



REQUEST FOR PROPOSAL
001049
BID NUMBER

Wayne County Community College District is soliciting bids for **THE DOWNRIVER CAMPUS PERFORMING ARTS STAGE LIGHTING (A) AND STAGE DRAPERIES (B)**.

A **Mandatory** Pre-Bid Conference will be held at 10:00 a.m., Thursday, June 11, 2009 at the following location:

Wayne County Community College District
DOWNRIVER CAMPUS-RAY MIX ROOM
21000 NORTHLINE ROAD
TAYLOR, MI 48180

IMPORTANT: Your company is responsible for knowing any changes or modifications discussed at the Mandatory Pre-Bid Conference. Those bids, which do not meet specifications, will be rejected.
(FAXED OR EMAILED BIDS WILL NOT BE ACCEPTED)

The deadline for questions will be Tuesday, June 16, 2009 at 12:00 p.m.

FOLLOWING THE PRE-BID CONFERENCE, Bids will be received by:

Wayne County Community College District
ATTN: Ms. Pamela D. Jones, Buyer
Purchasing Department
801 W. Fort Street
Detroit, MI 48226
Voice: (313) 496-2612 / fax: (313) 961-7693

The deadline for receipt of proposals will be 12:00 Noon Tuesday, June 23, 2009. At that time, the bids will be opened publicly. **Indicate on the outside of your (SEALED) envelope your Company name, the Bid Number, Project name and the Deadline.**

Information required from Bidders: (ITEMS 1 THROUGH 6 ARE REQUIRED WITH ALL BIDS.)

Please return the following with your submission:

1. Proposal page(s), complete with authorized signature
2. Proof of three (3) years in business
3. Proof of business insurance
4. References (a minimum of three)
5. Certificate of Awardability available from the State of Michigan Civil Rights Office, phone 313-456-3823; (a copy of a letter stating you have applied is sufficient)
6. Addendum to Independent Contractor Agreement (supplied by the College)
7. Financial statement (**required only if your total bid is \$50,000.00 or more**)
8. Bid guarantee (**required only if your total bid is \$50,000.00 or more**)
9. Outline of any suggested modifications or an explanation of any proposal suggestion submitted by you which may not be clear.

(NOTE: Items 1 through 6 are required with any bid submission)

REQUIREMENTS IN DETAIL

1) PROPOSAL PAGE

Your bid proposal **must** be submitted on 8.5" by 11" paper; you may submit supporting documentation, etc. but the College reserves the right to dispose of said support (covers, oversize envelopes, etc.) at the completion of the bid.

2) PROOF OF THREE YEARS IN BUSINESS

Any company submitting a bid of \$50,000.00 or more must show proof of being in business for at least three (3) years. Proof of 3 years in business can be a copy of a three-year-old document bearing the company's name. These documents may include; Articles of Incorporation, bank statement, licenses, telephone bill, etc.

3) PROOF OF BUSINESS INSURANCE

Your company must be insured and possess the proper amounts of liability, workman's compensation, auto, etc. required by law. Please include a copy of your certificate with your bid.

The contractor must be licensed to do business in the State of Michigan. The contractor's insurer must be one which is acceptable to the College. Insurance must be kept in force for the term of the contract; the retro-date must stay the same.

4) REFERENCES

References shall consist of a minimum list of clients (three) presently serviced by your company, for whom you perform the same or similar service(s), and a contact person with current phone number at each establishment.

5) CERTIFICATE OF AWARDABILITY

Each contractor submitting a proposal must establish he or she is awardable under criteria established by the Michigan Civil Rights Commission. A **Certificate of Awardability** must accompany your bid. Certificates may be obtained through the Michigan Civil Rights Commission office located in the State of Michigan building at Howard and Sixth streets (phone 313-456-3822). A letter stating that you have applied for the certificate is acceptable until receipt of the certificate.

6) ADDENDUM TO INDEPENDENT CONTRACTOR AGREEMENT

This document, supplied by the College, is required with most bids. This states that the contractor and employees including subcontractors **are not** employees of the College.

7) FINANCIAL STATEMENT - BIDS OF \$50,000.00 OR MORE

A financial statement covering the latest complete business cycle is required.

8) BID GUARANTEE

A certified check, bank cashier's check or bid bond equal to **five percent (5%)** of your total base bid is required for each bid; the items should be made payable to Wayne County Community College. A bid bond shall be issued by a bonding company licensed to transact business in the locality.

