3.4 CLEANING
A. Perform the following operations immediately after completing installation:
1. Remove visible adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet tile manufacturer.
2. Remove protruding yarns from carpet tile surface.
3. Vacuum carpet tile using commercial machine with face-beater element.

3.5 PROTECTION
A. General: Comply with CRI 104, Section 1 5: "Protection of Indoor Installation."
B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer that ensures carpet tile is without damage or deterioration at the time of Substantial Completion.

END OF SECTION 09 69 00

SECTION 09 84 13 ACOUSTICAL WALL PANELS

PART 1 GENERAL

1.1 SECTION INCLUDES
A. Work of this Section includes all labor, materials, equipment, and services necessary to complete the acoustic wall panels as shown on the drawings and/or specified herein, including, but not limited to, the following:
2 1. Acoustical absorptive panels 2" thick provided by Owner and wrapped, as part of this Contract, in specified fabric.
2. Diffusive-absorptive panel.

1.2 QUALITY ASSURANCE
A. Manufacturer Qualification: At least 5 years' experience fabricating and installation comparable work, employing skilled mechanics under competent supervision for all phases of the Work.

1.3 SUBMITTALS
A. Shop Drawings/Product Data
1. Show dimensioned wall elevations with seam and joint locations, cutout sizes and locations, anchor locations, relation to adjacent work; large scale joint and mounting details; materials type, weight/thickness, design, color; and other data necessary to fabricate and install work and coordinate work with affected trades.
2 B. Samples: One 12" x 12" (minimum) panel of each panel type in selected finish, showing seam, edge and cutout conditions.
C. Certification
1. Acoustical Performance: Certified reports of acoustical performance tests conducted and/or witnessed by a recognized, independent, testing agency. Tests shall have been done by specified methods or recognized equivalent. Sound absorption tests shall be not more than three years old. Reports on earlier tests are acceptable if it can be established to the Architect's satisfaction, that they are valid indications of compliance with Project requirements.
2. Fire Hazard: Evidence of compliance with regulatory agency and specifications requirements.
D. Cleaning and Maintenance Instructions: Recommendations for Owner maintenance and cleaning per Section 01700 requirements. Identify cleaning/spotting products generically or by trade name.
E. Manufacturer Qualifications: List comparable installations with 3-year (minimum) service histories. Describe installations and give Owner/building manager names and addresses.

1.4 REFERENCES
A. ASTM C 423, Test for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
B. ASTM E 84, Test for Surface Burning Characteristics of Building Materials.

1.5 DELIVERY, STORAGE AND HANDLING
A. Allow materials to become acclimated to Project conditions before installation, if necessary to prevent sag and distortion during service life.

1.6 PROJECT CONDITIONS
A. Work areas shall be at or near ambient occupancy temperature and relative humidity.
B. Painting, dust-raising activities, and work that introduce dampness shall be completed.

PART 2 PRODUCTS
2.1 GENERAL
A. Fabricate panels to sizes and configurations indicated; attach facing materials to cores to produce installed panels with visible surfaces fully covered and free from waves in fabric weave, wrinkles, sages, blisters, seams, adhesive or other foreign matter.
1. Fabricate back mounted panels in factory to exact sizes required to fit wall surfaces based on field measurements of completed substrates indicated to receive acoustical wall panels.
B. Dimensional Tolerances of Finished Units: Overall height and width of panels plus or minus 1/16".
C. Sound Absorption Performance: Provide acoustical wall panels with minimum noise reduction coefficients (NRC) indicated, as determined by testing per ASTM C 423 for mounting type specified under individual product requirements.
2 D. Colors, Textures, and Patterns: Provide panel fabric for Owner-provided acoustical panels and for diffusive-absorptive panels.
1. Fabric to be Luna Textiles "FACET" DFA-5076 in color as selected by Architect from manufacturer's full color range.
a. 100% polyester.
b. 54" wide.
c. Meeting ASTM E-84, NFPA 701-2004 TM #1, California Technical Bulletin #117 E.

2.2 BACK MOUNTED ACOUSTICAL WALL PANELS
2 A. Owner-provided wall panels, wrapped and installed as part of Contract.
2 B. Back Mounting Accessories: Manufacturer's standard or recommended accessories for securely mounting panels of type and size indicated to substrates provided, and complying with the following requirements:
1 1. Mechanically Mounted Edge Reinforced Panels: Metal panel clip and base support bracket system mechanically attached to back of panel and the other part to wall substrate, designed to support full weight of panels; designed to allow panel removal.

2 2.3 ABSORPTIVE-DIFFUSIVE PANELS
A. RPG Diffusor Systems, Inc., 651-C Commerce Drive, Upper Marlboro, MD 20774 301-249-0044 (telephone), 301-249-3912 (facsimile), http://www.rpginc.com.
B. All components shall be Class A Fire Rated. Flame Spread / Smoke Developed Characteristics: Product components tested by independent facility according to ASTM E 84 and NFPA 255 shall have:
a. Component Flame Spread Rating: 25 (maximum)
b. Component Smoke Developed: 450 (maximum)
1 C. Panels to be provided wrapped in specified fabric.

