

ISSUING DEPARTMENT INPUT DOCUMENT

CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

New
 OTR
 Sole Source
 Bid Waiver
 Emergency
 Previous Contract/Project No. FB-00461

Contract
 Re-Bid
 Other – Access of Other Entity Contract
 LIVING WAGE APPLIES: YES NO

Requisition No./Project No.: FB-01332
 TERM OF CONTRACT 5 YEAR(S) WITH 0 YEAR(S) OTR

Requisition /Project Title: Aquatic Weed Harvester Boats

Description: To establish a contract for the purchase of Aquatic Weed Harvester Boats for DTPW which includes all labor, materials, training, and other work and incidentals required to provide Aquatic Weed Harvester Boats on this contract.

Issuing Department: ISD/SPD
 Contact Person: Marie Williams
 Phone: 305-375-3248

Estimate Cost: \$2,200,000
 Funding Source: Operating
 GENERAL
 FEDERAL
 OTHER

ANALYSIS

Commodity Codes:	12008	12021	12023	95917	
Contract/Project History of previous purchases three (3) years Check here <input type="checkbox"/> if this is a new contract/purchase with no previous history.					
	EXISTING	2ND YEAR	3RD YEAR		
Contractor:	D&D Products dba Aquari				
Small Business Enterprise:	Bid Preference				
Contract Value:	\$915,992.00				
Comments:					

Continued on another page (s): YES NO

RECOMMENDATIONS

	Set-Aside	Subcontractor Goal	Bid Preference	Selection Factor
SBE				

Basis of Recommendation:

Signed: Marie Williams	Date sent to SBD: 12/23/19
	Date returned to SPD:

SECTION 2

SPECIAL TERMS AND CONDITIONS

2.1 PURPOSE

The purpose of this solicitation is to establish a contract for the purchase of Aquatic Weed Harvester Boats for Miami-Dade County (County) on behalf of Department of Transportation and Public Works (DTPW). The Awarded Bidder shall furnish all labor, materials, equipment, tools, and all other work and incidentals required to provide Aquatic Weed Harvester Boats on this contract.

2.2 TERM OF CONTRACT

The contract shall commence on the first calendar day of the month succeeding approval of the contract by the Board of County Commissioners, or designee, unless otherwise stipulated in the Blanket Purchase Order issued by the Internal Services Department, Strategic Procurement Division. The contract shall expire on the last day of the 60th month.

2.3 METHOD OF AWARD

Award of this contract will be made to the responsible bidder who submits the lowest priced responsive bid who meets the minimum requirements below and all of the technical requirements within Section 3 of this solicitation. Bidder shall submit required documentation with bid submittal or upon the County's request.

2.3.1 Bidder shall be an industrial Aquatic Weed Harvester Boat manufacturer or authorized dealer of the manufacturer. If the Bidder is the manufacturer, the Bidder shall submit a letter on company letterhead attesting they are the manufacturer. If the Bidder is a dealer of the manufacturer, the Bidder shall submit authenticating documentation from the manufacturer of their status as an approved dealer.

2.3.2 Bidder shall be regularly engaged in the business of providing Aquatic Weed Harvester Boats. Bidder shall submit two (2) references which can verify that the Bidder is currently providing or has provided goods and services within the past five (5) years similar to what is described in this bid solicitation. The references should include the customer's company name, length of business relationship, and the name, title, address, email address and telephone number of the contact person, who can verify that the Bidder has successfully provided such services that the Bidder is offering under this solicitation. These references shall ascertain to the County's satisfaction that the Bidder has sufficient experience and expertise in the industry.

2.3.3 Bidder shall have and provide contact information of its local representative in the South Florida Tri-county region (Palm Beach, Broward and Miami-Dade Counties) that will be used to perform warranty repairs and services.

Failure to meet these requirements may result in Bidder's offer being rejected. However, in accordance with Section 1, Paragraph 1.5.K, the County reserves the right to request and evaluate additional information.

2.4 **PRICES**

Bidder shall state its prices on the **Item Response Form**. If the Bidder is awarded a contract, the initial contract prices shall remain fixed for a period of one year after the commencement of the contract. Prices offered shall include, but not be limited to, all regulatory and other fees, assembly, training, manuals, tools, shipping/freight, warranty, all permits, applicable taxes, and any and all costs required to provide Aquatic Weed Harvester Boats as described in this solicitation.

2.5 **PRICE ADJUSTMENT**

The initial contract prices resultant from this solicitation shall prevail for a one-year period from the effective date of the Contract. Prior to the end of the initial one-year period and for each subsequent year thereafter, the County may consider price adjustments based on the percentage change in the value of the most recent Producer Price Index (PPI) for Boat Building, All other boats (excluding military and commercial), Commodity Series ID.: PCU3366123366128, as amended.

Any upward or downward adjustments shall not exceed 3% annually. The County reserves the right to apply any reduction in pricing for the additional term(s) based on the downward movement of the applicable index.

The adjustment will be applied by calculating the percentage change (increase or decrease) between the index values effective on the first day of the twelve (12) month period and the most recent index available on the day of adjustment. Day of adjustment will be the last business day of the twelve (12) month period.

