

S P E C I F I C A T I O N S



***Oxford - USD 358***

***Oxford JR/Senior High School***  
***AUDITORIUM STAGE CURTAINS***

**2020**



HANNEY & ASSOCIATES ARCHITECTS

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## **INDEX**

### **STAGE CURTAINS**

#### **USD 358 – OXFORD OXFORD HIGH SCHOOL**

Section 00100 .....	Invitation to & Instructions to Bidders .....	4 .....	pages
Section 00150 .....	Stage Curtains Proposal.....	2.....	pages
Section 00300 .....	Special Conditions .....	3.....	pages
Section 11062 .....	Stage Curtains.....	4.....	pages

**SECTION 00100**

**INVITATION TO BID & INSTRUCTIONS TO BIDDERS**

**Stage Curtains – Jr./Sr High School 2020**

Unified School District #358  
Oxford, Kansas

Drawings and Specifications: January 2020

**1. SCOPE OF PROJECT:**

The Specifications and the accompanying drawings are intended to provide for all materials and labor necessary for cleaning, tuckpoint, caulking expansion joints and material transitions and sealing the existing masonry on North, East and West exterior walls. The project is named **Stage Curtains at Oxford Jr/Sr High School, USD #358, Oxford, Kansas.**

**2. CONTRACT DOCUMENTS:**

- 2.1 The General Contractor may obtain drawings and specifications **online** from the office of the Architects; [www.haarchitects.com](http://www.haarchitects.com), via the information on current HA Bid Packages Link.

Architect contact is as follows: **HANNEY & ASSOCIATES ARCHITECTS**, 1726 South Hillside, Wichita, Kansas 67211. Project Architect is Martin Hanney. The phone number is (316) 683-8965.

- 2.2 Contract Documents are on file and may be viewed at the office of the Architect, and;  
A. Kansas Construction News, 230 Laura, Wichita, Kansas.

**3. PROPOSAL PROCEDURE:**

- 3.1 Bid Date:  
A. Sealed proposal for this project will be received by the Owners, The Board of Education, Oxford Unified School District 358, Oxford, Kansas at the Central Office, 515 North Water, Oxford, Kansas 67119. On **January 31, 2020 , up to and until 1:30 P.M.**  
B. At which time proposals received will be opened and read publicly. Any proposals received after closing time will be returned unopened.
- 3.2 Should a proposer find discrepancies in, or omissions from the drawings or documents, or should he be in doubt as to their meaning, he shall at once notify the Architect, who will send written instructions to all proposers. Neither Owner nor Architect will be responsible for any oral instructions.

- 3.3 Proposals shall be made upon the PROPOSAL FORM or exact copy thereof bound into the specifications.

Fill in all blanks on the PROPOSAL FORM clearly with ink. Erasures or other changes in a proposal must be explained or noted over the signature of the proposer. Signatures shall be in longhand by a principal duly authorized to sign contracts, and if proposal is by a corporation, the signature shall be accompanied by the corporate seal impression. Proposals shall contain neither alterations nor recapitulation of work to be done.

- 3.4 Should the Contractor fail to complete all of the work required by the Contract Documents on or before the date set for substantial for substantial completion, the Contractor shall pay as liquidated damages, the sum of \$200.00 per day for each consecutive calendar day the work extends past that date, Sundays and legal holidays excluded.
- 3.5 Each proposer is required to bid all alternates included in the Proposal Form except that should he desire not to bid an alternate he may insert the words "no bid" in the space provided for prices for such alternate. In such case, if it is determined to use such alternate, the fact that the cost of the type or method bid in the proposal may be lower than that chosen shall not constitute the basis of a claim by the proposer that the contract shall be awarded to him. If an alternate price called for involves no change in price, proposer shall so indicate by writing the words "no change" in the space provided.
- 3.6 No oral or telephonic proposals or modifications will be considered. No telephonic proposals will be considered, but modification by telephone of proposals already submitted will be considered if received prior to time set for proposal opening.
- 3.7 Before submitting his proposal, each proposer shall carefully examine all documents pertaining to the work, visit the site of work, and fully inform himself as to all existing conditions under which the work will be performed. Submission of a proposal will be considered presumptive evidence that the proposer is fully aware of the Contract Documents, pertinent state and markets, and has made allowances in his proposal for all work and all contingencies.
- 3.8 Any addenda issued during the time of preparation of proposals are to be acknowledged in the Proposal Form and in closing a contract, they will become a part thereof.
- 3.9 Enclose the proposal along with the required Proposal Security, in an opaque envelope:  
Proposal For:

**Stage Curtains**

**Oxford Unified School District #358**

**515 N. Water, Oxford, Kansas 67119**

**Name of Bidder.**

#### **4. PROPOSAL SECURITY:**

- 4.1 Proposal Security, consisting of a bid bond, certified check or cashier's check on a solvent bank, must be enclosed with each proposal for at least five percent (5%) of the Base Proposal.

- 4.2 Proposal Security shall be made payable, without condition to **Oxford Unified School District #358**, Oxford, Kansas as a guarantee that the bidder, if awarded the contract, will promptly execute the formal contract in accordance with the proposal and as required by the other Contract Documents, and that he will furnish good and sufficient bonds for the faithful performance in each category of work will be retained until the contract is awarded or other disposition is made thereof. Proposal Security of all bidders will be returned promptly after the canvass of proposals.

**5. PROPOSAL WITHDRAWAL:**

A Proposal may be withdrawn on written or telegraphic request received from proposer prior to time for proposal opening. No proposal may be altered or withdrawn for a period of at least sixty (60) days after opening of proposals.

**6. SUBSTITUTIONS:**

- 6.1 The materials, products and equipment described in the bidding documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution.
- 6.2 No substitution will be considered unless written request for approval has been submitted by the bidder and has been received by the architect at least ten (10) days prior to the date for receipt of bids. Each such request shall include the name of the material or equipment for which it is to be substituted and a completed description of the proposed substitute including drawings, cuts, performance and test data and any other information necessary for an evaluation. A statement setting forth any changed in other materials, equipment or work which incorporation of the substitute would require shall be included. The burden of proof of the merit of the proposed substitute is upon the proposer. The Architect's decision of approval disapproval of a proposed substitute shall be final.
- 6.3 If the Architect approves any proposed substitute, such approval will be set forth in an addendum. Bidders shall not rely upon approvals made in any other manner.

**7. AWARD OF CONTRACT:**

Contract will be awarded as soon as possible to the responsible proposer submitting the lowest acceptable proposal (i.e. combination of Base Proposal and accepted alternates, with due consideration to unit prices), provided:

- 7.1 Evidence of the experience, qualifications and financial responsibility of the bidder and his subcontractors, and the time of completion are all-acceptable to the Owner.
- 7.2 Manufacturer's Guarantee, Service Warranty and financial responsibility of manufacturer.
- 7.3 The total of acceptable proposals is within the financial budget for the project.
- 7.4 The Owner reserves the right to reject any or all proposals, to accept or reject alternate proposals and unit prices, and to waive all technicalities concerning the proposals received when it may be in his best interest to do so.

**End of Section 00100**

**SECTION 00156**

**GENERAL PROPOSAL**

**FOR**

**STAGE CURTAINS**

**OXFORD HIGH SCHOOL**

Oxford High School  
Unified School District 358

Date: \_\_\_\_\_

On this project the Masonry Contractor will be considered the General Contractor.

The undersigned, in compliance with your invitation for bids for the **Stage Curtains**, having examined the site of the work, and being familiar with all the conditions surrounding the work, hereby propose to furnish all labor, materials and supplies and do all work necessary for the project in accordance with the contract documents at the price stated below. These prices are to cover all expenses incurred in performing the required work under the Contract Documents, of which this Proposal is a part.