PART 3 EXECUTION
3.1 INSTALLATION
A. General: Install acoustical wall panels in locations indicated with vertical surfaces and edges plumb, top edges level and in alignment with other panels, scribed to fit adjoining work accurately at borders and at penetrations. Comply with panel manufacturer's printed instructions for installation of panels using type of mounting accessories indicated or, if none indicated, as recommended by manufacturer.
B. Construction Tolerances
1. Variation from Plumb and Level: +/- 1/16".
2. Variation of Joints from Hairline: Not more than 1/16".
C. Anchoring to Drywall: Anchor clips to unreinforced gypsum board with toggle or Molly anchors. Anchor clips to metal drywall framing with tapping sheet metal screws.
D. Panels shall be pressed against wall and slid down engaging "Z" clips into wall brackets.
E. Remove and replace panels that are damaged and are unacceptable to Architect.

3.2 ADJUSTING AND CLEANING
A. Correct non-complying and damaged/defective Work. Replace work that cannot be satisfactorily repaired.
B. Restretch and reinstall sagging and distorted fabric and correct other defects that occurred during normal service.
C. Carefully and thoroughly clean completed work by vacuuming and/or other means. Remove soil, stains, loose threads.
D. Protect work from soiling and other damage.

END OF SECTION 09 84 13

SECTION 09 90 00 - PAINTING

PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes surface preparation and field painting of the following:
1 . Exposed interior items and surfaces.
2. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.
B. Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels.
1 .2 SUBMITTALS
A. Product Data: For each paint system specified.
1 . Material List: Provide an inclusive list of required coating materials. Indicate each material and cross-reference specific coating, finish system, and application. Identify each material by manufacturer's catalog number and general classification.
2. Manufacturer's Information: Provide manufacturer's technical information, including label analysis and instructions for handling, storing, and applying each coating material proposed for use.
3. Certification by the manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs).
B. Samples of each color and material to be applied in specified sheen.

PART 2 - PRODUCTS
2.1 PAINT MATERIALS, GENERAL
A. Material Quality: Provide manufacturer's best-quality paint material of the various coating types specified. Paint-material containers not displaying manufacturer's product identification will not be acceptable.
1 .Proprietary Names: Use of manufacturer's proprietary product names to designate colors or materials is not intended to imply that products named are required to be used to the exclusion of equivalent products of other manufacturers. Furnish manufacturer's material data and certificates of performance for proposed
2 B. Colors: Match colors indicated by reference to manufacturer's color designations.
C. Paint Color Schedule: see Sheet A-4.

PART 3 - EXECUTION
3.1 PREPARATION
A. General: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of the size or weight of the item, provide surface-applied protection before surface preparation and painting.
1 . After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.
B. Cleaning: Before applying paint or other surface treatments, clean the substrates of substances that could impair the bond of the various coatings. Remove oil and grease before cleaning.
1 . Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.
C. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition and as specified.

3.2 APPLICATION
A. General: Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied.

3.3 CLEANING
A. Cleanup: At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from the site.
1. After completing painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping. Be careful not to scratch or damage adjacent finished surfaces.

3.4 PROTECTION
A. Protect work of other trades, whether being painted or not, against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Architect.
B. Provide "Wet Paint" signs to protect newly painted finishes. Remove temporary protective wrappings provided by others to protect their work after completing painting operations.
1 . At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces. Comply with procedures specified in PDCA Pl.

3.5 INTERIOR PAINT SCHEDULE
A. Gypsum Board: Provide the following finish systems over interior gypsum board surfaces:
1. Low-Luster, Acrylic-Enamel Finish: 2 finish coats over a primer.
a. Primer: Latex-based, interior primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils (0.031 mm).
b. First and Second Coats: Low-luster (eggshell or satin), acrylic-latex, interior enamel applied at spreading rate recommended by the manufacturer to Enamel.

END OF SECTION 09 90 00

SECTION **09 95 00 WALL COVERINGS**
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes the following:
1. Adhered bulletin board material

1.2 SUBMITTALS
A. Product Data for each product indicated.
B. Shop Drawings: Include location and extent of each wall covering type, seam locations and termination points.
C. Samples: For each for each wall covering and for each color and texture required. Include sample sets with specified treatments applied.
E. Maintenance data.