It is the Awarded Bidder's responsibility to request any pricing adjustment under this provision. For any adjustment to commence on the first day of next one-year period, the request for adjustment should be submitted at least sixty (60) calendar days prior to expiration of the then current one-year period. The Awarded Bidder's adjustment request cannot be in excess of the relevant pricing index change. If no adjustment request is received from the Awarded Bidder, the County will assume that the Awarded Bidder has agreed to waive any pricing adjustment the applicable purchase.

The County reserves the right to reject any price adjustments submitted by the Awarded Bidder if they are not in accordance with the above or to terminate the contract with an Awarded Bidder based on such price adjustments. The County reserves the right to negotiate lower pricing for the additional term(s) based on market research information or other factors that influence price.

2.6 “EQUAL” PRODUCT CAN BE CONSIDERED UPON RECEIPT OF SPECIFIED DATA

Manufacturer's names, brand names and/or model number information contained in this solicitation, if any, are being used for the sole purpose of establishing the minimum requirement of level of quality, standard of performance and design, and is in no way intended to prohibit the offer of another manufacturer's products of equal material unless otherwise indicated herein.

This solicitation requires submission of the following documentation to enable County evaluation of “equal” products: 1) Product Information Sheets and 2) Safety Data Sheets.

If an “equal” product is considered by the County, the product shall be equal in quality and standards of performance to the product specified in the solicitation. Where an “or equal” product is offered, product information is required with the initial offer and shall be submitted with two (2) complete sets of product information sheets (such as factory specifications, standard manufacturer information sheets, catalogues, and brochures), and if requested by the County, two (2) copies of performance test results of the boat offered as an equal. Also, for product information submittals, all supporting documentation submitted by the Bidder must in total meet the required specifications set forth in this solicitation.

Where the standard product literature submitted with the offer provides information that does not comply with the specifications, the Bidder shall state, in an official letter on corporate letterhead as part of their initial offer, the differences between the item they are specifically offering, and the equipment described by the standard product literature, to substantiate compliance to all of the specifications set forth in this solicitation. In such cases, any offer submitted with standard product literature but without the letter explaining compliance may result in the rejection of the offer for not meeting the solicitation specifications.

If samples of all “or equal” items bid are required for evaluation, such items are to be provided at no cost to the County, and should be submitted with the initial offer, or at the time of specific request. Failure to meet this requirement may result in your offer being rejected.

For “equal” products to be evaluated based on submission of product labels, the initial offer should be accompanied with labels indicating the specification and ingredients for each “or equal” item offered. Failure to meet this requirement may

result in the offer being rejected.

The County shall be sole judge of equality, based on the best interests of the County, and its decision in this regard shall be final. Items labeled "No Substitute" on the solicitation are the only products that will be accepted under this solicitation.

2.7 INSURANCE REQUIREMENTS TO BE DETERMINED OR

See Section 1, Paragraph 1.22.

2.8 METHOD OF PAYMENT

The Awarded Bidder shall submit an invoice(s) to the County. The date of an invoice shall not exceed 30 calendar days from the delivery and acceptance of the boats. DTPW requires invoices be of clear quality, include the correct remittance address, not on dark paper (when possible), and sent to:

Miami-Dade County, Finance Department
Attn: Shared Services Payable Unit
C/O Miami Dade Transportation and Public Works Dept.
111 NW 1st Street, 26th Floor
Miami, FL 33128

OR

the virtual portal for invoice submission at invsubp@miamidade.gov

Refer to Section 1, General Terms and Conditions, Article 1.35, Invoices for further requirements. Failure to submit invoices in the prescribed manner will delay payment.

2.9 PRECONSTRUCTION CONFERENCE AND PRODUCTION/PROTOTYPE INSPECTION

2.9.1 The Awarded Bidder shall be required to attend a Pre-Construction Conference conducted by the County prior to the initial manufacturing or assembly of the boat as specified in this solicitation. The County will select the location of this construction conference. Any costs incurred by the County in conjunction with the pre-construction conference will be borne by the County.

2.9.2 The Awarded Bidder shall provide an on-site production/prototype inspection of the first boat manufactured at a time and location which is mutually convenient to the Awarded Bidder and the County staff attending. This inspection shall be performed prior to the final assembly of the boat in order to evaluate the placement of controls and lines, structural changes and general construction techniques. The Awarded Bidder shall provide one (1) month advance notice to DTPW prior to the scheduling of the on-

site production inspection.

2.9.3 The County reserves the right to require multiple production inspections where multiple locations or companies are involved with the construction of a final boat. Any costs incurred by the County in conjunction with on-site production/prototype inspection will be borne by the County.

2.9.4 The County reserves the right to require modifications to the boat if such modifications are necessary in order to bring the equipment into compliance with the technical specifications, the Awarded Bidder's offer, or best commercial practices. No material changes shall be made to the County's technical specifications or the Awarded Bidder's offer.

