

FORM N: DETAILED SPECIFICATIONS 24026

WATER RESCUE BOAT

1. INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 1.1 All items in these specifications should be answered indicating compliance or non-compliance.
- 1.2 **Bidder shall state “yes” for compliance or state “deviation”**, or give a reply where requested to do so. Deviations and/or equivalents shall be clearly stated and fully detailed. Deviations and/or equivalents will be considered subject to evaluation. In every instance where a brand name or design specifications is used, the City will also consider deviations and/or equivalents.
- 1.3 Lengthy explanations of deviations may be included in a separate document and must reference the appropriate Detailed Specification.
- 1.4 Each Proponent is required to fill in every blank. Failure to do so may be used as a basis for rejection of bid.
- 1.5 It will be the responsibility of the Proponent to inform the City of any errors or omissions in these Detailed Specifications, for under this Contract, the Contractor shall be held responsible to ensure that the manufacturer will be responsible for the design, performance, reliability and satisfactory operational function of the unit.

2. DESCRIPTION OF EQUIPMENT

- 2.1 These specifications describe **Water Rescue Boat** and other equipment and features as specified herein.
- 2.2 The **Water Rescue Boat** shall be a new **2024** model year or newer.
- 2.3 The **Water Rescue Boat** and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 2.4 The ratings specified herein merely state the minimum values acceptable to the City, not implying that those values are sufficient for the design of the particular equipment being bid.

3. OTHER SPECIFICATIONS AND STANDARDS

- 3.1 All applicable SAE Standards form an integral part of the vehicle specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 3.2 Where applicable, the **Water Rescue Boat** shall comply with the applicable regulations:

Transport Canada, National Safety Mark, NSM:
<http://www.tc.gc.ca/eng/acts-regulations/acts-road.htm>

Manitoba Safety and Health Regulation, Parts 12, 16, 22:
https://www.gov.mb.ca/labour/safety/pdf/1_2016_wsh_ar_oc.pdf

Canadian Motor Vehicle Safety Standards C.M.V.S.S.
[Motor Vehicle Safety Regulations \(justice.gc.ca\)](http://www.justice.gc.ca/motor-vehicle-safety-regulations)

Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker.
<http://web2.gov.mb.ca/laws/regs/index.php?act=h60>

Canadian Standards Association, CSA:
<http://www.csagroup.org/>

Under Writers of Canada, U/L:

[Underwriters Laboratories of Canada \(ULC\)](#)

Society of Automotive Engineers, SAE:
<http://www.sae.org/>

City of Winnipeg Lighting Visibility Standard:
<http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>

Manitoba Building Code:
https://web2.gov.mb.ca/laws/regs/current/_pdf-regs.php?reg=31/2011

Canada Shipping Acts - Small Vessel Regulations
[Small Vessel Regulations \(justice.gc.ca\)](#)

4. FUEL

4.1 Where applicable, the equipment shall be fully fuelled upon delivery (no exceptions).

5. REFERENCES

5.1 Provide five (5) references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

6. MAKE & MODEL

6.1 State year, make and model being bid:

Model Year: _____

Make: _____

Model: _____

7. PERFORMANCE RELIABILITY

7.1 The responsibility for the design of the **Water Rescue Boat**, its performance and reliability shall rest upon the Contractor.

7.2 The term "repeated failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, of assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of "repeated failures", as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer's preventative maintenance schedule.

7.3 Where the **Water Rescue Boat** develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.

7.4 The equipment shall be capable of consistent top performance in City of Winnipeg Environment. **Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C).**

8. SERVICE FACILITY

8.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator

9. QUALIFICATIONS OF MANUFACTURER & CONTRACTOR

9.1 The manufacturer of the Water Rescue Boat shall have five (5) years continuous experience manufacturing Water Rescue Boat.

9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.

9.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining Water Rescue Boat of the type being offered.