PART 2 - PRODUCTS
2.1 BULLETIN BOARD WALL COVERING
A. Products: Subject to compliance with requirements, provide the following:
1. Forbo Flooring Systems, Bulletin Board resilient tackable surface sheet material
a. Color and Pattern: Color as selected by the architect from the manufacturers standard color palette.
B. Total Weight: ¼" Gauge
C. Wall Covering Standard: Class B when tested in accordance to ASTM E 84/NFPA 255, FSC1 - 54; SD - 316 when tested in accordance to CAN/ULC, S102, Standard Test Method for Flame Spread Rating and Smoke
D. Wall Covering Durability Standard: Meets or exceeds all technical requirements as set forth in ASTM
E. 2034, Standard Specification for Linoleum Sheet Flooring. Type I.
F. Backing Material: Jute
2 G. Limited 5-year warranty.
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PART 3 - EXECUTION
3.1 INSTALLATION
A. Preparation: (Direct Wall Application)
1. The substrate shall be sound, smooth, flat, permanently dry, clean and free of all foreign materials including, but not limited to, dust, grease, oils, solvents, old adhesive residue, or any contaminant that could interfere with a secure bond., including mold, mildew, oil, grease, incompatible primers, and dirt.
2. Prepare substrates to achieve a smooth, dry, clean surface free of flaking, unsound coatings, cracks, and defects.
3. Use Forbo L 910W adhesive. Use and 1/16" x 1/16" , 1/16" square notch trowel. Spread Rate: Approximately 150 square feet/gallon.
4. Refer to Forbo Flooring's Installation Guide for complete installation guidelines.
5. The permanent HVAC must be fully operational, controlled and set at a minimum of 68 degrees Fahrenheit for a minimum of seven days prior to, during, and seven days after the installation.
6. The material (including adhesive) should be conditioned in the same manner, at 68 degrees Fahrenheit for a minimum of 48 hours prior to the installation.
B. Cut panels in roll number sequence. Change run numbers at partition breaks and corners only.
C. Install seams vertical and plumb, with no horizontal seams.
D. Remove excess adhesive at finished seams, perimeter edges, and adjacent surfaces using cleaning methods recommended by wall covering manufacturer. Replace strips that cannot be cleaned.

END OF SECTION **09 95 00**

SECTION 10 22 13 WIRE MESH PARTITIONS

PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes the following:
1 . Wire mesh partitions
2. Wire mesh door and hardware

1.2 SUBMITTALS
A. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Detailed specification of construction and fabrication.
2. Manufacturer's installation instructions.
3. Preparation instructions and recommendations.
4. Storage and handling requirements and recommendations.
B. Shop Drawings: Indicate dimensions, description of materials and finishes, general construction, specific modifications, component connections, anchorage methods, hardware, and installation procedures, plus the following specific requirements:
1. Provide location template drawings for items supported or anchored to permanent construction.
Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
D. Keys: Submit keys for door locks to Owner at Substantial Completion of the project.

1.3 QUALITY ASSURANCE
A. Design Requirements:
1. Design partition system to provide for movement of components without damage, undue stress on fasteners or other detrimental effects, when subject to design loads.
2. Design system to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.

PART 2 - PRODUCTS
2.1MANUFACTURERS
A. Acceptable Manufacturer: SpaceGuard Products, which is located at: 711 S. Commerce Dr.; Seymour, IN 47274; Toll Free Tel: 800-841-0680; Tel: 812-523-3044; Email: sales@spcgrd.com Web: www.spaceguardproducts.com

2.2 PRODUCT
A. Product: Series FordLogan as manufactured by SpaceGuard Products.
2 B. Fabrication:
1. Wire Mesh: #10 W&M Gauge .130 inch (3.3 mm), triple crimped bright basic wire 1-1/2 inches (38 mm) diamond mesh pattern.
2. Horizontal Frames: 1 inch (25 mm) by 1/2 inch (13 mm) - 12 gauge .1046 inch (2.657 mm) roll formed channels tenoned at ends. Series of holes for through bolting of top cap bar.
3. Vertical Frames: 1-1/4 inches (32 mm) by 5/8 inch (16 mm) - 14 gauge .0747 inch (1.897 mm) roll formed "C" type channels mortised at ends. Series of slotted holes for securing to adjacent panels and post.
4. Center reinforcement bar: Two 1 inch (25 mm) by 3/8 inch (9.5 mm) - 12 gauge .1046 inch (2.657 mm) roll formed channels riveted together through mesh 42 inches (1067 mm) above finished floor on 7 feet (2134 mm), 8 feet (2438 mm), and 9 feet (2743 mm) high panels. Four channels are used on 10 feet (3048 mm) and 12 feet (3658 mm) high panels.
5. Panels: Consisting of the above horizontal and vertical members mortise and tenon at corners with diamond mesh securely clinched to frames. Center reinforcement bars are attached.
6. Hinge Doors: Constructed of the same materials as panels, with 1-1/4 inches (32 mm) by 1/8 inch (3 mm) flat steel bar cover on sides. Complete with all necessary mounting and locking hardware to install and operate.
a. Jambs: Two 1-1/4 inches (32 mm) by 5/8 inch (16 mm) - 14 gauge .0747 inch (1.897 mm) roll formed "C" type channels.
b. Hinges: Three 3 inches (76 mm) by 3 inches (76 mm) butt hinges; welded to door framing and bolted to jamb.
2 c. Padlock Arrangement: 4 inches (102 mm) by 6 inches (152 mm) cover plate with 1-1/2 inches (38 mm) lug securing into lock opening.
d. Cylinder Lock: Mortise type with keyed different cylinder operated by key outside and recessed knob inside.
e. Hardware: 1/4 inch (6 mm) hex head bolts and nuts for all panel to panel, panel to door, and panel/door to post connections. Field bracing, floor and wall anchors by erector.
f. Finish: Standard
2 g. Color: Standard Gray

