

**ASSOCIATED
PUMP & SUPPLY, LLC.**

FAX TRANSMITTAL

DATE: January 29, 2016	
TO: Mr. Billy Woodruff	FROM: Paul Klingman
PH:	PH: 985-851-7077
FAX: 985-306-0289	FAX: 985-876-9854
CC:	# of Pages: 4

RE: Please see attached.

COMMENTS: _____

If you have any questions, please feel free to call.

Thanks,
Paul Klingman

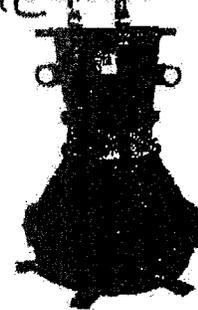
Sales•Rental•Service
 9074 Park Avenue Houma, LA 70363
 PH: 985-851-7077 ~ FAX: 985-876-9854
office@associatedpump.com



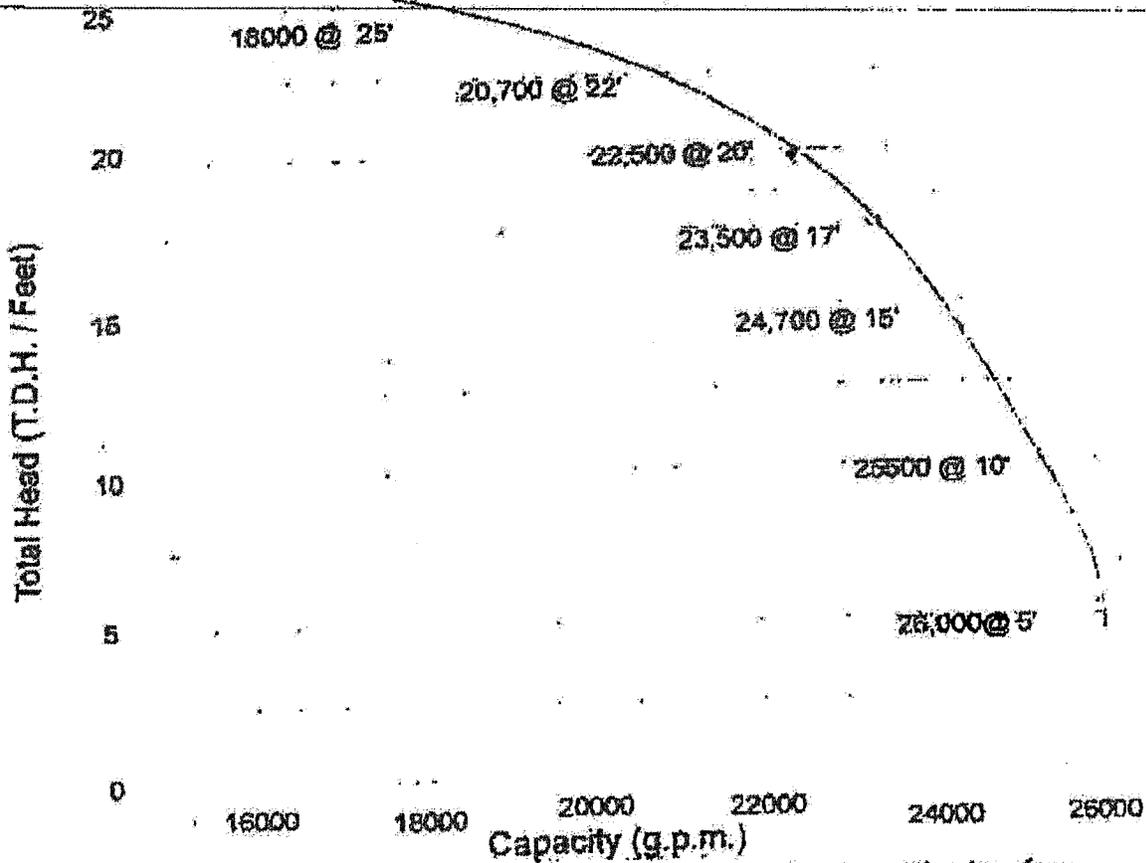
30" AXIAL FLOW PUMP MODEL-30 x .1.0

D & W
Hydraulic

AXIAL FLOW PUMP



