



**Project: Stage Curtain Replacement
Cape Fear High School**

**Addendum No. 1
4/25/2017**

**Owner: Cumberland County Schools
801 Gillespie Street
Fayetteville, N.C. 28306**

**Bid Date: 5/5/2017
Bid Time: 3:00 p.m.**

The following changes, additions and clarifications are made to the General Conditions and Specifications for the above referenced project. **Number of pages (5)**

Change of Specifications

Replace the Specifications with the following:

SECTION 11063 – STAGE CURTAINS (Synthetic Velour)(Replacement)

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following types of stage curtains:
 - 1. Front-setting curtains including valance, front curtain, and tormentors.
 - 2. Intermediate-setting curtains including valance, intermediate curtains, and intermediate legs.
 - 3. Cyclorama-setting curtains including borders, legs, travelers, and rear curtain.
 - 4. Back curtain.

1.3 SUBMITTALS

- A. General: Submit the following according to Conditions of the Contract and Division 1 Specification Sections.
- B. Product data, installation instructions, and general recommendations, including data substantiating that materials comply with requirements.

- C. Shop drawings including plans, elevations, and detail sections of typical rigging elements. Show anchors, hardware, operating equipment, and other components not included in manufacturer's standard product data.
- D. Samples for verification purposes, 12 inches square of each fabric in color indicated and with flameproofing applied (if required).
- E. Samples for initial selection purposes in form of fabric manufacturer's standard color card, together with a 12-inch-square physical sample (any color) for each fabric required.
- F. Product certificates signed by stage curtain fabricator certifying that the products comply with specified requirements.

1.4 QUALITY ASSURANCE

- A. Fabricator/Installer Qualifications: Firm with a minimum of 5 years' experience in producing stage curtains similar to those indicated for this Project that have a record of successful in-service performance, and with sufficient production capacity to produce required units without causing a delay in the Work.
- B. Fire-Performance Characteristics: Provide stage curtains that are certified to be flame resistant according to requirements of NFPA 701. Permanently attach label to each curtain indicating manufacturer, material, size, date of manufacture, use of the drape and flame proofing data indicating curtain is permanently and inherently flame resistant. Also, fabric shall conform to NC Building Code for "Small Assembly" occupancy with "non-working stage".
- C. All drapery of the same color shall be constructed of the same dye lot. No shading or toning differences will be allowed in adjacent panels or drapes.

1.6 WARRANTY

- A. A warranty covering all labor, materials and workmanship for a period of one year after the date of final payment shall be provided. Any warranty work required shall be completed promptly and in conjunction with the production schedule if the utility of the system is affected to the point of severely affecting performances.
- B. Certification from the original fabric mill supplier shall be provided to verify that all stage drapery fabrics comply with applicable governing codes and guidelines regarding flame resistance.

1.7 PROJECT CONDITIONS

- A. Field Measurements: Check actual stage curtain openings by accurate field measurements before fabrication; show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delaying work. Field dimensions shall be the contractor's responsibility to obtain, to duplicate existing curtain sizes. Guarantee that proper sight lines are taken into consideration.

PART 2 – PRODUCTS

2.1 FRONT – SETTING FABRIC

- A. Face Fabric: IFR Synthetic Fabric, 26 ounce per yard at 54" wide inherently flame retardant synthetic polyester velour, "Prestige" by KM Fabrics of South Carolina, 1224 pile tufts per square inch, or approved equal

- B. Lining: IFR Synthetic Line Fabric: 8 ounce inherently flame retardant synthetic fabric, sewn to same fullness as face fabric: 'Janus' from Dazian Fabrics of New York or approved equal. Lining fabric shall duplicate face fabric type, such that synthetic IFR liner shall complement synthetic IFR face fabric.

2.2 INTERMEDIATE – SETTING FABRIC

- A. Face Fabric: IFR Synthetic Fabric, 26 ounce per yard at 54" wide inherently flame retardant synthetic polyester velour, "Prestige" by KM Fabrics of South Carolina, 1224 pile tufts per square inch, or approved equal
- B. Lining: IFR Synthetic Line Fabric: 8 ounce inherently flame retardant synthetic fabric, sewn to same fullness as face fabric: 'Janus' from Dazian Fabrics of New York or approved equal. Lining fabric shall duplicate face fabric type, such that synthetic IFR liner shall complement synthetic IFR face fabric.

2.3 CYCLORAMA – SETTING FABRIC

- A. Face Fabric: IFR Synthetic Fabric, 14 ounce inherently flame retardant synthetic 'Chevron 2000' by Kreiger & Co., of New York, or approved equal.
- B. Lining: IFR Synthetic Line Fabric: 8 ounce inherently flame retardant synthetic fabric, if indicated, sewn to same fullness as face fabric. Lining fabric shall duplicate face fabric type, such that synthetic IFR liner shall complement synthetic IFR face fabric.