2.10 DELIVERY

The Awarded Bidder shall make delivery of the Aquatic Weed Harvester Boat(s) within 210 calendar days after the date of the Purchase Order. All boats do not have to be delivered at one time. All deliveries shall be made in accordance with good commercial practice and all required delivery timeframes shall be adhered to by the Awarded Bidder; except in such cases where the delivery will be delayed due to acts of nature, strikes, or other causes beyond the control of the vendor. In these cases, the Awarded Bidder shall notify DTPW of the delays in advance of the original delivery date so that a revised delivery schedule can be appropriately considered by DTPW.

Should the Awarded Bidder fail to deliver in the number of days stated above, it is hereby agreed and understood that the County reserves the right to cancel the contract with the Awarded Bidder and to secure the services of another vendor to complete the work. If the County exercises this right, the County will be responsible for reimbursing the Awarded Bidder for work which was completed and found acceptable by DTPW in accordance with the contract. The County may, at its option, demand payment from the Awarded Bidder, through an invoice or credit memo, for any additional costs over and beyond the original contract price which were incurred by the County as a result of having to secure the services of another vendor. If the Awarded Bidder fails to honor this invoice or credit memo, the County may terminate the contract for default.

The Aquatic Weed Harvester Boats shall be delivered ready to use and serviced with all equipment needed for immediate operation to:

Miami-Dade County Auto Shop #3
8801 NW 58 Street
Miami, FL 33178

Days: Monday through Friday
Hours: 7:00 AM to 3:00 PM (Local Time)

The Aquatic Weed Harvester Boats shall be constructed, prepared and protected

from damage likely to be caused during handling, shipping, and off-loading. Valuable and easily pilfered parts such as tools and loose small items shall be shipped in such a manner as to resist pilferage.

2.11 ACCEPTANCE BY THE COUNTY

When all requirements and conditions stated in this solicitation have been met, including correcting deficiencies, providing required lists/documentation, etc., the boat(s) will be accepted and dated by the County.

After award, if the Awarded Bidder's boat is determined to not meet the specifications and requirements of this contract, either prior to acceptance or upon initial inspection, the boat will be returned to the Awarded Bidder at their expense. At the County's sole option, the County will notify the Awarded Bidder to either provide a replacement for the boat or a full credit for the returned boat. The Awarded Bidder shall not assess any additional charge(s) for any conforming action taken by the County under this clause.

If the Awarded Bidder fails to provide the replacement Aquatic Weed Harvester Boat within the period specified in the notice, the County may (a) place the Awarded Bidder in default of its contract, and/or (b) procure the products or services from another vendor and charge the bidder for any additional costs that are incurred by the County for this work or items; either through a credit memorandum or through invoicing.

2.12 WARRANTY

In addition to Section 1, Paragraphs 1.7 and 1.8, the following applies to this solicitation:

2.12.1 A copy of the manufacturer's and/or supplier's certificates of warranty should be submitted with the bid submittal; however, it must be submitted at the time of specific request of the County. The warranty certificates shall provide a comprehensive liability of all components that are covered under the warranty.

2.12.2 Type of Warranty Coverage Required:

In addition to all other warranties that may be supplied by the Awarded Bidder, the Awarded Bidder shall warrant its products and/or service against faulty labor and/or defective material, for a minimum period of one (1) year after the date of acceptance of the Aquatic Weed Harvester Boat, labor, materials and/or equipment by the County. This warranty requirement shall remain in force for the full one (1) year period; regardless of whether the Awarded Bidder is under contract with the County at the time of defect. Any payment by the County on behalf of the goods or services received

from the Awarded Bidder does not constitute a waiver of these warranty provisions.

2.12.3 Correcting Defects Covered Under Warranty

The Awarded Bidder or its local representative shall promptly correct any deficiency, at no cost to the DTPW, within five (5) business days after the County notifies the Awarded Bidder of such deficiency in writing. If the Awarded Bidder fails to honor the warranty and/or fails to correct, repair or replace the defective work or items within the period specified, the County may, at its discretion, notify the Awarded Bidder, in writing, that the Awarded Bidder may be debarred as a County bidder and/or subject to contractual default if the corrections or replacements are not completed to the satisfaction of the County within fourteen (14) calendar days of receipt of the notice.

If the Awarded Bidder fails to satisfy the warranty within the period specified in the notice, the County may (a) place the Awarded Bidder in default of its contract, and/or (b) procure the products or services from another vendor and charge the bidder for any additional costs that are incurred by the County for this work or items; either through a credit memorandum or through invoicing.

2.12.4 Correcting Repeat Failures Covered Under Warranty

If any warranty repair experiences a repeat failure within fifteen (15) calendar days following the repair due to faulty workmanship supplied by the Awarded Bidder or its local representative, it hereby understands and agrees that it will repair the failure and incur any and all costs associated with the repeat failure within two (2) business days after notification of the failure by a DTPW representative. If the Awarded Bidder fails to complete the repair and/or supply the parts within this prescribed period, the County may, at its sole discretion, deduct **\$200.00** for each business day that the repair remains incomplete and/or the parts are not delivered; either through a credit memorandum, a deduction from an appropriate invoice from the Awarded Bidder, or through a separate invoice from the County.