Propeller Dia.	Style	Speed	No. Vanes	Solids Dia	Discharge	Weight
23 25"	open	845 rpm	3	not rec'd	30 00"	1500 Lbs.
Hydraulic Motor	Model	Displacement	Engine	Model	Bhp Cont	
Rineer	37 A26	28 cu/in Rev	J. DEERE	508 1AP2-225	218 @ 2000	
PTO pump	Model	Displacement	GPM req'd	Pressure	Hoses	
Denison	VT6DDS	15.6 cu/in Rev	106	2650	#24p / #24s one each	



NOTE—pumps can be chosen per specific g.p.m. at any head—need not perform the entire curve. Please consult factory for special requests.

TEST CONDITIONS

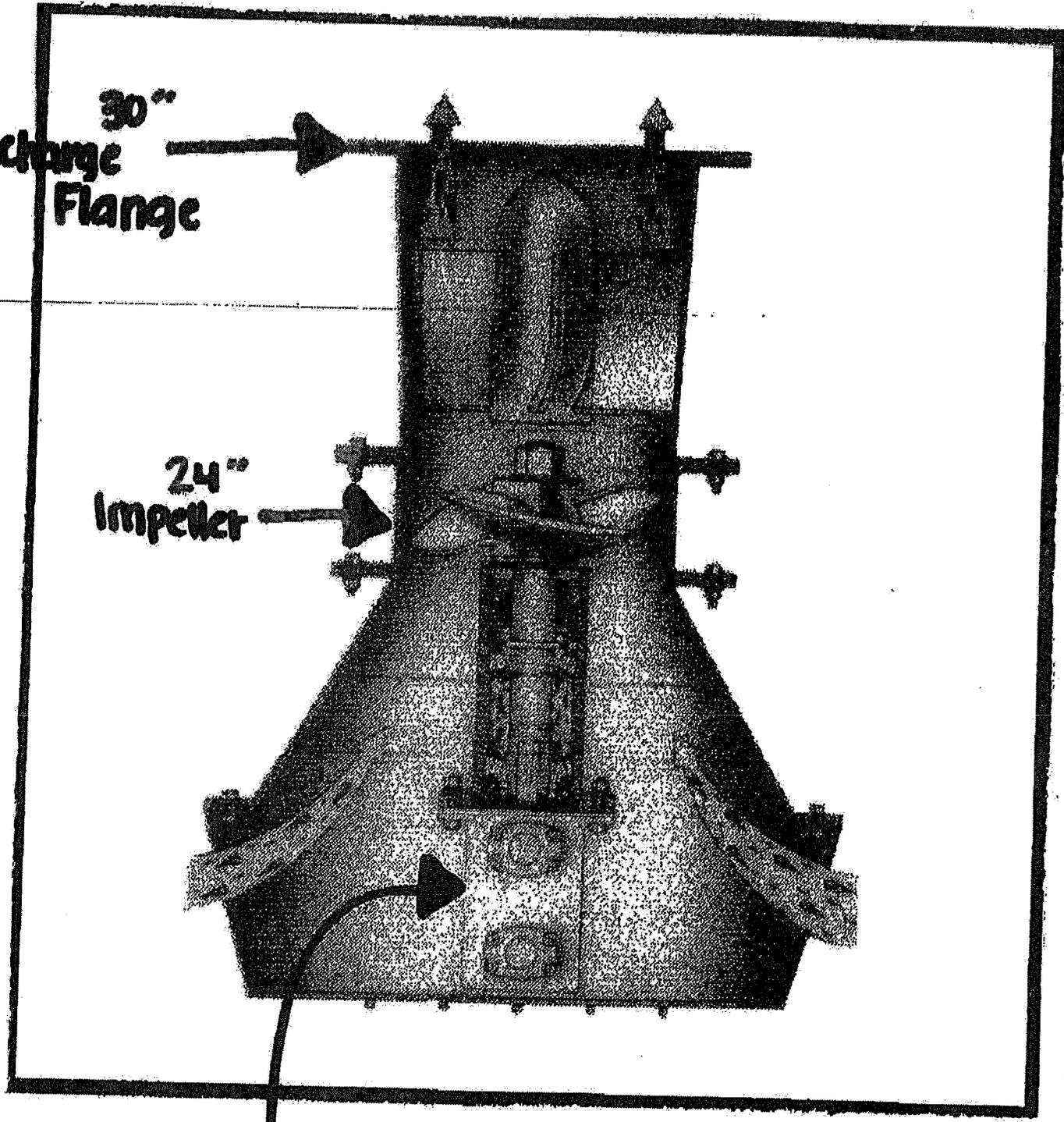
- Water—fresh
 - S. G.—1.00
 - Temp—70° F
 - Altitude—Sea Level
- 2006