2.1 FABRICATION
A. Fabricate items with joints tightly fitted and secured.
B. Grind exposed welds smooth and flush with adjacent finish surface. Ease exposed edges to small uniform radius.
C. Make exposed joints flush and hairline.
D. Provide components required for anchorage. Fabricate anchorage and related components of same material and finish as framing members.

PART 3 - EXECUTION
3.1 INSTALLATION
A. Comply with manufacturer's recommendations.
B. Install partitions and gates plumb and level, accurately fitted, properly aligned, securely fastened, and free from distortion or detects.

C. Install field bracing as necessary (not furnished by mesh partition manufacturer) to provide rigid, secure installation.

3.2 ADJUSTING
A. Adjust moving components for smooth operation without binding.
B. Adjust locks to provide smooth and secure operation.

3.3 PROTECTION
A. Protect installed products until completion of project.
B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 10 22 13

2 **SECTION 11 13 20 PROJECTION SCREEN/ WHITEBOARD**

PART 1 GENERAL
1.1 SCOPE OF WORK
A. Work under this section shall include the furnishing of all labor, materials, tools, transportation, services, and supervision necessary to complete the installation of the Projection Screen/Whiteboard.

1.2 JOB CONDITIONS
A. Coordinate layout and installation of Projection Screen/Whiteboard with other adjacent work, including structural, light fixtures, HVAC equipment, plumbing, and fire-suppression elements.
B. Provide blocking or other components necessary for a sound installation.
C. Verify all conditions on job site applicable or pertaining to this work.

1.3 SHOP DRAWINGS AND SAMPLES
A. Manufacturer's data sheets
B. Shop Drawings showing installation method and blocking and/or other work required for installation.

1.4 GUARANTEE
A. For projection screen/whiteboard: Three-year limited warranty.
C. All labor provided under this contract, unless otherwise noted, shall be guaranteed for a period of one (1) year following the date of final acceptance of the installation.

PART 2 PRODUCTS
2.1 GENERAL
A. All materials shall be new and of first quality.
2.2 PROJECTION SCREEN/WHITEBOARD
A. Provide Whiteboard for projection and dry-erase as manufactured by Epson or approved equal.
1. Model: V12H468001
2. UPC: 0 10343 87848 8
3. Size: 96"
4. Frame: Aluminum
5. Construction: Steel-backed honeycomb lamination
6. Surface material: Egan Versa Surface; combination projection and dry-erase surface; stylus friendly
2.3 PROJECTION SCREEN/WHITEBOARD WALL MOUNT
A. Provide wall mount as manufactured by Epson or approved equal.
1. Model: V12H457010
2. Type: 16:10 Height-adjustable wall mount

PART 3 - EXECUTION
3.1 INSTALLATION
A. Install projection screens at locations indicated on Drawings in accordance with Manufacturer's written instructions. Securely anchor cases to supporting substrate, plumb and level, in order to provide smooth function and properly aligned viewing surface.
B. Replace any parts, accessories or entire assemblies, which are defective or are damaged during installation.
C. Protect projection screens after installation to avoid damage and soiling. Repair or replace accessories, parts, or entire assemblies if damaged by work of other trades.

3.02 CLEANING
A. After completion of the installation, remove all trash, debris, tools and other materials related to the Work of this Section and dispose of legally.

END OF SECTION 11 13 20

SECTION 11 61 33 VARIABLE ACOUSTIC CURTAIN SYSTEMS

PART 1 GENERAL
1.1 SCOPE OF WORK
A. Work under this section shall include the furnishing of all labor, materials, tools, transportation, services, and supervision necessary to complete the installation of Variable Acoustic Curtains. Work is comprised of, but not limited to, the following principal items:
1. Curtain tracks and accessories,
2. Variable acoustic curtains,

1.2 JOB CONDITIONS
A. Coordinate layout and installation of rigging with other adjacent work, including structural, light fixtures, HVAC equipment, plumbing, and fire-suppression elements.
B. Verify all conditions on job site applicable or pertaining to this work.

1.3 SHOP DRAWINGS AND SAMPLES
A. Manufacturer's data sheets
B. Fabric Samples: Submit a minimum of three (3) sets of samples of all curtain materials as specified herein or in full range of manufacturer's colors.

1.4 GUARANTEE
A. All labor and materials provided under this contract, unless otherwise noted, shall be guaranteed for a period of one (1) year following the date of final acceptance of the installation.