**BASE PROPOSAL – STAGE CURTAINS:**

For all the work described in the specifications and shown on the plans for providing and installing new Stage Curtains at Oxford High School; I or (we) agree to perform all the work and furnish all materials complete for the sum of:

\_\_\_\_\_  
Dollars (\$)\_\_\_\_\_.

**TIME OF COMPLETION:**

The undersigned agrees, if awarded the Contract; to Complete all work by \_\_\_\_\_

The undersigned further agrees that, from the compensation otherwise to be paid; the Owner may retain the sum of Two Hundred Dollars (\$200.00) for each consecutive calendar day thereafter, Sundays and Holidays excluded, that the Contract remains incomplete, which sum is agreed upon as the proper measure of liquidated damages which the Owner will sustain per diem by the failure of the undersigned to complete the work at the time stipulated. This amount is not to be construed as in any sense of penalty.

**OXFORD Jr/Sr HIGH SCHOOL 2020**

***Stage Curtains***

***Unified School District #358***

**DECLARATION:**

The undersigned declares that he has carefully examined and understands all Bid Documents, including Invitation to Bid, instructions to Bidders, Drawings, Specifications, and Addenda, that he has visited the location of the work and familiarized himself with all conditions under which the work is to be performed, including all pertinent codes and the conditions of labor and material markets, that he has checked quantities and prices, that he has made allowance in his bid for all work and all contingencies, and understands that in signing this bid he waives all right to plead any misunderstanding regarding the same.

The undersigned acknowledges receipt of the following Addenda to the Drawings and/or Specifications.

(Give number and date of each.)

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\_\_\_\_\_  
Respectfully Submitted,

\_\_\_\_\_  
(legal name of bidder)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Address of bidder)

\_\_\_\_\_  
(Signed by authorized officer)

\_\_\_\_\_  
Seal (If bid is by a corporation)

**End of Section 00150**

**SECTION 00300**

**SPECIAL CONDITIONS**

**1. A.I.A. GENERAL CONDITIONS:**

A.I.A. Document A201 "General Conditions of the Contract for Construction", 1997 Edition, hereinafter referred to as the "A.I.A. General Conditions", is hereby made a part of this Specification, as if hereto attached or herein repeated. Contractor shall consult this document and become intimately familiar with its contents before submitting his proposal. Copies are available for purchase from the American Institute of Architects, 1735 New York Avenue, N.W., Washington D.C. and from local A.I.A. offices.

**2. WORK INCLUDED:**

These Specifications and the accompanying Drawings are intended to provide for all materials and labor necessary for the installation of the Stage Curtain at **Oxford Jr/Sr High School Auditorium, for Oxford Unified School District 358, Oxford, Kansas.**

**3. INTERPRETATION OF DOCUMENTS:**

If any person contemplating submitting a bid for the proposed Contract is in doubt to the meaning of any part of the Plans, Specifications, or other proposed Contract Documents, he may submit to the Architect a written request for an interpretation thereof, prior to 48 hours of the hour of opening bids. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the proposed documents will be made only by Addendum duly issued and a copy of such Addendum will be mailed, faxed or delivered to each person receiving a set of such documents.

**4. VERIFICATION OF DOCUMENTS:**

Before submitting his proposal, each bidder shall check his set of Specifications and Drawings and advise the Architect if any sheets are missing.

4.1.1 Enumeration of Specifications appears in the Specifications Index.

4.1.2 Enumeration of Drawings appears on Sheet Number One (1) of the Plans.

**5. CONTRACT DOCUMENTS:**

The Contract Documents consist of: The Agreement, the conditions of the Contract (General Conditions, Revisions in General Conditions and Supplementary General Conditions), the Drawings, the Specifications, all Addenda issued prior to the execution of the Agreement, and Change Orders thereafter.