2.13 **COMPLIANCE WITH GOVERNMENT STANDARDS**

All items to be purchased under this contract shall be in accordance with all governmental standards, including, but not be limited to, State and Federal and American National Standards Institute (ANSI) requirements and standards, Florida Department of Transportation (FDOT) and those issued by the Occupational Safety and Health Administration (OSHA).

2.14 OMISSION FROM SPECIFICATIONS:

The apparent silence of the specification and any addendum regarding any details or the omission from the specification of a detailed description concerning any point does not relieve the bidder from furnishing a complete and ready to work boat, and shall be regarded as meaning that only the best commercial practices are to prevail, and that only new materials and skillset of first quality are to be used. All interpretations of the technical specifications herein shall be so governed.

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SECTION 3
TECHNICAL SPECIFICATIONS

3.1 SCOPE OF WORK

This contract is for the purchase of Aquatic Weed Harvester Boats for the Department of Transportation and Public Works (DTPW). The Awarded Bidder shall furnish all labor, materials, training, and all other work and incidentals required to provide Aquatic Weed Harvester Boats (boats) on this contract.

The Aquatic Weed Harvester Boats shall be new and the most recent model available. Any optional components of the Aquatic Weed Harvester Boats, which are required in accordance with the contract specifications and recommended by the manufacturer for the application intended must be included and will be considered standard equipment for the purposes of this solicitation. The application and usage of all components, sub-components or parts must be in accordance with their manufacturers' recommendations as well as the recommendations of all associated component manufacturers. Demonstrator models will not be accepted. Omission of any essential detail from these specifications does not relieve the Awarded Bidder from furnishing a complete boat. The boat shall conform to all applicable OSHA, State, and Federal safety requirements. All components and services (whether primary or ancillary) of the boats are to be in accordance with current Society of Automotive Engineers (SAE) standards and recommended practices. The engineering, materials, and skillset associated with effort performed hereunder shall exhibit a high level of quality and appearance consistent with or exceeding industry standards.

3.2 GENERAL INFORMATION

Miami-Dade County utilizes mechanical harvesting to control aquatic weeds, in canals, waterways and lakes throughout the County. The Aquatic Weed Harvester Boats are used to remove submerged aquatic vegetation/weeds and other items illegally dumped in the waterways. This prevents aquatic weeds from obstructing the flow of water and blocking the canal systems, which are a critical component of the County's overall drainage system to minimize flooding. The County removes approximately 3,500 tons of aquatic weeds every year.

The primary function of the boat is to tow a plow/cutter behind the boat to cut or uproot submerged aquatic vegetation. These boats are highly specialized with a unique design. The length, width and height of the boat are limited due to canal widths, turning radius limitations, water depth and clearance between existing water levels and bridges or culvert structures. Thus, there is little room for variance concerning the length, width, and height dimensions of the boat as per the specifications. In addition, the boat is exposed to bottom hazards such as

sharp pointed boulders and sunken vehicles. Therefore, the boat shall be designed with the appropriate bottom protection.

The County's current Aquatic Weed Harvester Boats weigh approximately 18,000 lbs. each. The plows weight 1,000 lbs. each.

3.3 DETAILED DRAWINGS

Upon final assembly of the constructed boat, before shipment to the County, a set of detailed drawings shall be submitted to the Miami-Dade County Fleet Management Division and DTPW's Road, Bridge and Canal Maintenance Division.

3.4 WATER TRIALS AND TESTS

3.4.1 The Awarded Bidder will be required to conduct water trials for each boat with County personnel prior to delivery. The Awarded Bidder may select the location of the trials, subject to agreement by DTPW. The trials must be conducted in an environment similar to that which the boats will be subjected to during normal usage.

3.4.2 The operational parameters and aspects of all equipment, instrumentation, and the performance abilities of the boats must be tested according to acceptable industry practices. The written results of the testing must be provided to the County for additional review, evaluation, and comment.

3.4.3 If any operational or performance metric of the boats does not meet the standards required, the Awarded Bidder agrees to correct such deficiencies prior to the delivery and acceptance of the boats by the County.

3.4.5 Water trials and tests will be at no cost to the County.

3.5 PARTS AND FITTINGS

3.5.1 Parts and fittings for the boat and its accessories (i.e. engine and accessories, hydraulic lines, hydraulic pumps and valves, hydraulic motors, hoses, fittings, bolts, hardware, electronics etc.) shall be of a manufacture, design and size that are readily available from South Florida tri-county region suppliers.

3.5.2 Hydraulic fittings for hoses and pumps shall be at minimum #304 or #316 stainless steel. Tubes shall be a minimum .049 stainless steel. Pot metal, inferior metallic fittings or plastic fittings will not be accepted. Hydraulic hoses shall be of sufficient size and/or pressure rating of the hydraulic pumps and all circuits and devices

- 3.5.3 Odd sized, hard-to-find and, or single source items are not to be used. The Awarded Bidder shall submit a listing of suppliers located in the South Florida tri-county region who are available to supply parts and fittings for the boats. The list should be submitted with the bid submittal; however, it must be submitted at the time of specific request of the County.
- 3.5.4 The Awarded Bidder shall supply a complete list (also known as a line setting ticket) of all components for the entire boat, which shall include manufacturer's part name, part number, description, warranty and supplier or Awarded Bidder (name, address, and phone number), etc. The list shall be submitted to DTPW, before the completed boat is shipped.
- 3.5.5 DTPW will review the aforementioned lists to ensure compliance with all requirements stated in this solicitation. Failure to comply with this requirement shall result in an order from the County to NOT ship the boat, as it will not be accepted.

