DATE: August 3, 2015

RFP NUMBER: FM2016-001 - General Contractor for Renovations to Stage Rigging in Texas Hall

BID OPENING DATE & TIME: August 20, 2015 at 3:00 p.m.

CLARIFICATIONS:

This Addendum modifies the Drawings and Project Manual prepared by Jaster-Quintanilla Dallas, LLP dated July 16, 2015 for the above-named project. Proposers shall acknowledge receipt of this Addendum in the space provided on their Proposal Form.

Item 2.1: RFI No. 1 submitted by Secoa. See attached, with responses noted on document.

Item 2.2: Substitution Request from ETC (attached).
Response:
Our response is the ETC P75-3300GS motor is an acceptable substitution with the following conditions:
• The contractor is responsible for providing documents with an engineer’s stamp that show the loads the motor and loft blocks will place on the gridiron structure.
• The documents shall show how the motor is attached to the existing structure and prove that the existing structure will support the downward and lateral forces from the lineset.
• The documents shall also show all the motorized linesets and prove the structure can handle the loads when two of these linesets move at one time.

In the bill of materials, I.C. QuickTouch+ Controller and Control Accessories, the product listed does not meet the rigging specification 2.28.C.6. This product will not be acceptable. The same controller is listed in III.A.
Item 2.3: Contractor will be allowed to reuse existing work light conductors between Panel “LA” and gridiron wireway if possible. If not possible to reuse, replace with new.

Item 2.4: Conduits to Type “S3” light fixtures above doors shall be surface mounted in lieu of coring existing concrete walls.

Item 2.5: Replace gridiron level wireway to allow bottom entry and top exit of conduits. Side facing south shall be hinged to provide access. Increase size of wireway as required. Replace terminal strips.

Item 2.6: The amount of floor covering protection for the stage as part of the base bid shall include just the stage area under the gridiron and upstage until it changes to tile on the west side.

Item 2.7: Substitution request for ETC P75-2000G is not approved. Substitution request for Safety Rail 2000 Architectural Series distributed by Dakota Safety is not approved.

[Signature]

Contract Specialist (817) 272-0192

This addendum forms a part of the contract documents and modifies the original solicitation documents. Acknowledge receipt of this Addendum in the space provided on the Bid Submittal Form, or by returning one (1) signed copy of this notice.

Make all changes identified in addendum to the solicitation documents. All other terms and conditions in the solicitation documents remain unchanged and in full force and effect.

SIGNED: ____________________________________________

COMPANY NAME: ________________________________________
REQUEST FOR INFORMATION

August 12, 2015

Project Name: UTA Texas Hall
Project Location: Arlington, TX
To: Viki ewis

From: Eric Horner Company: SECOA

DESCRIPTION OF REQUEST:

1. Please clarify the intent of the safety tie off cable as noted on 2/S3.00 and S1.01. Is it to be a fall arrest system, or simply a cable attached to the columns in which someone could clip a harness leash on to? Are their requirements for loads and deflection?
2. Please clarify if all the conduit on the project is to be painted, including the new conduit about the walking grid? Or is it only below the walking grid.

DESCRIPTION OF SOLUTION:

1. The safety tie off cable is to be a fall arrest system for inspections of the head block. Per Structural Notes, the system and attachment to existing steel columns shall be designed by Contractor to meet Building Code and OSHA standards. The design of the system shall be signed and sealed by a professional engineer licensed in State of Texas. JQ would consider professional engineer license in other states provided they are in good standing and supporting calculations are submitted.
2. All conduits either new or existing should be painted to match adjacent color. This applies only to surface receiving new black paint per the construction documents. The alternate painting locations would also include conduit if the alternate is accepted. The painting only needs to extend 40 feet above the stage.

RESPONSE BY:

Ronald Ishmael, P.E. JQ 8/13/15

Respectfully Submitted,

SECOA, Inc.
Bill of Materials

For

Univ of TX Arlington Texas Hall Rigging

Arlington, TX

August 13, 2015

Quotation # 130040988.0.0

All equipment where applicable standards have been established shall be built to the standards of Underwriters Laboratories Inc., the National Electrical Code, the United States Institute for Theatre Technology and the American National Standards Institute. Approved equipment shall be so labeled on delivery to the job site.

