

SECTION 11 61 50

TELEVISION STUDIO EQUIPMENT / LIGHTING

PART 1 - GENERAL

RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and noted Divisions and Specification sections, apply to work of this section.

SUMMARY

Types of Television Studio Equipment specified in this section include the following:

Walk Along Cyclorama and Background Curtains and Track Hardware.

Extent of Television Studio Equipment to be as delineated on drawing Sheet **TV.1**, and is to be coordinated with the other equipment requirement of this division and TV Studio equipment drawings.

SUBMITTALS:

Product Data, installation instructions, and general recommendations, including data which substantiates that materials comply with requirements.

Certification that Television Studio curtains comply with requirements for flame resistance.

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.

Shop Drawings shall indicate all major components and the methods of assembly. All assemblies shall include weights, dimensions, capacities and loads imposed by all components.

Samples for initial selection in form of fabric manufacturer's 12-inch square physical sample for cyclorama and background curtain fabric required.

QUALITY ASSURANCE

Fabricator/Installer Qualifications: Firm with not less than five years of successful experience in fabrication and installation of Television Studio Equipment similar to those required for this project.

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Flame Resistance Requirements: Provide Television Studio curtains, which are certified to be flame resistant in accordance with requirements of Reg. No. A-358-NFPA 701 Small Scale approved after 10 Solvent Dry Cleanings and BOCA section 922.5.3, 1987 edition, Class II flame spread, 26 - 75. Permanently attach label to each curtain indicating treatment.

WARRANTY:

The Contractor shall guarantee all materials and workmanship furnished for a period of one year after the date of final acceptance. The Contractor shall repair or replace any and all material found to be defective within this time period.

PART 2 - PRODUCTS

ACCEPTABLE MANUFACTURERS:

Manufacturers: Subject to compliance with requirements, provide products by the following:

Integrated Lighting Systems; Tulsa, Oklahoma, (877) 325-9400,
or equal approved by the Architect.

WALK ALONG STUDIO CYCLORAMA AND BACKGROUND CURTAIN

Seamless Linoweave Cyclorama: One (1) Curtain with Height at One Foot less than the pipe grid height and 80'-0" in length, fabricated with no seams. The Cloth shall be woven from napped fabric of 91 percent cotton, 9 percent polyester. The Curtain supplied shall have the following characteristics:

Construction: The Curtain shall be fabricated with an accuracy of plus or minus 1/2" per 1'-0" height and length. The top shall be sewn with 3-1/2" jute webbing and either eyelets with "S" hooks, eyelets with rope ties, or snap swivel hooks as required for the installation. Each side shall have eyelets on approximate two-foot (2'-0") centers beginning four inches (4") from the top and bottom, and fastened through 3-1/1" jute webbing. The bottom hem of the webbing shall have a 2-1/2" hem with a separate muslin weighted pocket sewn inside this hem. Within this muslin pocket, a double no. 90 continuous lead weight shall be "tacked" sewn. Tow cords shall be furnished to transport the curtain along the track.

Color: CBS Grey

WALK ALONG STUDIO CYCLORAMA AND BACKGROUND CURTAIN (CONT'D)

Velour Background: Two (2) Curtains with Height at One Foot less than the pipe grid height and 45'-0" in length, fabricated with no pleats. The Cloth shall be woven from 16 oz velour napped fabric. Material

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can be Inherently Flame Resistant (IFR) or Treated Flame Resistant 100% cotton to withstand 10 dry cleanings. The Curtain supplied shall have the following characteristics:

Construction: The Curtain shall be fabricated with an accuracy of plus or minus 1/2" per 10'-0" height and length. The top shall be sewn with 3-1/2" jute webbing and either eyelets with "S" hooks, eyelets with rope ties, or snap swivel hooks as required for the installation. The bottom hem of the webbing shall have a 2-1/2" hem with a separate muslin weighted pocket sewn inside this hem. Within this muslin pocket, a double no. 90 continuous lead weight shall be "tacked" sewn. Tow cords shall be furnished to transport the curtain along the track.

Color: Black

Cyclorama Track and Hardware: Provide dual curtain track system around the limited perimeter of the proposed TV Studio, **Room 110**, as indicated on Sheet TV.1 of the Contract Drawings. Track shall be extruded aluminum bar having a cross section of 2" O.D. in height, 5/8" O.D. in width. The extrusion shall form an "I" Beam with an additional cross section width of 5/8" beginning 5/8" from the track top for horizontal stability. All cross section wall thickness shall be 1/8".

Track is to be supplied in the longest sections possible. Track radiuses shall be supplied in quarter circles. Bent sections shall be rolled. The sections will come in radii, 4'-6".

Carrier housing shall be of extruded aluminum with the cross section at the bottom having a 1-3/8" O.D. width, and 1" at the top giving an outward spread to properly align the wheels to the bottom track cross-section which has an angle located at the bottom cross-section to align the carrier wheels, and to keep the carriers parallel to the track. Wheels are to be constructed of nylon, and are to be assembled on ball bearings. Housing for the wheels is 1" wide with the wheels mounted within this dimension to serve as a bumper. Trim chain is to be 8" in length and is assembled through the 1/2" bottom housing extrusion, and is to be 1/8" in cross sectional thickness.

