

MEMORANDUM

To: All Interested Bidders

Date: September 2, 2014

Subject: Invitation for Bid #14-1713-OV, Southwest Water
Reclamation Facility (SWWRF) Rehabilitation Main
Plant and Belt Filter Press Drain Station / Project Nos:
Main Plant: 5128184 and Belt Filter Press Drain Station:
5128183

ADDENDUM #1

Bidders are hereby notified that this Addendum shall be acknowledged on page 00300-1 of the Bid Form and made a part of the above named bidding and contract documents. Bids submitted without acknowledgement of the Addendum will be considered incomplete.

The following items are issued to add to, modify, and clarify the bid and contract documents. These items shall have the same force and effect as the original bidding document, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date, shall conform to the additions and revisions listed herein.

The deadline to submit all inquiries concerning interpretation, clarification or additional information pertaining to this bid was August 15, 2014 at 5:00 PM. This deadline has been established to maintain fair treatment for all potential bidders, while maintaining the expedited nature of the Economic Stimulus that the contracting of this work may achieve.

Bidders Note: A Public Record's request has been received requesting the Engineer's Estimate for this project.

The Engineer's Opinion of Probable Construction Cost is \$600,836.00, dated March 3, 2014. This construction cost estimate is based on the original specifications and drawings issued. Changes to the specifications subsequent to the original documents by addenda to this bid may not be accounted in this construction cost estimate.

Bidders Note #1:

Article C.02 Minimum Qualifications of Bidders has been revised to read "Bidder who has continuously held the certification of a General Contractor and / or an Underground Utility Contractor pursuant to Florida Statutes, Chapter 489 for a two (2) consecutive year period" may be qualified to bid on this Project.
(WAS: Three (3) consecutive years).

Bidders: Bid Forms, eighteen (18) revised Bid Forms (Bid A & B) for both the Main Plant Drain Station Rehab and Belt Press Filter Drain Station Rehab are made a part of this Addendum #1. (18 pages)

Engineering has advised Flygt pumps are acceptable for use in the project.

The Manatee County Utility Standards may be downloaded as follows:

<http://www.mymanatee.org/dms/departments/public-works/engineering-standards/Manatee-County-Utility-Standards-PDF/Manatee%20County%20Utility%20Standards%20PDF.pdf>

The latest Manatee County Utility Standards is dated May, 2011.

Financial Management
Purchasing Division
1112 Manatee Ave W Suite 803, Bradenton, FL 34205
Phone number: (941)749-3014



September 2, 2014

Invitation for Bid #14-1713-OV, Southwest Water Reclamation Facility (SWWRF) Rehabilitation Main Plant and Belt Filter Press Drain Station / Project No. Main Plant: 5128184 and Belt Filter Press Drain Station, Project No. 5128183

Addendum #1

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Bidders Note #1 (Continued): One (1) PDF of Control Panel(s) and five (5) PDFs of Pump Data are attached. (6 total pages)

Bidders Note #2: Questions received from Bidders through August 15, 2014 at 5:00 PM:

Q1. There is no reference to duty points for the individual stations. GPM and TDH would be required to properly size the temporary bypass system. Existing electric submersible curves could be supplied as reference.

R1. See attached performance curve and flow data. The Headworks 12" ductile is piped to approximately 20 feet high.

Q2. What would the duration of each bypass be?

R2. Means, methods and scheduling are to be determined by the Successful Bidder. The duration is from start of the rehabilitation to when the Lift Station may be placed back into service.

Q3. Would electric or diesel drive be preferred?

R3. Electric or diesel drive may be used. If diesel is used, it should have a hospital grade sound control. The Successful Bidder is responsible for all costs.

Q4. Are sound attenuated pumps required for the bypass?

R4. See response no. 3.

Q5. Is there data of peak flow hours vs. average daily flow at each station?

R5. Yes, this information is being provided via attached pdf.

September 2, 2014

Invitation for Bid #14-1713-OV, Southwest Water Reclamation Facility (SWWRF) Rehabilitation Main Plant and Belt Filter Press Drain Station / Project No. Main Plant: 5128184 and Belt Filter Press Drain Station, Project No. 5128183

Addendum #1

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Q6. Specs read for ductile iron force main / pump station: fittings are to be fusion bond epoxy. Recent discussions with County personnel advised they no longer want fusion bond epoxy and now require p401 epoxy lining. Please confirm fusion bond epoxy ductile iron fittings are approved for this project.

R6. P401 Epoxy Lining shall be used for this project.

Q7. Can the new submersible pumps be brought on line one at a time, with the performance testing and official start up taking place once all improvements are completed?

R7. The normal operation of the pumps will be to start them up one at a time as the wet well level rises and then all pumps are off at the same time when the level drops to the "off" position.

OR

All pumps will official be placed into service after the start-up has been completed and passed. Bypass pumping will be in place until then.

Q8. Can an auto-dialer be used in place of a pump watch person?

R8. No, an auto-dialer may not be used in lieu of a pump watch person.

Q9. Are there specific permits anticipated for this project? If so, can you confirm what they will be and the cost?

R9. The Successful Bidder is responsible for all permitting and permitting fees. Bidders may contact the Building Department for verification of permitting requirements and fees.

Q10. The pipe support Measurement and Payment is for brick and mortar VF (bid item #33), however, the specs require stainless steel.

R10. Adjustable stainless valve supports are to be installed. However, if the distance between the valves and the valve vault bottom is 8" or less, brick and mortar are acceptable.

September 2, 2014

Invitation for Bid #14-1713-OV, Southwest Water Reclamation Facility (SWWRF) Rehabilitation Main Plant and Belt Filter Press Drain Station / Project No. Main Plant: 5128184 and Belt Filter Press Drain Station, Project No. 5128183

Addendum #1

Page 4 of 6

Q.11. There does not appear to be a specification for the disconnect switches.

R11. Please refer to Section 13 of the Manatee County Public Works Utility Standards which may be Downloaded from the County website. The web link has been provided as part of this Addendum #1.

Q12. The Measurement and Payment for conduit (bid item #27) is listed in LF with a 1' qty. Should this be a lump sum?

R12. The quantity for bid item #27 (Bid A and Bid B) for the **Main Plant Drain Station Rehab, Project No.:5128184**, has been revised from 1 LF to 50 LF. Revised bid forms are made a part of this Addendum #1.

Q13. Will the County consider changing the unit of measure for bid items 4 and 15 (Main Plant Drain Station Rehab and Belt Press Filter Drain Station), for the HDPE Fittings and Ductile Iron Fittings from LB to LS? This becomes difficult to substantiate at bid time and weight is not often included with the supplier's proposals.

R13. Bid items 4 and 15 (Main Plant Drain Station Rehab and Belt Press Filter Drain Station), shall be bid as shown on the bid forms.

MAIN PLANT DRAIN STATION REHAB:

Q14. What is the existing SCADA connection, wired or radio?

R14. The existing SCADA connection is wired.

Q15. Is the existing SCADA connection to be reused?

R15. The existing conduit may be reused. Wastewater Plant Maintenance will supply the Successful Bidder with the 225 ft of SCADA connection which will be 14 gauge, 18 conductor.