*Tests were conducted according to Hydraulic Institute ANSI / HI-1.6

30"
Discharge
Flange

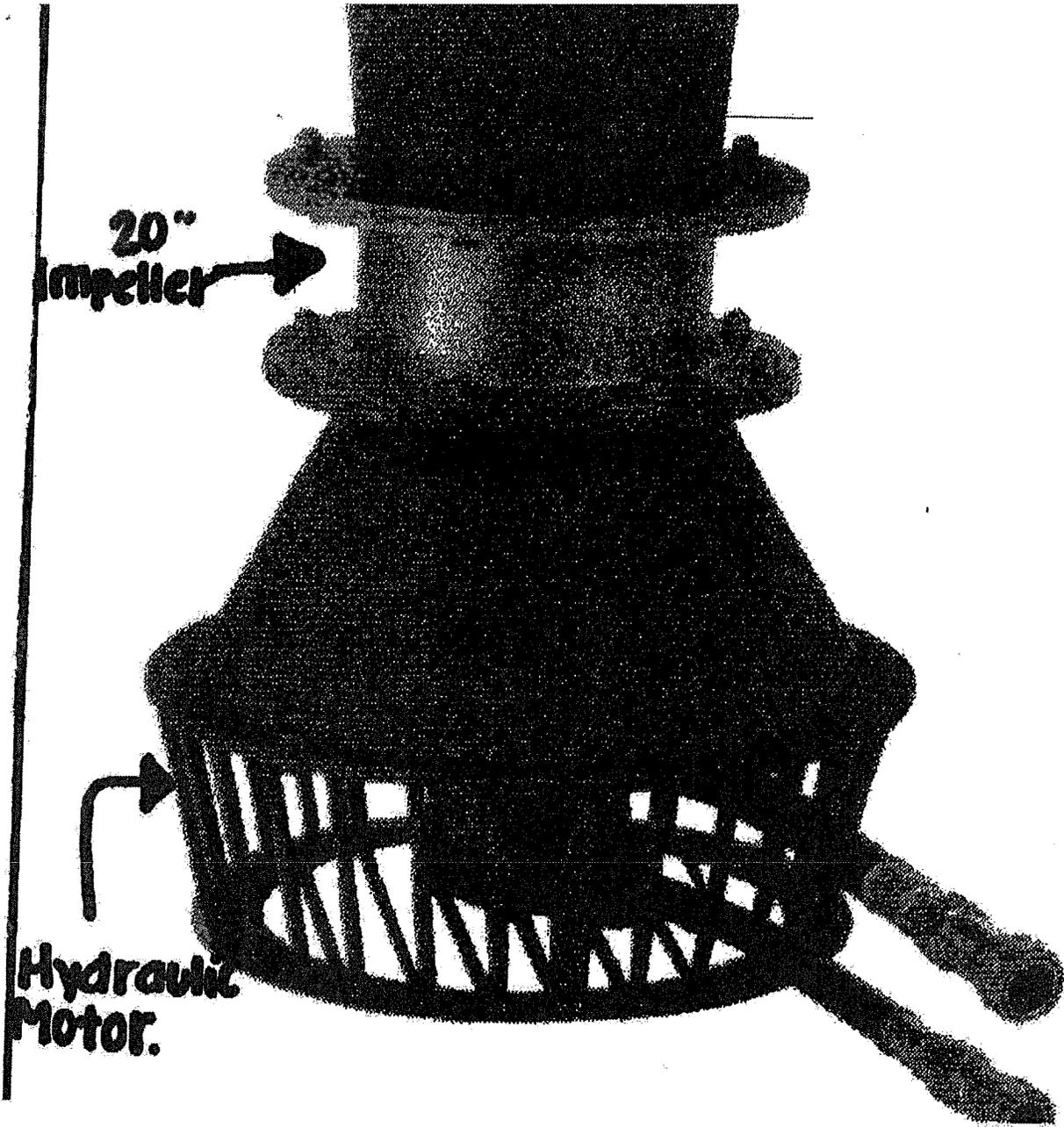
24"
Impeller

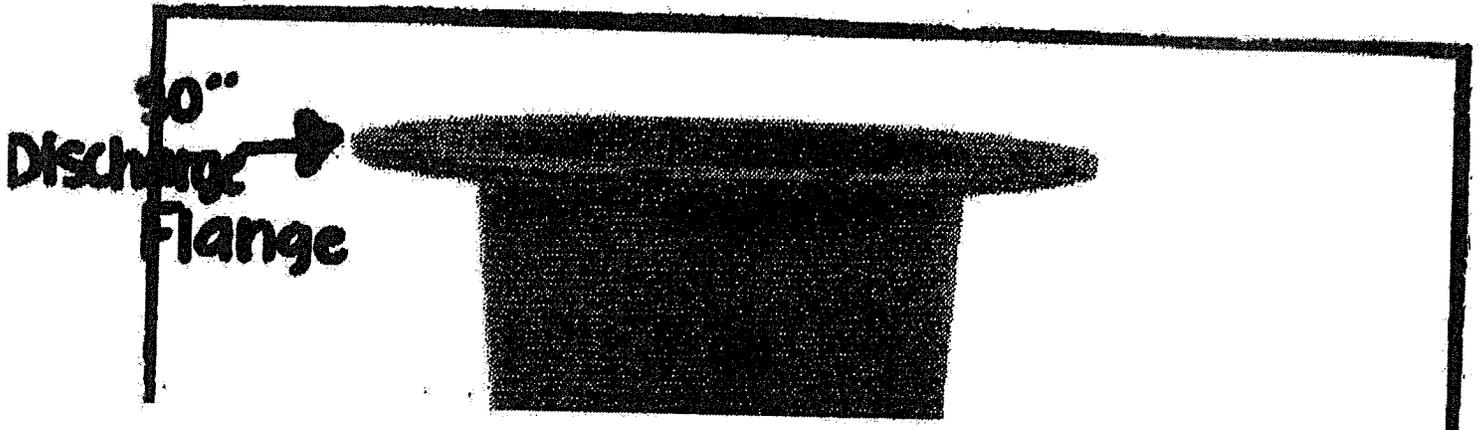
Hydraulic
Motor.



20"
Impeller

Hydraulic
Motor.





**ORDINANCES SCHEDULED FOR PUBLIC HEARING
(INTRODUCED AT PREVIOUS MEETING)**

- 23 2015-0460 An ordinance to approve and authorize the execution of Department of the Army License No. DACW29-2-15-38 (Easement) to allow the continued use of the access road, up ramp, three bridges, and the parking lot at Fifth Street and the Bonnet Carre' Spillway Levee in Norco.

Sponsors:

Mr. St. Pierre Jr. and Chief Administrative Officer

Legislative History

12/14/15	Parish President	Introduced
12/14/15	Parish Council	Publish/Scheduled for Public Hearing to the Parish Council
12/14/15	Parish President	Introduced
12/14/15	Parish Council	Publish/Scheduled for Public Hearing to the Parish Council

- 77 2015-0467 An ordinance to approve and authorize the execution of a Construction Contract with Fleming Construction Company, LLC for Parish Project No. P130601, Sunset Pump Station Improvements, in the amount of \$862,735.00 which is the Base Bid.

