

**ADDENDUM
NO. 2**

June 28, 2022

Cadillac High School Theatrical Lighting & Rigging

**Cadillac High School
400 Linden Street
Cadillac, MI, 49601**

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated December 9, 2021, by TowerPinkster. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 2-1, dated June 28, 2022, and new Specification Section Stage Curtains for Alternate Pricing.

A. SPECIFICATION SECTION 00 20 00 - INFORMATION AVAILABLE TO BIDDERS

1. Issued new section **STAGE CURTAINS FOR ALTERNATE PRICING.**

End of Addendum

STAGE CURTAINS and HARDWARE SPECIFICATIONS

CADILLAC HIGH SCHOOL CADILLAC, MI

SCOPE:

- A. **Intent:** This Specification covers the fabrication, furnishing, delivery and installation of all Stage Equipment and Associated Hardware. All equipment used in performance in this contract shall be of the best known to the industry and shall be manufactured by a long established, thoroughly experienced responsible Stage Equipment Manufacturer with their own Installation Department and Curtain Manufacturing Facility. The form of contract, general conditions and the Project Drawings are considered to be part of these Specifications.
- B. **Complete System:** The Stage Equipment Contractor shall provide all items necessary for a complete, safe, fully, functional system as described herein, including all tool, scaffolding, labor and supervision, even though they may not be specifically enumerated. Any error, omissions or ambiguities do not relieve the Contractor of this responsibility but shall be brought to the attention of the Owner for clarification. All additional support steel or spanner steel found necessary for this installation shall be supplied and installed by the Stage Equipment Contractor. All welding completed on site shall be performed by certified welders.
- C. **Work Included:** The work of this section shall include, but not necessarily be limited to the following:
 - 1. Stage Curtains and Theatrical Rigging

GENERAL REQUIREMENTS

- A. **Field Conditions:** All Bidders shall fully inform themselves of the conditions under which work is to be performed. All Curtains and Equipment sizes listed within shall be field verified prior to submission of Bid. No additional compensation shall be allowed for any labor or item the bidder could have been fully informed of prior to the bid date. State Equipment Contractor.
- B. **Safety:** The Systems shall conform to all applicable code requirements and shall be in conformance with industry standards of operation and practices. All material, arrangement and procedures shall comply with applicable code requirements, allowing the users to arrange and operate a safe assembly and working environment for audience and user personnel. If at any time in the past Stage Equipment Contractor has substituted specified products without prior written approval or has failed to complete a project to the Owners, Architects or Theatre Consultants satisfaction, they shall be ineligible to bid on this Project.

- C. **Insurance:** In the absence of more stringent requirements, the Stage Equipment Contractor shall maintain, injury and property liability insurance coverage throughout the project's scheduled timetable, including workmen's compensation coverage for Contractors employees.

COMPENTENCY of BIDDER

- A. This work requires total adherence to all bid specifications and procedures. Variation from this Specification shall be indicated by the submission of detailed and complete specifications showing exactly what substitution the Bidder proposed to make. Any intent to substitute shall be clearly called to the attention of the Owner before the proposed substitute is accepted by the Owner all parties know to be bidding this Project shall be notified through Addendum. Substitution not specifically noted before time of bidding will not be accepted.
- B. **Requirements:** To ensure the highest quality of Manufacturing and Installation, the Contractor must have been engaged in the Fabrication and Installation of equipment of the type indicated herein for not less than ten (10) years. The Stage Equipment Contractor shall be an approved manufacturer of: Stage and Theatrical Rigging Hardware and show a satisfactory record of successful in-service performance. Stage Equipment Contractor must maintain and operate their own sewing production shop located within their place of business and must have sufficient production capacity to product required units without causing delay. Fabrication of Stage and Theatre, Curtains and Drops shall consist of no less than 90% of the Contractors Sewing Shop output. Stage Equipment Contractor shall have their own-in-house full-time installation crews complete with their own production tool shop and warehouse located within their place of business. All equipment and installation of the work in this section shall be the responsibility of the single contractor.

