SAN ANTONIO WATER SYSTEM
DSP Southeast Tank and Pump Station Project
SAWS Job Nos. 13-6102 (DSP) & 13-6005
Solicitation No. CO-00006

ADDENDUM NO. 7

August 28, 2015

TO BIDDER OF RECORD:

The following changes, additions, and/or deletions are hereby made as part of the Contract Documents for the DSP Southeast Tank and Pump Station Project, for the San Antonio Water System, San Antonio, Texas, dated July 2015, as fully and completely as if the same were set forth therein.

PART 1 – BIDDING AND CONTRACT DOCUMENTS (NOT USED)

PART 2 – TECHNICAL SPECIFICATIONS

1. SECTION 11210, HORIZONTAL SPLIT-CASE PUMP:

   a. REVISE Paragraph 1.08.B.1 as follows:

PUMPING CONDITIONS FOR PZ830	
Rated Capacity, MGD	2.5
Rated Head, FT	237
Efficiency Evaluation Head, FT	220
Maximum Duty Point Head, FT	265
Minimum Duty Point Head, FT	175
Minimum Pump Efficiency at Rated Head	75%
Minimum Pump Efficiency at BEP	80%
Available NPSH, FT	27.61
Motor Voltage	460
Maximum Motor Horsepower, HP	200
Maximum Motor Speed, RPM	1800

PUMPING CONDITIONS FOR PZ2	
Rated Capacity, MGD	1.67
Rated Head, FT	175
Efficiency Evaluation Head, FT	135
Maximum Duty Point Head, FT	185
Minimum Duty Point Head, FT	90

Minimum Pump Efficiency at Rated Head	75%
Minimum Pump Efficiency at BEP	78%
Available NPSH, FT	28.83
Motor Voltage	460
Maximum Motor Horsepower, HP	100
Maximum Motor Speed, RPM	1800

b. ADD Paragraph 2.01.A.4:

"4. The Equipment Manufacturer and Contractor shall verify the pump suction inlet size, suction side reducer size and dimensions, and any required straight pipe length between pump suction and upstream fittings in accordance with Hydraulic Institute Standards and AWWA C208."

c. REVISE the second sentence in Paragraph 2.01.I as follows:

"Coupling shall be all stainless steel, Falk Lifelign Gear Couplings, as manufactured by the Rexnord Corporation."

d. ADD the attached system curves to the end of Section 11210.

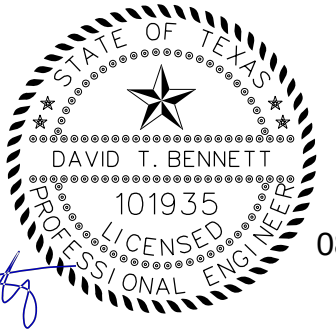
4. SECTION 15114, PRESSURE SUSTAINING VALVES:

a. INSERT Paragraph 2.01.B.1.a:

"a. Valve shall be model number 58G-01 B, P, KC."

PART 3 – DRAWINGS (NOT USED)

ALL BIDDERS SHALL ACKNOWLEDGE RECEIPT OF ADDENDUM NO. 7 IN THE BID FORM AND BY HIS/HER SIGNATURE AFFIXED HERETO AND TO FILE SAME AS AN ATTCHMENT TO HIS/HER BID. BID FORMS SUBMITTED WITHOUT THIS ACKNOWLEDGEMENT WILL BE CONSIDERED INFORMAL.



08-28-15

David T. Bennett, P.E.

Freese and Nichols, Inc.