This quotation is based on specification section 116133 for the above project, parts 2.27 and 2.28 only. Loft blocks and pipe battens are to be provided by others. Project drawings TR103, TR302, and TR403 have been used for reference. The hoists contained in this quotation meet the capacity requirement of 3,500lbs.

I. Rigging System to consist of:

A. Prodigy Hoists (Electric #1-5) to consist of:

5 QUOTE-60017 P75-3300GS-7 - Electric #1-5 - to consist of:
   - Prodigy P75-3300G Powerhead (20 fpm average, 75' max travel, power input: 3-phase 208V or 480V)
   - 7 Lift Line Attachment Kits
   - 7 Lift Lines as Required for 52' travel
   - 1 SoftLift soft start/stop MSB

B. Hoist Power and Control Distribution to consist of:

5 8050A2006 PCD-F-15A - Power & Control Distribution Faceplate; (1) Power Outlet, (1) Control Outlet and (1) 208VAC 15Amp Breaker
5 8050A2003 PCD-SBB - Power & Control Distribution - 9' Surface Mount Back Box with Voltage Barrier

C. QuickTouch+ Controller and Control Accessories to consist of:

2 8061A1002 QT+ 8 - QuickTouch+ Control, 8 channel
2 8055A1101 QT-SBB-LG - Large QuickTouch Surface Back box
2 8055K1006 QT-D-LG-EM - QT+ door with e/stop cutout for Merge systems
1 8051K1000 QuickTouch+ Merge control kit
1 QUOTE-60077 QT+ PS - QuickTouch+ Power Supply for Merge systems

I. Remote accessories to consist of:

1 8055A1006 FSRC – Fixed Speed Remote Control - Hand Held w/ 50' lead
II. Alternate 1: Add Shell Hoists to consist of:
   A. Prodigy Hoists (Shell #3) to consist of:

<p>| | |</p>
<table>
<thead>
<tr>
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<th></th>
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<tbody>
<tr>
<td>3</td>
<td>QUOTE-60017 P75-3300GS-7 - Shell #1-3 - to consist of:</td>
</tr>
<tr>
<td></td>
<td>1 - Prodigy P75-3300G Powerhead (20 fpm average, 75' max travel, power input: 3-phase 208V or 480V)</td>
</tr>
<tr>
<td></td>
<td>7 - Lift Line Attachment Kits</td>
</tr>
<tr>
<td></td>
<td>7 - Lift Lines as Required for 52' travel</td>
</tr>
<tr>
<td></td>
<td>1 - SoftLift soft start/stop MSB</td>
</tr>
</tbody>
</table>

   B. Hoist Power and Control Distribution to consist of:

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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>8050A2006 PCD-F-15A - Power &amp; Control Distribution Faceplate; (1) Power Outlet, (1) Control Outlet and (1) 208VAC 15Amp Breaker</td>
</tr>
<tr>
<td>3</td>
<td>8050A2003 PCD-SBB - Power &amp; Control Distribution - 9&quot; Surface Mount Back Box with Voltage Barrier</td>
</tr>
</tbody>
</table>

III. Alternate 2: Add QT+ to consist of:
   A. QuickTouch+ Controller and Control Accessories to consist of:

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>8061A1002 QT+ 8 - QuickTouch+ Control, 8 channel</td>
</tr>
<tr>
<td>1</td>
<td>8055A1101 QT-SBB-LG - Large QuickTouch Surface Back box</td>
</tr>
<tr>
<td>1</td>
<td>8055K1006 QT-D-LG-EM - QT+ door with e/stop cutout for Merge systems</td>
</tr>
<tr>
<td>1</td>
<td>8051K1000 QuickTouch+ Merge control kit</td>
</tr>
<tr>
<td>1</td>
<td>QUOTE-60077 QT+ PS - QuickTouch+ Power Supply for Merge systems</td>
</tr>
</tbody>
</table>