The successful bidder's bid guarantee will be retained until he has entered into contract with the College. The College reserves the right to hold the bid guarantee of the next two bidders until the successful bidder has entered into contract with the College, or for a period of sixty (60) days, whichever time elapses first. Bid guarantees of all other bidders will be returned to them as soon as possible after the bid opening.

Should a bidder fail to enter into contract with the College within ten (10) days after his bid is accepted, his bid guarantee will be **forfeited** to the College as liquidated damages but not as a penalty.

OTHER INFORMATION

ADDENDA

Addenda will be mailed, faxed or delivered to all who are known by WCCCD to have a complete set of bid documents. No addenda will be issued later than (24) hours prior to the bid opening date except for addenda withdrawing the bid or postponing the bid opening date.

EXPLANATION OF BID DOCUMENTS

Any bidders requesting clarifications or corrections to bid documents **must put their requests in writing and fax them to WCCCD Purchasing Department at 313.961.7693**. Clarification requests must be received no later than *Tuesday, June 16, 2009 at 12:00 p.m. (noon)*.

BIDS EXCEEDING \$50,000.00

If the combined total of your bid on this package is \$50,000.00 or above, it is **mandatory** that all information requested in the previous section titled "Information Required from Bidders" be included in your bid package at the time of opening to insure that your bid be considered.

WITHDRAWAL OF BIDS

Any bidder may withdraw his bid, either personally or by written request, at any time prior to the hour set for the bid opening. No bid may be withdrawn or modified later than the time set for opening unless and until the award of contract is delayed for a period exceeding sixty (60) days.

SUBMISSION OF FORMS

Proposals must be submitted on forms furnished by the College (if provided); forms may be requested in duplicate. Attachment(s) may be made to clarify or supplement the College form(s). Please note that outsized attachments and other supplemental submissions may be disposed of at the completion of the bid process.

TERMS

The college's terms are net 30, unless otherwise negotiated.

ACCEPTANCE OF BID PROPOSAL(S)

The College reserves the right to **reject** any or all bids; the College may waive any informalities or irregularities in bid proposals submitted during the bidding process. **The College also reserves the right to award the contract to other than the low bidder.**

Sealed bids may be submitted prior to the closing date in an envelope clearly marked with the **company name, bid number, title of the project and the date and time it is due**. The College accepts no responsibility for bids which do not meet the deadline because they were improperly labeled.

LOWEST RESPONSIBLE BIDDER

The lowest responsible bidder shall be based upon the following criteria: (1) purchase price; (2) the reputation of the vendor and of the vendor's goods or services; (3) the quality of the vendor's goods or services; (4) adequate financial resources for performance; (5) the extent to which the goods or services meet the College's needs; (6) the vendor's past relationship with the College; (7) adequate experience, organization and technical qualifications, skills and facilities; (8) ability to comply with the required timeline for delivery of services or goods; (9) a satisfactory record of integrity, judgement and performance; (10) Whether the vendor is a Wayne County based enterprise.

ADDENDUM TO INDEPENDENT CONTRACTOR AGREEMENT

This will confirm that I have informed Wayne County Community College District (WCCCD) that I meet four basic tests used by the General Accounting Office to determine whether a true separate business entity exists which permits the College to engage me as an independent contractor.

- 1. I have a principal place of business other than furnished by the College. I understand that a home does not qualify as a separate place of business unless it qualifies as a deduction of certain expenses in connection with business use of the home.**
- 2. I maintain a separate set of books and records that reflect all items of income and expenses at my business.**
- 3. I have the risk of suffering a loss as well as the opportunity of making a profit.**
- 4. I hold myself out in my own name/Company name as self-employed and make my services generally available to the public.**

In addition to meeting the above basic tests, I have read and understand the twenty-factor test set forth by the Internal Revenue Service cited at Rev Rul 87-41, 1987 which is used to determine whether an individual is an independent contractor, I generally meet the requirements, and hereby certify to Wayne County Community College District (WCCCD) that I am an independent contractor in accordance with the Internal Revenue Service twenty-factor test included therein.