10. SPECIFICATIONS

Notes

10.1 Specifications Specifications are based on a River Raptor SR-XR-8 Rescue Raptor _____

Type

10.1.1 Type Water Rescue Boat _____

Make and Model

10.2 Equipment Make **State:** make: _____

10.3 Equipment Model **State:** model: _____

10.4 Equipment Model Year **State:** model year: _____

General Specifications

10.5 General Specifications _____

The City of Winnipeg requires one (1) **Water Rescue Boat** meeting the following specifications:

- Aluminum Hull
- Hull Shape: Modified V
- Propulsion: Inboard Jet
- Internal Layout: Walk-Around Center Console Forward
- Overall Length: 22 ft.
- Bow Tip to Transom Length: 19 – 20 ft.
- Bottom Width: 72 in.
- Beam: 95.3 in.
- Side Height: 30 in.
- Deadrise: 8 Degree
- Static Draft: 10 – 11 in.
- Draft on Plane: 3 in.
- Top Speed 48 mph
- US Coast Guard Compliant Construction



Drawings

10.6 Drawings

Contractor shall supply: _____

- Multi-view CAD drawings
- Drawings will be reviewed and approved as part of the Pre-Production planning stages
- Drawings are to include all dimensions, materials, and specifications as required
- Drawings are to be revised as requested by the City of Winnipeg
- Multiple drawing iterations may be required
- Construction of the water rescue boat shall not commence until approval is granted
- Upon request a 3D model to be made available

Note: Drawings can be supply as hard copies, PDF's or electronically

Hull

10.7 Design

Rugged, heavy-duty design to minimize damage from impact and abrasion as a result of contacting subsurface objects _____

10.8	Hull	<ul style="list-style-type: none"> • Aluminum 5052 • Aluminum 6061 extrusions • Bottom .190 in. • Sides .125 in. • Floor panels .125 in. • Delta Pad Intake System • Qty seven (7) Engineered, Laser Notched C Channel Longitudinal Stringer assemblies resulting in (14) continuously welded vertical leg stringers • Self-bailing deck system • Gunwale railings • Qty four (4) rear deck recessed tie-down tracks for removeable D-Rings (D-Rings included) • Qty four (4) front tie-down pods for D-Rings (D-Rings included) • Qty four (4) cleats (Port & Starboard Front & Rear) • Fold & Stow Boarding Ladder • 2 Rear Deck Davit Crane Receptacles (Port & Starboard) • Rear Deck Tow Tower Receptacle (Center Aft) 	_____
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Internal Layout

10.9	Design	<ul style="list-style-type: none"> • Centre console forward helm • Walk-around • Windshield • Integrated grab rails 	_____
10.10	Operator's Station	<ul style="list-style-type: none"> • Sit / lean helm seat 	_____
10.11	Jump Seat	<ul style="list-style-type: none"> • Fore-Console jump seat • Grab handles • Incorporated storage 	_____
10.12	Rear Seat	<ul style="list-style-type: none"> • Rear cockpit bench seat • Approximately 67 x 17 in. 	_____
10.13	Work Deck	<ul style="list-style-type: none"> • Flat rear work deck • Approximately 82 x 58 in. 	_____
10.14	Bow	<ul style="list-style-type: none"> • Platform with storage • Approximately 60 x 21 in. • Step box with storage 	_____
10.15	Storage	<ul style="list-style-type: none"> • Quick access cockpit gunwale storage • Port and starboard gunwale top access with removeable storage bins • Qty two (2) rear deck storage compartments with removeable storage bins 	_____

10.16	Engine Compartment	Rear deck engine compartment complete with lid and lifting shocks	_____
Drive System			
10.17	Engine	<ul style="list-style-type: none"> • 2.3L Indmar EcoBoost • 310 HP • Turbocharger 	_____
10.18	Pump	American Turbine SD-203 Pump	_____
10.19	Exhaust System	Wet exhaust system	_____
10.20	Fuel Tank	<ul style="list-style-type: none"> • 40-gallon capacity • Aluminum • Located in boat floor 	_____
Electrical			
10.21	Location	Electrical center located rear starboard	_____
10.22	System	CZone digital switching power distribution system	_____
10.23	Battery	<ul style="list-style-type: none"> • DEKA DKADP24 starting battery • 550 CCA 	_____
10.24	Display	<ul style="list-style-type: none"> • Garmin GPSMAP 743XSV MFD • 7-inch screen • Helm flush mounted 	_____
10.25	Key Switch	<ul style="list-style-type: none"> • Indmar key switch • Helm mounted kill switch with lanyard 	_____
10.26	Receptacle	12 V receptacle	_____
10.27	Bilge Pumps	<ul style="list-style-type: none"> • Dual Bilge Pumps • 900 GPH 	_____
10.28	Lights	<ul style="list-style-type: none"> • Qty three (3) LED bow-recessed light bars • LED Marine Light Kit <ul style="list-style-type: none"> ○ front and rear decks ○ cockpit • Rear post anchor light 	_____
Control			
10.29	Steering	270 Degree Helm Steering	_____
10.30	Shifter	Flow-Tec SDR Shifter <ul style="list-style-type: none"> • Single lever/dual function • Port side console mount • Start in gear protection • Full reverse gate control at neutral throttle 	_____
10.31	Protection	Start in neutral protection	_____