2.4 MISCELLANEOUS

- A. Provide inserts, cabling, bolts, backing, reinforcements, fasteners, etc. manufacturer's standard units as required. All accessory fabrics to also be inherently flame retardant material in similar manner as face fabric.
- B. Replace existing light gauge chain and small gauge wire supporting all dead hung sets. Replace with industry standard ¼", Grade 30 chain, applicable properly sized beam clamps which are vibration resistant; forged ¼" anchor shackles and other applicable fasteners. Support Chain: ASTM A 413, ¼-inch size, not less than 0.276-inch material diameter.
- C. Inserts, Bolts, and Fasteners: Manufacturer's standard units.
- D. All fabrics shall comply with the following minimum guidelines:
 - 1. NFPA 701
 - 2. All fabric material shall be new and unused. Full and continuous lengths shall be used for the full height of each curtain face, with no piecing or cross-seams allowed. All drapery of the same color shall be constructed of fabric from the same dye lot.

2.5 CURTAIN FABRICATION

- A. General: Provide not less than 50 percent additional fullness for curtains, unless otherwise indicated. Provide vertical seams unless otherwise indicated. Do not use fabric cuts less than half width. Fabricate velour curtains with the nap down.
 - 1. Vertical Hems: Provide vertical hems not less than 2 inches wide, with a 1-inch tuck, and machine-sewn with no selvage material visible from front of curtain. Sew open ends of hems closed.

2. Leading Edge Turnbacks: Where specified, provide turnbacks formed by folding 12 inches of face fabric back with a 1-inch tuck and secured by sewing the turnback vertically.
 3. Top Hems: Reinforce to hems by double-stitching 3-1/2-inch-wide, heavy jute webbing to top edge with minimum 2 inches of face fabric turned under.
 4. Pleats: Provide fullness in curtains by sewing additional material into 6-inch double-stitched box pleats spaced at 12 inches o.c. along top hem reinforcing. Provide not less than No.2 brass grommets, centered on box pleats, for tie lines or S hooks.
 - a. Arrange vertical seams so that they do not fall on faces of pleats.
 - b. For Velour Curtains provide not less than No.3 grommets.
 - c. For black curtains provide grommets with a black anodic finish.
 5. Bottom Hems: For curtains that do not hang to the floor, provide hems not less than 3 inches deep with 3/4-inch weight tape. For floor length curtains, provide hems not less than 6 inches deep with 1-inch weight tape. Sew open ends of hems closed.
 6. Lining: Provide lining for each curtain in same fullness as face fabric, and finished 2 inches shorter than face fabric. Unless otherwise specified, provide lining constructed of same fiber type as face fabric. Attach lining to face fabric along bottom and side seams with 4-inch-long strips of heavy woven cotton tape.
- B. Battens: Fabricate battens from steel pipe with a minimum number of joints. As necessary for required lengths, connect pipe with a drive fit pipe sleeve not less than 18 inches long, and secure with four flush rivets, plug welds, threaded couplings, or another equally secure method. Shop-paint completed pipe battens with good quality black paint with 1-inch-wide yellow stripe at the center of each batten.

PART 3 – EXECUTION

3.1 PREPARATION

- A. Furnish layouts for inserts, clips, or other supports required to be installed by other trades to support tracks and battens.

3.2 INSTALLATION, GENERAL

- A. Install materials according to manufacturer's printed instructions and recommendations and to comply with governing regulations.
- B. Remove existing curtains and examine rigging to assure all required parts, connections, bolts, etc. are present and in good condition and working order. Replace/tighten any missing or loose remaining parts, bolts, etc.
- C. At all Curtain Systems, replace with new, the following:
- a. Support lines from the structure to the pipe battens, (and pipe batten to tracks when applicable).
- D. At traversing curtains, replace with new the following:
- a. Floor Pulleys
 - b. Traversing Ropes
- C. Clean, adjust, lubricate all operable parts (new and old) prior to hanging new curtains.

3.3 BATTEN INSTALLATION

- A. Install battens by suspending at proper heights with steel chains spaced at not more than 10 feet o.c.
- B. Secure chains either directly to structures or to inserts, eye-screws, or other devices that are secure and appropriate to substrate, and that will not deteriorate or fail with age or elevated temperatures.

3.4 TRACK INSTALLATION

- A. Batten-Hung Tracks: Install track by suspending from pipe batten with manufacturer's special pipe clamps at recommended spacing.
 - 1. Heavy-Duty Track: Do not exceed 6 feet between supports.
 - 2. Curved Walk-Along Track: Do not exceed 4 feet between supports, and provide additional supports at curves and splices.
- B. Install track for center-parting curtains with not less than a 2-foot overlap of track sections at center, supported by special lap clamps.

3.5 CURTAIN INSTALLATION

- A. Track-Hung: Secure curtains to track carriers with track manufacturer's special heavy-duty S hooks or snap hooks.
- B. Batten Hung: Secure curtains to pipe battens with minimum 5/8-inch-wide by 36-inch-long braided soft cotton tie lines.

3.6 TESTING

- A. Test and adjust operation of all traversing systems.
- B. Adjust all curtains to hang properly and uniformly. All operating curtains to function properly, safely, quietly, easily and smoothly.

END OF SECTION 11063

END OF ADDENDUM NO. 1