IV. Manufacturer's Services:
   A. One (1) set of B size drawings for approval submitted within 4 - 6 weeks of receipt of order.
   B. Three (3) year limited warranty on parts and workmanship on condition of annual inspection by ETC certified personnel.
   C. Two (2) sets of Operation Manuals (one hard copy; one CD)
   D. Production requires 2 - 6 weeks for shipment of equipment after receipt of written approval and release. Shipment lead times will be advised at time of order.
   E. QuickTouch+ control training is not included with this quotation. Required training is the responsibility of the purchasing dealer. If training from an ETC factory engineer is required, please see Alternate 3 below.
V. Notes and Clarifications:
   A. This quotation excludes all installed cabling, interconnecting cables, and all back boxes unless specifically listed.
   B. Pipe or truss battens not specifically listed are to be provided by others.
C. Multi-conductor cable and all other distribution accessories not specifically listed are to be provided by others.

D. Any adapter plates required to provide a square and level mounting surface for the ETC hoist beam clamps not specifically listed are to be provided by others.

E. Each ETC hoist shall be installed as part of a system that must include the following ETC products: Powerhead and QuickTouch, QuickTouch+, or Foundation control system. All required head blocks, loft blocks, and mule blocks, are to be provided by others.

F. ETC hoist systems must be attached only to structures that have been reviewed by a qualified person and deemed to be capable of supporting the forces/loads imposed by the system. Verification of this review is the responsibility of the installing contractor.

G. ETC hoist installations shall comply with all local, state and national codes as required by the authority having jurisdiction.

H. ETC fixed speed hoists require either 208 volt or 480 volt, 60 Hz, 3 phase power service of appropriate size to be provided by the installing contractor.

I. The integrated power cord for an ETC hoist is 8'-0" long. Extension cords may not be used.

J. The hoist operating station must be positioned within line-of-sight of the batten being controlled or the operator must use a Remote Control to allow for line-of-sight operation.

K. Electronic Theatre Controls does not provide Training DVDs, but will permit video recording of user personnel training.

VI. Alternate 3: Add Controls Training to consist of:

1. QuickTouch+ Training – One day QuickTouch+ training session by an ETC factory engineer – to be supplied on 21 days’ notice.
Prodigy® Low Profile Hoists provide a simple, low cost way to lift heavy loads for storage or for production. Prodigy P75 hoists can be installed in almost any space in any position. The unique external structure allows the Powerhead to be mounted upright (sitting on top of the grid), underhung (suspended below the overhead structure) or vertically (mounted on a side wall or side structure of the stage). P75 hoists may be mixed with other ETC Rigging hoists, counterweight rigging or even combined with dead-hung rigging. This flexibility allows denser placement of linesets so battens can be located as close as 7in (15.25cm) on-center. P75 has heavier lifting capacity, expanded travel distance, and uses 1/4in (6.35mm) wire rope for the lift lines. These hoists are perfect for modernizations and new construction in which the stage structure is built with traditional head and loft block wells and/or a stage side wall that is able to support the forces created by the rigging system.

APPLICATIONS
These hoists resolve access and space challenges for schools, nightclubs, houses of worship or other places where there is no means to access scenery or drapes. Instead, the motorized battens can be lowered to working level and allow workers to easily install and service equipment that is raising performance or storage positions high above the stage floor.

FEATURES
- **Unique Prodigy Hybrid Drum:** Powerhead manages up to eight lift lines with 75 feet (22.8m) of vertical travel
- **Uses 1/4in (6.35mm) wire rope to accommodate 700lbs (317.5kg) working load limit (WLL) per lift line, with a 10:1 safety factor**
- **Smaller size:** Powerhead is only 25in (59cm) high x 100-1/2in (255-3cm) long x 14in (30.5cm) wide
- **Wire rope can exit the Powerhead in both/either direction(s)**
- **Can be installed upright-style, underhung or vertically, using traditional loft block and head blocks**
- **Optional compression tube may be used to neutralize additional lateral forces on the building and allow for the use of Prodigy Cable Management**
- **Fail-safe motor brake and load brake:** two independent braking systems assure safe overhead lifting
- **Hoists can be operated via QuickTouch+® or Foundation® series controllers**
- **All P75 Powerheads include overload protection, load profiling (via built-in load cells) and slack-line detection as standard safety features**
- **Four hard-struck limit switches with LED indicator lights for more efficient installation**
- **Encoder to ensure accurate and consistent movement**
- **Fixed-speed SoftLift™ standard in P75-3300GS**
- **Built to PLASA/ANSI E1.6-1 standards for motorized hoists**
- **Low-noise operation**
- **UL Listed**
STANDARD SAFETY FEATURES