PART 2 PRODUCTS
2.1 GENERAL
A. All materials shall be new and of first quality.

H-WING 2nd FLOOR
LES PAUL STUDIO
RAMAPO COLLEGE OF NEW JERSEY

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HOLZMAN MOSS BOTTINO ARCHITECTURE
ACOUSTIC DIMENSIONS

ISSUE:	7/29/2014
1 REVISION 1 - ISSUED FOR CONSTRUCTION	9/23/2014
2 REVISION 2 - ISSUED FOR BID	10/6/2014

SPECIFICATIONS

A-7

2.1 VARIABLE ACOUSTIC CURTAIN TRACK ASSEMBLY

A. Provide Model 101S as manufactured by H & H Specialties Inc., South El Monte, CA., or approved equal.

1. Track: 16 gauge galvanized steel, roll-formed to 1-3/4" wide X 2" high with continuous slot in bottom. Provide unspliced in lengths up to 26'.

2. Suspend track with two-piece clamp hanger formed from 11 gauge steel. Provide 2' overlap at center rigidly separated by two overlap clamps. Install end stop with cord support at each overlapping track end Where lengths exceed 26', connect tracks with 12" long, two-piece splicing clamp of 12 gauge steel.
3. Provide single carriers, spaced on 12" centers, constructed of two polyethylene wheels fastened parallel to formed steel carrier body with swivel hook for attachment of curtain.
4. Master carriers shall be 4-wheel assemblies with formed steel bodies and two swivel hooks each. Connect to operating line with two machined steel cord clamps captured within each body.
5. Single and double end pulleys shall clamp securely to the underside of the track channel and shall contain 2-1/2" diameter sheaves enclosed in steel housings to prevent operating line from escaping the grooves. Nylatron GS sheaves shall be molded around shielded and greased ball bearings and grooved to accommodate up to 1/4" operating line.
6. Provide floor block in 12 gauge steel housing containing 4" Nylatron GS shielded ball bearing sheave. Sheave axle shall lock at any point within 9" vertical slots to allow tension adjustment of operating line.
7. Black operating line shall be 1/4" diameter, stretch-resistant rope with spun polyester outer jacket braided over solid aramid core.
8. All steel components shall be zinc plated to resist corrosion.

B. All track and components for Variable Acoustic Curtains shall have a finish as selected by the Architect from the manufacturer's standard finishes.

2.3 VARIABLE ACOUSTIC CURTAIN FABRIC

A. Refer to drawings for new curtain sizes and quantities. All fabrics shall be first quality. All fabrics shall be produced from one dye lot per color. Color quality shall be consistent throughout, with no visible streaking, striping, or spotting.

B. Curtains to have 100% fullness.

C. Fabric for variable acoustic curtains shall be 25-ounce inherently fire-retardant synthetic velour. Color shall be selected by Architect from manufacturer's full color range. Approved fabric manufacturers:

1. I. Weiss & Sons
2, KM Fabrics
3. JB Martin

D. Fabric shall be manufactured to meet the BIFMA F-1-1978, SC-191-53 Class 1 California, UFAC Class 1.

PART 3 EXECUTION

3.3 FABRICATION OF CURTAINS

A. All thread used in sewing these curtains and draperies shall be cotton mercerized, and shall be the color of the fabric on which it is used, both in the needle and bobbin. The needle thread shall not be lighter than #16 in size, and the bobbin thread shall not be lighter than #24 in size. The same size thread shall not be used in both needle and bobbin. Double rows of stitching shall be used to sew the fabrics to the webbing. Bad stitching, missed stitches, puckered seams and hems, etc., will not be acceptable. All seams shall be sewn in straight and even lines.

B. All panels of fabric shall be of a single piece for the entire height of the curtain in which it is used. No splicing of fabric to achieve a desired length of cloth will be acceptable.

C. Unless otherwise noted, all pile fabrics shall have pile running up.

D. Bottom hems of all curtains shall be 6" and shall be weighed with a #6 galvanized pump chain. This chain shall first be encased within a heavy canvas pocket, with the pocket being sewn inside the hem at the top, thus keeping the chain from resting on the bottom of the hem.

E. After installation in the building in their proper positions, all curtains shall be thoroughly brushed to remove all loose dust, visible dirt, fabric lint, loose threads, etc. Wrinkles will be permitted to fall out naturally.

3.4 CLEARANCES

A. Entire curtain system and components shall, when completed, be free running and free from binding, rubbing, bumping, etc., in all respects.

B. Trim all curtains or draperies that are operated on traveler tracks at the drapery trim chain. Curtains shall be trimmed ¼" above the finished floor with a tolerance of +/-1/8".

3.6 CLEANING OF THE SITE

A. Remove from the site all rubbish, trash, discarded packing materials, cartons, and other debris caused by daily operations. Upon completion of work, the entire area of work shall be left in broom and mop clean condition.