September 2, 2014

Invitation for Bid #14-1713-OV, Southwest Water Reclamation Facility (SWWRF) Rehabilitation Main Plant and Belt Filter Press Drain Station / Project No. Main Plant: 5128184 and Belt Filter Press Drain Station, Project No. 5128183

Addendum #1

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Q16. Is the existing feeder to the Plant Drain Pump Station to be reused to feed the new control panel?

R16. Use existing 200 amp, 480 vac breaker and conductors. Care must be exercised in panel selection to reuse feeder conductors to prevent damage and splices.

Q17. Is the new Control Panel to be floor mounted or will a rack be required?

R17. A structural mounting rack shall be required. In general, the control panels (bid item #26) for each Drain Station will be constructed in accordance with the Manatee County Public Works Utility Standards, detail US-22 through US-24.

BELT FILTER PRESS DRAIN STATION:

Q18. There are only three (3) existing disconnects on existing rack. What is the fourth disconnect indicated on the drawings to be connected to?

R18. The fourth disconnect is the Stainless Steel Junction Box for Float Ball Terminations.

Q19. Are the existing controls to operate the new station?

R19. Yes. No motor RTDs are necessary.

Q20. Is the existing disconnect feeders to be reused for new pumps?

R20. Yes. Care must be exercised in disconnection selection to reuse feeder conductors to prevent damage and splices.

Q21. If new feeders are required to the disconnects, where are they to be services from?

R21. New feeders are not required.

September 2, 2014

Invitation for Bid #14-1713-OV, Southwest Water Reclamation Facility (SWWRF) Rehabilitation Main Plant and Belt Filter Press Drain Station / Project No. Main Plant: 5128184 and Belt Filter Press Drain Station, Project No. 5128183

Addendum #1

Page 6 of 6

Q22 and Q23. Proposed drawings indicate 50' +/- new conduit. What is the conduit for? What size conduit is required?

R22 and R23. The new conduit is required from the disconnect to the wet well, (if required). Please refer to the Manatee County Utility Standards, 2011. Schedule 80 PVC 2" (min) electrical conduit is required. Bid Item #27 has been added to the bid form.

Q24. What size conductors are required?

R24. Conductors for the pump motors vary and are supplied with the submersible motor/pump for a given horsepower/voltage. Additionally, control wire for the float ball is supplied as part of the submersible motor / pump with termination at the control box.


Q25. How many conduits are required?

R25. Please refer to the Manatee County Utility Standards, 2011. Conduits are required as follows: one per pump and one for the float balls; i.e. three pumps, four conduits are required.

End of Addendum #1

Bids will be received at the Manatee County Purchasing Division, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205 on **September 11, 2014 at 3:00 PM.**

Sincerely,



Melissa M. Wendel, CPPO, Purchasing Official
Manatee County Purchasing Division

Ov (24 total pdfs attached)

(Submit in triplicate)

IFB #14-1713-OV/ ADDENDUM #1

**For: Bid Form "A" - SSWRF REHABILITATION – Main Plant and Belt
Filter Press Drain Station**

Total Offer Bid "A" Main Plant Drain Station Rehab: \$_____
(Based on a completion time of 180 calendar days)

Total Offer Bid "A" Belt Press Filter Drain Station Rehab: \$ _____
(Based on a completion time of 180 calendar days)

GRAND TOTAL BID "A" SSWRF REHABILITATION – Main Plant and Belt Filter Press Drain Station

\$ _____

***Only one Award shall be made. County has sole authority to select the Bid based on completion time which is in the best interest of the County.**

BIDDER: _____

AUTHORIZED SIGNATURE: _____

IFB #14-1713-OV / ADDENDUM #1

Bid Form - 2
Addendum #1

BID FORM / ADDENDUM #1
(Submit in triplicate)

**For: Southwest Water Reclamation Facility (SWWRF), Main Plant Drain Station
Rehabilitation (IFB#14-1713-OV) Project #5128184**

Total Offer (Bid "A"): _____
Based on a completion time of 180 calendar days
Total Offer (Bid "B"): _____
Based on a completion time of 120 calendar days

Two schedules for completion of the Work shall be considered. Each Bid for completion by the specified stated time shall be offered as a separate "total offer". County has the sole authority to select the Bid based on the completion time which is in the best interest of County. Only one Award shall be made.

We, the undersigned, hereby declare that we have carefully reviewed the Bid Documents and with full knowledge and understanding of the aforementioned herewith submit this Bid, meeting each and every specification, term, and condition contained in the Invitation for Bid package, in its entirety.

We understand that the Invitation for Bid package, in its entirety, including but not limited to, all Specifications, terms, and conditions shall be made a part of any resulting contract between Manatee County and the Successful Bidder. Failure to comply shall result in Contract default, whereupon, the defaulting Contractor shall be required to pay for any and all re-procurement costs, damages, and attorney fees as incurred by County, and agrees to forfeit his/her Bid Bond.

Communications concerning this Bid shall be addressed as follows: **(Complete all fields)**

Bidder's Name: _____

Mailing Address: _____

Telephone: () _____ Fax: () _____

Email Address: _____

I, _____ attest that I have read, understand, and agree to the Local Preference policy of Manatee County.

I, _____ on [date(s)] _____ attest that I have visited the Work site(s) to familiarize myself with the full Scope of work required for the Bid.

Acknowledge Addendum No. _____	Dated: _____	Acknowledge Addendum No. _____	Dated: _____
Acknowledge Addendum No. _____	Dated: _____	Acknowledge Addendum No. _____	Dated: _____
Acknowledge Addendum No. _____	Dated: _____	Acknowledge Addendum No. _____	Dated: _____

Authorized Signature(s): _____

Name and Title of Above Signer(s): _____

Date: _____

BID FORM

IFB#14-0694-OV

(Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

Southwest Water Reclamation Facility (SWWRF), Main Plant Drain Station Rehab
Project No.: 5128184 / Location: 5101 65th Street West, Bradenton, FL 34210

BID "A" Based on Completion time of 180 Calendar Days

ITEM				BID PRICE	TOTAL BID
#	DESCRIPTION	U/M	QTY.	PER UNIT	PRICE
1	Wetwell Cleaning	SF	605	\$	\$
2	8" DR-11 HDPE Piping	LF	57	\$	\$
3	8" HDPE Flange Adapters w/ Backup Ring	EA	6	\$	\$
4	8" HDPE Fittings	LB	120	\$	\$
5	Pump Base Ells, BPIU.16	EA	3	\$	\$
6	Pump Base Ell Mounting Plate	EA	3	\$	\$
7	S.S. Pipe Bracing, 10 Ft. Dia.	EA	2	\$	\$
8	2" S.S. Pump Guide Rail System	LF	45	\$	\$
9	Resilient (Link) Seals w/Carrier Pipe	EA	9	\$	\$
10	INTENTIONALLY LEFT BLANK				
11	Remove & Replace Ex. PVC Drain Line & P-Trap	EA	1	\$	\$
12	8" Flanged Plug Valve	EA	3	\$	\$
13	8" Flanged Swing Check Valve	EA	3	\$	\$
14	12" D.I. Pipe	LF	6	\$	\$