3.6 GENERAL HARVESTER REQUIREMENTS

- 3.6.1 The boats shall conform to all Federal, State, Marine, and safety regulations.
- 3.6.2 The boat shall not be foreign built, pursuant to **Federal Statute Title 46 United States Code, Section 292.**
- 3.6.3 This boat shall be eligible for State of Florida Marine Boat Registration.
- 3.6.4 The hull configuration shall be a streamlined design to allow the most rapid response to operator controls (steering, forward, reverse). A square barge configured hull is not acceptable. This is a safety issue because the boat will be operating in fast moving currents near to bridges, floodgates, and dams. Rapid response and maneuverability is critical.
- 3.6.5 The boat shall be a completely self-contained system; self-powered, capable of being operated by one-person on the water, and transportable over land by trailer.
- 3.6.6 The boat shall be capable of towing (dragging) a submerged 1,000 lb. cutting blade (plow) to cut or uproot bottom vegetation.
- 3.6.7 The boat shall be capable of gathering floating vegetation and debris with a front mounted basket.
- 3.6.8 The boat shall be capable of discharging the load upon a canal/river bank or barge.

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Please provide me with a copy Section 292 as I cannot locate it at <http://uscode.house.gov/> as below:

- ☐ Title 46—Maritime
- ☐ Title 46—Shipping
 - TITLE 46—Front Matter
 - ☐ Subtitle I—General (sections 101 to 505)
 - Subtitle I—Front Matter
 - ☐ CHAPTER 1—DEFINITIONS (sections 101 to 116)
 - ☐ CHAPTER 3—FEDERAL MARITIME COMMISSION (sections 301 to 308)
 - ☐ CHAPTER 5—OTHER GENERAL PROVISIONS (sections 501 to 505)
 - ☐ Subtitle II—Vessels and Seamen (sections 7101 to 15100)

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- 3.6.9 The boat shall be capable of each operation independently.
- 3.6.10 The boat shall be capable of being configured for land transportation without disassembly.
- 3.6.11 All bolts and fasteners shall be marine grade stainless steel or cadmium plated steel Grade 8 as required for corrosion resistance and/or maximum clamping strength.
- 3.6.12 Any required odd shaped, special type, or specially configured tools, which are not standard tools, shall be identified and supplied at the time of delivery of each boat by the manufacturer or authorized dealer of the manufacturer.

3.7 BOAT CONFIGURATION

- 3.7.1 The general hull shape, design, and configuration shall be similar to the existing "porpoise shape" hull boats presently operated by the County. See Exhibits A and B for general illustrations.
- 3.7.2 Construction shall be in accordance with American Society for Testing Materials (ASTM) specification A131-AH36 carbon steel or approved equal. A 5/16" plate shall be used for the bottom and sides. The side-to-bottom connection seam for the full outside length of the boat shall include a 3/8" thick, 3" angle to serve as a wear plate. This angle shall be a continuous weld. Spot welds or stitch welds are not acceptable.
- 3.7.3 Boat shall be 20 ft. long (not including the basket) with 8 ft. beam.
- 3.7.4 Boat shall have a squared off, approximate 45 degree front bow design.
- 3.7.5 The engine compartment shall have a protective covering on all sides to protect from water intrusion. The engine compartment shall have diamond-plate aluminum hatch covers capable of withstanding foot traffic. The hatch covers shall be designed and fabricated to be opened without strain on the operator. Gas lift support cylinders shall be installed on the hatch covers to assist lifting and holding covers in the open position. A central locking system shall be incorporated into each hatch cover with lockable handle located in operator compartment. Each shall consist of single rod with doglegs that engage rings attached to bottom side of hatch when in locked position. See Exhibits A and B for general illustrations.
- 3.7.6 A ridge vent shall be constructed between engine hatch covers that shall supply fresh air to engine compartment while preventing the direct water entry. The ridge vent shall match the engine hatch cover in length exempting the last 28 inches before the winch compartment. Ridge vent height shall not exceed 2 inches; airflow entry shall follow an "S" path

configuration.