Name of Independent Contractor

Name of Firm (if applicable)

Employer Identification Number

Date

PROPOSAL PAGE
WAYNE COUNTY COMMUNITY COLLEGE DISTRICT
Downriver Campus Performing Arts
“Stage Lighting Fixtures and Accessories” - Section 11964

RFP#001049(A)

1. Company Name _____
2. Company Address _____
3. City _____ State _____ Zip Code _____
4. Authorized Company Signature _____

Printed Name _____

Title _____
5. Phone Number _____ Fax No. _____
6. Salesperson _____
7. E-mail Address _____
8. TOTAL COST \$ _____
9. INSTALLATION COSTS \$ _____
10. SEPARATE COST FOR ALTERNATE SPOTLIGHT; INCLUDE FIELD TRIAL IN TOTAL COST ABOVE. \$ _____

If this bid is accepted, we will:

Complete the Work in _____ calendar weeks for Notice to Proceed

PROPOSAL PAGE
WAYNE COUNTY COMMUNITY COLLEGE DISTRICT
Downriver Campus Performing Arts
“Stage Drapery and Scenic Curtains” – Section 11062

RFP#001049(B)

5. Company Name _____

6. Company Address

7. City _____ State _____ Zip Code _____

8. Authorized Company Signature _____

Printed Name _____

Title _____

5. Phone Number _____ Fax No. _____

6. Salesperson _____

7. E-mail Address _____

8. TOTAL COST \$ _____

9. INSTALLATION COSTS \$ _____

10. SEPARATE COST FOR ALTERNATE PROJECTION SHEET; INCLUDE
INSTALLATION. \$ _____

If this bid is accepted, we will:

Complete the Work in (____) calendar weeks from Notice to Proceed.

**SPECIFICATIONS FOR
WAYNE COUNTY COMMUNITY COLLEGE DISTRICT
Downriver Campus Performing Arts
“Stage Lighting Fixtures and Accessories” - Section 11964 - RE-BID
“Stage Drapery and Scenic Curtains” – Section 11062 – RE-BID**

See the attached specifications titled

PROJECT NO. 03028

By Architect
DeMattia Group

SECTION 11964

STAGE LIGHTING FIXTURES & ACCESSORIES

SECTION 11964
STAGE LIGHTING FIXTURES AND ACCESSORIES
RE-BID, March 2009

1.00 GENERAL REQUIREMENTS

- A. All Stage Lighting Fixtures shall be furnished with the following features and accessories:
1. Installed Specified lamp
 2. Installed approved "C" clamp for mounting on 1.5" I.D. Schedule 80 Pipe.
 3. Installed 20 Amp Stage Pin Connector with clear cover.
 4. Installed 36" Safety Cable
 5. Color Frame painted, color flat black
 6. Strip Lights shall include one each per socket, 55° Spread Lens Roundels of Red, Blue, of Green color.
 7. The Theatrical Equipment Vendor shall provide labor to install, plug, test and rough focus all fixtures in accordance with provided lighting plot, and the cost of doing so shall be included in the bid price.
 8. The Theatrical Equipment Vendor shall remove all packaging and waste material, and the cost of doing so shall be included in the bid price.

1.01 ELLIPSOIDAL SPOTLIGHTS

A. General

The instrument shall be a Source Four ellipsoidal spotlight as manufactured by Electronic Theatre Controls, Inc.

B. Physical

The unit shall be constructed of rugged, die cast aluminum, free of burrs and pits, finished in black, high temperature epoxy paint. Tools shall not be required for either lamp alignment or cleaning the reflector or lens. The following shall be provided:

1. Integral cable clamp for power leads
2. Each unit shall be provided standard with color frame.
3. The three conductor, 36" leads shall be rated for high temperature and encased in a glass fiber outer sleeve and shall include an installed 20A grounded stage pin connector.
4. Positive locking of lamp focus and independent lamp alignment controls

5. High impact, thermally insulated knobs and shutter handles
6. Reflector secured with shock mounts
7. Lens secured with silicone shock mounts
8. Rotating shutter assembly - 50° rotation
9. 20 gauge stainless steel shutters
10. Insulated rear handle
11. Interchangeable lens tubes for different field angles with Teflon guides for smooth tube movement
12. Sturdy integral die cast gel frame holders with two accessory slots, and a top mounted, quick release gel frame retainer
13. Rugged 3/16" x 1-1/4" steel yoke with C-clamp with two mounting positions allowing 300°+ rotation of the fixture within the yoke
14. Positive locking, hand operated yoke clutch
15. Slot with sliding cover for motorized pattern devices or optional iris.

C. Optical

The optical train shall combine a compact filament lamp with a precision molded borosilicate, ellipsoidal reflector and aspheric lens to produce an optimum cosine field. The unit shall provide, but not be limited to:

1. Molded borosilicate reflector with multiple dichroic layers
2. 95% of visible light shall be reflected while 90% of infrared light as heat shall be transmitted through the reflector
3. Low gate and beam temperature
4. Sharp imaging through a three plane shutter design
5. Projector-quality, high contrast aspheric lens, with an anti-reflective coating to increase transmission

D. Performance

The unit shall be precision engineered to use an HPL lamp to deliver an even, intense field with cosine distribution. The unit shall provide, but not be limited to:

1. 5, 10, 19, 26, 36, and 50 degree field angles
2. Projector-quality pattern imaging
3. Sharp shutter cuts without halation
4. Shutter warping and burnout in normal use shall be unacceptable

5. Adjustable hard and soft beam edge
6. The unit shall be capable of utilizing ETC Dimmer Doubling technology
7. The unit shall be UL and cUL listed and so labeled.