FREESE AND NICHOLS, INC.
TEXAS REGISTERED
ENGINEERING FIRM
F-2144

ACKNOWLEDGEMENT BY BIDDER

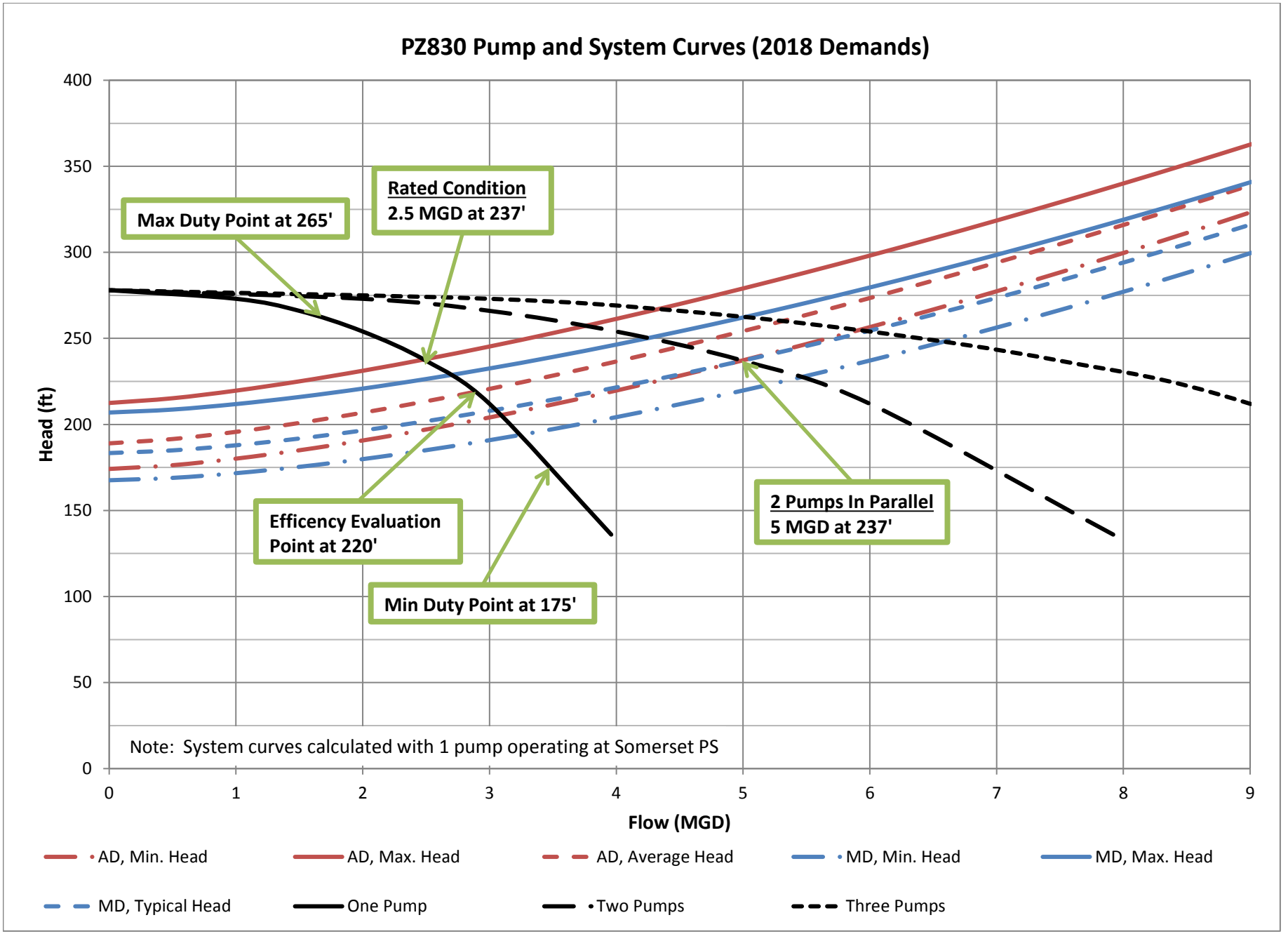
THE UNDERSIGNED ACKNOWLEDGES RECEIPT OF THIS ADDENDUM NO. 7 AND THE BID SUBMITTED HEREWITH IS IN ACCORDANCE WITH THE INFORMATION AND STIPULATION SET FORTH.