There shall be no subletting of Curtain manufacturing of installation work. A qualified and experienced Supervisor of Rigging Contractor which is employed by the Contractor on a full-time basis must be at the site during the entire installation period and shall actively Direct and Supervise the work.

- ✓ ***A Notarized Affidavit stating the above to be true must be included with Bid.***
- C. All Bidders are required to make a full inspection of the Auditorium Facility so that they are fully aware of all special conditions and product requirements.
- D. The Stage Equipment Contractor shall install all items in accordance with the: 1) Curtain fabricators written instructions, 2) The Curtain Track and Hardware manufacturers written instructions and 3) The Rigging Equipment manufacturers written instructions.
- E. All Rigging Equipment used on this Project shall meet ANSI/ESTA Standard E1.4 – 2014

PRE-APPROVED CONTRACTORS

- A. Due to highly specialized nature of Theatrical Equipment and the safety requirements of this Equipment, all Equipment must be provided and installed by one of the following pre-approved companies:
1. Tiffen Scenic Studios – Tiffen, OH – 419-447-1546
 2. North Coast Studios, Inc. – Roseville, MI – 586-359-6630
 3. Wenger/J.R. Clancy – Syracuse, NY – 315-415-3440
 4. WACO State Equipment – Brighton, MI – 810-229-6834
 5. Beck Studios – Milford, OH – 513831-6650
- B. Requirements for Approval: Other Contractors seeking acceptance must submit the following information at least two (2) weeks prior to Bid Opening Date. Approval of Contractors will be by addenda. Failure to submit any of the required information will automatically disqualify the Contractors from consideration or approval.
1. Listing of five (5) equal or greater in scope Installation completed within the past two (2) Years.
 2. Name, Address and Telephone of Architect, Owner and Construction Manager/General Contractor complete with Scope of Work involved.
 3. A brief written description of the Contractors Operation including: Size and Address of Facilities, Office Space, Sewing Shop Space, Tool Shop Space, Financial Capabilities and experience of Key Personnel.
 4. A statement from Bonding Company agreeing to provide the required Bonds in the amount of the required for the Project.
 5. An Affidavit stating that at no time has the Stage Equipment Contractor substituted any specified products without the Architects or Owners prior written approval.
 6. An Affidavit stating that at no time has the Stage Equipment Contractor failed to complete a Project to the Owners, Architects or Theatre Consultants satisfaction.

SUBMISSIONS

- A. **Drawings:** Submit component and installation drawings and schedules showing all information necessary to fully explain the design features, appearance, function, fabrication, and use of system components in all phases of Operation. They shall be approved by the Owner before beginning any Fabrication, Installation or Erection. Such approval does not relieve the Rigging Contractor of the responsibility of providing Equipment in accordance with the Specifications.
- B. **Catalog Cuts:** In lieu of Drawings, the Contractor may submit Catalog Cuts for standard equipment items. These must contain full information on dimension, construction, applications, etc. to permit proper evaluation. In addition, they must be properly identified as to their intended use. Any options or variations must be clearly noted.

- C. **Schedule:** Prior to the commencement of the Installation Work, the Rigging Contractor shall submit an outline of the proposed schedule and requirement for approval.
- D. **Instructions:** Upon completion of the work, the Rigging Contractor shall submit three (3) copies of a detailed Operating and maintenance Manual including As-Built Shop Drawings, Equipment Descriptions, and Parts List. The Rigging Contractor shall go through the Manual with Personnel designated by the Owner to demonstrate and explain the Maintenance and Operations of the System.

WARRANTY

- A. The Rigging Contractor shall provide a two (2) year written guarantee against defects in material or workmanship starting from the date of acceptance of equipment by the Owner's representative. The Guarantee shall not cover damage due to normal wear and tear, acts of God, neglect, or improper use of equipment

Any required Maintenance or Replacement shall be provided by the Rigging Contractor within thirty days of notification by the Owner except for Safety Related Items, which shall be corrected within 48 hours of notification. Subsequent to the expiration of the guarantee period the Rigging Contractor agrees to furnish Repair and maintenance Service at the Owner's expense, within thirty days of request for such service.