**6. PROPOSALS:**

Bidders are required to use the Proposal Form furnished by the Architect, which shall be made part of the Contract Documents. Each proposal must be accompanied by a certified check, cashiers check, or bid bond acceptable to the Owner, in the amount of five (5) percent of the base bid, payable to the Owner, without condition, as a guarantee that the bidder if awarded the contract will promptly execute such Contract in accordance with proposal and in the manner and form required by the Contract

Documents, and will furnish good and sufficient bond for the faithful performance of same. The bid security of the three lowest bidders will be retained until the Contract is awarded or other disposition is made thereof. The bid security of all bidders except the three lowest will be returned promptly after the canvass of bids.

**7. EXAMINATION OF PREMISES:**

This Contractor shall carefully examine the premises before submitting his bid. No allowance will be made for lack of full knowledge of all conditions, except underground conditions as are indeterminable before the commencement of the work.



***Separate Contract for Stage Curtains 2020***  
***Oxford High School– U.S.D. 358***

**8. CHANGES:**

8.1 It is understood that the Owner shall have the right during the progress of construction to make any alterations, additions, or omissions that he may desire to work, or material herein specified or shown on the Drawings. The same shall be carried into effect by this Contractor without in any way violating the Contract, but if such changes are made, the value of same must be agreed upon in writing between Owner, Architect, and Contractor.

8.2 No omissions will be allowed, or extra work paid for unless ordered in writing by the Architect.

**9. SPECIAL WORK NOT INCLUDED:**

The Owner reserves the right to have special work, not included in the Contract, done during the course of the work herein included.

**10. PERMITS:**

This Contractor shall obtain and pay for all permits, surveys, plan review fee's and inspector's fees required for this project without additional cost to the Owner. **(Sumner County and City of Oxford)**

**11. RESPONSIBILITY FOR ACCIDENTS:**

This Contractor must bear all loss of damage from accident which may occur to any person or persons, by or on account of the execution of this work, until possession is taken by the Owner. The General Contractor must provide all legal and necessary guard railing, lights, warning signs, etc., during the progress of the work.

**12. INSURANCE:**

13.1 This Contractor shall purchase and maintain coverages required by the General Conditions of the Contract, Paragraph 11.1 and these Specifications in the following minimum amounts, and provide the Owner, through the Architect, three copies of a Certificate of Insurance on A.I.A. form G705.

KIND OF INSURANCE	LIMITS OF LIABILITY
12.1.1 (1) Workmen's Compensation	Statutory Workmen's Comp.
(2) Employer's Liability	
Bodily injury by Accident	\$100,000.00 each occurrence
Bodily Injury by Disease	\$500,000.00 each employee
Bodily Injury by Disease	\$500,000.00 policy limit

**13. DIMENSIONS:**

Figures given on the Drawings govern scale measurements and larger scale drawings govern smaller scale drawings.

**14. MATERIALS AND WORKMANSHIP:**

All materials and workmanship are to be the best of their several kinds, unless specified to the contrary. This Contractor is to furnish all accessories needed, such as scaffolding, forms, protection and all other temporary work, required for the proper completion of their work.

**15. DEFECTIVE OR IMPROPER WORK:**

Any work or materials not conforming to the specifications must be removed by this Contractor and replaced by approved materials or work without extra compensation. All condemned material must be removed from the premises immediately.