E. Lamp

The high efficiency lamp shall be an HPL lamp, which shall consist of a compact tungsten filament contained in a krypton-filled quartz envelope. The lamp shall mount axially within the reflector. The lamp base shall have an integral die cast aluminum heat sink that reduces seal temperature and ensures proper lamp alignment. The lamp socket shall be ATP 220 nickel gold plated.

1.01 VARIABLE FOCUS SPOTLIGHT

A. General

The instrument shall be a Source Four PARNel spotlight as manufactured by Electronic Theatre Controls, Inc.

B. Physical

The spotlights are constructed of rugged, die cast aluminum, free of burrs and pits, finished in black, high temperature epoxy paint. The spotlight shall provide, but not be limited to:

1. Rugged die-cast aluminum construction
2. Ten interior baffles to eliminate beam scattering and spill light.
3. Thermally insulated, precision focus knob.
4. A sealed reflector housing that shall prevent all light leaks.
5. 17 heat-sink fins cast into the reflector housing for temperature control.
6. Integral cable clamp for power leads.
7. A brass self-retaining screw to retain the lamp socket
8. Sturdy gel frame holders with two accessory slots and a top mounted, quick release gel frame retainer. Each unit shall be provided standard with color frame
9. Rugged steel yoke with 300°+ rotation of fixture within yoke
10. Positive locking, hand operated yoke clutch.
11. Unit shall be nominally 11" long by 10" wide.
12. Unit shall not weigh more than 8.5 pounds (without c-clamp).
13. The spotlight shall be UL and cUL listed and so labeled.

C. Electrical

1. The unit shall have an operating range of 115-240V, 50/60Hz.
2. The unit shall be capable of using a maximum of 750W HPL lamp.
3. The three conductor, 36" leads shall be rated for high temperature and encased in a glass fiber outer sleeve and shall include an installed 20A grounded stage pin connector.
4. The unit shall be capable of utilizing ETC Dimmer Doubling technology.

D. Lamp

1. The instrument shall use only one lamp type, the HPL lamp.
2. Fixtures that require the purchasing of multiple lamp types to achieve different field angles shall not be acceptable.
3. The lamp shall:
 - a. Be an HPL lamp consisting of a compact tungsten filament, contained in a krypton-filled quartz envelope
 - b. Mount axially within the reflector and shall be pre-focused within the reflector.
 - c. Have an integral die cast aluminum heat sink that reduces seal temperature and ensures proper lamp alignment.
 - d. Use an ATP 220 nickel gold plated socket.

E. Lenses

1. Lens sets shall consist of two patented wave lenses. One clear and one stippled.
2. Lenses shall be heat resistant, borosilicate glass.
3. Beam orientation of 25°-45° (spot to flood) shall be possible through rotation of exterior rotation knob connected to a rotatable collar housed in the front of the unit.
4. Fixtures which require user to reposition the lamp socket to change the beam angle shall not be acceptable.

F. Optical

1. The optical train shall combine a compact filament lamp with modified parabolic and multifaceted reflector.

2. Reflector finish shall be an Enhanced Aluminum deposition.
3. Reflector shall be cast into a heat sink assembly.
4. Reflector efficiency shall be a minimum of 93%.
5. Reflectors of pressed aluminum sheet construction shall not be acceptable.

1.02 BORDER LIGHT

A. General

1. Accepted Manufacturers
 - a. Altman Lighting, Yonkers, NY
 - b. Lighting & Electronics, Wapping Falls, NY
2. The R40 Border light shall be a compartmented multi-circuit strip-lighting device constructed of 20-gauge steel.
3. Each unit shall be supplied with porcelain medium screw-base sockets spaced on 6" centers and wired sequentially in three circuits.
4. Each Unit shall be supplied with three (3) three conductor, 36" leads rated for high temperature and encased in a glass fiber outer sleeve and each shall include an installed 20A grounded stage pin connector.
5. Each compartment shall contain a lamp-holder, louvers for heat dissipation, a baffle to minimize light leak and a color filter slot. Integral to the selected length of the luminaire shall be a spring-loaded roundel filter frame retaining door or doors.
6. Fixture shall be lamped with up to 300 watts per socket.