MANUFACTURER

- A. Rigging Manufacturers:
 - J.R. Clancy, 7041 Interstate Island Road, Syracuse, NY 13209
 - H & H Specialties, PO Box 9327. South El Monte, CA 91733
- B. Fabric Sources:
 - KM Mills, Greenville, SC
 - Rose Brand Fabrics, New York, NY
 - Fred Krieger Fabrics, Jericho, NY
 - Milliken Company, New York, NY
- C. Tracks and Equipment:
 - Automatic Devices Company, Allentown, PA
 - J.R. Clancy, Inc. Syracuse, NY
 - H & H Specialties, South El Monte, CA
- D. Products of any other manufacturers will be considered for acceptance provided they are equal of exceed requirement and functional qualities of the specified Project. Requests for Owner's approval with complete supporting technical data for evaluation must be received at least ten (10) days prior to bid due date. Additional approved Manufacturers will be issued an Addendum

CURTAIN SCHEDULE

Front Setting Curtains:

- ❖ One (1) Valance, one (1) section – 3'2" x 50'0"
- ❖ One (1) Main Traveler, two (2) sections – 14'6" x 60'0"

Intermediate Setting Curtains:

- ❖ Three (3) Pairs of Legs, six (6) total one (1) section each – 14'9" x 19'6"
- ❖ Two (2) Masking Border, one (1) section – 4'0" x 47'0"
- ❖ One (1) Mid Stage Traveler, two (2) sections – 14'10" x 60'0"
- ❖ One (1) Rear Traveler, two (2) sections – 14'10" x 60'0"

FABRIC SCHEDULE

Face Fabric:

- ❖ 54" 25oz. IFR Charisma, color – T.B.D.

Intermediate Setting Curtains:

- ❖ 20oz. IFR Crescent, color Black.

CURTAIN'S – MANUFACTURING

FRONT SETTING CURTAINS

The above Curtains shall be box pleated with approximately 60% fullness on a heavy 3 ½" BMF jute webbing with four (4) rows of reinforced stitching equally spaced from top edge of webbing to bottom edge of webbing and provided with Grommets and "S" hooks or 36" long #4 Tie Line, color Black centered on each pleat and two (2) 3½" apart on all leading and side edges. All four (4) sided edges of the Grand Traveler shall have not less than 12" of face fabric turned back. All side edges of the Grand Valance/Grand Border

shall have no less than 3" of the face fabric turned back. All bottom hems shall be a full 5". When specifically called out a heavy weight #8 zinc plated jack chain encased in a separate canvas pocket. This chain weight shall be inserted so that it rides approximately 2" up from the bottom hem of the Curtain and shall be hand tacked into each seam to prevent bunching as found necessary. Heavy Chain Weight shall be installed to any Curtain that may fly. All salvages shall be snipped on approximately 18" centers prior to fabricating and all pleats shall be arranged to conceal vertical seams. 24/4 thread in a color to match fabric shall be used throughout and all sewing shall be completed with a heavy duty industrial straight stitch, power operated machine. Blind stitching of any portion is unacceptable. When Lining is specified, Lining shall finish 2"

above bottom hem of face fabric. Heavy Chain Weight or Heavy Tape Weight shall be included in bottom hem. Sewn to the top off-Stage Webbing of each panel shall be a Curtain Identification Tag Showing: Manufacturers Name, Address and Phone Number. Curtain Tag shall also clearly indicate number of widths used, finish size width, center turn back size, off stage turn back size, bottom hem size, how bottom hem is weighted, and if Curtain is left or right side. Sewn to the Off-Stage Side of each Curtain Panel shall be a Flame-Retardant Tag. This Flame- Retardant Tag shall be sewn to the back side of the bottom hem with no stitching visible from the front of the Curtain. This tag shall identify: Curtain Manufacturer, Address and Telephone Number and whether the Curtain Fabric is FR or IFT. Tag shall indicate date of manufacturing. An additional Flame Proof Tag shall also be sewn to the bottom hem of lining material. Sewn to the backside lower edge of webbing at the offstage edge of each Curtain Panel shall be a 12" x 12" loose piece of fabric from the same dye lot for future flame test purposes of each fabric used within construction.

