Addendum #3 To
Request for Proposal
For St. Andrews HVAC Retrofit-Phase I: Project 156-247867-3

Dated September 17, 2014

As a result of Addendum Two, another question was submitted for clarification and a Drawing has been revised. The question and the University’s response is as follows:

**Question 3:** The mechanical schedule M-101 (Chiller Note – 2) indicates the new chiller is designed for operation with a 40% glycol mix. Is glycol required?

**Response:** Yes glycol is required.

Additional question with regards to Question 3 (above) from Addendum Two:
**Question:** What is the volume of the CHW system? Are we to assume there is a glycol fill system or adequate backflow protection in place if connected to city water? (Not shown on drawings)

**Response:** No glycol fills the system, no backflow protection. The contractor is responsible to figure out what is the CHW volume.

Attached, please find the write-up and Revised Drawings.

The Addendum must be acknowledged on your lump sum bid.

NOTE: You must have attended a pre-bid conference in order to be eligible to bid on a particular project. Receipt of minutes or addenda without being at a pre-bid conference does not qualify your company to bid.

A copy of this Addendum will be posted to the Purchasing web site at http://www.forms.purchasing.wayne.edu/Adv_bid/Adv_bid.html.

As a result of this Addendum, the bid due date has been extended. The new due date is October 7, 2014, at 2:00 pm.

If you have any further questions, please do not hesitate to email them to me at ac9934@wayne.edu and copy rfpteam1@wayne.edu.

Thank you,

Kimberly Tomaszewski,
Senior Buyer

Attachment
MODIFICATIONS DURING BIDDING

This Addendum describes revisions to the Bidding Documents issued on August 27, 2014.

ACCOMPANYING DOCUMENTS: The following documents accompany this write-up and are a part of this Addendum:

- Whole Drawings: E-100, E-101, M-100, & M-101

REVISIONS TO DRAWINGS:

MECHANICAL:
ITEM NO. 1 Refer to Sheet M-100
a) Indicated location of chiller pumps P-1 and P-2.
b) Revised limit of contract outline to include chiller pumps.

ITEM NO. 2 Refer to Sheet M-101
a) Revised pump schedule.

ELECTRICAL:
ITEM NO. 3 Refer to Sheet E-100
a) Indicated location of pump-1 & pump-2 with their circuiting route and details.
b) Revised 400A breaker in MDP-1 to 100A to satisfy new chiller.
c) Revised MDP-1 panel schedule.
d) Added notes 5, 6 & 7.

ITEM NO. 4 Refer to Sheet E-101
a) Revised note 4 regarding replacing the existing 400A chiller disconnect with a new one.
b) Added note 6 describing the circuiting of the new 100A chiller disconnect.

END OF WRITE-UP

Prepared by:

NSA Architects, Engineers, Planners

Christopher C. Arnold, AIA, NCARB
Vice President
GENERAL ELECTRICAL NOTES

1. All wiring is to be done in a manner that complies with the National Electrical Code

2. All equipment shall be listed and approved by a nationally recognized laboratory.

3. All electrical equipment shall be listed and approved by a nationally recognized laboratory.

4. All electrical equipment shall be listed and approved by a nationally recognized laboratory.

5. All electrical equipment shall be listed and approved by a nationally recognized laboratory.

GENERAL MECHANICAL NOTES

1. All mechanical equipment shall be listed and approved by a nationally recognized laboratory.

2. All mechanical equipment shall be listed and approved by a nationally recognized laboratory.

3. All mechanical equipment shall be listed and approved by a nationally recognized laboratory.

4. All mechanical equipment shall be listed and approved by a nationally recognized laboratory.

5. All mechanical equipment shall be listed and approved by a nationally recognized laboratory.

CHILLER SCHEDULE

<table>
<thead>
<tr>
<th>TAG</th>
<th>MFR &amp; MODEL NO.</th>
<th>AREA SERVED</th>
<th>LOCATION</th>
<th>EWT</th>
<th>LWT</th>
<th>WATER GPM</th>
<th>CFM</th>
<th>FAN KW</th>
<th>FAN RPM</th>
<th>KW</th>
<th>RLA AMPS</th>
<th>MOCP</th>
<th>TOTAL MCA</th>
<th>TSC</th>
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<tbody>
<tr>
<td>CH-1</td>
<td>CARRIER 30RAPO35</td>
<td>ST. ANDREWS HALL</td>
<td>OUTDOOR</td>
<td>31.5 TON</td>
<td>52.2</td>
<td>44</td>
<td>100.0</td>
<td>29,600</td>
<td>-</td>
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<td>-</td>
<td>100.0</td>
<td>91.1</td>
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NOTE 1: PROVIDE DISCONNECT SWITCH, PIPE STRAINER, FLEX CONNECTIONS, UNIONS, FLOW SWITCH, VIBRATION ISOLATORS, DDC MICROPROCESSOR UNIT CONTROLLER WITH ALARMS, AND DIGITAL INPUTS AND OUTPUTS. REUSE EXISTING DISCONNECT SWITCH.

NOTE 2: NET CHILLER CAPACITY IS BASED ON A 40.0% CONCENTRATION OF PROPYLENE GLYCOL.

NOTE 3: PROVIDE DUAL PUMP PACKAGE AS SCHEDULED ON DRAWING.

NOTE 4: PROVIDE POWDER COATING OF FAN BLADES AND HOUSING. COLOR TO BE SELECTED BY OWNER REPRESENTATIVE. CONTRACTOR SHALL MAKE AVAILABLE TO OWNER THE FULL RANGE OF COLOR/FINISH OPTIONS.

NOTE 5: FANS SHALL BE FURNISHED BY ONE OF THE FOLLOWING: 1) BIG ASS FANS, ESSENCE SERIES 2) SKY BLADE FAN COMPANY, OR 3) RITE-HITE FANS.

PUMP SCHEDULE

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<th>GPM</th>
<th>HEAD FT. W.C.</th>
<th>TYPE</th>
<th>H.P.</th>
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<td>P-1, 2</td>
<td>CHILLED WATER SYSTEM WITH CHILLER</td>
<td>100.0</td>
<td>50.0</td>
<td>IN-LINE</td>
<td>3.0</td>
<td>1750</td>
<td>208</td>
<td>3.0</td>
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DUAL PUMP PACKAGE PROVIDED WITH CHILLER. PROVIDE DISCONNECT SWITCHES.

CIRCULATION FAN SCHEDULE

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