aluminum in not approved.
- b. It is the bidder/contractor’s responsibility to read the specification and provide a product that meets all requirements including materials.

Question 28

Please supply the date/ location that the transit facility personnel has actually seen the XJ-404RW in operation. Please supply the date/ location that the transit facility personnel have visited to observe other manufactures in operation.

Answer:

The XJ-404RW is referenced in the specification solely as an example to illustrate the minimum performance characteristics required for this application and is not intended to limit competition. The transit facility is not requiring that personnel have physically observed all referenced or alternative systems in operation in order for a solution to be considered responsive.

Proposed alternate systems are acceptable provided the vendor can demonstrate, through verifiable documentation, that the proposed solution meets or exceeds all specified performance requirements, does not require permanent real property or infrastructure modifications, and can be relocated to a future facility.

Evaluation of compliance will be based on the information submitted by the vendor, including technical specifications, performance data, case studies, and other supporting documentation deemed necessary by DART.

Vendors proposing alternatives are responsible for clearly demonstrating equivalency or superiority to the stated performance requirements.