***Separate Contract for Stage Curtains 2020***  
***Oxford High School– U.S.D. 358***

16. **PROTECTION:**  
All materials in or designed for the work shall be at all times suitably housed or protected, particular care being taken of all finished parts.
17. **DISRUPTION OF SERVICES:**  
Before digging or trenching commences, each Contractor shall verify with Public Service Companies all known plumbing, gas and underground electrical lines.
19. **CLOSING-IN WORK:**
  - 19.1.1 The General Contractor shall notify the Owner, all Contractors and subcontractors under the Owner, when he is ready for them to install their portions of their work and see that they comply with any reasonable period of time. Neither enclose nor cover any piping, wiring, ducts, equipment or other items until proper tests, observations, and/or inspections have been made by the Architect and/or proper authorities.
  - 19.1.2 Notify the Architect to observe any work when placing of subsequent work would prevent observation of previous work.
20. **FINISHING:**
  - 20.1.1 Adjust windows, doors, drawers, hardware, appliances, motors, valves, controls and other equipment for proper operations.
  - 20.1.2 Seal exterior joints between materials to form a waterproof enclosure.
  - 20.1.3 Touch-up imperfections in surfaces, paint and other finishes after all Contractors and Tradesmen have completed their work.
  - 20.1.4 Clean surfaces using appropriate materials and methods that will thoroughly clean but not damage materials and their finishes, nor damage or adversely affect other materials in the project.
21. **COMPLETED WORK:**
  - 21.1.1 Completed work shall find materials structurally sound, free from scratches, abrasions, distortions, chips, breaks, blisters, holes, splits or other disfigurement considered as imperfections for the specific material. Equipment shall operate properly to design performance capacities and requirements.
  - 21.1.2 Finished installations shall illustrate first class workmanship.
  - 21.1.3 Completed surfaces shall be thoroughly clean and free from foreign materials and stains.
22. **PERMANENT SYSTEMS:**  
Install, connect, service and operate permanent systems at earliest practical dates, except as may be modified by special conditions of these specifications.
23. **GUARANTEE:**  
This Contractor shall be responsible for and shall make good any defects due to faults in labor and materials, which may arise or be discovered within one (1) year after the completion of the work and its acceptance by the Architect.
24. **WRITTEN WORDS IN PROPOSAL:**  
In case of a difference between words and figures in a proposal, the amount stated in written words shall govern.

***Separate Contract for Stage Curtains 2020***  
***Oxford High School– U.S.D. 358***

**25. TRASH AND DEBRIS:**

Each Contractor shall be responsible to remove all loose paper, cardboard, etc. from the site in a consistent manner to avoid blowing of trash and debris. The General Contractor shall be responsible for maintaining a central trash receptacle that can be used by all contractors.

**26. SALES TAX EXEMPTION:**

26.1.1 Materials and equipment incorporated into this project are exempt from payment of Kansas Sales Tax and such Sales Tax shall be excluded from bidder's proposal.

26.1.2 The Owner will provide this Contractor with a proper exemption certificate number within ten (10) days of Contract date. Upon issuance of a proper exemption certificate number to this Contractor, this Contractor shall assume full responsibility for his own proper use of the certificate number and shall pay all costs of any legally assessed penalties relating to this Contractor's improper use of the exemption certificate number.

26.1.3 Should the Owner fail to provide a proper exemption certificate number, the amount of the Sales Tax for the project shall be allowed as an extra to the Contract amount.

**27. TAXES:**

This Contractor shall make all necessary forms for and shall pay for all taxes on labor and materials, such as Sales Tax, Social Security Tax, Withholding Tax, etc., without additional cost to the Owner, where such taxes are required by the State and Federal Laws.

**28. OMISSIONS:**

28.1 The Drawings and Specifications are intended to incorporate anything shown on the Drawings but not mentioned in the Specifications or vice versa, or anything not expressly set forth in either, but which is reasonable implied, shall be furnished as though specifically shown and mentioned in both, without any charge.

28.2 Should anything be omitted from the Drawings, necessary to the proper construction of the work herein described, it shall be the duty of this Contractor to so notify the Architect before signing the Contract and in the event of this Contractor failing to give such notice, he shall make good any damages or defects in his work caused thereby without extra charge.

**29. PROTECTION OF WORK AND PROPERTY:**

The General Contractor shall take charge of and assume general responsibility for proper protection of the building during construction. They shall further provide substantial enclosures at all openings as necessary for protection, including doors and locks. Each Contractor shall assume responsibility for his materials stored on the premises.