- 3.7.7 The operator compartment shall have a protective covering on all sides to protect from water intrusion. The operator compartment shall be fitted with ¼" diamond plate aluminum hatch covers. The hatch covers shall be in 3 sections designed with forward-most hatch sliding forward within a set of roller tracks, then the middle and rear covers folding on top of and ahead of the operator compartment when in the open position. The hatch covers shall be secured with padlocks when closed. See Exhibits A and B for general illustrations.
- 3.7.8 Lower dash shall be padded with 4"x 54" with minimum 4" padding.
- 3.7.9 One (1) pedestal seat comprised of a Wise Big-Man or approved equal high back 300 lb. capacity folding chair, mounted on an Attwood SeaSport or approved equal fixed height bell pedestal with slide adjustment. The seat shall swivel 360 degrees with fore and aft adjustment.
- 3.7.10 Steering shall have a system which is hydraulically isolated from the basket lift and tilt system. Steering shall be with a 17" wheel through a Char-Lynn Model # 211-1001002 or approved equal steering unit and a Kobelt 7050-B7.5 or approved equal steering cylinder. Metallic piston required.
- 3.7.11 Dash gauges and control panel shall be John Deere Marine or approved equal, and shall include, but not be limited to, tachometer, fuel gauge, voltmeter, and engine temperature.
- 3.7.12 The boat shall be equipped with a Johnson Pump Aguajet WD 5.2 or approved equal deck wash down system. System location and plumbing to be determined at Pre-Construction conference (refer to Section 2.9).
- 3.7.13 One (1) Flex-a-Lite Trimline 116N fan or approved equal shall be installed into starboard side of the rear cockpit safety shield to provide cooling to the operator. The fan shall be wired with flex-coiled wire to provide unrestricted up and down travel of safety shield. The fan shall be controlled through a dash-mounted switch.
- 3.7.14 The electrical system shall be equipped with a marine grade battery-disconnect switch that is easily accessible from the operators station and a waterproof DC Hi-Amp circuit breaker for the fire suppression system which shall be wired to hot side of battery disconnect.
- 3.7.15 The electrical system shall include a Blue Sea System Model #5426036 or approved equal switch, and a breaker panel located in the cockpit dash to protect all lighting and accessory circuits. Switches and breakers shall be properly labeled to circuit and function.

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- 3.7.16 The boat shall be equipped with a Coast Guard approved automatic fire suppression system for size application, with manually activated override inside operator station.
- 3.7.17 The boat shall be equipped with a skeg system which shall include rudder stops at 35 degrees port and starboard. Access shall be provided for maintenance of rudder shaft and steering cylinder.
- 3.7.18 Navigation lights and horn shall be per U.S. Coast Guard requirements.
- 3.7.19 Rubrails / Rubwear protection: Exposed gunnels, bow, and sides shall include half round steel pipe front-to-back. Top of gunnels and bow shall be additionally protected with 4"x 4" reinforced plastic lumber, TriMax Structural Plastic Lumber or approved equal. The plastic lumber shall be black in color.
- 3.7.20 Four (4) heavy duty lifting eyes at 1" x 6" flat bar with 3" round openings shall be appropriately installed for balance when lifting the boat from the water and four (4) B40 size D-rings shall be welded to each lifting pad for boat tie-downs.
- 3.7.21 Port and starboard sides of front hull/deck shall have pockets/chambers that encompass the basket lifting cylinders. The pockets/chambers shall each have a below deck of 16 1/2" x 20 1/2" access port with removable cover to provide for maintenance of hydraulic cylinder, and debris removal; cylinder pin removal bung with PVC cap is also required. The top of the pockets/chambers shall have a flexible neoprene flap covers to allow cylinder movement while providing a seal against the entry of ducks, fish, snakes and other hazards. The pockets/chambers shall drain to the front bilge pump. A 4" drain plug shall be located on the keel or the lowest point of the boat.
- 3.7.22 The boat shall be so designed with a low profile so it can navigate under obstructions that are 24" above the surface of the water.
- 3.7.23 The rear deck shall be designed for retrieval and transport of the towed cutter/plow. The design of the boat shall take into consideration that the floatplane of the boat shall include the weight of the cutter/plow on the rear deck. Proper floatplane is critical as the boat gathers floating vegetation and operates the basket.
- 3.7.24 Each compartment shall include a submersible Rule 2000 GPH or approved equal heavy duty bilge pump with a Rule SuperSwitch or approved equal float switch, and individually controlled by a Rule or Johnson Pump or approved equal (automatic and manual override) panel switch. Pump through hull discharge fittings shall be marine grade stainless steel. For

purpose of maintenance and inspections, the pumps and float switches should be easily accessible without the use of tools. Pumps shall be wired to "hot-side" of battery disconnect.

3.7.25 The keel coolers shall be bow-to-stern (not starboard to port) configuration constructed with 8" steel channel. They shall be so designed and fabricated to allow sufficient water flow, while protecting the keel cooler tubes from vegetation and debris accumulation. An alternative configuration may be acceptable provided it is pre-approved in accordance with Section 2.9 herein.

3.7.26 The boat shall be designed with access ports strategically placed for easy access to hard-to-reach areas in order to service and repair the engine, transmission, hydraulics, accessories, etc. accordingly.

3.8 POWERTRAIN

3.8.1 The engine shall be a most current model diesel John Deere Model 4045AFM85 or approved equal with a 160 BHP rating @ -2300 rpm. The engine shall have/be:

- A. Air and oil filters
- B. An industrial muffler
- C. Above water exhaust
- D. Keel-cooled
- E. Electronic shut down system for low oil (10 psi), overheat (220 degrees), with warning light, audible alarm, and manual override not exceeding 30 seconds in duration
- F. Minimum 80 U.S. gallon fleet tank capacity
- G. Fuel-water separator (not heated) with paper filter element
- H. Engine oil pan fitted with an oil drain hose with an easily accessible quick-connect fitting.

