Addendum No. 2
Roosevelt Hall Interior Renovation – Brooklyn College
Project No.: BY600-006

This Addendum is for the purpose of conveying the below Documents and is hereby made part of said Bid to the same extent as though it were originally included therein.

A. **Project Manual:**
   1. Table of Contents: see attached revised Table of Contents.
   2. Bid Form: see attached revised Bid Form.

B. **Specification Sections:**

   **Add the following Spec Sections to the Project Manual:**
   1. Spec Section 055923 – Chain Link Fencing
   2. Spec Section 116115 – Adjustable Acoustics

   **See attached revised Spec section, as follows:**
   1. Spec Section 055923 – Remove and replace Spec Section 323113 with the attached Spec Section 055923.

C. **Drawings:** See attached revised drawings as follows:

   **Demolition Drawings:**
   1. DM-101
   2. DM-102
   3. DM-201
   4. DM-202

   **Architectural Drawings:**
   5. A-102
   6. A-202
   7. A-401
   8. A-403
   9. A-404

   **Electrical Drawings:**
   10. E-202
   11. E-211
   12. E-301
   13. E-502

   **Mechanical Drawings:**
   14. M-402

D. **RFIs**
   1. See attached responses to RFI PB-101 through PB-115.
All other terms and conditions of the Contract Documents shall remain the same except as modified by this Addendum No. 2.

Acknowledgment of Receipt for Addendum No. 2.

By signing the line below, I am acknowledging that all _____ pages of Addendum #2 have been received, reviewed and understood, and will be incorporated into the bid price submitted.

This signature sheet must be attached to the Bid Form for consideration. Failure to include this bid acknowledgement may render your bid non-responsive.

NAME OF BIDDER:

_________________________________________  ________________________________  _____________
Print Name                                      Signature                                   Date

_________________________________________
Company Name

Hill International

Hill International, Inc.
One Penn Plaza, Suite 3415
New York, New York 10119
(212) 244-3700
BID FORM
CUNY PROJECT NO. BY600-006
BROOKLYN COLLEGE
INTERIOR RENOVATION OF ROOSEVELT HALL

Bid of _______________________________ (hereinafter referred to as "BIDDER") a corporation organized under the laws of the State of ________________________, submitted to Hill International, Inc. (hereinafter referred to as "Hill").

1. The undersigned BIDDER proposes and agrees that in the event this Bid is accepted to (1) enter into an agreement with Hill in the form included in the Contract Documents; (2) perform and furnish all Work as specified or indicated in the Contract Documents for the Bid Price, within the Bid Terms indicated in this Bid, and in accordance with the other terms and conditions of the Contract Documents.

2. BIDDER accepts all of the terms and conditions of the Invitation to Bid and Instructions to Bidders including, without limitation, those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for sixty days after the day of Bid opening, unless otherwise extended. BIDDER will sign and deliver the required number of counterparts of the Agreement with the Bonds, insurance, and other documents required by the Bidding Requirements within five days after the date of Hill's Notice of Award.

(a) BIDDER has examined and carefully studied the Bidding documents and the following Addenda, receipt of which is hereby acknowledged: (List Addenda by Addendum Number and Date):

<table>
<thead>
<tr>
<th>Addendum</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(b) BIDDER has visited the site(s) and become familiar with and is satisfied as to the general, local and site conditions that may affect cost, progress, performance and furnishing of the Work.

(c) BIDDER is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress, performance and furnishing of the Work.

(d) BIDDER is aware of the general nature of the Work to be performed by Hill and others at the site that relates to Work for which this Bid is submitted as indicated in the Contract Documents.

(e) BIDDER has correlated the information known to BIDDER, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents and all additional examinations investigations, explorations, tests, studies and data with the Contract Documents.
(f) BIDDER has given Hill written notice of all conflicts, errors, ambiguities or discrepancies that BIDDER has discovered in the Contract Documents and the written resolution thereof by Hill is acceptable to BIDDER, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.