B. Physical

1. The border lights are constructed of steel sheet metal, free of burrs and pits, finished in black, high temperature epoxy paint. Tools shall not be required for cleaning the reflector or lens
2. Interior of unit shall contain baffles to eliminate beam scattering and spill light.
3. Sturdy gel frame holders and a spring loaded, quick release gel frame retainer.
4. Rugged steel hanging irons and floor trunions and threaded, locking handles for tilt adjustment shall be supplied with the unit.
5. Exterior finish shall be baked black enamel.
6. Each unit shall be provided standard with roundel frames and specified lamps

7. The spotlight shall be UL and cUL listed and so labeled.

1.04 QUANTITIES

1. 8 each Source-4 5° with HPL750/115 lamp
2. 20 each Source-4 10° with HPL750/115 lamp
3. 36 each Source-4 14° with HPL750/115 lamp
4. 16 each Source-4 15°-30° Zoom with HPL750/115 lamp
5. 38 each Source-4 19° with HPL750/115 lamp
6. 48 each Source-4 26° with HPL750/115 lamp
7. 30 each Source-4 36° with HPL750/115 lamp
8. 24 each Source-4 50° with HPL750/115 lamp
9. 36 each Source-4 Parnel with HPL750/115 lamp
10. 8 each Altman 7.5" 3 circuit R40 Borderlight with 300 Watt R40 flood lamp

1.05 STAGE LIGHTING ACCESSORIES

A. Source-4 Accessories:

1. 4 each City Theatricals Source Four Iris #2180
2. 2 each City Theatricals Source-4 Follow Spot Handle #1360
3. 16 each 5" Top Hats for Source-4 15°- 30° Zoom fixtures
4. 48 each 5" Top Hats for Source-4 19°- 50° fixtures
5. 36 each 4 Way Barndoors for ETC Source-4 PARnel fixtures
6. 24 each Standard Pattern Holders for Source-4 fixtures
7. 12 each Glass Pattern Holders for Source-4 fixtures
8. 120 each 5-5/8" 50° Roundels for Altman 7.5' 3 circuit R40 Borderlight

B Stage Cable

All Stage Cable, Two-fers and Three-fers shall be 12/3 SO with installed 20 Amp Stage Pin Connectors with clear covers.

1. 24 each Two-fer 36" Molded Y
2. 20 each 12/3 SO Extension Cable 5'-0" long

3. 20 each 12/3 SO Extension Cable 10'-0" long
4. 20 each 12/3 SO Extension Cable 25'-0" long
5. 20 each 12/3 SO Extension Cable 50'-0" long

C LIGHTING HARDWARE

1. 3 each 20 bushel, steel framed, castered, lidded hamper to store fixtures, cable and hardware.
2. 42 each 12" Sidearm w/Tee (w/bolt & washer)
3. 8 each Altman 50 lb. 22.5" diameter Boom Base with threaded female socket to accept 1.5" ID schedule #40 threaded pipe
4. 4 each City Theatrical 10-Inch Floor Boom base
5. 8 each 10'-0" 1.5" ID schedule #40 black threaded pipe
6. 5 each Altman 10" hanging Arm & Clamp for Altman Strip Light 3 circuit
R40 - 7.5"
7. 8 each City Theatricals Boom Tie Off #1310

D WORKLIGHT

1. 8 each L & E Mini-Flood #6350 with 500 Watt FCZ Frost lamp, color frame, C-clamp, safety cable and 3'-0" wire lead with installed 20 Amp Stage Pin Connector with clear cover.

E. FOLLOW SPOT

1. 2 each Strong Canto 2000 Spotlight. **Provide Alternate Price. Include in price a field trial to test throw, intensity and mounting options. Owner may or may not elect to purchase these spotlights based on the field trial.**

END OF SECTION

This page Included for reference only with RE-BID specification section 11964, Stage Lighting Fixtures and Accessories. March 2009