END OF SECTION 11 61 33

SECTION 13 05 00 - BROADCAST RECORDING AND PRODUCTION ENCLOSURES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1 . Broadcast Recording and Production Enclosure Components to match existing production enclosure.

1.2 SUBMITTALS

A. Product Data: For each type of enclosure indicated. Include details of construction relative to materials, dimensions of individual components, profiles, finishes, rated capacities, and accessories.

B. Shop Drawings: Show details of fabrication and installation of enclosure. Include plans, elevations, wall and ceiling sections, installation details, and attachments to other work. Indicate finishes, materials, and joinery methods.

1 . Wiring Diagrams: Details of wiring for lighting, electric and data systems. Differentiate between manufacturer-installed and field-installed wiring.

C. Samples: Not less than 3 inches (80 mm) square, of each finish including walls and ceilings.

D. Maintenance Data: For enclosure finishes to be include in maintenance manuals.

1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications: Engage a firm experienced in manufacturing enclosures similar to those indicated for this Project and with a record of successful in-service performance.

B. Source Limitations: Obtain components through one source from a single manufacturer.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Comply with manufacturers written instructions for minimum and maximum temperature requirements for storage.

B. Handle and store materials and equipment in a manner to avoid significant or permanent deflection of components.

1.5 PROJECT CONDITIONS

A. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others except when permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated.

B. Field Measurements: Verify location by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1 . Established Dimensions: Where field measurements cannot be made without delaying the Work, establish opening dimensions and proceed with fabricating components without field measurements. Coordinate wall, floor, and ceiling construction to ensure actual opening dimensions correspond to established dimensions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Available Manufacturers: Subject to compliance with requirements. Provide a Broadcast Recording and Production Enclosure as manufactured by ETS-Lindgren Acoustic Systems or approved equal.

2.2 MATERIALS

A. Panel-Built, or Modular Components: Manufacturer's standard, prefabricated, demountable, panelized system.

B. Wall Frame: Inverted "C" channel shall provide an isolation barrier between floor and wall panel. Channel shall be 4""wide by 4" deep and be constructed of 16 gauge steel.

C. Joiners: The wall and roof panels shall be joined with "H" type joiners. "H" joiners shall be minimum 16 gauge, cold-rolled, steel construction and shall be welded to form an acoustical labyrinth which ensures the acoustical integrity at the joint. Light gauge roll formed sections is not acceptable.

D. Walls: The walls shall be constructed of 4" Type 8 (unless otherwise noted) panels. Type 8 panels shall be fabricated with 16 gauge, galvanized-bonderized, cold-rolled steel outer skin and 22 gauge, perforated, galvanized-bonderized, cold-rolled steel inner skin. Perforations shall be 3/32" diameter holes on 3/16" staggered centers providing a 23% open area. Type 8 panels shall be filled with 3" of acoustical insulating material, a steel septum and a 1" gypsum board barrier. Fill material shall have been laboratory tested in accordance with the procedures of ASTM E84 to confirm fire hazard ratings of not greater than: Flame Spread 20, Fuel Contribution 1 5, Smoke Density 20. Internal framing members shall be formed 16 gauge, galvanized bonderized, cold-rolled steel. All welds shall be spaced at 4" to 6" intervals and ground smooth on all exposed surfaces. Wall panels shall weigh a minimum of 12 pounds per square foot.

F. Doors: The 3-1/2" thick, clear opening doors will be fabricated similar to the wall panels with the 16 gauge, galvanized-bonderized, cold-rolled steel solid face sheets. Doors will be pre-hung and will be either left, right, inswing or outswing as required with a tapered threshold. Door shall be hinged with surface mounted cam lift hinges to prevent interruption of the dual, 3%"continuous magnetic seals. Cam lift hinges will be precision molded, as manufactured by Brookfield or approved equal. Hinges will be self lubricating nylon allowing no metal-to-metal contact. Each cam lift hinge is self-closing. Doors will be supplied with push/pull door handles as manufactured by Ives or approved equal, mounted on custom designer push plates. No latches required for door.

1. Provide rack and pinion type door closure, with aluminum body, model number 1604-AL, as manufactured by Norton or approved equal; meets ANSI/BHMA and Federal FF-H-1 21 0 or FF-H-1 21 c specifications.
2. Door shall have a 20" by 60" double-glazed acoustical safety glass window. Each pane shall be acoustical safety glass unless otherwise specified and shall be trimmed with .125" steel frames. Desiccant material shall be installed between windowpanes to prevent condensation.

I. Electrical: All electrical components shall be pre-wired using %" rigid conduit and be recessed in the walls. The electrical components shall be U.L. approved and wired to N.E.C. codes and standards.

K. Finishes: Panels shall be finished with electrostatically charged powder coat paint cross linked in an oven using no polluting VOC (volatile organic compounds) suitable for industrial, commercial and institutional applications. Color to match finish on existing panels.