SAFETY FEATURES

- Load cell - standard equipment to provide continuous overload protection
- Load profiling - senses load change variances and stops the hoist if the recorded tolerances are exceeded
- Dual braking system - consisting of a motor brake and redundant load brake
- Four hard-struck limit switches - end of travels and secondary over-travels
- Slack-Line Detection - detection of a slack lift line will prevent further downward travel until the fault is cleared
- Automatic self-tests - safety functions and circuits are automatically checked on power up and at periodic intervals
- Hard-wired E-stop - a dedicated safety circuit with fault tolerance and contactors at each hoist
- Hard-wired dead-man circuit to ensure consistent operation
- Designed to a 10:1 safety factor

HOIST DATA

<table>
<thead>
<tr>
<th>Travel distance</th>
<th>up to 75ft (22.8m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire rope size</td>
<td>1/4in (6.35mm)</td>
</tr>
<tr>
<td>Powerhead weight</td>
<td>1070lbs (485kg)</td>
</tr>
<tr>
<td>Dynamic load</td>
<td>1.2G</td>
</tr>
<tr>
<td>Width</td>
<td>14in (35.5cm)</td>
</tr>
<tr>
<td>Length</td>
<td>100.5in (255.3cm)</td>
</tr>
<tr>
<td>Height</td>
<td>25in (63.5cm)</td>
</tr>
<tr>
<td>Lift lines</td>
<td>up to 8</td>
</tr>
<tr>
<td>Motor operating</td>
<td>40°F to 104°F (4.5°C to 40°C)</td>
</tr>
<tr>
<td>temperature range</td>
<td></td>
</tr>
</tbody>
</table>

HOIST DATA (CONTINUED)

<table>
<thead>
<tr>
<th>P75-3300GS/20B</th>
<th>P75-3300GS/480</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total lifting capacity</td>
<td>3300lbs (1500kg)</td>
</tr>
<tr>
<td>Speed</td>
<td>15 fpm (7.6 cm/s)</td>
</tr>
<tr>
<td>Input voltage</td>
<td>3-phase, 208V 60Hz*</td>
</tr>
<tr>
<td>Motor inrush current</td>
<td>N/A</td>
</tr>
<tr>
<td>Motor operating current</td>
<td>10.5 Amps (208V)</td>
</tr>
</tbody>
</table>

*These models employ a variable frequency drive (VFD) and may accommodate a wider range of input voltage options

LOADING INFORMATION (LIFT LINE PLACEMENT)

<table>
<thead>
<tr>
<th>LOADING &amp; CONFIGURATION GUIDELINES</th>
<th>Min load per line</th>
<th>Max load per line</th>
<th>Loft block locations</th>
<th># of lift lines available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distributed load over the length of the batten</td>
<td>30lbs (13.6kg)</td>
<td>760lbs (317.5kg) at 10.1 safety factor</td>
<td>If used with compression tube: 4ft between loft blocks</td>
<td>12ft-0in max spacing of loft blocks with 1.5in schedule 40 pipe batten</td>
</tr>
</tbody>
</table>
VERTICAL MOUNT WITH HEAD BLOCK CONFIGURATION

UPRIGHT CONFIGURATION

UNDERHUNG CONFIGURATION
**GENERAL INFORMATION**

**APPLICATIONS**
- Rigging control system for fixed- and variable-speed hoists
- Lighting and scenery battens in school theaters
- Auditorium houselight hoists
- Architectural lighting hoists
- Small theatrical hoists

