PRIORITY 1 PUMP STATION UPGRADES

CITY OF RALEIGH
RALEIGH, NORTH CAROLINA

SUBJECT: ADDENDUM NO. 3
To the Drawings and Project Manual for:
PRIORITY 1 PUMP STATION UPGRADES
Raleigh, N.C.

To: PROSPECTIVE BIDDERS AND OTHER CONCERNED PARTIES

This ADDENDUM forms a part of the Contract Documents and modifies the original Bidding Documents as noted below. Bidders shall acknowledge receipt of the ADDENDUM in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

PART 1 – SUBMITTED QUESTIONS

Questions and requests from potential bidders are summarized in the table below with responses.

1.	Question:	Can an allowance be set for any required concrete wet well repairs needed prior to coating?
	Response:	No allowance will be added. Coatings and rehabilitation methods are inclusive to lump sum price for each site.
2.	Question:	Can additional TCE be acquired for Wake High Meadows?
	Response:	Contractor may negotiate additional TCE with the neighborhood HOA following contract award.
3.	Question:	Please provide maximum shutdown times at each pump station.
	Response:	Additional information has been provided in Table 3.3 related to storage volume.
4.	Question:	Is the intent of this project for all of CITI's work to be handled via the provided allowance? If not, can we get allowance adjusted to incorporate everything required by them seeing as they are the sole source integrator?
	Response:	The scope of work covered in the allowance is described in the attachment TS-1. CITI may also provide additional equipment, labor, etc if desired. All work not described in TS-1 will be covered under the lump sum price for the appropriate site.
5.	Question:	Can Raven products be used.
	Response:	Raven 405 series is acceptable or equal.
6.	Question:	Will 24/7 in person monitoring of all bypass pumping operations be required?
	Response:	Yes, see section 33 03 10 3.3-4, a.

7.	Question:	Please provide flows at each pump station site so bypass pumping can be properly sized.
	Response:	See plan sheet 3, table 3.2 for minimum bypass pumping rates. See mechanical plan sheets for average daily flows at each site.
8.	Question:	Will the City consider extending the NTP date to accommodate long lead items on this project?
	Response:	Reference SC-4.01 in the Supplementary Conditions. The expectation is the NTP will be issued no later than 30 days after the effective date of the Agreement. Contract duration was set accounting for the lead times of the equipment. If the contract duration is not viewed as sufficient, Contractor can request a longer duration be considered prior to bids being received.
9.	Question:	Will the City consider extending the bid date 1 week?
	Response:	Yes, bid date has been extended to August 6 at 2:00pm
10.	Question:	To my knowledge, the C.O.R. requires a NEMA 4X 480V – 120/240 1ph transformer and separate 4X Load Center. That said, for Brownleigh, it seems like there should be a trough after the ATS, then a disconnect for the xfmr, and a separate feed for the PCP. Thoughts?
	Response:	Installation of a NEMA 4X disconnect following the transfer switch and a transformer is acceptable. Inclusion of a wire way is also acceptable.
11.	Question:	Please see spec,26-32-13 page 4 of 12, “E. Manufacturers offering products that may be incorporated into the work include Caterpillar, Generac, Kohler, Generac, or pre-approved equal.”
	Response:	No other manufacturers are allowed.
12.	Question:	Sheet 12 – (Brownleigh) ATS sizing information on single line?
	Response:	200A 480V
13.	Question:	Sheet 12 – (Brownleigh) Mini Power Zone kVA info?
	Response:	Transformer shall be 5 kVA
14.	Question:	Sheet 16 – (Indian Creek) Amperage/Voltage info for Gen?
	Response:	See Table 4.2. 120/240v 3 phase delta, 40kw, 50 kVA
15.	Question:	Sheet 16 – (Indian Creek) size of Gen breaker?
	Response:	100 Amp
16.	Question:	Sheet 17 – (Indian Creek) do we assume that Panel PP has the correct breaker existing to feed the new Pump Control Panel?
	Response:	Yes, it has a 3 phase 80-amp breaker sufficient the two 10.1 HP motors
17.	Question:	Sheet 22 – (Wake High Meadows) same issues with feeds to the xfmr and PCP as Brownleigh.
	Response:	See answer to Question 10
18.	Question:	Sheet 22 – (Wake High Meadows) Amperage/Voltage info for Gen?
	Response:	See Table 4.2. 120/240v 3 phase delta, 40kw, 50 kVA
19.	Question:	Sheet 22 – (Wake High Meadows) ATS sizing info?
	Response:	100 Amp
20.	Question:	Sheet 22 – (Wake High Meadows) 480V – 120/240V Transformer not shown. What is the required kVA?
	Response:	Transformer shall be 5 kVA