Provide brackets for attachment to pipe grid for track suspension. . See detail drawings of these brackets.

Tauting Poles: Provide One (1) Pair of tauting poles as an accessory to taut the cyclorama curtain from side to side assuring a wave-free vertical surface, in conjunction with the curtain weight, assuring a wave-free horizontal surface. Tauting poles supplied shall have the following characteristics:

Construction: Tauting poles shall be supplied at the same height as the cyclorama curtain. Poles shall be fabricated from extruded "T" Bar aluminum to a specification of 3/16" thick, by 2-1/2" across the top and 2-1/2" at the stem of the "T". Each "T" Bar is fitted with a 1-1/2" steel square tubed base and cadmium plated, one left and one right. The ends of the tubing are capped with end plugs. The "T" bar and base assemblies are factory fitted with a guy wire and turnbuckle to assure exact vertical height of the "T" bar.

Eyelet claws are used to taut the cyclorama curtain by attaching them to the tauting poles. Eyelet claw assembly consists of claw base made from 1/8" x 1" steel strap and formed in a "U" shape with notches formed to fit the pole "T" bar. Each claw is to be secured by a carriage bolt, washer and

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wig nuts. The claw itself is made from 1/4" round steel with the end formed to hook through the curtain eyelets. The other end is threaded 6", therefore, by adjusting the wing nuts through the end of the claw base, the curtain can aligned perfectly vertical.

Provide two (2) saddlebag type sand bags. Bags are to be fabricated from rigid duck cloth with plastic inserts, and shall be guaranteed against the leakage of sand. Plastic liner bags shall be fabricated as to allow the liners to be removed, filled, and reinserted, in each side of the bags through the use of Velcro fasteners. Both bags shall be wrapped and sewn with heavy-duty nylon straps to support the sand bag system. Each sand bag shall be supplied with a carrying strap.

METAL PRODUCTS

Hardware: All suspension support hardware shall be 2" muffler clamps with a 1" bar welded to the bottom and have cadmium or similarly plated track clamps. All bolts shall extend a minimum of two threads beyond the nut. Self-locking nuts are approved.

All components shall be fabricated to resist rust and corrosion. Consideration of the job site environment during installation and storage will dictate measures to insure that all equipment and metal fabrications are free of rust at the time of final acceptance. Rust shall be removed from all metal components at the time of final acceptance at **no** additional cost to the Owner. All metal components shall receive a coat of rust inhibiting primer prior to component assembly. All assemblies shall receive a finish coat of paint.

PART 3 - EXECUTION

PREPARATION

Furnish layouts for inserts, clips, or other supports required to be installed for support of tracks and battens.

INSTALLATION

General: Install materials in accordance with manufacturer's printed instructions and recommendations, and to comply with governing regulations.

Tracks:

Pipe-Hung: Install track by suspending from steel pipe grid with manufacturer's special clamps at recommended spacing, not to exceed 6'-0" on center.

Curtains:

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Track-Hung: Secure curtains to track carriers with track manufacturer's special heavy-duty "S" hooks or snap hooks.

.END OF SECTION



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MIDWESTERN STATE UNIVERSITY **PIPEGRID HARDWARE SYSTEM**

The complete grid hardware system is comprised of all necessary equipment for mounting and support of the overhead lighting equipment for the video/film industry.

The BASE BID system consists of the structural attachments necessary to support the pipe grid; electrical distribution; curtains and track. All components shall be designed and engineered for the specific loading of the building ceiling structure.

Integrity of the grid hardware system shall ultimately be the responsibility of the contractor in properly installing the system as designed.

Variations in the design during installation should be coordinated with the original design group.

Specific parameters of the components are as follows:

1. Designated structural attachments shall be installed to the building for uniform support of the grid suspension. The steel channel specified should allow for movable suspension support points as required.
2. Suspension from the structural attachments shall be made with 1/2" all-thread with all necessary hardware and length allowing leveling attachment of the grid.
3. Pipe grid is attached to the suspended all-thread with a bracket incorporating a U-bolt/muffler clamp assembly. The U-bolt shall be sized to a clamp up to a 2" O.D. pipe. The bracket is secured to the all-thread as design dictates. The U-bolt shall be secured to prevent movement of the bracket on the pipe.
4. The pipe grid utilizes steel pipe or steel tubing with a 1-1/2" I.D. Schedule 40 (2" O.D.) specification. The pipe grid is layout designed to form approximately 4' quadrants.
5. All pipe stock shall start with a smooth and unpainted surface. Pipes shall be cleaned from all rust, dirt, and oil, and then treated with a polymer black coat finish.
6. Provide necessary steel hardware fittings to lock cross pipes together, preventing any applied torque from spinning any part of the pipe system. Locking and unlocking of this hardware shall be made by a 5/8" set screw; and two set screws for the slip coupling at connecting pipes. Two pipes per each studio wall shall be attached to the wall by pipe flanges with locking set screw.