**30. EQUAL EMPLOYMENT OPPORTUNITY:**

Sections 1 through 5 of K.S.A. 44-1030 (as follows) shall be included in this Contract except those sub-contractors, vendors or suppliers whose cumulative dollar total in any fiscal year is \$5,000 or less, or who have fewer than four (4) employees:

35.1.1 This Contractor shall observe the provisions of the Kansas Act against discrimination and shall not discriminate against any person in the performance of work under the present Contract because of race, religion, color, sex, physical handicap unrelated to such person's ability to engage in the particular work, national origin or ancestry;

35.1.2 In all solicitations or advertisements for employees, this Contractor shall include the phrase, "equal opportunity employer," or a similar phrase to be approved by the commission;

***Separate Contract for Stage Curtains 2020***  
***Oxford High School– U.S.D. 358***

- 30.1.3 If this Contractor fails to comply with the manner in which this Contractor reports to the commission in accordance with the provisions of K.S.A. 1976 Supp. 44-1030, as amended, he shall be deemed to have breached the present Contract and it may be cancelled, terminated or suspended, in whole or in part, by the contracting agency;
- 30.1.4 If this Contractor is found guilty of a violation of the Kansas Act against discrimination under a decision or order of the commission which has become final, this Contractor shall be deemed to have breached the present Contract and it may be cancelled, terminated or suspended, in whole or in part, by the contracting agency;
- 30.1.5 This Contractor shall include the provisions of Paragraphs (1) through (4) inclusively of this Subsection (a) in every subcontract or purchase order so that such provisions will be binding upon such subcontractor or vendor.
31. **EQUIPMENT VERIFICATION:**
- 31.1.1 This Contractor shall check physical sizes of all material and equipment furnished under this Contract and require other Contractors and Owner to verify sizes of their equipment, in time to allow ample room for transporting equipment to and installing in its final location before enclosing spaces for it. Notify Architect in writing of any openings, ceiling heights or enclosures that are insufficient to accommodate equipment; such notice in ample time for Architect to direct necessary adjustments before such openings, ceilings or enclosures are placed.
- 31.1.2 Before construction proceeds to point that would prevent necessary modifications, this Contractor shall check Drawings, Specifications, Shop Drawings and Change Orders and notify Architect, in writing, of any Mechanical/Electrical services and/or connections required but not indicated, or incorrectly indicated, for equipment furnished. Failing to do so, Contractor furnishing equipment provide required services and/or connections at his expense.
32. **REPAIRS:**
- Unless the Architect grants permission to repair any defective work, remove defective work from project and replace with new work in accordance with Contract Documents, permission to repair such work shall not constitute a waiver of Architect's right to require complete replacement of defective work if repair operation does not restore quality and appearance of member or surface to Architect's satisfaction. If permission is granted, repair according to Architect's direction.
33. **LAWS AND ORDINANCES:**
- 38.1 This Contractor is required to familiarize himself with and observe all laws, ordinances and regulations relating to the work, and such laws, ordinances and regulations are hereby incorporated in and made a part of these specifications and the Contract for this work.
- 38.2 All work shall comply with the Americans with Disabilities Act.
34. **COMMENCE WORK:**
- Work may commence with Owner's approval. Coordinate installation with the General Contractor.
39. **APPROVED EQUALS:**
- Company's approved equals to the original specified suppliers are required to meet all requirements of the plans, specifications, and standards of performance and construction as established by the first named originally specified manufacturer's product.

**End of Section 00300**

**Section 11062**

**STAGE CURTAINS**

**PART 1: GENERAL**

**1.1 SUMMARY:**

- A. This Section includes the fabrication, furnishing, delivery and installation of the following stage equipment:
  - 1. Stage Curtains.
  - 2. Curtain Tracks.
- B. Related work in other Sections:
  - 1. Stage Lighting Control System, Architectural Lighting Control System, Stage Lighting Instruments, and Distribution Equipment, Section 16.