Options

10.32	Black-Out Package	<ul style="list-style-type: none"> • Black Nav Light Bases • Black Lid Hinges • Black Latch Pulls 	_____
10.33	Tow Tower	Machined Billet Aluminum Tow Tower	_____
10.34	T-Top	Fishmaster Pro Series folding T-Top	_____
10.35	Leaning Post	Fishmaster Pro Series leaning post	_____
10.36	Leaning Post Backrest	Fishmaster Pro Series leaning post backrest	_____

Deck

10.37	Hardware	<ul style="list-style-type: none"> • Hatch Latches – Lockable “T-Handle” • Stainless Steel Hardware • Stainless Steel Deck Lid Hinges 	_____
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Top Side Finish

10.38	Paint	Sikkens Autocoat BT paint	_____
10.39	UHMW	<ul style="list-style-type: none"> • ½ in. UHMW Applied With 3M 540 • ¼-20 stainless-steel socket flat head screws with neoprene backed sealing washers & stainless-steel Nyloks • Full bottom • Keel • 6-in vertical side 	_____
10.40	Walking Surface	Aqua Traction Advanced Marine Flooring package	_____

Safety

10.41	Horn	Required	_____
10.42	Navigational Lighting	Required	_____
10.43	Fire Extinguisher	<ul style="list-style-type: none"> • High volume ABC type • Securely mounted with quick release 	_____

Trailer

10.44	Trailer	<ul style="list-style-type: none"> • Load-Rite • LR-AS20T4200102TSVB2 • 4200 LB Capacity • Dual Axle Aluminum I-Beam Trailer W/Brakes • Aluminum Wheels • Plastic Bunk • Covers • Carpeted Side Guides • Spare Wheel & Tire Carrier • Jack • LED Lights 	_____
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11.0 **WARRANTY:**

11.1 All warranty information shall be detailed and **include all exclusions.** _____

The Contractor shall provide all published warranty information upon delivery of the equipment.

Bidder shall state all warranty information.

11.2 The warranty for the **Water Rescue Boat** shall cover the complete equipment, and all parts thereof against any defects of workmanship, construction and materials. _____

Any equipment that has become defective during said warranty period and has not proven to have been caused by negligence on the part of the user shall be repaired or replaced at no cost to the City.

The warranty shall be effective from the date the equipment is put into service by the City of Winnipeg

11.3 Basic Vehicle (Comprehensive) **State:** Terms: _____

11.4 Engine **State:** Terms: _____

11.5 Batteries **State:** Terms: _____

11.6 Trailer **State:** Terms: _____

11.7 Electrical **State:** Terms: _____

12.0 **DELIVERY:**

12.1 **Delivery Point:** _____

The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.V.I.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB.

12.2 **Delivery Time:** _____

Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days.

State: earliest delivery time from date of award: _____

12.3 **Delivery Contact:** _____

The Contractor shall contact the Contract Administrator prior to delivery of the equipment.

12.4 **P.D.I.:** _____

A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list

13.0 **MANUALS:**

13.1 **Manuals:** _____

The following manuals shall be supplied with the units when delivered:

Operator – Two (2) Copies

- One (1) copy shall be sent to the Equipment Operator Training Branch
- One (1) copy to be left with the equipment

Parts and Service

- One (1) complete set including preventative maintenance schedules

Note: CD or USB flash drive is preferred where available

14.0 **PARTS/LABOUR PRICING:**

14.1 Bidder to provide City of Winnipeg Parts Discount % Pricing from retail parts pricing. _____

State: percentage discount: _____

14.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from retail shop labor rate. _____

State: percentage discount: _____

15.0 **FIRST SERVICE PREVENTATIVE MAINTENANCE KIT:**

15.1 If applicable, in order to assure minimum downtime of the Equipment in future service, the Contractor must provide one (1) complete replacement set of new OEM filters for each unit purchased. The set of required filters shall include (if applicable to the equipment type) air, fuel, oil, transmission, cab and hydraulic, or otherwise all known necessary common replacement filters required for the first preventative maintenance servicing and first transmission service. _____

15.2 The Contractor must provide a list of Factory recommended lubricants to be used with the equipment, as well as a complete cross reference guide for all warranty approved lubricants and filters that can be used during Preventative Maintenance servicing. _____