All Valances/Grand Border shall have a White Twill Tape sewn vertically down, webbing to indicate center line of Curtain.

INTERMEDIATE SETTING CURTAINS

The above Curtains shall be box pleated with approximately 60% fullness on a heavy 3 ½" BMF jute webbing with four (4) rows of reinforced stitching equally spaced from top edge of webbing to bottom edge of webbing and provided with Grommets and "S" hooks or 36" long #4 Tie Line, color Black centered on each pleat and two (2) 3½" apart on all leading and side edges. Rear Traveler Curtains shall have not less than (12", 6" or 3") of face fabric turned back. All side edges of the Wing Curtains shall have no less than 3" for the face fabric turned back. All side edges to the Masking Borders shall have no less than 3" of the face fabric turned back. All bottom hems shall be a full 5" and all Curtains shall be a heavy weight #8 zinc plated jack chain encased in a separate canvas pocket. This chain weight shall be inserted so that it rides approximately 2" up from the bottom hem of the Curtain and shall be hand tacked into each seam to prevent bunching as found necessary. Heavy Chain Weight shall be installed to any Curtain that may fly. All salvages shall be snipped on approximately 18" centers prior to fabricating and all pleats shall be arranged to conceal vertical seams. 24/4 thread in a color to match fabric shall be used throughout and all sewing shall be completed with a heavy duty industrial straight stitch, power operated machine. Blind stitching of any portion is unacceptable. Sewn to the top off-Stage Webbing of each panel shall be a Curtain Identification Tag Showing: Manufacturers Name, Address and Phone Number. Curtain Tag shall also clearly indicate number of widths used, finish size width, center turn back size, off stage turn back size, bottom hem size, how bottom hem is weighted, and if Curtain is left or right side. Sewn to the Off-Stage Side of each Curtain Panel shall be a Flame-Retardant Tag. This Flame- Retardant Tag shall be sewn to the back side of the bottom hem with no stitching visible from the front of the Curtain. This tag shall identify: Curtain Manufacturer, Address and Telephone Number and whether the Curtain Fabric is FR or IFR. Tag shall

indicate date of manufacturing. An additional Flame Proof Tag shall also be sewn to the bottom hem of lining material. Sewn to the backside lower edge of webbing at the offstage edge of each Curtain Panel shall be a 12" x 12" loose piece of fabric from the same dye lot for future flame test purposes of each fabric used within construction. All Valances/Grand Border shall have a White Twill Tape sewn vertically down, webbing to indicate center line of Curtain.

TYPICAL HARDWARE WORK to be INCLUDED:

- ❖ Any existing Track Assembly that has twisted or damaged sections of Track Channel shall be removed and replaced. All live end pulleys, dead end pulleys, floor block pulleys, master carrier and single carriers shall be removed, as necessary and all components shall be re-lubricated to perform freely as designed. All connections shall be re-tightened to ensure stability and safety. All master carriers shall be re-centered. All dead ends shall be re-adjusted for proper Curtain coverage and all operating lines/cables shall be replaced. All pip battens shall be re-centered, and all pipe battens and track assemblies shall be re-leveled.
- ❖ All Walk Draw Track Assemblies shall have Tow Lines installed to the leading edges. Tow Lines shall be connected to the 2nd carrier in from the Leading Edge. Two Lines shall be in min. 3/8" diameter, positioned on the back side of the Curtains and finish 3'0" A.F.F.. All Curtains shall be permanently overlap approximately 12" at the top of the Track. Butt Style Curtains are not acceptable.
- ❖ Stage Hardwar Suspension Chains. All new suspension points shall consist of new steel formed and adjustable width beam clamps, as necessary; zinc plated safety suspension chain and zinc plated or galvanized chain connectors and anchor shackles. All products shall be sized accordingly to safely carry applied loads, friction of system and common or uncommon usage of equipment.
- ❖ Suspension points shall not exceed the following:
 - ❖ Traveler Track Assemblies, maximum 7'0" centers.
 - ❖ Walk-draw Tracks, maximum 5'0" centers.
 - ❖ Pipe Battens, maximum 10'0" centers.
- ❖ The Bottom end of all suspension chains shall have a minimum of 1' extra length for future adjustment. Free end of chain shall be securely connected to the standing end with a connector that can easily be opened for future adjustment.
- ❖ All threaded fasteners shall be SAE Grade 5 or greater.
- ❖ All new Center Bi-Part Track Assemblies shall have a min. 3'0" overlap.
- ❖ All Turn Buckles shall be forged, properly sized for the load and equipped with Jam Nuts or Through Wired.