Sponsors:

Mr. St. Pierre Jr. and Department of Public Works

Legislative History

12/14/15	Parish President	Introduced
12/14/15	Parish Council	Publish/Scheduled for Public Hearing to the Parish Council
12/14/15	Parish President	Introduced
12/14/15	Parish Council	Publish/Scheduled for Public Hearing to the Parish Council

- 89 2015-0471 An ordinance to approve and authorize the execution of an Intergovernmental Cooperative Endeavor Agreement with the Jefferson Parish Finance Authority to Implement the Home Mortgage Down Payment Assistance Program.

Sponsors:

Mr. St. Pierre Jr. and Department of Community Services

Legislative History

12/14/15	Parish President	Introduced
12/14/15	Parish Council	Publish/Scheduled for Public Hearing to the Parish Council
12/14/15	Parish President	Introduced

SECTION 15130

PUMP AND DRIVE UNIT

PART I - GENERAL

1.01 SCOPE

The work under this section shall consist of providing all pumping equipment including the hydraulically driven axial flow pumps, drive units, and all piping, appurtenances and mechanical system as shown on the drawings and as specified herein. The manufacturer shall be ISO9001-2008 certified. Pumps shall be manufactured by MWI Corporation, 201 N. Federal Hwy., Deerfield Beach, FL 33441-3624 or approved equal.

1.02 DESIGN DATA

The contractor shall furnish with the bid, guaranteed pump performance curves based on shop tests of pumps in accordance with procedures as specified by Standards of Hydraulic Institute. Curves shall be certified by a professional engineer registered in the state where the tests are conducted and employed full-time by the pump manufacturer. Any bid not including such curves shall be considered non-responsive and shall not be accepted.

See M&L Bid Packet engineer stamp.

- | | |
|-------------------------------|---------------------------------|
| 1. Quantity of Pumps | 2 |
| 2. Design Capacity Ea. | 27,500 GPM |
| 3. Datum Elevation | _____ FT (as shown on drawings) |
| 4. Discharge Pipe Invert | _____ FT (as shown on drawings) |
| 5. Suction Bell Inlet | _____ FT (as shown on drawings) |
| 6. Downstream Water Elevation | _____ FT (as shown on drawings) |
| 7. Pump Propeller Elevation | _____ FT (as shown on drawings) |
| 8. Operation Head: Design TDH | 25 FT |
| 9. Maximum propeller size | 30 in |
| 10. Maximum pump rpm | 630 rpm |

The pump and drive equipment to be furnished under this contract shall be made by a manufacturer regularly engaged in such work, and who has furnished like equipment and specialties for at least five (5) similar installations which have been continuously operating successfully for not less than five (5) years.

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Evidence of this experience and data on the equipment and its operation in those installations shall be made available to the ENGINEER at their request to determine whether the equipment and specialties offered meet the requirements of these specifications.

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← Pumps bowls, propellers and hydraulic power units shall be the product of a single manufacturer.

PART 2 – PRODUCTS

2.01 PUMP MATERIAL AND DESIGN

The pumps to be furnished under this specification shall be hydraulically driven, axial flow propeller, completely submersible with propeller bowl assembly, hydraulic motor assembly, suction bell assembly and discharge tube. Acceptable pumps are MWI HAC330 or approved equal.