N. Fabric Wrapped Panels: Fabric covered interior absorption panels to match characteristics and finish material on existing panels.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.

1 . Do not proceed with installation until unsatisfactory conditions have been corrected.

B. Examine roughing-in for electrical systems to verify actual locations of electrical connections before installation.

C. Examine walls, floors, and ceilings for suitable conditions where work is to be installed.

D. The enclosure may be installed by factory trained personnel or be erected by facility personnel with factory supervision. Installation area will be free and clear of all obstructions. Foundation will be level within %" over 1 0". All final utility connection will be the responsibility of the Contractor.

3.2 INSTALLATION

A. Install level and plumb, according to manufacturer's written instructions and roughing-in drawings .

3.3 WARRANTY

A. The enclosure is warranted to be free from defects in material and craftsmanship, under normal service and use, for a period of one year from the date of installation .

3.4 PROTECTION

A. Secure installed to ensure that they will not be used before Substantial Completion.

END OF SECTION 13 05 00

SECTION 26 51 00 INTERIOR LIGHTING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Interior lighting fixtures, tracks, lamps, and ballasts.

1.2 SUBMITTALS

A. Product Data: For each type of lighting fixture, arranged in order of fixture designation. Include data on features, accessories, finishes, and the following:

B. Indication of fixture mounting conditions and trim type.

C. Ballast, including BF; Drivers, including mA and dimming protocol; Transformer, including dimming protocol.

G. Product Certificates: For each type of ballast or driver for bi-level and dimmer-controlled fixtures, from manufacturer. Certification that ballast or driver has been fully tested with dimmer or control device and demonstrates compatibility.

I. Operation and Maintenance Data: For lighting equipment and fixtures to include in emergency, operation, and maintenance manuals.

J. Provide a list of all lamp types used on Project; use ANSI and manufacturers' codes.

K. Warranty: Sample of special warranty.

1.3 QUALITY ASSURANCE

A. Luminaire Photometric Data Testing Laboratory Qualifications: Provided by manufacturers' laboratories that are accredited under the National Volunteer Laboratory Accreditation Program for Energy Efficient Lighting Products. All LED lighting must show compliance with LM79 fixture testing procedures.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

C. Comply with NFPA 70.

D. FM Global Compliance: Lighting fixtures for hazardous locations shall be listed and labeled for indicated class and division of hazard by FM Global.

1.4 COORDINATION

A. Coordinate layout and installation of lighting fixtures and suspension system with other construction that penetrates ceilings or is supported by them, including HVAC equipment, fire-suppression system, A/V system, and partition assemblies. Contractor shall be responsible for a fully supported system whether shown on plans or not. Contractor must advise Architect if/when conflicts arise .

1.5 WARRANTY

A. Warranty Period: One year from date of substantial completion.

D. Special warranty for LED Lamps, Luminaires and drivers (integral and remote): Five years from date of substantial completion.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS FOR LIGHTING FIXTURES AND COMPONENTS

A. LED Fixtures: Comply with UL. Tested according to IES LM-79 and LM-80 specifications.

B. Provide mounting hardware as required for a complete installation.

C. Verify the ability to orient adjustable and directional fixtures as indicated on the drawings prior to the procurement of fixtures. Ensure there are no conflicts.

D. Materials shall be new and free from defects that in any manner may impair the character, appearance, strength, durability and function. Materials shall be effectively protected from any damage from the time of fabrication wutil final acceptance of the work.

E. Provide light fixtures complete with lamps, ballasts, and accessories as required, as shown on the Drawings, in the Lighting Fixture Schedule, and as required by the Documents.

F. Fixtures shall carry labels of a nationally-recognized testing laboratory such as UL., C.U.L., E.T.L or CSA. Such labels shall be permanently attached in a conspicuous location that does not affect fixture performance or aesthetics.

G. Fixtures shall carry labels identifying the manufacturer, model number, and serial number. Such labels shall be permanently attached in a conspicuous location that does not affect fixture performance or aesthetics.

H. Fixtures shall be completely wired at the factory.

2.2 ELECTRICAL COMPONENTS

A. Electrical components shall carry labels of a nationally-recognized testing laboratory, such as U.L., C.U.L., or E.T.L., shall be of substantial construction, and shall meet or exceed industry standards and trade practices.

2.3 DRIVERS FOR LED LUMINAIRES

A. Comply with ANSI/NFPA 70, and UL 8750.

2.5 TRACK AND LIGHTS

A. “Hornet High Power” track and LED track head as manufactured by Amerlux LLC.

B. Track: Amerlux track for “Hornet High Power”

1. Lengths: as indicated on Drawings.
2. Voltage: 120 V for compatibility with diming system.
3. Finish as selected by Architect form manufacturer's standard finishes.

