



**PIMA COUNTY  
PROCUREMENT DEPARTMENT  
DESIGN AND CONSTRUCTION DIVISION**

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April 21, 2016

**ADDENDUM NO. 03**

PROJECT: IFB 193780 – SABINO CREEK PUMP STATION PROJECT NO. 3SCP06

TO ALL CONTRACTORS:

Be advised of the additions, clarifications and/or changes to the above-referenced Invitation for Bid as stated in the following Addendum.

1. The *Bid Due Date and time* **REMAIN** *Thursday, April 28, 2016 at 2:00 p.m.*
  
2. Based on comments received at the site visit County provides the following clarifications:
  - Pima County wants to keep the trees within the TCE project areas. However the contractor may remove the trees in those areas if they find it necessary to complete the work. Contractor must replace the removed trees in-kind.
  - Pima County will accept Flygt pumps or equal per the project documents. See Section 11312 Submersible Pumps, Part 2.02 Service Conditions of the specifications. See also Specifications Addendum #1.
  - Is there a ramification if the contractor bids over the Engineers cost estimate?
    - No.
  - What is the earliest the project could be awarded and when can construction start?
    - Contract award is estimated to be approximately 45 business days after the bid opening date. The soonest construction may begin is approximately 14 business days after the Board of Supervisors awards and executes the contract.
  
3. County has received two technical questions. The questions and their answers are provided below for guidance:
  - Q. Is the 6" HDPE force main installed and approved by ADEQ for use? If so, would it be possible to connect the temporary bypass to the existing 6" force main and discharge to manhole #8219-04 thru this piping?
  - A. No, the HDPE force main is not approved by ADEQ.

- Q. What is the duty point or designed flow rate / pressure for the Flygt 3127.248 11hp pumps? We are asking to determine the flow rates for the temporary sewer bypass pumps.
- A. The design conditions for the pump can be found in the specifications in Section 11312 Submersible Pumps, Part 2.02 Service Conditions, Section C “Design Conditions.” Table 4.1, the “Sabino Creek Pump Station Flow Analysis” is included as an attachment to this addendum to further answer this question

This addendum is a total of **3 pages** (including 1 page of attachments).

Any questions regarding this addendum should be directed to [keith.rogers@pima.gov](mailto:keith.rogers@pima.gov) or by fax to 520-770-4012.

Bidders must acknowledge receipt of this addendum on the bid form provided in the Bid Documents. Failure to do so may render the bid non-responsive.

Keith E. Rogers, CPPB  
Contracts Officer

TABLE 4.1 SABINO CREEK PUMP STATION FLOW ANALYSIS				
<b>Single Family Dwellings</b>				
Dwelling Units (DU)	Capita per DU <sup>1</sup>	Average Flow per Person per Day (gpcd)	Population	Average Day Flow (gpd)
260	2.7	85	702	59,670
<b>Canyon Ranch Resort</b>				
Dwelling Units (DU)	Resort Population Classification <sup>2</sup>	Average Flow per Person per Day (gpd)	Population <sup>2</sup>	Average Day Flow (gpd)
N.A.	Resident (Guest)	100	300	30,000
N.A.	Employee	20	500	10,000
<b>Flow Based on A.C.C. for Population &amp; Peak Flow</b>				
Population	Peaking Factor (ADEQ R18-9 E301) <sup>3</sup>	Average Flow (gpd)	Peak Flow (gpd)	Peak Flow (gpm)
1,172	2.33	99,670	232,231	161
<b>Flow Based on A.C.C. for Pump Station Design</b>				
Peaking Factor Criteria for Pump Stations <sup>4</sup>		Flow (gpm)		
EDU <sup>5</sup>	434	218		
EDU Population <sup>6</sup>	1,172	218		
<b>Design Pump Capacity</b>		<b>220 (Rounded Up)</b>		

1 A.A.C. R18-9-E323: Table 1 Unit Design Flows – Dwelling Unit (per PCRWRD) & Country Club, and Employee Cafeteria classifications (per ADEQ). 2.7 Capita per DU per PCRWRD & Pima County Association of Government data.

2 Canyon Ranch Resort Population and Employee Classification based on criteria provided by Doug Wilson, MPH Corporate Reliance & Sustainability Officer Executive Director, Development Advisor for Facility Development & Management, Canyon Ranch Institute.

3 A.A.C. R18-9-E301(D): Dry Weather Peaking Factor

4 A.A.C. R18-9-E301. 4.01D.1.b.iii.

5 Equivalent Dwelling Units (EDU) (includes Canyon Ranch Resort) based on Single Family DU Criteria for the area.

6 Population reflects equivalent dwelling unit (EDU) population based on Canyon Ranch Resort Average Day Flow and Single Family DU criteria.

A wet weather infiltration and inflow component has not been included in the peak flow rates or the pump station capacity presented herein. The service area is not located in a low lying area where storm water can pond and create inflow and or infiltration. During PCRWRD inspection and flow monitoring the existing sewer did not exhibit signs of ground water infiltration and the inverts of the sewer are located above the Sabino Creek sandy bottom bed elevation. Area groundwater was not identified during the geotechnical evaluation effort for the design phase of the project.