- A. SUCTION BELL - The suction bell assembly shall be manufactured from alloy steel, 1/4" thick and conforming to ASTM A242, and shall have an inlet diameter of 1.5 times the propeller diameter. The inlet bell shall be constructed to minimize vortex formation by maintaining equal pressures and velocities across the entrance. Bars shall be placed across the bell mouth to prevent entrance of large sticks, logs or debris. Inlet bell face shall be parallel to the water surface regardless of the angle of installation. The intake must be able to be removed without disconnecting the hydraulic supply and return lines.
- B. PUMP BOWL – The propeller bowl assembly section shall be a single stage, shop assembled unit consisting of a venturi housing, stainless steel liner, propeller shaft, bearings and stainless steel propeller blades. The venturi housing shall be manufactured from 1/2" thick alloy steel conforming to ASTM A242 and shall be fitted with a machined, removable housing liner of 300 series stainless steel of not less than 3/16" thickness and a liner length of not less than the pitch length of the propeller.
- C. PROPELLER AND SHAFT – The pump propeller blades shall be manufactured using ASTM A304 stainless steel. The propeller shall be balanced and secured firmly to the taper shaft with alignment key and locknut. ~~The propeller shaft shall be machined from solid stainless steel bar stock and shall conform to ASME Code for transmission shafting to transmit full load torque and shall have additional safety factor for shock loads.~~
- D. BEARINGS – The propeller shaft shall be supported and contained in place by three multiple angular contact bearings. The shaft bearings shall be designed for an L(10) life of 50,000 hours and lubricated by low pressure hydraulic oil. The propeller shaft and bearing assembly shall be contained in a machined bearing housing centrally supported by flow straightening vanes in the propeller bowl assembly and shall be protected against sand particle intrusion. The bearings shall be designed to accept thrust in either direction. A non-reverse rotation mechanism will be included (except in two way pumping applications).
- E. HYDRAULIC MOTOR – The hydraulic motor assembly section shall consist of the assembly housing, hydraulic motor, propeller shaft coupling and inlet and outlet port pipe connection. The assembly housing shall be manufactured from 3/8" thick

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alloy steel conforming to ASTM A242. The housing assembly shall contain a hydraulic motor coupled to the propeller shaft. The hydraulic motor, bearings, shaft and coupling shall be enclosed and sealed to permit totally submerged operation in any position. The hydraulic motor shall be provided with inlet and outlet pipes extending from hydraulic motor through the assembly housing and terminate with quick coupling connections. The hydraulic motor shall be mounted on the discharge side of the propeller as to minimize NPSH requirements, avoid clogging of the intake and induce more efficient oil cooling. Suction side installations shall not be permitted. NOTE: The shaft coupling assembly must be steel and not flexible.

D+D
- has
Hyd Motor
ON Bottom PRO
ON TOP

2.02 DIESEL DRIVE UNIT

Each pump shall be supplied with an individual diesel power unit as shown on the drawings and as specified herein. The drive unit shall be manufactured and tested at the same factory as the pumping unit to provide a single source of responsibility and for the proper coordination of all components of the system. The unit shall consist of a 60-gallon oil reservoir, a fixed displacement hydraulic pump, a diesel engine, inter-connecting piping, valves and accessories mounted on a steel base with lifting eyes.

100 GALLON
HYD-TANK

- A. Hydraulic pump shall be a fixed displacement vane type unit capable of continuous operation.
- B. The diesel power sources shall be a John Deere or Cummins diesel engines unit rated 355 BHP at 1,800 rpm having a continuous duty rating. The unit shall be fully equipped with radiator, batteries and cable, safety shutdown switches and exhaust system with residential-type muffler or sound attenuating system.
- C. Power units shall be factory assembled and skid-mounted. Hydraulic equipment shall include but not be limited to: a full flow oil filter, adjustable pressure relief valves at each pump outlet, pressure and temperature gauges, quick connect couplings and safety shut down controls for low oil pressure and high oil temperature. All systems shall be assembled, piped and tested prior to delivery to the site.
- D. A hydraulic system monitoring device to allow diagnosing hydraulic system behavior even while pump is still submerged shall also be included.
- E. The drive system shall include a "clutch" starting system which allows the prime mover to start under a no-load condition and gradually engage the load over a 3 to 5 second time period. The "clutch" system shall be used to gradually disengage the load prior to shut-off of the prime mover. An automatic system is included.
- F. Sufficient hydraulic oil cooling capacity shall be provided to sustain direct sunlight radiation as well as ambient temperatures up to 122°F (50°C).