C. Track Heads: Amerlux HORNET-HP-H-21-LED-E-XX-TEK-120VWF-3000-SNAH-CB-DIM-ELV-ELV

PART 3 - EXECUTION

3.1 INSTALLATION

A. Lighting fixtures:

1. Set level, plumb, and square with ceilings and walls unless otherwise indicated.
2. Install lamps in each luminaire.
3. Install items in conformity with standard trade practices and Manufacturer's instructions. Position all items accurately as indicated in the Drawings, and true to plumb line and level. Maintain maximum headroom and clearance at all points.
4. Consult and coordinate work with trades doing adjoining work.
5. Mount all fixtures so as to maintain the fixtures' full range of motion.
6. Where noted on the drawings, the exact location of fixtures shall be confirmed in the field with the consultation of the Lighting Designer and the Architect prior to installation.
7. Many fixture locations are determined to provide maximum performance and accessibility for maintenance. When field conditions require fixtures to be relocated, it is the Contractor's responsibility to notify the Architect and Lighting Consultant prior to installation.
8. Install the specified lamps prior to the focusing sessions and project completion, and in accordance with the specific lamp requirements stated below.
8. Protect lighting equipment from paint, dirt, and debris during construction.
10. Upon completion of the Work, fixtures shall be cleaned and be free of fingerprints, dust, or any debris.

END OF SECTION 26 51 00

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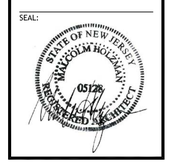


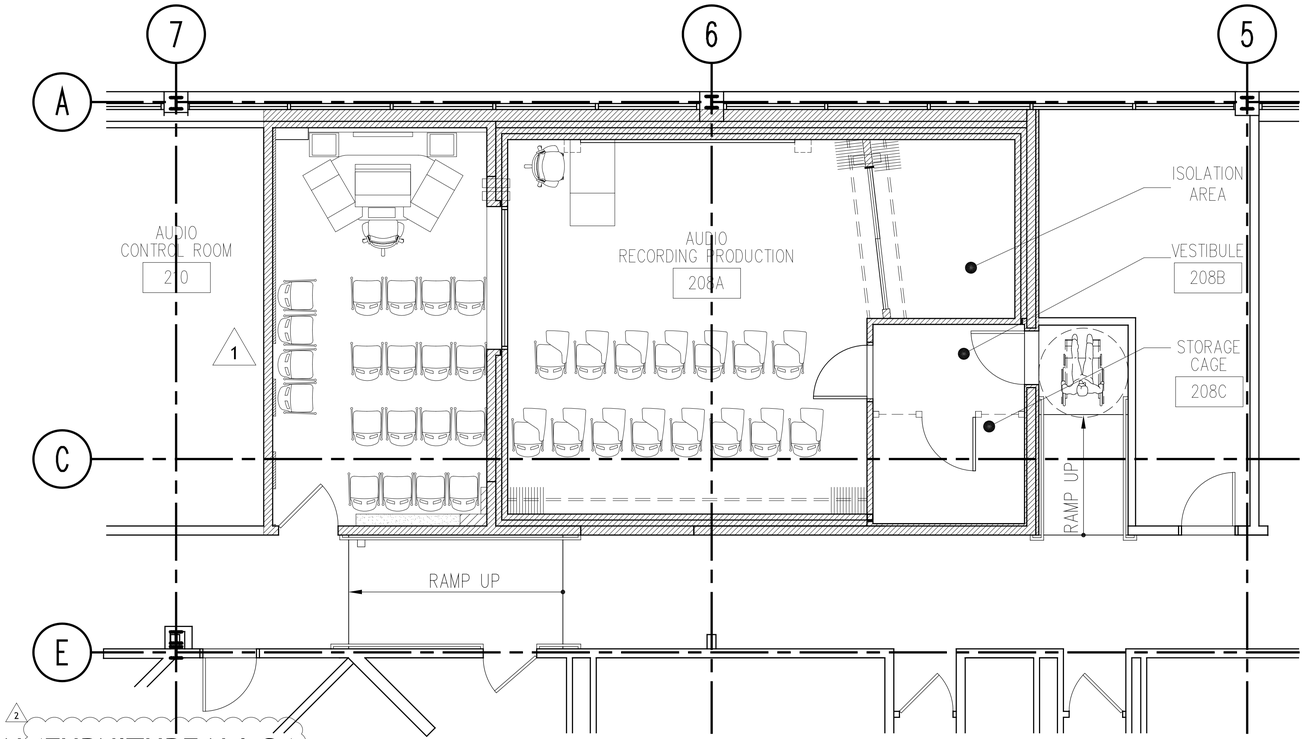
HOLZMAN MOSS BOTTINO ARCHITECTURE

ACOUSTIC DIMENSIONS

ISSUE:	7/29/2014
1 REVISION 1 - ISSUED FOR CONSTRUCTION	9/23/2014
2 REVISION 2 - ISSUED FOR BID	10/6/2014

SPECIFICATIONS

A-8



1 FURNITURE PLAN (FURNITURE N.I.C.)

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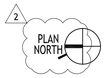

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FURNITURE PLAN

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