HARDWARE

1. Relace 3/8" Turnbuckle on Set #7 Guide Wire with new 3/8" Jaw and jaw Turnbuckle.

2. Replace nine (9) Floor Block Rope Lock Combos with Wenger/Clancy Floor Block, adjustable combo with Rope Lock 12" DIA ¾" Rope.
3. 360' +/- Wenger Clancy ¾" Stage-Set Purchase Line.
4. Six (6) new Wenger/Clancy 5' Single Purchase Arbors, three (3) new Wenger/Clancy 6' Single Purchase Arbors.
5. All new ¼" Grade 30 Proof Coil Batten Trim Chains 36"
6. Replace all Pipes with 1½" SCH 40 Pipe Battens.
7. Replace Main Traveler Track with new #140 ADC Track, CWANA, Chord Operated
8. Replace all Turn Buckles on Dead Hung Chains with Screw Pin Anchor Shackle or Heavy-Duty S-Hook.
9. Additional Dead Hung Chains/Cable maybe needed to reach proper spacing on Tracks and Pipes.

FLAMEPROOFING

All fabrics to be flame retardant by the emersion method or inherently flame retardant.

All Fabrics shall be flame retardant to pass all City and State Fire Codes and comply with NFPA-701.

Certification of Flameproofing must be permanently stitched into the Curtain Hem.

Contractor to supply to Owner a Notarized Affidavit signed by the manufacturer of Stage Curtains certifying that products furnished comply with the above requirements.

INSTALLATION

A. Coordination:

1. Take all measurements required at the job site and verify the location of all items to which attachment must be made, or which may cause any restriction in the total operation of the rigging.
2. Provide connection members needed for proper installation and securing to masonry, joists, wall, structural members or other parts of the construction as may be best suited.

B. Relocation:

1. Owner reserves the right to notify this Contractor of any desired change in spacing without causing a change in bid price.
2. Such notification must be made before the installation of any piece of equipment for that set has begun.
3. This Contractor, while carefully following the detailed schedule of sets, may make such minor adjustments as deemed necessary to clear possible obstacles.

4. Notification must be made to the Owner's representative on the job.
5. Relocation of a major nature must be proposed in writing to the Owner.

CLEAN UP

- A. The Contractor shall be responsible for cleanup, including removal of packing material, etc. and the protection of surfaces or equipment provided by other Contractors. All existing Curtain and hardware shall be removed from site and properly disposed of.

INSPECTION and TESTING

- A. Inspection: During the installation of equipment the Rigging Contractor shall arrange for access as necessary for inspection of equipment by the Owner's representatives.
- B. Completion Testing: Upon completing the installation of all equipment specified under this section, the Contractor shall notify the Architect, who will schedule and inspection. At the time of inspection, the Rigging Contractor shall furnish sufficient workers to operate all equipment and to perform such adjustments and test as may be required by the Owner's representative. Any equipment which fails to meet with approval shall be repaired or replaced with suitable equipment and the inspection shall be re-scheduled under the same conditions as previously specified. At the time of these inspections, no other work shall be performed in the Auditorium and Stage Areas. All temporary bracing, scaffolding, etc. shall be withheld until all systems have been thoroughly tested and found to be in first class operating condition in every particular.
- C. Instructional Period: After final approval of work is completed the Contractor shall schedule an instructional day with Owner's staff to demonstrate proper working procedures and maintenance of all equipment. Contractor to have necessary lifts on site and full Stage Rigging Crew for this presentation. One (1) full eight (8) hour day shall be set aside for this presentation.

END of SPECIFICATION