(g) This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group association, organization or corporation; BIDDER has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; BIDDER has not solicited or induced any person, firm or corporation to refrain from bidding; and BIDDER has not sought by collusion to obtain for itself any advantage over any other Bidder or over Hill.

3. (a) The Agreement, if awarded by Hill, shall be to the lowest responsible responsive bidder based upon the **TOTAL LUMP SUM BID AMOUNT** in the space provided below. BIDDER shall include in its Total Lump Sum Bid Amount the complete cost of performing the Work, whether or not explicitly or fully described in the description of the base Bid items. **WITH RESPECT TO ADD ALTERNATES, IF ANY, HILL RESERVES THE RIGHT TO AWARD OR NOT TO AWARD SUCH WORK TO THE LOW BIDDER. HILL WILL ADDRESS WHETHER THERE WILL BE ANY ADD ALTERNATES IN AN ADDENDUM TO THE BID DOCUMENTS.** All prices shall include all labor, materials, equipment, services, insurance, bonds, overhead and profit for complete performance of the Work. In the event that two or more BIDDERS have the lowest bid, award will be made at the sole discretion of Hill. Hill will take into account the BIDDER’S qualifications, experience and capacity to perform the Work with its own forces, in making the award determination.

(b) BIDDER shall provide a bid amount for each Bid Item set forth below:

<table>
<thead>
<tr>
<th>BID ITEMS</th>
<th>TOTAL LUMP SUM BID AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bid Item I – All Construction Work for the Interior Renovation of Roosevelt Hall</td>
<td>$</td>
</tr>
<tr>
<td>Bid Item II – Field Office Allowance</td>
<td>$55,000</td>
</tr>
<tr>
<td>Bid Item III – Hazardous Material Allowance</td>
<td>$30,000</td>
</tr>
<tr>
<td>TOTAL LUMP SUM BID</td>
<td>$</td>
</tr>
</tbody>
</table>

NAME OF BIDDER: ______________________________________
TOTAL LUMP SUM BID AMOUNT IN NUMBERS $______________________________

TOTAL LUMP SUM BID AMOUNT IN WORDS: __________________________________________________________

In the event of a discrepancy between the total amount bid in words and the total amount bid in numbers, the total amount of Bid in words shall take precedence.

4. BIDDER agrees that the Work will be substantially completed in accordance with the Agreement, and completed and ready for final payment in accordance with the General Requirements.

   BIDDER accepts the provisions of the Agreement as to liquidated damages in the event of its failure to complete the Work within the times specified in the Agreement.

5. The documents listed on the Special Notice to Bidders are attached to and made a condition of this Bid.

6. Communications concerning this Bid shall be in writing and be addressed to:

   Joseph Rhoades, Senior Project Manager
   Hill International, Inc.
   One Penn Plaza
   Suite 3415
   New York, NY 10119
   Phone: (212) 244-3700
   JosephRhoades@hillintl.com

Name of Bidder: _____________________________ (SEAL)

By: ________________________ Submitted on: ________________, 2010

Signature

Name and Title: _______________________________

Telephone No: __________________ Fax No: __________________

Contractor’s License No.: _______________________

Contractor’s Federal ID or Identification: ______________
REQUEST FOR INFORMATION
No. PB-101

E & A Restoration, Inc.            REQUEST FOR INFORMATION
40 Willis Avenue                  No. PB-101
Syosset, NY 11791                 Phone: 516-921-7030
                                      Fax: 516-921-7035

TITLE: Interior Fence - Dwg. LS 103
PROJECT: Roosevelt Hall
TO: Attn: Joseph Rhoades
    Hill International

DATE: 8/10/2010
JOB:

STARTED:
COMPLETED:
REQUIRED: 8/17/2010

REQUEST:

Regarding the interior fence shown on drawing LS-103, please provide a technical specification and detail for the fence and gate.

ANSWER:

Please find attached Specification Section 055923 entitled "Chain Link Fencing".

Requested By: E & A Restoration, Inc.