Bid Form - 4

Main Plant Drain Sta. Rehab. Proj.#5128184

Bid "A", Based on

180 Calendar Day Completion Time

Addendum #1

Bidder: _____

 Authorized
 Signature: _____

BID FORM

IFB#14-0694-OV

(Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

Southwest Water Reclamation Facility (SWWRF), Main Plant Drain Station Rehab
Project No.: 5128184 / Location: 5101 65th Street West, Bradenton, FL 34210

BID "A" Based on Completion time of 180 Calendar Days

ITEM #	DESCRIPTION	U/M	QTY.	BID PRICE PER UNIT	TOTAL BID PRICE
15	Ductile Iron Fittings	LB	1,390	\$	\$
16	12" D.I. Flanged Adapters	EA	1	\$	\$
17	8" Male Aluminum Quick Coupler Adapter	EA	1	\$	\$
18	S.S. Adjustable Valve Supports	EA	3	\$	\$
19	12" Gate Valve, MJ	EA	2	\$	\$
20	8" & Less Influent Line Plug	EA	5	\$	\$
21	12" Influent Line Plug	EA	3	\$	\$
22	18" Influent Line Plug	EA	1	\$	\$
23	By-Pass Pumping	LS	1	\$	\$
24	24-Hour By-Pass Pump Operator	LS	1	\$	\$
25	INTENTIONALLY LEFT BLANK				
26	Remove & Replace Control Panel	EA	1	\$	\$
*27	Remove & Replace Sch 80 PVC Conduit (Addendum #1)	LF	50	\$	\$
28	Remove & Replace Electrical Mounting Structure	EA	1	\$	\$

Bid Form - 5

Main Plant Drain Sta. Rehab. Proj.#5128184

Bid "A", Based on

180 Calendar Day Completion Time

Addendum #1

Bidder: _____

 Authorized
 Signature: _____

BID FORM

IFB#14-0694-OV

(Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

Southwest Water Reclamation Facility (SWWRF), Main Plant Drain Station Rehab
Project No.: 5128184 / Location: 5101 65th Street West, Bradenton, FL 34210

BID "A" Based on Completion time of 180 Calendar Days

ITEM #	DESCRIPTION	U/M	QTY.	BID PRICE PER UNIT	TOTAL BID PRICE
29	Install New Float Switches	EA	6	\$	\$
30	Pumps, Hydromatic S6A3000M3-4, 30 HP, 1750 RPM	EA	3	\$	\$
31	Concrete Fillet, 3,000 psi, Type II, No Reinf., Remove & Replace	CY	2	\$	\$
32	New Concrete Wet Well Floor, 4,000 psi, Type II, with Reinf.	CY	3	\$	\$
33	Brick & Mortar Valve Supports, Max 8" High	VF	3	\$	\$
	SUBTOTAL CONSTRUCTION COST				\$
34	Mobilization	LS	1		\$
35	Miscellaneous Work & Clean Up	LS	1		\$
36	Record Drawings	LS	1		\$
	TOTAL BASE BID "A" BASED ON A COMPLETION TIME OF 180 CALENDAR DAYS				\$
	CONTRACT CONTINGENCY WORK (Used only with County Approval)	%	10		\$
	TOTAL CONTRACT AWARD WITH CONTRACT CONTINGENCY Based on Bid "A", 180 Calendar Day Completion Time (Main Plant Drain Station Rehab) (Addendum #1)				\$

Bid Form - 6

Main Plant Drain Sta. Rehab. Proj.#5128184

Bid "A", Based on

180 Calendar Day Completion Time

Addendum #1

Bidder: _____

 Authorized
 Signature: _____

BID FORM

IFB#14-0694-OV

(Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

Southwest Water Reclamation Facility (SWWRF), Main Plant Drain Station Rehab
Project No.: 5128184 / Location: 5101 65th Street West, Bradenton, FL 34210

BID "B" Based on Completion time of 120 Calendar Days

ITEM				BID PRICE	TOTAL BID
#	DESCRIPTION	U/M	QTY.	PER UNIT	PRICE
1	Wetwell Cleaning	SF	605	\$	\$
2	8" DR-11 HDPE Piping	LF	57	\$	\$
3	8" HDPE Flange Adapters w/ Backup Ring	EA	6	\$	\$
4	8" HDPE Fittings	LB	120	\$	\$
5	Pump Base Ells, BPIU.16	EA	3	\$	\$
6	Pump Base Ell Mounting Plate	EA	3	\$	\$
7	S.S. Pipe Bracing, 10 Ft. Dia.	EA	2	\$	\$
8	2" S.S. Pump Guide Rail System	LF	45	\$	\$
9	Resilient (Link) Seals w/Carrier Pipe	EA	9	\$	\$
10	INTENTIONALLY LEFT BLANK				
11	Remove & Replace Ex. PVC Drain Line & P-Trap	EA	1	\$	\$
12	8" Flanged Plug Valve	EA	3	\$	\$
13	8" Flanged Swing Check Valve	EA	3	\$	\$
14	12" D.I. Pipe	LF	6	\$	\$

Bid Form - 7

Main Plant Drain Sta. Rehab. Proj.#5128184

Bid "B"

Bidder: _____

Based on 120 Calendar Day
Completion Time

Addendum #1

Authorized
Signature: _____

BID FORM

IFB#14-0694-OV

(Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

Southwest Water Reclamation Facility (SWWRF), Main Plant Drain Station Rehab
Project No.: 5128184 / Location: 5101 65th Street West, Bradenton, FL 34210

BID "B" Based on Completion time of 120 Calendar Days

ITEM				BID PRICE	TOTAL BID
#	DESCRIPTION	U/M	QTY.	PER UNIT	PRICE
15	Ductile Iron Fittings	LB	1,390	\$	\$
16	12" D.I. Flanged Adapters	EA	1	\$	\$
17	8" Male Aluminum Quick Coupler Adapter	EA	1	\$	\$
18	S.S. Adjustable Valve Supports	EA	3	\$	\$
19	12" Gate Valve, MJ	EA	2	\$	\$
20	8" & Less Influent Line Plug	EA	5	\$	\$
21	12" Influent Line Plug	EA	3	\$	\$
22	18" Influent Line Plug	EA	1	\$	\$
23	By-Pass Pumping	LS	1	\$	\$
24	24-Hour By-Pass Pump Operator	LS	1	\$	\$
25	INTENTIONALLY LEFT BLANK				
26	Remove & Replace Control Panel	EA	1	\$	\$
*27	Remove & Replace Sch 80 PVC Conduit (Addendum #1)	LF	50	\$	\$
28	Remove & Replace Electrical Mounting Structure	EA	1	\$	\$

Bid Form - 8
Main Plant Drain Sta. Rehab. Proj.#5128184

Bid "B"

Based on 120 Calendar Day
Completion Time
Addendum #1

Bidder: _____

Authorized
Signature: _____

BID FORM

IFB#14-0694-OV

(Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

Southwest Water Reclamation Facility (SWWRF), Main Plant Drain Station Rehab
Project No.: 5128184 / Location: 5101 65th Street West, Bradenton, FL 34210