**Wayne County Community College Downriver Campus Theatre
Stage Lighting Fixture Distribution Recommendation**

Front of House	Circuits	Fixture Type	Quantity	Watts
Catwalk 3- 65'-85' throw	24 Circuits	Source-4 5°	8	750
		Source-4 10°	8	750
Catwalk 2- 45'-60' Throw	44 Circuits	Source-4 10°	12	750
		Source-4 14°	24	750
Catwalk 1- 35'-50' throw	36 Circuits	Source-4 14°	12	750
		Source-4 19°	20	750
Balcony Rail- 45'-55' throw	8 Circuits	No Permanent Fixtures		
Box Right- 30'-70' throw	8 Circuits	Source-4 15°-30° Zoom	8	750
Box Left- 30'-70' throw	8 Circuits	Source-4 15°-30° Zoom	8	750
Over Stage	156 Circuits			
Electric 1- 20-40' throw	24 Circuits	Source-4 19°	6	750
		Source-4 26°	12	750
		Source-4 36°	6	750
Electric 2- 20-40' throw	24 Circuits	Source-4 Panel	12	750
Electric 3- 20-40' throw	24 Circuits	Source-4 19°	6	750
		Source-4 26°	12	750
		Source-4 36°	6	750
Electric 4- 20-40' throw	24 Circuits	Source-4 Panel	12	750
Electric 5- 20-40' throw	24 Circuits	Source-4 19°	6	750
		Source-4 26°	12	750
		Source-4 36°	6	750
Electric 6- 20-40' throw	24 Circuits	Source-4 Panel	12	750
Electric 7-	12 Circuits	Altman 7.5' Strip Light	4	300
Ground Row (Feeds from Wall Pocket)		Altman 7.5' Strip Light	4	300
Additional Fixtures		Source-4 26°	12	750
		Source-4 36°	12	750
		Source-4 50°	24	750
		L & E Mini Flood	6	500

SECTION 11062

STAGE DRAPERY & SCENIC CURTAINS

SECTION 11062

STAGE DRAPERY AND SCENIC CURTAINS
RE-BID, March 2009

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Theatre Main Drape
 2. Theatre Masking Velour Legs, Borders, and Flat Panel Traveler Curtains
 3. Sharkstooth Scrim
 4. Seamed Muslin Bounce Drop
 5. Storage Hampers
 6. Storage Bags
 7. Installation
- B. Related Sections:
1. Section 111064 – Stage Rigging

1.2 SUBMITTALS

- A. Shop Drawings: For all fabricated stage drapery and scenic drops
1. Provide samples to architect for initial selection purposes in the form of manufacturer's standard color samples for all fabrics required.
 2. Shop drawings shall be submitted within thirty (30) days of award of contract.
 3. Verify dimensions of all drapery with field measurements before manufacture and indicate sizes on Shop Drawings.
 4. Provide three (3) original flame-proofing warranty certificates for each fabric used on the project.

1.3 QUALITY ASSURANCE

- A. Flame-Resistance:
1. Products shall comply with minimum Class B, ASTM-E-84 Surface Burning Characteristics of Building Materials, Flame Spread Rating of 75 and Smoke Development Rating of 450.
 2. Comply with NFPA 701 and all applicable local, state and federal codes.
 3. All natural fiber fabrics must be chemically flame-proofed at the point of manufacture, using an immersion process. Spray method of flame-proofing is unacceptable. This process must be in accordance with the requirements of the NFPA 701 Large and Small scale test. Flame-proofing shall be effective for not less than five (5) years from date of installation.
 4. Inherently flame resistant drapery velour drapery shall be fabricated of Trevira complying with NFPA 701.
- B. Warranty:
1. The Drapery Manufacturer must warrant all material and workmanship described herein to be free of defects for a period of two years from acceptance.
 2. Equipment found to be defective during this period must be repaired or replaced within thirty (30) days of notice at no cost to Owner.
 3. Ordinary wear and damage due to improper usage is not covered by this warranty.
- C. Maintenance:
1. Provide Owner four (4) running yards of each fabric type (excluding Scrim and Projection Sheet) for repairs.

PART 2-PRODUCTS

A. STAGE DRAPERY

1. Stage Drapery Materials

- a. All draperies must be vat dyed and flame retarded by an immersion process.
- b. All fabrics of their various kinds and colors shall each be from one (1) and the same dye lot.
- c. All colors and designs are to be as selected by the Architect.
- d. All fabric cuts must be full length with no splices. Any fabric sections with visible e. streaking or spotting must be cut from bolt and discarded.
- e. When materials of one (1) color exceed limit of one (1) dye lot, the balance must be identically matched with the original lot. No. "run of the mill" usage of colors will be acceptable.
- f. All fabrics must be flame-proofed using an immersion process. Spray method of flame-proofing is unacceptable. This process must be in accordance with the requirements of the NFPA 701 Large and Small scale test.
- g. This contract shall furnish flame-proofing certificates giving name of flame-proofing chemical used, identification of flame-proofer, method of flame-proofing used, and date.