21.	Question:	Sheet 29 – (Gannon) MCC 1 information for installation of new 400A breaker? Unit Serial number, date of manufacture?
	Response:	MCC 1 breaker is to be replaced and included with proposed cabinet. See Appendix B for additional information regarding existing MCC.
22.	Question:	The EOR is calling out stainless steel silencers for the gensets. I see this spec when there is a belief that the silencer is located outside of the enclosure (Cat's are inside the enclosure). This will add thousands to the cost of the gensets.
	Response:	COR requests stainless steel.
23.	Question:	There appears to be no preference as to the ATS transition type - whether they should be open-transition or delayed transition? Both are mentioned in the specs but not called out directly.
	Response:	Open transition.
24.	Question:	ATS: NEMA-3R enclosure OR NEMA-4X?
	Response:	NEMA 4x, see note D15/4.
25.	Question:	Who is responsible for removing the existing generators from the pad? Do they have to be transported? Location?
	Response:	Contractor is responsible for all the above. The only generator Raleigh wants to retain is at Indian Creek. Contractor is to relocate generator to the Neuse River Resource Recovery Facility off Battle Bridge Road.
26.	Question:	Who is responsible for disposing of the existing fuel in the generators.
	Response:	Contractor
27.	Question:	Who is providing the Pump Control Panels? Will the pump supplier provide them?
	Response:	Gannon is to be provided by CITI per their quote attachment TS1. Preference for others would either be CITI or the pump manufacturer.
28.	Question:	Is the Demo remove complete or abandon in place.
	Response:	We assume you are referencing conduits. Conduits can be abandoned in place unless they conflict with proposed components.
29.	Question:	Do you want enclosed breakers for main disconnects or fused disconnects.
	Response:	Non-fused per leader on sheet 29 section C/29. Over current protection occurs within MCC panels.
30.	Question:	Is PVC coated rigid required all the way to the terminal boxes or just when penetrating the wet well.
	Response:	PVC coated RGS is required from wet well to point of termination at terminal box.
31.	Question:	Are new pump control panels needed for Brownleigh and Wake High Meadows? Do both follow plans detail 2/35.
	Response:	Both Brownleigh and Wake High Meadows require new pump control panels and shall follow detail 2/35.
32.	Question:	What specification section has the pump control panel requirements?
	Response:	25 00 00 – Integrated Automation, 26 00 00 – Electrical, 27 00 00 – Instrumentation and Controls are the most directly related spec sections but others apply as well.

33.	Question:	Sheet 22 – I see now that this a 120/240V 3 phase station. Looking at Table 22.1, LC1 is listed as a single phase panel board. On the Component Schedule, (E) is shown as 1 ¼" (4) 2 awg + (1) #8 awg gnd, this seems to indicate a 3 phase feeder. Should this be (3) 2 awg instead?
	Response:	As configured, item 2 (LC1) shown on 1/22 is intended to be a 3 phase 120/240v panel.
34.	Question:	Sheet 22 - Component Schedule items (L) & (M) are the 3ph feeders from the Pump Control Panel to the WW J-Box. Where are the 3ph pump feeders to the Pump Control Panel? Is this fed straight from the ATS?
	Response:	LC1 should have a second 1-1/4" RGS to the PCP identical to E or combine conductors in F and conductors identical to E in a single 1-1/2" Alternately, all necessary conductors can be installed in a wire way between panels.

PART 2 – PROJECT DRAWINGS

1. Sheet 3 - Replace Table 3.2 with the following Table.

SITE NAME	MINIMUM BYPASS PUMPING RATE (GPM)	APPROXIMATE STORAGE VOLUME (GAL)	APPROXIMATE ADF (GPM)	ASSUMED MAX FLUID ELEV (FTMSL)	ASSUMED MIN FLUID ELEV (FTMSL)	MAXIMUM SHUTDOWN TIME (HOURS)
Brighton	N/A	4,600	52	226.65	214.83	1.5
Brownleigh	400	18,160	64	386.58	378.43	4.7
Indian Creek	100	4,219	12	220.42	213.55	5.8
Wake High Meadows	100	3,780	21	205.31	200.01	3
Gannon	2000	19,039	247	241.01	233.09	1.2

TABLE 3.2 NOTES:

3.2.1 SHUTDOWN SCENARIO: EXISTING PUMPS OFF, NO BYPASS PUMPING, WET WELL AND UPSTREAM GRAVITY FILLING AT AVERAGE DAILY FLOW RATE, NO DRAINING OF FORCE MAIN INTO WET WELL.

3.2.2. THE SHUT DOWN TIMES AND VOLUMES ARE APPROXIMATIONS FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL VERIFY STORAGE TIMES AND FLOW RATES.

3.2.3. ELEVATION DATA FOR MANHOLES IS APPROXIMATED BASED ON GIS AND INCLUDES 2’ OF FREEBOARD BELOW THE LOWEST RIM IN THE IMMEDIATE VICINITY. ADF INFORMATINO IS BASED ON PREVIOUS RUNTIME DATA AND IS NOT CURRENT. STORAGE VOLUME INCLUDES WET WELL VOLUME BETWEEN ELEVATIONS SHOWN.

2. Sheet 4 add the following note under section F – GENERATORS

   7. ALL GENERATORS SHOWN TO BE REMOVED SHALL BE REMOVED BY CONTRACTOR AND LEGALLY DISPOSED OF INCLUDING FUEL. INDIAN CREEK GENERATOR SHALL BE RELOCATED PER NOTE 13.5/13.

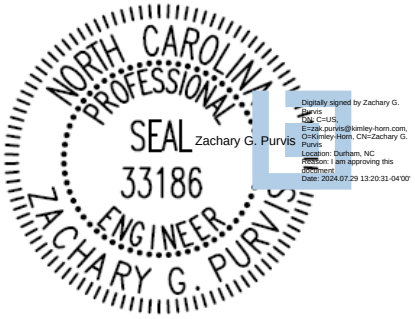
3. Sheet 13 add the following note:

   13.5 EXISTING GENERATOR SHALL BE REMOVED FROM SERVICE AND DELIVERED TO THE CITY OF RALEIGH NEUSE RIVER RESOURCE RECOVERY FACILITY LOCATED AT 8500 BATTLE BRIDGE ROAD, RALEIGH, NC. COORDINATE DELIVERY WITH CITY INSPECTOR.

PART 3 – PROJECT MANUAL

- NONE

PART 4 – CERTIFICATION



FOR THE OWNER
Kimley-Horn & Associates, Inc.

BY_____
Zachary G. Purvis, P.E.

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