**1.2 SUBMITTALS:**

- A. Product Data: Submit manufacturer's material specifications and installation instructions. Include instructions for handling, storage, protection and maintenance.
- B. Color Samples: Submit the fabric manufacturer's standard Color Selection Chart for color selection by the Architect.
- C. Samples: Submit samples of rigging hardware, curtain track and fabric, as requested.
- D. Flame Proofing: Submit copies of flame proofing certificates from fabric manufacturers in accordance with these specifications.

**1.3 QUALITY ASSURANCE:**

- A. All items of work included in this specification shall be furnished by a qualified Theatrical Contractor and installed by experienced stage technicians in the employ of that contractor so that there will be no division of responsibility for the proper utility and operation of the equipment after the installation. The Theatrical Contractor must be in the regular business of fabrication and installation of theatrical draperies and rigging of the scope specified for this project. Curtains fabricated by a third party shall not be allowed.
  - 1. Each bidder of this Section of the specification must furnish with his or her bid a written listing of at least five installations that are equal to or surpassing the scope of this project.
  - 2. The dimensions of Curtains described in this Specification shall be considered as approximate and shall be verified on site by the Theatrical Contractor prior to manufacture.

**1.4 DELEIVERY, STORAGE AND HANDLING:**

- A. Coordinate storage of all equipment, hardware, and accessories with the other

Contractors involved in the project to assure that storage does not inhibit other Contractor's progress.

- B. The Theatrical Contractor shall be responsible for the handling of all equipment, hardware and accessories (unloading and transport to the designated storage area).
- C. Deliver all manufactured curtain products to the jobsite no sooner than two days prior to their installation in order to prevent possible damage to the curtains while being stored.

## **PART 2: PRODUCTS**

### **2.1 STAGE CURTAINS:**

- A. Fabricate, deliver and install Stage Curtains in accordance with the following specification.
- B. All fabrics utilized in the manufacture of the Stage Curtains specified herein shall be made flame retardant to comply with the following standards:
  - 1. California Administrative Code, Title 19, Para. 1237.1 (Interior Chemicals).
  - 2. New York Boards of Standards and Appeals – Calendar No. 294-40 S.R.
  - 3. N.F.P.A. 701, Large and Small Scale.
- C. The Theatrical Contractor (Stage Curtain Fabricator) shall provide two copies of the original flame proofing certificates, signed and notarized by the fabric manufacturer, stating the following information:
  - 1. The concern that purchased the fabric from the fabric manufacturer.
  - 2. The name and Chemical Registration Number of the flame proofing chemical used.
  - 3. The method of chemical application.
  - 4. The manufacturer's control number.
  - 5. The quantity of fabric purchased.
  - 6. The fabric name and type.
  - 7. The lot number.
  - 8. The date processed.
- D. The Theatrical Contractor (Stage Curtain Fabricator) shall retain the original Flame Resistance Certificates to be kept with the project records.
- E. Fabrics:
  - 1. Fabric for the Valance, Front Curtain, Tormentors, Grand border and Mid Stage Traveler shall be inherently flame resistant 18-20 oz/yd Crescent Velour as manufactured by KM Fabrics of Greenville, South Carolina. Color selection shall be from the manufacturer's Standard Color Selection Guide.
  - 2. Fabric for the 1<sup>st</sup> and 2<sup>nd</sup> Borders and the Cyclorama Curtain shall be inherently flame-resistant Plateau Velour as manufactured by KM Fabrics of Greenville, South Carolina. Color shall be Black.

3. Fabric for Lining as indicated be inherently flame-resistant Poplin as provided by Fred Krieger & Company, Inc. of Jericho, New York. Color shall be Black.