BID "B" Based on Completion time of 120 Calendar Days

ITEM				BID PRICE	TOTAL BID
#	DESCRIPTION	U/M	QTY.	PER UNIT	PRICE
29	Install New Float Switches	EA	6	\$	\$
30	Pumps, Hydromatic S6A3000M3-4, 30 HP, 1750 RPM	EA	3	\$	\$
31	Concrete Fillet, 3,000 psi, Type II, No Reinf., Remove & Replace	CY	2	\$	\$
32	New Concrete Wet Well Floor, 4,000 psi, Type II, with Reinf.	CY	3	\$	\$
33	Brick & Mortar Valve Supports, Max 8" High	VF	3	\$	\$
	SUBTOTAL CONSTRUCTION COST				\$
34	Mobilization	LS	1		\$
35	Miscellaneous Work & Clean Up	LS	1		\$
36	Record Drawings	LS	1		\$
	TOTAL BASE BID "B" BASED ON A COMPLETION TIME OF <u>120</u> CALENDAR DAYS				\$
	CONTRACT CONTINGENCY WORK (Used only with County Approval)	%	10		\$
	TOTAL CONTRACT AWARD WITH CONTRACT CONTINGENCY Based on Bid "B", <u>120</u> Calendar Day Completion Time (Main Plant Drain Station Rehab) (Addendum #1)				\$

Bid Form - 9

Main Plant Drain Sta. Rehab. Proj.#5128184

Bid "B"

Bidder: _____

Based on 120 Calendar Day
 Completion Time
 Addendum #1

Authorized
 Signature: _____

BID FORM / ADDENDUM #1
(Submit in triplicate)

**For: Southwest Water Reclamation Facility (SWWRF), Belt Filter Press Drain Station
Rehabilitation (IFB#14-1713-OV) Project #5128183**

Total Offer (Bid "A"): _____
Based on a completion time of 180 calendar days
Total Offer (Bid "B"): _____
Based on a completion time of 120 calendar days

Two schedules for completion of the Work shall be considered. Each Bid for completion by the specified stated time shall be offered as a separate "total offer". County has the sole authority to select the Bid based on the completion time which is in the best interest of County. Only one Award shall be made.

We, the undersigned, hereby declare that we have carefully reviewed the Bid Documents and with full knowledge and understanding of the aforementioned herewith submit this Bid, meeting each and every specification, term, and condition contained in the Invitation for Bid package, in its entirety.

We understand that the Invitation for Bid package, in its entirety, including but not limited to, all Specifications, terms, and conditions shall be made a part of any resulting contract between Manatee County and the Successful Bidder. Failure to comply shall result in Contract default, whereupon, the defaulting Contractor shall be required to pay for any and all re-procurement costs, damages, and attorney fees as incurred by County, and agrees to forfeit his/her Bid Bond.

Communications concerning this Bid shall be addressed as follows: **(Complete all fields)**

Bidder's Name: _____

Mailing Address: _____

Telephone: () _____ Fax: () _____

Email Address: _____

I, _____ attest that I have read, understand, and agree to the Local Preference policy of Manatee County.

I, _____ on [date(s)] _____ attest that I have visited the Work site(s) to familiarize myself with the full Scope of work required for the Bid.

Acknowledge Addendum No. _____	Dated: _____	Acknowledge Addendum No. _____	Dated: _____
Acknowledge Addendum No. _____	Dated: _____	Acknowledge Addendum No. _____	Dated: _____
Acknowledge Addendum No. _____	Dated: _____	Acknowledge Addendum No. _____	Dated: _____

Authorized Signature(s): _____

Name and Title of Above Signer(s): _____

Date: _____

BID FORM
 (Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

IFB#14-0694-OV

Southwest Water Reclamation Facility (SWWRF), Belt Press Filter Drain Station Rehab.

Project No.: 5128183/ Location: 5101 65th Street West, Bradenton, FL 34210

BID "A" Based on Completion time of 180 Calendar Days

ITEM				BID PRICE	TOTAL BID
#	DESCRIPTION	U/M	QTY.	PER UNIT	PRICE
1	Wetwell Cleaning	SF	605	\$	\$
2	8" DR-11 HDPE Piping	LF	69	\$	\$
3	8" HDPE Flange Adapters w/ Backup Ring	EA	6	\$	\$
4	8" HDPE Fittings	LB	120	\$	\$
5	Pump Base Ells, BPIU.16	EA	3	\$	\$
6	Pump Base Ell Mounting Plate	EA	3	\$	\$
7	S.S. Pipe Bracing, 10 Ft. Dia.	EA	2	\$	\$
8	2" S.S. Pump Guide Rail System	LF	45	\$	\$
9	Resilient (Link) Seals w/Carrier Pipe	EA	6	\$	\$
10	Repair Ex. Liner, (Excl. Bid Items 9 & 11)	SF	20	\$	\$
11	Remove & Replace Ex. PVC Drain Line & P-Trap	EA	1	\$	\$
12	8" Flanged Plug Valve	EA	3	\$	\$

Bid Form - 11
 Belt Press Filter Drain Station Proj.#5128183

Bid "A"

Based on 180 Calendar Day
 Completion Time
 Addendum #1

Bidder: _____

Authorized
 Signature: _____

BID FORM
 (Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

IFB#14-0694-OV

Southwest Water Reclamation Facility (SWWRF), Belt Press Filter Drain Station Rehab.

Project No.: 5128183/ Location: 5101 65th Street West, Bradenton, FL 34210

BID "A" Based on Completion time of 180 Calendar Days

ITEM				BID PRICE	TOTAL BID
#	DESCRIPTION	U/M	QTY.	PER UNIT	PRICE
13	8" Flanged Swing Check Valve	EA	3	\$	\$
14	INTENTIONALLY LEFT BLANK				
15	Ductile Iron Fittings	LB	225	\$	\$
16	INTENTIONALLY LEFT BLANK				
17	8" Male Aluminum Quick Coupler Adapter	EA	1	\$	\$
18	S.S. Adjustable Valve Supports	EA	3	\$	\$
19	10" Gate Valve (MJ)	EA	1	\$	\$
20	8" & Less Influent Line Plug	EA	2	\$	\$
21	12" Influent Line Plug	EA	1	\$	\$
22	INTENTIONALLY LEFT BLANK				
23	By-Pass Pumping	LS	1	\$	\$
24	24-Hour By-Pass Pump Operator	LS	1	\$	\$

Bid Form - 12
 Belt Press Filter Drain Station Proj.#5128183
 Bid "A"
 Based on 180 Calendar Day
 Completion Time
 Addendum #1

Bidder: _____

Authorized
 Signature: _____

BID FORM
 (Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

IFB#14-0694-OV

Southwest Water Reclamation Facility (SWWRF), Belt Press Filter Drain Station Rehab.