3.8.2 Transmission shall be a Twin Disc MG-5061-SC or approved equal of appropriate ratio for engine, boat and perform intended work as described in Section 3.2.

3.8.3 Engine and transmission shall have individual/independent mounting. Engine shall have four (4) mounts independent of transmission mounts, so as to allow removal of transmission for maintenance without disturbing engine mountings.

3.8.4 Hydraulic system shall be powered by a Parker-Tyrone TP16-115/PVP16-452N55 pump or approved equal. Hydraulic pickup shall be located 1" above the bottom of the tank and return line at the top of the tank. Hydraulic tanks shall have ball-valve shut-offs installed on pump supply line

and on both sides of return line filter. All ball valves shall be safety tie-wired to the open position.

- 3.8.5 All hoses shall be number-marked indicating component attachment and/or function, and shall correspond with indications on hydraulic schematic.
- 3.8.6 A keel cooler shall be incorporated to maintain hydraulic system temperature.
- 3.8.7 Magnetic drain plugs shall be fabricated and installed in all tanks.
- 3.8.8 Engine shall be equipped with a sealed coolant system with John Deere long-life coolant or approved equal. Heat exchange cooling shall be accomplished through the keel coolers.
- 3.8.9 Propeller shaft shall be made of stainless steel with a 2" diameter of correct strength and design for engine torque and drive system. Shaft shall be installed with a 2" Cutlass or approved equal bearing on a removable bearing housing.
- 3.8.10 Quality marine shaft-through-transom packing with stainless steel or approved equal material or designed compression ring.
- 3.8.11 Three (3) blade brass propeller with weedless design of appropriate diameter and pitch for engine and boat to provide the best performance of intended work as described in Section 3.2.
- 3.8.12 Ladder rungs / steps shall be installed on engine side of the firewall between cockpit and engine compartment to provide ingress and egress. Rungs will be coated with a non-slip coating or adhesive tape.
- 3.8.13 Engine compartment floor shall have a removable aluminum grate-type walk surface.
- 3.8.14 Grease fittings for shafts, bearings, sleeves, etc. shall be easily accessible for servicing. Where access is limited, a grease tube / hose with a remote grease fitting shall be installed to provide grease maintenance without removal of component covers (i.e. drive shaft thru-hull bearing, basket lifting arm cylinder base pins, etc.

3.9 **BASKET AND WINCH**

- 3.9.1 Basket dimensions shall be 8'x 4'x 4' with recessed arms and covered with 3 lb. rated expanded metal.
- 3.9.2 Hydraulic lift cylinders shall be Yates Cylinder 303020PP-39.625 or

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approved equal. For maximum height lifting capability, all pivot points shall incorporate bronze bushings with pivot pin grease fittings.

- 3.9.3 Hydraulic tilt cylinders shall be Prince PMC42024 or approved equal. For maximum tilt / dumping capability, all pivot points shall incorporate bronze bushings with pivot pin grease fittings.
- 3.9.4 Basket shall be equipped with mechanical stops to limit tilt angle and prevent tilt cylinder damage.
- 3.9.5 Stainless steel hydraulic lines shall be configured and recessed within I-Beams to prevent damage.
- 3.9.6 Winch shall be hydraulic-powered Tulsa Model RN10WHRFO or approved equal. Winch shall have 10,000 lb maximum capacity with multiple speeds and free spool capability. Winch shall be configured to allow visibility to operator. Top of spool should be no more than 10½ inches above deck.
- 3.9.7 Winch compartment shall be designed and built to prevent debris from entering engine compartment (i.e.; expanded metal protection).
- 3.9.8 There shall be six (6) 2"x 12" roller type vertical cable-guide posts. Posts shall be solid round bar surrounded with replaceable pipe. Solid round bar shall have an upper washer and retainer pin/bolt and lower wear plate to prevent deck damage.
- 3.9.9 The rear plow storage steel roller shall be constructed of solid 3" x 56" round bar with ends machined to 1" diameter for pillow block bearing retention. Material and design must withstand the weight of a 1,000 pound plow.
- 3.9.10 A rear cockpit safety shield shall be made of steel and designed to protect the operator when the boat is in the towing or cutter/plow winch recovery mode of operation. It shall protect the operator from impact or whipping from a snapped/broken winch wire rope. A control shall be installed on dash to provide up-down operation.
- 3.9.11 Hydraulic valves shall be Gresen Model # V20-4 or approved equal. All hydraulic operated functions shall be momentary controls with spring return to neutral. There shall be four (4) individual valves or segments: basket raise / lower function, basket tilt / dump function, winch and cockpit safety shield. The valves shall control operational speed of each hydraulic function and shall incorporate a hydraulic pressure relief. Control locations shall be as follows:
 - A. Basket lift and dump controls shall be 11 ½" port of center of steering wheel.