**F. Fabrication Specifications:**

1. All curtain tops shall be finished with 3 heavy polyester webbing double stitched to the back.
2. No pieced materials shall be acceptable. Each cut of fabric shall be one continuous piece. Bad and missed stitching and puckered and crooked seams and hems shall not be acceptable.
3. All thread used shall be 100% cotton or mercerized cotton. Both the needle and the bobbin thread shall match color of the fabric to which they are sewn. Thread shall not be thinner than #20 in size.
4. Unless otherwise noted, all curtains shall be fabricated with not-less-than 50% sewn-in fullness and box pleats double-sewn on 12" centers.
5. All curtains to be attached to track carriers shall be finished at the top with 1" harness snaps attached with two pieces of 1" cotton tape, one looped and double-sewn through the harness snap loop, and one double-sewn horizontally over the harness snap spine. S-hooks with grommets, swivel hooks and copper rivets shall not be acceptable. Snaps shall be sewn on pleats centers.
6. All curtains to be attached to pipe battens shall be finished at the top with #4 brass grommets and 30" long 1/8" unglazed black- tie line. Grommets shall be placed on pleat centers.
7. All floor length curtains shall be finished at the bottom with #90 lead tape, set up and sewn in a 6" bottom hem. Unweighted curtains shall be finished with a 3" bottom hem.
8. All lined full-stage traveler curtains shall be finished with not less than 12" turn back on both onstage and offstage edges. All other curtains shall be finished with 3" side hems.

**G. Hardware Specification:**

1. Curtain Tracks: Reuse existing with the following exception.
  - a. Existing Cyclorama Curtain Track shall be replaced with Model 301W Track as manufactured by H&H Specialties, Inc. of City of Industry, California, rigged to operate as a bi-part walk-draw.
2. Pipe Batten: Reuse existing.

**H. Curtain Schedule:**

1. Valance, 1 panel 38 feet wide by 5 feet 4 inches high, lined, with grommet and tie top hem.
2. Front Curtain, 2 panels, each panel 21 feet wide by 13 feet 9 inches high, lined, with master carrier harness snap top hem.
3. Tormentors, 2 panels, each panel 7 feet wide by 17 feet high, lined, with grommet and tie top hem.
4. Grand Border, 1 panel 34 feet wide by 5 feet high, lined, with grommet and tie top hem.

5. Mid Stage Traveler, 2 panels, each panel 19 feet wide by 14 feet 10 inches high, lined, with master carrier harness snap top hem.
6. 1<sup>st</sup> Border, 1 panel, 29 feet wide by 4 feet high, unlined, with grommet and tie top hem.
7. 2<sup>nd</sup> Border, 1 panel 29 feet wide by 4 feet high, unlined, with grommet and tie top hem.
8. Cyclorama, 6 panels, each panel 11 feet wide by 15 feet 9 inches high, unlined, with master carrier harness snap top hem.

**PART 3: EXECUTION**

**3.1 ADDITIONAL RIGGING AND MAINTENANCE:**

- A. It shall be the responsibility of the Theatrical Contractor to, at the start of the project to remove all existing curtains.
- B. Existing pipe battens shall be re-used in place except the 2<sup>nd</sup> Border batten. Extend or replace the existing 2<sup>nd</sup> Border batten to accommodate wider 2<sup>nd</sup> Border.
- C. Provide 6 inches of separation between the Grand Border batten and the Mid Stage Traveler track.
- D. Replace the existing Mid Stage Traveler Floor Block with an H&H Specialties Model 308 Adjustable Floor Block.
- E. Replace the operating ropes in the Front and Mid Stage traveler Tracks with the appropriate diameter Black Spun Polyester Durastron Rope.
- F. Install Cyclorama Track in the same position as existing. Extend the width from radius to radius across the back by 2 feet. Install with minimum 42-inch radii. Extend each half of bi-part at least one-foot past center for a minimum 2 foot overlap.
- G. Clean hanging Curtains of all loose thread, dust and lint. Adjust all Curtains and Curtain Tracks for proper operation and Curtain trim.
- H. Remove all debris from the site. Leave stage floor broom clean.

**End of Section 11062**