Project No.: 5128183/ Location: 5101 65th Street West, Bradenton, FL 34210

BID "A" Based on Completion time of 180 Calendar Days

ITEM				BID PRICE	TOTAL BID
#	DESCRIPTION	U/M	QTY.	PER UNIT	PRICE
25	Remove & Replace Fused Safety Switch (Disconnect)	EA	4	\$	\$
26	INTENTIONALLY LEFT BLANK				
*27	Conduit - Sch 80, PVC Electrical Conduit (2" min) (Addendum #1)	LF	50	\$	\$
28	Remove & Replace Electrical Mounting Structure	EA	1	\$	\$
29	Install New Float Switches	EA	6	\$	\$
30	Pumps, Hydromatic S6L2000M4-4, 20HP, 1750 RPM	EA	3	\$	\$
31	Concrete Fillet, 3,000 psi, Type II, No Reinf., Remove & Replace	CY	2	\$	\$
32	New Concrete Wet Well Floor, 4,000 psi, Type II, with Reinf.	CY	3	\$	\$
33	Brick & Mortar Valve Supports, Max 8" High	VF	3	\$	\$
	SUBTOTAL CONSTRUCTION COST				\$

Bid Form - 13
 Belt Press Filter Drain Station Proj.#5128183
 Bid "A"
 Based on 180 Calendar Day
 Completion Time
 Addendum #1

Bidder: _____

Authorized
 Signature: _____

BID FORM
 (Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

IFB#14-0694-OV

Southwest Water Reclamation Facility (SWWRF), Belt Press Filter Drain Station Rehab.

Project No.: 5128183/ Location: 5101 65th Street West, Bradenton, FL 34210

BID "A" Based on Completion time of 180 Calendar Days

ITEM				BID PRICE	TOTAL BID
#	DESCRIPTION	U/M	QTY.	PER UNIT	PRICE
34	Mobilization	LS	1		\$
35	Miscellaneous Work & Clean Up	LS	1		\$
36	Record Drawings	LS	1		\$
	TOTAL BASE BID "A" BASED ON A COMPLETION TIME OF 180 CALENDAR DAYS				\$
	CONTRACT CONTINGENCY WORK (Used only with County Approval)	%	10		\$
	TOTAL CONTRACT AWARD WITH CONTRACT CONTINGENCY Based on Bid "A", 180 Calendar Day Completion Time (Belt Press Filter Drain Station Rehab) (Addendum #1)				\$

Bidder: _____

Authorized
Signature: _____

Bid Form - 14
 Belt Press Filter Drain Station Proj.#5128183
 Bid "A"
 Based on 180 Calendar Day
 Completion Time
 Addendum #1

BID FORM
(Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

IFB#14-0694-OV

Southwest Water Reclamation Facility (SWWRF), Belt Press Filter Drain Station Rehab.

Project No.: 5128183/ Location: 5101 65th Street West, Bradenton, FL 34210

BID "B" Based on Completion time of 120 Calendar Days

ITEM				BID PRICE	TOTAL BID
#	DESCRIPTION	U/M	QTY.	PER UNIT	PRICE
1	Wetwell Cleaning	SF	605	\$	\$
2	8" DR-11 HDPE Piping	LF	69	\$	\$
3	8" HDPE Flange Adapters w/ Backup Ring	EA	6	\$	\$
4	8" HDPE Fittings	LB	120	\$	\$
5	Pump Base Ells, BPIU.16	EA	3	\$	\$
6	Pump Base Ell Mounting Plate	EA	3	\$	\$
7	S.S. Pipe Bracing, 10 Ft. Dia.	EA	2	\$	\$
8	2" S.S. Pump Guide Rail System	LF	45	\$	\$
9	Resilient (Link) Seals w/Carrier Pipe	EA	6	\$	\$
10	Repair Ex. Liner, (Excl. Bid Items 9 & 11)	SF	20	\$	\$
11	Remove & Replace Ex. PVC Drain Line & P-Trap	EA	1	\$	\$
12	8" Flanged Plug Valve	EA	3	\$	\$

Bidder: _____

Authorized
Signature: _____

Bid Form - 15
Belt Press Filter Drain Station Proj.#5128183
Bid "B"
Based on 120 Calendar Day
Completion Time
Addendum #1

BID FORM

IFB#14-0694-OV

(Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

Southwest Water Reclamation Facility (SWWRF), Belt Press Filter Drain Station Rehab.

Project No.: 5128183/ Location: 5101 65th Street West, Bradenton, FL 34210

BID "B" Based on Completion time of 120 Calendar Days

ITEM				BID PRICE	TOTAL BID
#	DESCRIPTION	U/M	QTY.	PER UNIT	PRICE
13	8" Flanged Swing Check Valve	EA	3	\$	\$
14	INTENTIONALLY LEFT BLANK				
15	Ductile Iron Fittings	LB	225	\$	\$
16	INTENTIONALLY LEFT BLANK				
17	8" Male Aluminum Quick Coupler Adapter	EA	1	\$	\$
18	S.S. Adjustable Valve Supports	EA	3	\$	\$
19	10" Gate Valve (MJ)	EA	1	\$	\$
20	8" & Less Influent Line Plug	EA	2	\$	\$
21	12" Influent Line Plug	EA	1	\$	\$
22	INTENTIONALLY LEFT BLANK				
23	By-Pass Pumping	LS	1	\$	\$
24	24-Hour By-Pass Pump Operator	LS	1	\$	\$

Bid Form - 16
 Belt Press Filter Drain Station Proj.#5128183
 Bid "B"
 Based on 120 Calendar Day
 Completion Time
 Addendum #1

Bidder: _____

Authorized
 Signature: _____

BID FORM

IFB#14-0694-OV

(Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

Southwest Water Reclamation Facility (SWWRF), Belt Press Filter Drain Station Rehab.

Project No.: 5128183/ Location: 5101 65th Street West, Bradenton, FL 34210

BID "B" Based on Completion time of 120 Calendar Days

ITEM				BID PRICE	TOTAL BID
#	DESCRIPTION	U/M	QTY.	PER UNIT	PRICE
25	Remove & Replace Fused Safety Switch (Disconnect)	EA	4	\$	\$
26	INTENTIONALLY LEFT BLANK				
*27	Conduit - Sch 80, PVC Electrical Conduit (2" min) (Addendum #1)	LF	50	\$	\$
28	Remove & Replace Electrical Mounting Structure	EA	1	\$	\$
29	Install New Float Switches	EA	6	\$	\$
30	Pumps, Hydromatic S6L2000M4-4, 20HP, 1750 RPM	EA	3	\$	\$
31	Concrete Fillet, 3,000 psi, Type II, No Reinf., Remove & Replace	CY	2	\$	\$
32	New Concrete Wet Well Floor, 4,000 psi, Type II, with Reinf.	CY	3	\$	\$
33	Brick & Mortor Valve Supports, Max 8" High	VF	3	\$	\$
	SUBTOTAL CONSTRUCTION COST				\$

Bidder: _____

Authorized
Signature: _____

Bid Form - 17
 Belt Press Filter Drain Station Proj.#5128183
 Bid "B"
 Based on 120 Calendar Day
 Completion Time
 Addendum #1

BID FORM

IFB#14-0694-OV

(Submit in Triplicate) / IFB#14-1713-OV / Addendum #1

Southwest Water Reclamation Facility (SWWRF), Belt Press Filter Drain Station Rehab.