2. Fabric Manufacturers (weights and colors as specified)

- a. K M Fabrics Inc, 2 Waco St Greenville, SC, 29611-4618
- b. Rose Brand, 75 Ninth Avenue, New York, New York 10011
- c. Rosco Laboratories Inc. 52 Harbor View, Stamford, CT USA, 06902 (Projection Sheet only)

3. Stage Drapery Fabrication and Installation

- a. All drapery as removed from bolts shall be bench inspected for flaws and imperfections, which shall not incorporated in the finished work.
- b. Fabric panels shall run full height of the various sections without horizontal seams. Construct Borders with the center of the center panel on centerline of the drape. Legs shall sewn with full widths only.
- c. All fabrics with pile ends must be sewn with pile running down unless otherwise specified. Plaits shall be on face side of drapery.
- d. All Stage Drapery furnished with sewn fullness must be box-pleated on 12-inch centers.
- e. All draperies with fullness must have, as a minimum, 50 % fullness.
- f. 3 1/2" wide nylon webbing shall be sewn to top of drapery with four (4) runs of stitching with dual runs 1-1/2" apart, using industrial style sewing machine and no less than H30 heavy industrial nylon, color matched thread.
- g. Number 2 washer grommets, black finish, shall be installed on 1'-0" centers and shall be located so no horizontal stitching is cut or severed and shall be located on each plait on 1'-0" centers and provided with solid braided black tie lines or nickel plated drapery-to-carrier snap hooks as required.
- h. Each upper corner of each traveler section shall have double grommets precisely arranged to fit double chains of master carriers regardless of whether drapery section is used right or left stage.
- i. All hems must be double turned with no visible selvage edges.
- j. On-stage and off-stage vertical hems of House Curtain and Traveler Curtains must have 1/2 bolt width turned back hems. All other vertical hems must be 6 inches.
- k. Floor length draperies must have a 6-inch bottom hem with a suspended inner black canvas pocket containing #8 zinc plated chain weights.
- l. Bottom hems of border curtains must be 4 inches.
- m. Bottom edge of face fabric shall be within one-quarter (1/4) inch parallel with top edge of drapery for true hanging across full width

- n. After the sewing is completed, the drapery shall be folded at the vertical seams in approximately 3'0" wide increments and allowed to lay full length until transported to the installation site for promptly hanging to various tracks and battens.
- o. Mark the centerline of the webbing with indelible marker. Use a white tie line on the centerline grommet.
- p. Sew a white fabric label on the upper right and left corners of the webbing of the drape with the following information

ITEM NAME:
ITEM NUMBER:
DIMENSIONS:
FULLNESS:
DATE OF MANUFACTURE:
DATES OF FLAMEPROOFING: _ / _ / _ / _ / _ / _ / _ / _
MANUFACTURED BY:

- q. Stage Drapery Contractor shall provide labor and supervision to install all Stage Drapery on appropriate battens and traveler tracks, install provided bottom pipe in Borders and Scenic Drops and adjust counterweighted arbors accordingly. The cost shall be included in the contract price. The installation shall take place only after all construction final cleanup of the theatre is complete.

4. Stage Drapery Schedule

- a. Front Curtain
 - 1) Front Curtain to be made of 25 oz flame-proofed cotton velour, in fabric and color as selected by Architect. Fabricated in two (2) equal sections with 8 oz. denim lining.
 - 2) Fullness 50% - box pleated.
 - 3) Bottom hem 4" deep with No. 8 zinc plated jack chain weighted in separate pocket inside hem.
 - 4) 3-1/2" nylon webbing at top.
 - 5) Brass grommets and plated steel S-hooks on 1'-0" centers across top.
 - 6) One-half width turn-back facing each vertical edge, each section.
 - 7) Finished size each section - 26'-0" high by 26'-6" wide.
- b. Mid-Stage and Rear Curtain
 - 1) Mid-Stage and Rear Curtains to be made of 21 oz flame-proofed cotton velour in fabric as selected, color black. Each fabricated in two (2) equal sections.
 - 2) Fullness 50% - box pleated.
 - 3) Bottom hem 5" deep with No. 8 zinc plated jack chain weighted in separate pocket inside hem.
 - 3) 3-1/2" nylon webbing at top.
 - 4) Brass grommets and plated steel S-hooks on 1'0" centers across top.
 - 5) 12" side hems.
 - 6) Finished size each section - 26'-0" high by 32'-6" wide. Field verify width.
- c. Legs 7 Pair - Fourteen (14) Total
 - 1) Legs to be made of 21 oz flame-proofed cotton velour, in fabric as selected, color black.
 - 2) Fullness 0% - sewn flat.
 - 3) Bottom hem 6" deep with No. 8 zinc plated chain weighted in separate pocket inside hem.
 - 4) 3-1/2" nylon webbing at top.
 - 5) Brass grommets and black cotton tie lines on 1'-0" centers across top.
 - 6) 6" side hems.
 - 7) Finished size each leg, 26'-0" high by 12'-0" wide.
- d. Masking Borders - Five (5) Total
 - 1) Masking Borders to be made of 21 oz flame-proofed cotton velour, in fabric as selected, color black.
 - 2) Fullness 0% - sewn flat.