- B. Tow winch control shall be 22 ½" port of center of steering wheel.
- C. Safety gate control shall be 31" port of center of steering wheel.

3.10 HULL CORROSION PROTECTION

The hull of these boats shall include the maximum protection from the corrosive elements to which the boats will be exposed. The Awarded Bidder shall strictly adhere to the specific hull coating requirements. Patch tests of the hull above and below the water line will be conducted by County technicians to verify that the Awarded Bidder has complied with the following specifications.

3.10.1 SURFACE PREPARATION:

All structural elements shall be thoroughly cleaned to remove all grease, oil and foreign material. Weld splatter, slag, flux, rust and corrosion shall be completely removed by chipping, wire brushing, shot blasting, sand blasting, etc.

3.10.2 PAINT/COATING OF INTERIOR AND EXTERIOR STEEL SURFACES:

A. Primer:

All bare steel or iron alloy surfaces that are prone to rust and corrosion shall be primed with Devco BarRust 235, Amercoat 235 or approved equal epoxy primer and applied to a thickness of 4 to 8 mils dry film thickness. All aluminum alloy surfaces prone to corrosion shall be primed with Devco Etching Primer or approved equal, and applied to a thickness of 2 to 4 mils dry film thickness.

B. Finish Coat:

All surfaces below the water line shall be finish coated with Devco Bar Rust 235, Amercoat 235 or approved equal epoxy paint and applied to a thickness of 4 to 8 mils. The finish shall be Machine Grey and free from defects and imperfections.

All surfaces above the water line shall be finish coated with Devco Devthane 379, Amercoat 450H or approved equal polyurethane and applied to a 2 to 4 mils dry film thickness. The finish shall be Machine Grey and free from defects and imperfections.

- C. Non-Skid Deck Coating: All deck areas subject to foot traffic shall have a non-skid coating such as Awlgrip-Griptex, Interlux 2398 Interthane Non Skid Additive Polymeric, or approved equal. The finish shall be Machine Grey and free from defects and imperfections.

D. The boats shall be guaranteed against peeling, cracking or oxidation for a period of one (1) year from date of acceptance. Refer to Section 2.12 for additional warranty information.

3.11 SCHEMATIC AND PICTURES OF AQUATIC WEED HARVESTER BOAT

3.11.1 The schematic illustration is provided only for the purpose of showing a general configuration of the boat, and should not be considered a scale drawing of the boat as it is not to scale. See Exhibit A: Schematic - Aquatic Weed Harvester Boats.

3.11.2 Pictures are provided for informational purposes only. See Exhibit B: Pictures - Aquatic Weed Harvester Boats.

3.12 TRAINING OF DTPW EMPLOYEES

The Awarded Bidder shall provide training within fourteen (14) calendar days after the Aquatic Weed Harvester Boats are accepted by the County. The Awarded Bidder's factory representative shall provide a minimum of eight hours of on-site testing and training for approximately 20 operators and technicians including, but not limited to, functionality, operation and maintenance of the boats. Training location and time will be determined by mutual agreement between the Awarded Bidder and the County just prior to delivery.

3.13 MANUALS

At the delivery for each boat, the Awarded Bidder shall provide the County, via hard copy, CD, jump drive or online access, the following:

3.13.1 One (1) complete set of operating manuals, detailed technical parts bulletin, schematics, engine manual, and operation and maintenance manuals, and

3.13.2 A minimum of one (1) comprehensive training manual which describes the appropriate use of the boats purchased, and

3.13.3 A minimum of one (1) comprehensive repairs and parts manuals which identifies the component 5parts and describes the appropriate process for repairing the boats.

SECTION 4
SUBMITTAL CHECKLIST

Reference Section	Requirements	Initial as submitted
2.3.1	Bidder shall be an industrial Aquatic Weed Harvester Boat manufacturer or authorized dealer of the manufacturer. If the Bidder is the manufacturer, the Bidder shall submit a letter on company letterhead attesting they are the manufacturer. If the Bidder is a dealer of the manufacturer, the Bidder shall submit authenticating documentation from the manufacturer of their status as an approved dealer.	
2.3.2	Bidder shall be regularly engaged in the business of providing Aquatic Weed Harvester Boats. Bidder shall submit two (2) references which can verify that the Bidder is currently providing or has provided goods and services within the past five (5) years similar to what is described in this bid solicitation.	
	<p>1) Reference Name: _____ Company Name: _____ Address: _____ Title: _____ Phone Number: _____ E-mail Address: _____ Length of Business Relationship: _____</p> <p>2) Reference Name: _____ Company Name: _____ Address: _____ Title: _____ Phone Number: _____ E-mail Address: _____ Length of Business Relationship: _____</p>	

2.3.3	<p>Bidder shall have and provide contact information of its local representative in the South Florida Tri-county region (Palm Beach, Broward and Miami-Dade Counties) that will be used to perform warranty repairs and services.</p> <p>Reference Name: _____</p> <p>Title: _____</p> <p>Company Name: _____</p> <p>Address: _____</p> <p>Phone Number: _____</p> <p>E-mail Address: _____</p>	
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