Project No.: 5128183/ Location: 5101 65th Street West, Bradenton, FL 34210

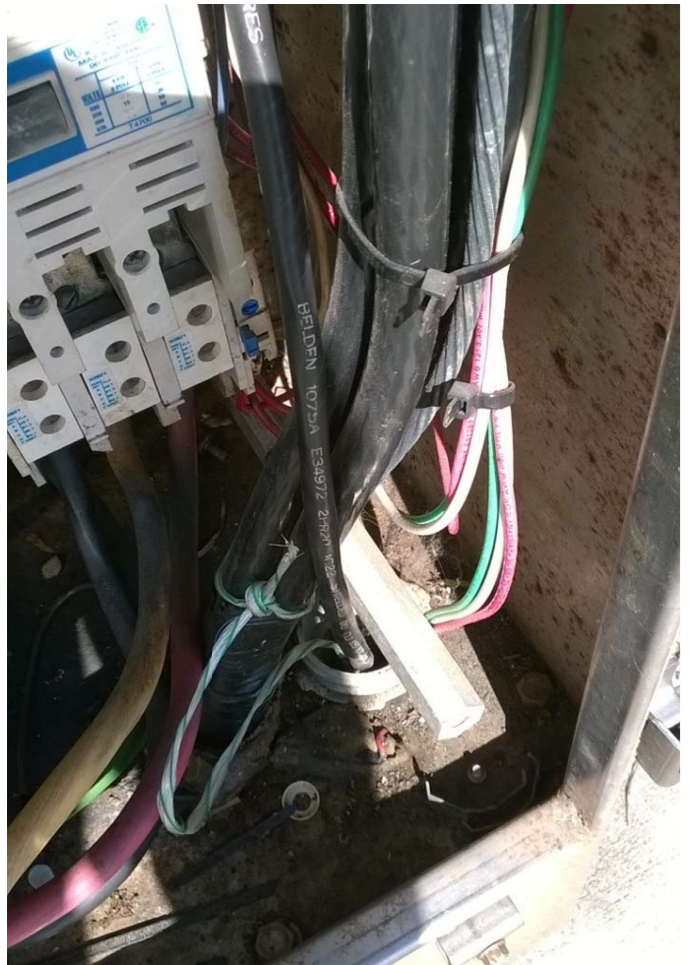
BID "B" Based on Completion time of 120 Calendar Days

ITEM				BID PRICE	TOTAL BID
#	DESCRIPTION	U/M	QTY.	PER UNIT	PRICE
34	Mobilization	LS	1		\$
35	Miscellaneous Work & Clean Up	LS	1		\$
36	Record Drawings	LS	1		\$
	TOTAL BASE BID "B" BASED ON A COMPLETION TIME OF 120 CALENDAR DAYS				\$
	CONTRACT CONTINGENCY WORK (Used only with County Approval)	%	10		\$
	TOTAL CONTRACT AWARD WITH CONTRACT CONTINGENCY Based on Bid "B", 120 Calendar Day Completion Time (Belt Press Filter Drain Station Rehab) (Addendum #1)				\$

Bidder: _____

Authorized
Signature: _____

Bid Form - 18
 Belt Press Filter Drain Station Proj.#5128183
 Bid "B"
 Based on 120 Calendar Day
 Completion Time
 Addendum #1