- 3) Bottom hem 4" deep – (with canvas pipe pocket to hold supplied 1/2" Schedule 40 pipe)
 - 4) 3-1/2" nylon webbing at top.
 - 5) Brass grommets and black cotton tie lines on 1'-0" centers across top.
 - 6) 6" side hems.
 - 7) Finished size each border, 12'-0" high by 62'-0" wide.
- e. Provide 2 (two) 24 bushel, steel framed, castered, lidded Drapery Hampers to store unused soft goods.

B. Scenic Drops

1. Scenery Drop Materials
 - a. All draperies must be vat dyed and flame retarded by an immersion process.
 - b. All fabrics of their various kinds and colors shall each be from one (1) and the same dye lot.
 - c. All colors and designs are to be as selected by the Architect.
 - d. All fabric cuts must be full length with no splices. Any fabric sections with visible streaking or spotting must be cut from bolt and discarded.
 - e. All fabrics must be flame proofed using an immersion process. Spray method of flameproofing is unacceptable. This process must be in accordance with the requirements of the NFPA 701 Large and Small scale test.
 - f. This contract shall furnish flameproofing certificates giving name of flameproofing chemical used, identification of flameproofer, method of flameproofing used, and date.
2. Fabric Manufacturers
 - a. Fabric for Scrim curtain to be seamless 25'-0" wide sharktooth scrim, flame retardant, color black, as furnished by Rose Brand, 75 Ninth Avenue, New York, New York 10011
 - b. Fabric for Sky Drop to be heavyweight flame retardant muslin, 26'-8" wide, color bleached white, as furnished by Rose Brand, 75 Ninth Avenue, New York, New York 10011
3. Scenic Drop Construction
 - a. All fabric cuts must be full width with no splices.
 - b. Top hem must be reinforced with heavy jute webbing double stitched with #4 machine set brass grommets one-foot on center with 36-inch tie lines.
 - c. Side hems must be 3 inch double turned and show no selvedge.
 - d. Bottom hem must have a bottom hem with a suspended inner 5-inch heavy canvas lined pipe pocket for inserting pipe weight.
4. Scenic Drop Schedule
 - a. Scrim
 1. Scrim – to be made of flame-proofed seamless sharktooth, in the color black.
 2. Sewn flat.
 3. Finished size 25'-0" high by 55'-0" wide
 4. Bottom hem 5" deep with internal weighted pipe pocket.
 5. Heavy cotton webbing at top.
 6. Brass grommets and black cotton tie lines on 1'-0" centers across top.
 7. Provide 55'-0" bottom weight pipe – 1/2" I.D. Schedule 40 galvanized threaded and coupled with end caps
 8. Provide canvas duck storage bag with dust flap, double thick bottom and draw string closure.
 - b. Sky Drop

1. Muslin drop to be made of heavyweight flame-proofed 26'-8" wide Muslin in stock color- Bleached White.
2. Sewn flat.
3. Finished size 26'-0" high by 60'-0" wide.
4. Bottom hem 5" deep with internal weighted pipe pocket of same color as face fabric.
5. Heavy cotton webbing at top.
6. Brass grommets and white cotton tie lines on 1'-0" centers across top.
7. Provide 60'-0" bottom weight pipe – 1" I.D. Schedule 40 galvanized threaded and coupled with end caps

Bid Alternate

c. Rear Projection Sheet

1. Construct of Rosco Twin White Projection Screen 55" wide
2. Finished size 26'-0" high by 60'-0" wide.
3. Bottom hem 4" deep with internal weighted pipe pocket of same color as face fabric.
4. Reinforce the top with minimum double thick material.
5. Provide welded construction at seams, top hem and bottom pocket.
6. Provide brass grommets and white cotton tie lines on 1'-0" centers across top.
7. Side hems 2" wide with brass grommets at each vertical seam. (55" OC)
8. Provide 60'-0" bottom weight pipe – 1/2" I.D. Schedule 40 galvanized threaded and coupled with end caps