4100 BHP
@ 1,800.

COPY

- (2) 30" Axial Flow systems for the City of Fort Myers for the Dean Park Neighborhood Drainage Improvements Project - 2011
Contact: Melanie Grigsby, City of Fort Myers, mgrigsby@cityofmyers.com
Ph: 239.321.7467
- (3) 42" Axial Flow systems for Dow Chemical in Freeport, Texas, for use at one of their chemical plants - 2011
Contact: Ashley Breed, Dow Chemical, ABreed@dow.com Ph: 979.238.7381

D&D's repair capabilities are proven, having successfully completed such projects as:

- ~~June 2009~~ Service Pumphead #6 at Harvey St Canal, New Orleans. This required the removal, reconditioning, any necessary repairs, and reinstallation of the pumphead.
Contact: Doug Cotton, Kanoa Company, dcotton@kanoaco.com Ph: 949.566.0165
- ~~October 2009~~ Service Pumpheads #7 and 8 at Harvey St Canal, New Orleans. This required the removal, reconditioning, any necessary repairs, and reinstallation of the pumphead.
Contact: Deidre Robicheaux, Healtheon, deidre.robicheaux@healtheoninc.com
Ph: 504.599.5982
- January 2010 - Repaired and tested an MWI HAC-24 hydraulic submersible pumphead, at our facility in Ft Myers, Florida, for South Florida Water Management District
Contact: Richard Lansky, South Florida Water Management District Ph: 239.597.2236
- March 2010 - Repaired and tested an MWI SEA-312 electric submersible pumphead, at our location in Ft Myers, Florida, for South Florida Water Management District.
Contact: Richard Lansky, South Florida Water Management District Ph: 239.597.2236
- ~~May 2010~~ Service Pumphead #s 4, 5, and 6 at Harvey St Canal, New Orleans. This required the removal, reconditioning, any necessary repairs, and reinstallation of the pumpheads.
Contact: Deidre Robicheaux, Healtheon, deidre.robicheaux@healtheoninc.com
Ph: 504.599.5982
- ~~July 2010~~ Service Pumphead #s 7, 8, and 9 at Harvey St Canal, New Orleans. This required the removal, reconditioning, any necessary repairs, and reinstallation of the pumpheads.
Contact: Deidre Robicheaux, Healtheon, deidre.robicheaux@healtheoninc.com
Ph: 504.599.5982
- ~~July 2010~~ Service Pumphead #4 at Harvey St Canal, New Orleans. This required the removal, reconditioning, any necessary repairs, and reinstallation of the pumphead.
Contact: Deidre Robicheaux, Healtheon, deidre.robicheaux@healtheoninc.com
Ph: 504.599.5982

COPY

- August 2010 – Repaired and tested, at our facility in Ft Myers, (2) 30" pumpheads from Plaquemines Parish, Louisiana. Repairs included installing new stainless steel lines.
Contact: Tim Powe, Hertz, tpowe@hertz.com Ph: 504.371.6631
- May 2011 – Service Pumphead # [REDACTED], and [REDACTED] at Harvey St Canal, New Orleans. This required the removal, reconditioning, any necessary repairs, and reinstallation of the pumpheads.
Contact: Deidre Robicheaux, Healthcon, deidre.robicheaux@healthconing.com
Ph: 504.599.5982
- June 2012 – Service Pumphead #s [REDACTED] and [REDACTED] at Harvey St Canal, New Orleans. This required the removal, reconditioning, any necessary repairs, and reinstallation of the pumpheads.
Contact: Deidre Robicheaux, Healthcon, deidre.robicheaux@healthconinc.com
Ph: 504.599.5982

Other Major Projects:

- Several of D&D's 42", 30", and smaller systems were used by Shaw Group in Louisiana for flood relief after Hurricane Ike devastated Lafitte and Terrebonne parishes
Contact: Bryan Vollmer, Shaw Enterprises, bryan.vollmer@shawgrp.com
Ph: 225.932.2500