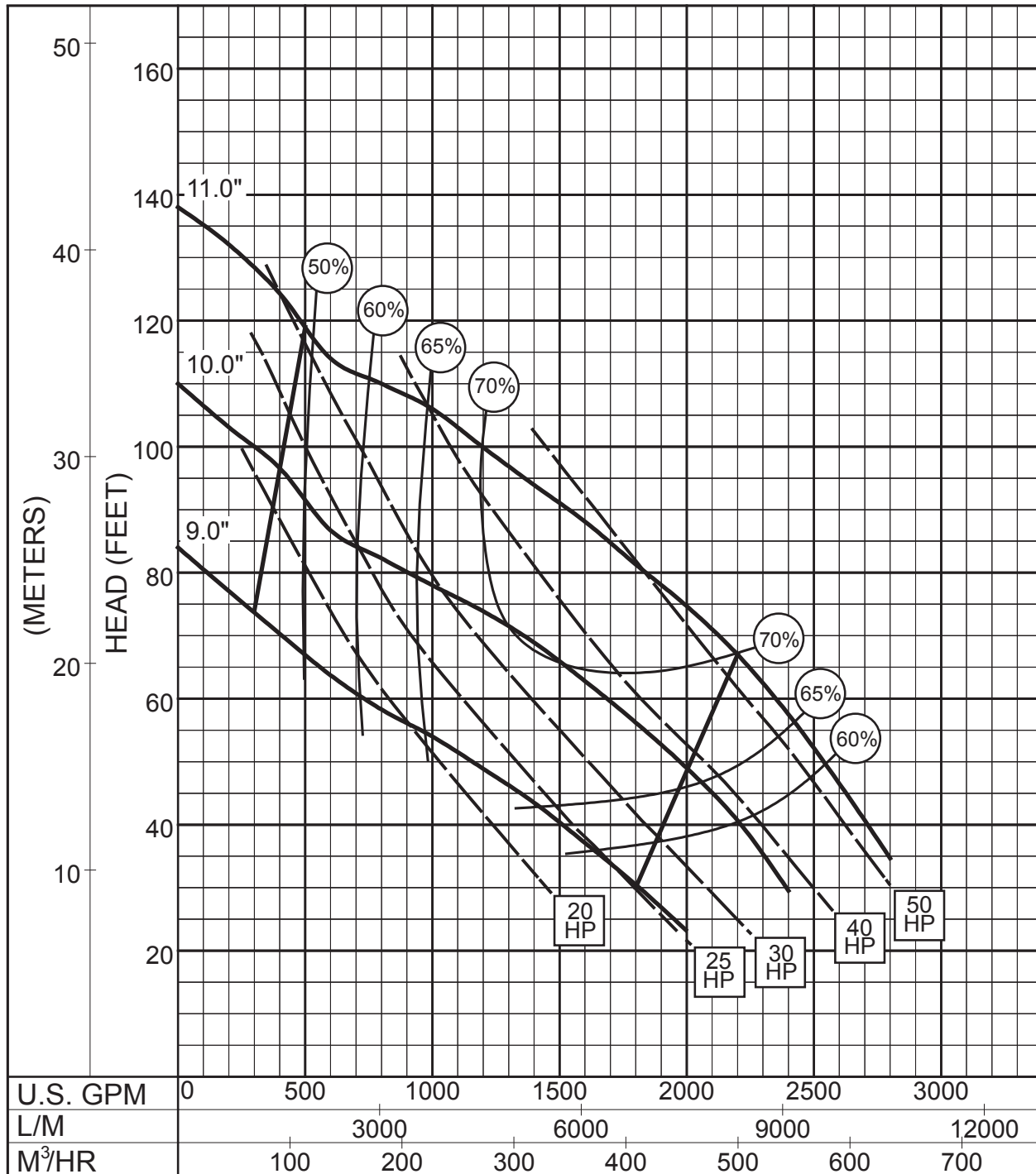


Performance Curve

S6A/S6AX

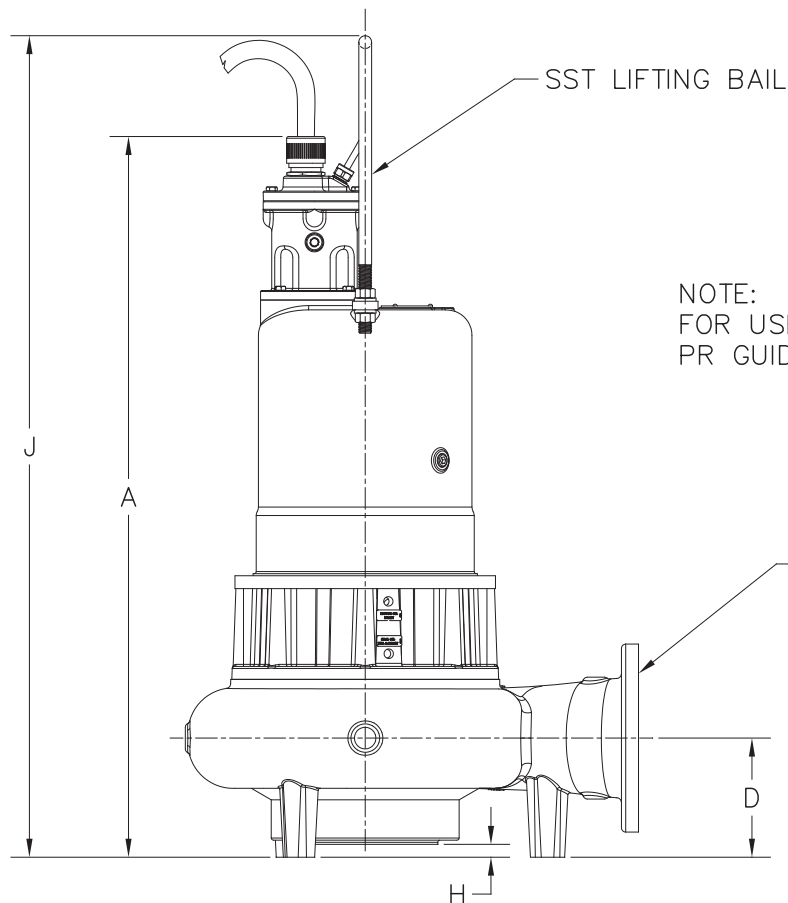
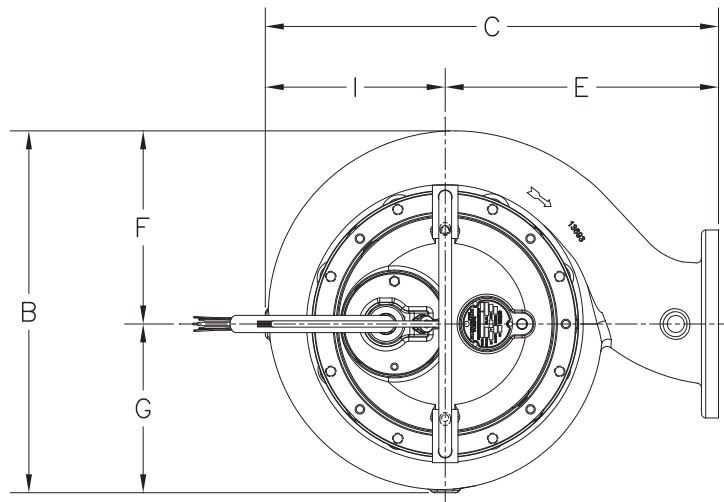
RPM: **1750** Discharge: **6"** Solids: **3-3/4"**

NOTE: FOR USE WITH M-T-M AND PULTRUDED RAIL SYSTEM ONLY.



The curves reflect maximum performance characteristics without exceeding full load (Nameplate) horsepower. All pumps have a service factor of 1.2. Operation is recommended in the bounded area with operational point within the curve limit. Performance curves are based on actual tests with clear water at 70° F. and 1280 feet site elevation.

Conditions of Service:



NOTE:
FOR USE WITH THE M-T-M AND
PR GUIDE RAILS SYSTEMS ONLY.

	A	B	C	D	E	F	G	H	I	J
S6A	42-3/16	21-3/16	26-5/8	6-7/8	16-1/8	11-5/16	9-7/8	5/8	10-9/16	48-1/16
S6AX	43-3/16	21-3/16	26-5/8	6-7/8	16-1/8	11-5/16	9-7/8	5/8	10-9/16	49-1/16

ALL DIMENSIONS IN INCHES
NOTE: CASTING DIMENSIONS MAY VARY $\pm 1/8$ "

MODEL: S6A & S6AX—Solids Handling Sewage Pump

R.P.M.	1750			
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION, VFD SUITABLE			
MOTOR DESIGN NEMA TYPE	B (3ø)			
GENERAL INSULATION CLASS	H			
STATOR WINDING CLASS	H			
MAXIMUM STATOR TEMPERATURE	356°F (180°C)			
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 130°C AND AUTOMATICALLY RESET @ 96–68°C DIFFERENTIAL, ONE IN SINGLE PHASE, TWO IN THREE PHASE			
ELECTRICAL RATINGS	HEAT SENSOR	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	SEAL FAIL	300VAC 5mA		
VOLTAGE TOLERANCE	±10%			

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LOCKED ROTOR AMPS	RUN kW	START kVA	RUN kVA	MTR. EFF. @ SF	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
10	200	3	N	1.2	35.9	40.6	334	9.5	116	12.4	.81	.79	.74	.65	.79	.77	.72	.64
	230				31.2	35.3	290											
	460				15.6	17.7	145											
	575				12.5	14.1	116											
15	200	3	J	1.2	48.3	56.3	334	13.5	116	16.7	.84	.83	.80	.74	.82	.81	.78	.72
	230				46	52	290											
	460				23	26	145											
	575				16.8	19.6	116											
20	200	3	G	1.2	62.5	75	334	17.8	116	21.6	.84	.84	.83	.79	.82	.82	.81	.77
	230				54.4	65.2	290											
	460				27.2	32.6	145											
	575				21.7	26.1	116											
25	200	3	J	1.2	78.3	92.2	575	21.7	200	27.1	.87	.86	.84	.70	.81	.80	.77	.70
	230				68	80	500											
	460				34	40	250											
	575				27.2	32.1	200											
30	200	3	H	1.2	92.2	110.7	575	25.7	200	31.9	.87	.87	.86	.83	.81	.81	.79	.73
	230				80.2	96.3	500											
	460				40.1	48.1	250											
	575				32.1	38.5	200											
40	230	3	G	1.2	105	128.3	580	34.3	230	41.8	.87	.87	.87	.85	.81	.82	.82	.79
	460				52.5	64.1	290											
	575				42	51.3	232											
50	230	3	G	1.2	141	197	690	46.7	275	55.1	.75	.80	.82	.79	.81	.83	.85	.83
	460				70.5	98.5	345											
	575				56.4	78.8	276											

MODEL: S6A(X) — Solids Handling Sewage Pumps

Physical Data:

DISCHARGE SIZE	6"
IMPELLER TYPE	BALANCED, ENCLOSED, 2 VANE
CABLE LENGTH	35' STANDARD 50' OPTIONAL

Liquid Handling:

SOLIDS SIZE	3-3/4"
MAXIMUM LIQUID TEMP.	140°F
ACCEPTABLE PH RANGE	6 - 9
SPECIFIC GRAVITY	0.9 - 1.1
VISCOSITY	28 - 35 SSU

Temperature:

MAXIMUM STATOR	311°F
OIL FLASH POINT	390°F
HEAT SENSOR	Open: 275°F MAX./257°F MIN. Closed: 205°F MAX./154°F MIN.

