

**NOTES TO SPECIFYING ARCHITECT REGARDING  
SECTION 11066  
STAGE CURTAINS AND RELATED EQUIPMENT  
(LATERAL MOVEMENT OF STAGE CURTAINS)**

All pipe battens are installed at a fixed elevation. No equipment flies, because no loft space is available.

Pivoting leg fixtures on tracks allow the stage to be effectively reduced in width.

This arrangement is very satisfactory for middle schools and high schools with a modest budget.

For clarification or explanation telephone 1-800-548-8982; no charge of course.

**STAGE CURTAINS AND RELATED EQUIPMENT  
SECTION 11066  
(LATERAL MOVEMENT OF STAGE CURTAIN)**

**PART 1. GENERAL:**

Contractor shall furnish and install stage curtains and tracks and related equipment in accordance with the following specifications.

The front stage setting shall consist of a front stage curtain, valance, and the associated teaser. The cyclorama setting shall consist of pivoting leg curtains, rear curtains, and the associated cyclorama ceiling masking borders. Additional equipment for special effects shall also be provided as follows: olio curtain, projection screen, scrim curtain and sky drop curtain.

The stage equipment included in this section of the specification shall consist of all items listed in the equipment schedule. All stage equipment shall be supported from a system of parallel pipe battens. A single pipe batten shall correspond to each item, whether the item is a drapery, a track, or other equipment. All hardware shall be fastened to the pipe battens by means of pipe clamps or trim chains.

EQUIPMENT SCHEDULE

<u>ITEM</u>	<u>HARDWARE</u>
Valance	Pipe Batten
Front stage curtain	Bi-parting track (roped) and pipe batten
Teaser Border	Pipe batten
First row of lights	2 Pipe battens (Electrical equipment NIC)
First pair of pivot legs	Walk-along track and pipe batten with pivots, brakes and rotating pipe
Olio curtain	Bi-parting track (roped) and pipe batten
Ceiling border	Pipe batten
Second row of lights	2 Pipe battens (Electrical equipment NIC)
Second pair of pivot legs	Walk-along track and pipe batten with pivots, brakes and rotating pipe
Projection screen	Pipe batten and screen
Scrim curtain	Single track (walk-along) and pipe batten (with extra set of carriers)
Ceiling border	Pipe batten
Third row of lights	2 Pipe batten (Electrical equipment NIC)
Third pair of pivot legs	Walk-along track and pipe batten with pivots, brakes and rotating pipe
Rear curtain	Bi-parting track (roped) and pipe batten
Sky drop curtain	Single track (walk-along) and pipe batten (with extra set of carriers)

## MATERIALS:

- A. Fabrics shall be products of KM Fabrics (Greenville, SC), JL deBall (America), Dazians (New York City, NY), or Janson Industries 1-800-548-8982 (Canton, OH) or approved equal.
- B. All fabrics shall be flameproofed by vat immersion process or shall be woven from inherently flame resistant fibers. The flameproofing shall accord with standard industry practice and the requirements of all local, state and national authorities. This contractor shall supply evidence of compliance.
- C. The front curtain, valance, and teaser shall be manufactured from 54 inch cotton velour, weighing 26 ounces per running yard. The cyclorama setting consisting of leg curtains, rear curtains, and masking ceiling borders shall be manufactured from 54 inch cotton velour, weighing 21 ounces per running yard. The olio curtain shall be manufactured from the same 21 ounce quality velour. The sky drop shall be manufactured from 72 inch muslin (light blue); and the scrim drop curtain shall be manufactured from seamless sharktooth fabric.
- D. The tops of all fabric items shall be bound with 3 ½ inch reinforced inherently flame resistant vinyl webbing secured by three complete runs of number 24 glaze thread. Fullness shall be added by box pleating to the webbing, with pleats of equal size located on each vertical seam and at equal intervals between the seams not to exceed 12 inches. Brass grommets, number 2, shall be centered on each box pleat. Provide 75 percent added fullness for all front stage setting velour drapery and 60 percent fullness for the cyclorama setting and the olio curtain. The sky drop and scrim drop curtains shall be manufactured without pleated fullness. The front curtain shall have half-strip turnbacks on leading edges and trailing edges of all sections. All bottom hems of floor length drapery shall be 6 inches; other drapery items shall have 3 inch bottom hems. Side hems shall be 2 inches. The sky drop and scrim drop curtains shall have a 2 inch jute flap with grommets at 12 inch centers sewed to the back of the bottom hems. The function of the flap is to provide a convenient method of attaching a weighting pipe batten. Provide a chain pocket within the bottom hem of all full length drapery except the front stage curtain and insert number 8 zinc plated weight chain.
- E. Tracks shall be products of Janson Industries Model J9000 (Canton, OH), J.R. Clancy Model 281 (Syracuse, NY), or ADC Model 281 (Allentown, PA), or approved equal.
- F. All stage curtain tracks shall be heavy duty, ball bearing type, complete with all necessary accessories. Bi-parting tracks shall be furnished with continuous operating lines, end pulleys and ball bearing floor pulleys. Drop curtain tracks shall be equipped for walk-along operation and shall have no center lap. Curtain carriers shall incorporate all metal bodies with two wheels and each wheel shall have a race of ball bearings with nylon or neoprene tires. Carriers shall have a swivel and bumper feature to eliminate binding of successive wheels. Pivoting leg tracks shall be equipped for walk-along operation. The length of all tracks on the stage shall be 10 ft. greater than the width of the proscenium opening. Pivoting fixtures for each leg curtain shall be furnished, manufactured to fit the track and shall be provided with a rotating 1 inch aluminum pipe batten and an integral brake. The pipe shall be of length required to extend between successive masking borders. Each pair of rotating leg curtains