**FEATURES**
- Models control from 4 to 24 hoists
- Control for fixed- and variable-speed hoists
- Accurate speed preset and live control via slider
- 2 user-programmable travel limits per hoist
- 3 user-programmable trims per hoist
- Easy and intuitive to operate
- Illuminated user controls
- Ability to control multiple hoists simultaneously
- Customizable for motor identification
- Status, position and load readout via LCD screen
- Load profiling stops movement of hoist when outside normal load conditions
- Emergency stop (E-Stop) circuit
- Hold-to-run controls with hard-wired dead-man circuit
- Reduction of dynamic building loads by limiting number of motors moving simultaneously
- Display with multiple languages (including English, Spanish, French), and imperial or metric measurements
- Simple and cost-effective installation wiring via a single low-voltage control cable
- Simple configuration via panel or laptop
- Hoist and control-station history stored in log files
- Usage-data log files and service-interval counters
- Automatic self-tests of safety functions and circuits on power-up at and periodic intervals

**ACCESSORIES**
- Wired Remote Control
- Up to 3 Remote Emergency Stop Button Stations
- Locking Door
- Rack-Mount Kit

**ORDERING INFORMATION**

**QuickTouch+ Controller**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>QT+4</td>
<td>QuickTouch+ Variable and Fixed Speed Control Station - 4-Hoist capacity</td>
</tr>
<tr>
<td>QT+8</td>
<td>QuickTouch+ Variable and Fixed Speed Control Station - 8-Hoist capacity</td>
</tr>
<tr>
<td>QT+12</td>
<td>QuickTouch+ Variable and Fixed Speed Control Station - 12-Hoist capacity</td>
</tr>
<tr>
<td>QT+24</td>
<td>QuickTouch+ Variable and Fixed Speed Control Station - 24-Hoist capacity</td>
</tr>
<tr>
<td>QT-FBB-LG</td>
<td>Flush backlash for QuickTouch+ 4 - 24</td>
</tr>
<tr>
<td>QT-SBB-LG</td>
<td>Surface backlash for QuickTouch+ 4 - 24</td>
</tr>
</tbody>
</table>

**QuickTouch+ Controller Accessories**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSRC</td>
<td>Fixed-Speed Remote Control, wired</td>
</tr>
<tr>
<td>ESBS</td>
<td>Emergency-Stop Button Station</td>
</tr>
<tr>
<td>ESBS-BB</td>
<td>Emergency-Stop Button Station backlash, surface mount</td>
</tr>
<tr>
<td>QT-D-LG</td>
<td>Door for QuickTouch+ 4 - 24</td>
</tr>
<tr>
<td>QT-RMK-LG</td>
<td>Rack mount kit for QuickTouch+</td>
</tr>
<tr>
<td>QT-PSU</td>
<td>QuickTouch+ Power Supply*</td>
</tr>
</tbody>
</table>

*QuickTouch+ Power Supply only required for systems with only variable speed hosts installed
SPECIFICATIONS

GENERAL
- Models with up to 24 hoists
- Control multiple hoists simultaneously

MECHANICAL
- Rugged industrial steel, fully enclosed, black powder-coated enclosure and backbox
- Flush-mount version fits in 2" x 4" stud wall

ELECTRICAL
- All I/O on terminals or connectors
- Input/Output (I/O):
  - One hard wired dead man circuit
  - One Emergency Stop (E-Stop) circuit
  - 24V DC low-voltage operation (supplied from hoist)
  - One MCX-Bus Universe
  - One External E-Stop Station(s) connector
  - One USB connector

ELECTRONICS
- One Data and Encoder dial for UI navigation
- One Speed-control slider
- Illuminated 2.8" full graphical display
- Industrial-grade illuminated Up / Down and Emergency-Stop buttons
- Maintained Keyswitch for system enable (Power)
- Maintained Keyswitch for load-profile learning and enable/disable
- Remote Control connector
- Two display-navigation buttons
- 4-, 8-, 12- or 24-motor select buttons with illuminated color-coded status fields depending on model

THERMAL
- Ambient temperature: 32 to 104°F (0 to 40°C)
- Relative humidity: 30 to 90% non-condensing
Power cord from Powerhead to PCD - 8'0"
Data cord from Powerhead to PCD - 8'0"
Remote control device cord - 30'0"

QuickTouch+ Power Supply required for systems with only variable-speed hoists.