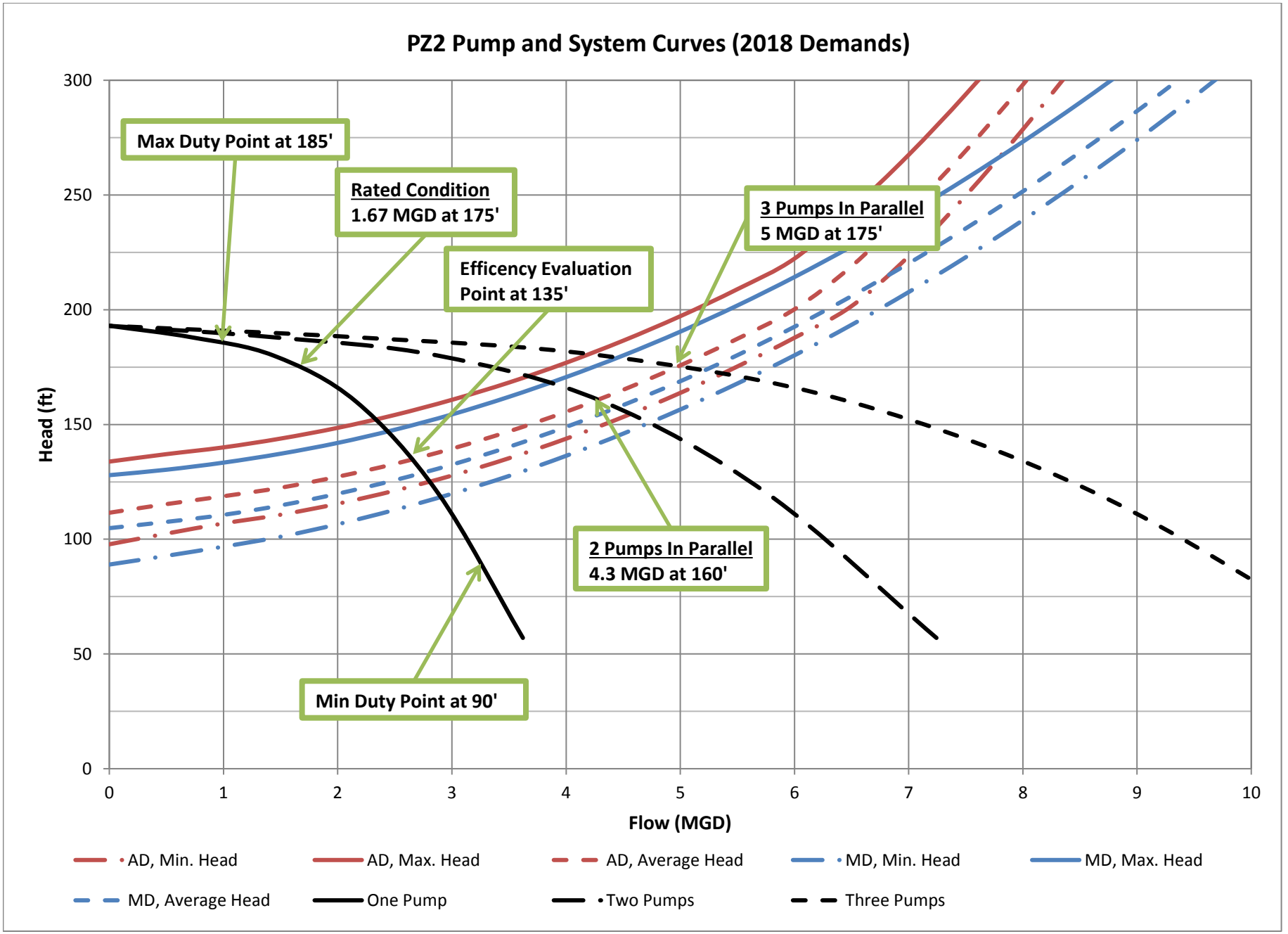
Date Signature of bidder

Appended hereto and part of Addendum No. 7 is:

1. PZ830 Pump and System Curves (2018 Demands)
2. PZ2 Pump and System Curves (2018 Demands)

END OF ADDENDUM NO. 7


PZ830 Pump and System Curves (2018 Demands)
Head (ft)
Flow (MGD)
Max Duty Point at 265'
Rated Condition
2.5 MGD at 237'
Efficency Evaluation
Point at 220'
Min Duty Point at 175'
2 Pumps In Parallel
5 MGD at 237'
Note: System curves calculated with 1 pump operating at Somerset PS
AD, Min. Head
AD, Max. Head
AD, Average Head
MD, Min. Head
MD, Max. Head
MD, Typical Head
One Pump
Two Pumps
Three Pumps


PZ2 Pump and System Curves (2018 Demands)
Max Duty Point at 185'
Rated Condition
1.67 MGD at 175'
Efficency Evaluation
Point at 135'
3 Pumps In Parallel
5 MGD at 175'
2 Pumps In Parallel
4.3 MGD at 160'
Min Duty Point at 90'
Head (ft)
Flow (MGD)
0
50
100
150
200
250
300
0
1
2
3
4
5
6
7
8
9
10
AD, Min. Head
AD, Max. Head
AD, Average Head
MD, Min. Head
MD, Max. Head
MD, Average Head
One Pump
Two Pumps
Three Pumps