- G. shall be centered between adjacent ceiling masking borders or teasers. Drop curtain tracks shall be furnished with an extra set of carriers (1 per foot of track) to accommodate rental drops.
- H. Electric projection screen shall be the products of Dalite Screen (Warsaw, IN), Draper Inc. (Spiceland, IN), and Stewart Filmscreen (Torrance, CA) or approved equal.
- I. Furnish and install one heavy duty motorized projection screen with heavy duty windings, ball bearings, and limit switches preset at the factory. Screen size shall be 18 feet horizontal by 18 feet vertical. End section of screen housing shall be approximately 12 inches by 12 inches. Provide beam clamps, welded chain hangers, and pipe clamps. Provide 1 ½ inch (inside diameter) schedule 40 supporting pipe batten. This contractor shall furnish and install the screen and shall deliver the control station to the electrical contractor on the job. Connective wiring and mounting of the control station shall be performed by the electrical contractor, but the physical installation of the screen shall be made by the stage equipment contractor. The one control station shall be located on the stage side wall 60 inches above finished floor in direct line with the screen being operated, or as directed by the architect.

All work shall be executed using high standards of workmanship in fabrication and erection. The finished installation shall be complete and functional in every respect with stage drapery trimmed, leveled, and left ready for use.

#### PART 3 EXECUTION:

All items on the stage shall be installed in fixed position and shall be supported from 2 inch outside diameter aluminum pipe using sleeve splices. All fixed position pipe battens shall be suspended from 3/16 inch proof coil chain hangers with rust preventive finish. The hangers shall be connected to the roof structural system and shall be located on centers not to exceed 12 feet. Teaser and ceiling borders shall be tied directly to a pipe batten. All tracks shall be secured to a corresponding 2 inch aluminum pipe batten by means of pipe clamps or trim chains.

Physical dimensions (both horizontal and vertical) of stage drapery and hardware, including battens and tracks shall be as specified or as shown on drawings unless physical conditions of the structure and the building mechanical systems limit the dimensions. In general, the length of each pipe batten shall be 10 feet greater than the width of the proscenium opening. The curtains shall be made in sections to provide convenient points for entering or leaving the stage. The sections shall lap 20 inches or more at all points of entry except at the mid-points which shall be 36 inches. Curtain sections shall be furnished for the full length of all tracks or pipe battens except as noted otherwise. The teaser and ceiling borders shall be of sufficient size to adequately mask the stage ceilings, walls, lights and tracks from the first row. The valance shall occupy the upper 1/4 of the proscenium opening area plus necessary laps at the top and sides of the opening. The bottom of all other ceiling masking shall be located at the same elevation as the bottom of the valance. In general, the elevation of all supporting pipe battens, except for the valance batten shall be 3 feet above the top of the proscenium opening, and the vertical dimension of all stage drapery shall be determined accordingly.

All supporting pipe battens shall be connected to the building structure in a secure and approved manner. This contractor shall furnish and install any miscellaneous metal required to support the pipe battens and tracks from the roof structure. Anchoring devices and miscellaneous metal required for proper installation shall be erected during the process of the general construction at the appropriate time to coordinate with the work of other trades.

The stage equipment supplier shall provide a layout for approval by the architect and/or owner. The equipment shall be properly spaced to avoid all conflict with equipment furnished by other trades. Approval of the drawing is to facilitate cooperation among trades, but full responsibility for a properly functioning installation remains the obligation of the stage equipment contractor.

**END OF SECTION**

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**11/02/04**