Technical Data:

POWER CORD TYPE		SOOW, W			
SENSOR CORD TYPE		SOOW			
MATERIALS OF CONSTRUCTION	MOTOR HOUSING	CAST IRON	ASTM	A-48	CLASS 30
	CASING	CAST IRON	ASTM	A-48	CLASS 30
	IMPELLER	CAST IRON	ASTM	A-48	CLASS 30
	CASING WEAR RING	BRONZE	ASTM	B-584-836	ALLOY 115
	MOTOR SHAFT	416 STAINLESS STEEL			
	HARDWARE	300 SERIES STAINLESS STEEL			
	"O" RINGS	NITRILE			
MECHANICAL SEALS		UPPER AND LOWER CARBON / CERAMIC / NITRILE, TYPE 21			
		Optional: LOWER TUNGSTEN CARBIDE / TUNGSTEN CARBIDE / NITRILE, TYPE 21			
		Optional: LOWER SILICON CARBIDE / SILICON CARBIDE / NITRILE, TYPE 21			
UPPER BEARING		(RADIAL) SINGLE ROW — BALL			
LOWER BEARING		(THRUST) SINGLE ROW — BALL			

Southwest Flows for the main plant drain station and the Belt Filter Presses (BFP) / Supernate drain stations-all flows are in MGD

Jan-14		Feb-14		Mar-14		Apr-14		May-14		Jun-14		Jul-14			
	BFP-S/N Drain Station	Plant Drain Station	BFP-S/N Station	Plant Drain Station	BFP-S/N Station	Plant Drain Station	BFP-S/N Station	Plant Drain Station	BFP-S/N Station	Plant Drain Station	BFP-S/N Station	Plant Drain Station	BFP-S/N Station	Plant Drain Station	
1	4.700	3.100	0.076	3.167	0.491	2.468	0.565	2.954	0.432	3.012	0.401	2.628	0.459	3.100	
2	1.510	3.380	0.062	3.061	0.220	2.358	0.611	3.300	0.424	2.993	0.418	2.610	0.430	2.656	
3	0.140	3.140	0.143	2.979	0.281	1.228	0.579	3.223	0.380	2.756	0.416	2.660	0.416	2.490	
4	0.046	3.100	0.136	3.149	0.452	1.854	0.531	3.228	0.248	2.436	0.465	2.522	0.425	2.510	
5	4.800	3.080	0.162	3.111	0.555	2.050	0.598	3.150	0.443	2.383	0.496	2.414	0.451	2.360	
6	1.350	3.130	0.308	2.805	0.537	2.119	0.361	3.220	0.380	2.574	0.447	2.460	0.389	2.351	
7	0.086	2.837	0.417	3.001	0.452	1.680	0.549	3.234	0.409	2.951	0.558	2.700	0.412	2.660	
8	0.078	2.764	0.300	2.903	0.527	2.226	0.501	2.812	0.457	2.882	0.537	2.492	0.422	2.510	
9	0.078	2.656	0.124	2.937	0.252	2.195	0.293	2.476	0.424	2.860	0.440	2.678	0.596	2.370	
10	0.150	2.720	0.412	3.264	0.454	2.128	0.472	2.956	0.401	2.884	0.425	2.650	0.455	2.357	
11	0.057	2.729	0.407	3.534	0.481	2.216	0.452	3.010	0.205	2.853	0.473	3.200	0.458	2.276	
12	0.048	2.810	0.377	3.261	0.515	2.066	0.476	3.012	0.351	2.955	0.413	3.530	0.435	2.250	
13	1.410	2.970	0.380	2.911	0.598	2.556	0.423	2.884	0.501	2.881	0.398	3.530	0.437	2.340	
14	1.600	3.000	0.484	3.139	0.568	2.642	0.427	3.024	0.487	2.837	0.396	3.510	0.431	2.234	
15	0.134	3.081	0.298	3.130	0.528	2.670	0.533	2.983	0.463	2.883	0.339	3.550	0.437	2.203	
16	0.122	2.990	0.296	3.154	0.219	2.587	0.508	2.624	0.450	3.000	0.370	3.605	0.451	2.260	
17	1.210	3.000	0.497	3.341	0.863	2.834	0.529	2.748	0.420	2.910	0.420	3.603	0.500	2.050	
18	4.500	3.000	0.524	3.210	0.586	2.367	0.545	2.475	0.377	2.900	0.425	3.290	0.505	2.270	
19	0.048	3.000	0.491	3.245	0.568	2.229	0.524	2.749	0.501	2.659	0.391	2.740	0.506	2.190	
20	0.048	2.990	0.571	3.319	0.546	2.270	0.458	2.903	0.389	2.769	0.388	2.724	0.472	2.140	
21	1.200	3.000	0.553	2.761	0.564	2.303	0.505	2.804	0.356	2.786	0.386	2.763	0.466	2.210	
22	1.500	3.110	0.413	2.217	0.444	2.302	0.569	3.154	0.410	2.710	0.377	2.660	0.489	2.380	
23	0.110	3.022	0.780	2.141	0.132	2.506	0.536	3.140	0.342	2.544	0.455	2.850	0.472	2.640	
24	0.142	2.934	0.536	2.318	0.499	2.343	0.526	3.199	0.340	2.506	0.420	2.884	0.453	2.570	
25	0.054	3.059	0.579	2.243	0.519	2.339	0.491	3.060	0.363	2.450	0.433	2.694	0.419	2.400	
26	0.053	2.998	0.517	2.160	0.591	2.400	0.479	3.180	0.313	2.470	0.534	2.750	0.421	2.420	
27	0.143	3.419	0.625	2.295	0.462	3.047	0.373	3.244	0.352	2.455	0.522	3.170	0.419	2.350	
28	0.142	2.997	0.569	2.221	0.624	4.423	0.456	3.303	0.500	2.423	0.436	3.274	0.419	2.540	
29	0.126	2.932			0.549	2.505	0.423	3.145	0.437	2.480	0.410	2.920	0.437	2.440	
30	0.134	2.892			0.110	2.457	0.473	3.259	0.421	2.380	0.450	3.110	0.509	2.760	
31	0.108	2.894			0.501	2.554			0.417	2.395			0.516	2.450	
		0.833	2.991	0.394	2.892	0.474	2.385	0.492	3.015	0.400	2.709	0.435	2.939	0.455	2.411
		4.800	3.419	0.780	3.534	0.863	4.423	0.611	3.303	0.501	3.012	0.558	3.605	0.596	3.100

BFP-S/N Station	Plant Drain Station	Average over 7 months
0.498	2.763	
1.244	3.485	