Date: 8/9/2010

Signed: ____________________________

Peter Lacagnina
SECTION 055923

CHAIN LINK FENCING

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

A. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

1.2 SECTION INCLUDES

A. The Work of this Section includes all labor, materials, equipment and services necessary to complete the chain link fencing as shown on the drawings and/or specified herein, including but not necessarily limited to the following:

1. Chain link fencing.
2. Gates.
3. Hardware and accessories.

1.3 RELATED SECTIONS

A. Concrete - Section 033000.

1.4 QUALITY ASSURANCE

A. Provide chain link fences and gates as complete units controlled by a single source including necessary erection accessories, fittings, and fastenings.

1.5 SUBMITTALS

A. Product Data: Submit manufacturer's technical data and installation instructions for metal fencing and gates.

1.6 PRODUCT HANDLING

A. Protection: Use all means necessary to protect chain link fencing materials, before, during, and after installation and to protect the installed work and materials of all other trades.

B. Replacements: In the event of damage, immediately make all repairs and replacement necessary to the acceptance of the Architect and at no additional cost to the Owner.
PART 2 PRODUCTS

2.1 MANUFACTURER

A. Subject to compliance with requirements, provide products of one of the following or an approved equal:
   1. Master Halco
   2. Cologuard Corp.
   3. United States Steel

2.2 FENCING

A. Fabric: No. 9 gauge (0.148") finished size steel wires two (2) inch mesh, with top selvages knuckled for fabric sixty (60) inches high and under, and both top and bottom selvages twisted and barbed for fabric over sixty (60) inches high.

   1. Fabric finish, galvanized, ASTM A392, Class II, with not less than 2.0 oz. zinc per square foot of surface.

B. Framework: Galvanized steel, ASTM A120, with not less than 1.8 oz. zinc per square foot of surface.

C. Hardware and Accessories: Galvanized, ASTM A152, with zinc weights per Table 1.

2.3 FRAMING AND ACCESSORIES

A. End, Corner, Line and Pull Posts: 2.875" O.D. steel pipe weighing 5.79 lbs. per linear foot.

   1. Space line posts 10'-0" o.c. maximum, unless otherwise noted on Drawings.

B. Gate Posts: Furnish posts for supporting single gate leaf, or one leaf of a double gate installation, for nominal gate widths as follows:

<table>
<thead>
<tr>
<th>Leaf Width</th>
<th>Gate Post</th>
<th>Lbs. per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 6'</td>
<td>2.875&quot; OD pipe</td>
<td>5.79</td>
</tr>
<tr>
<td>Over 6' to 13'</td>
<td>4.000&quot; OD pipe</td>
<td>9.11</td>
</tr>
<tr>
<td>Over 13' to 18'</td>
<td>6.625&quot; OD pipe</td>
<td>18.97</td>
</tr>
<tr>
<td>Over 18'</td>
<td>8.625&quot; OD pipe</td>
<td>28.55</td>
</tr>
</tbody>
</table>

C. Top rail manufacturer's longest lengths, with expansion type couplings, approximately six (6) inches long, for each joint. Provide means for attaching top rail securely to each gate, corner, pull and end post.

   1. 1.66" OD pipe, 2.27 lbs. per square foot.

Roosevelt Hall Interior Renovation
Brooklyn College
Brooklyn, NY
Project #6032.20

055923-2

Chain Link Fencing

August 18, 2010
D. Tension Wire: Seven (7) gauge, coated coil spring wire, metal and finish to match fabric located at bottom of fabric.

E. Post Brace Assembly: Manufacturer's standard adjustable brace at end and gate posts and at both sides of corner and pull posts, with horizontal brace located at mid-height of fabric. Use same material as top rail for brace, and truss to line posts with 0.375" diameter rod and adjustable tightener.

F. Post Tops: Closure cap, one cap for each post. Furnish caps with openings to permit passage of top rail.

G. Stretcher Bars: One piece lengths equal to full height of fabric, with minimum cross section of 3/16" x 3/4". Provide one stretcher bar for each gate and end post, and two (2) for each corner and pull post, except where fabric is integrally woven into post.

H. Stretcher Bar Bands: Space not over fifteen (15) inches o.c. to secure stretcher bars to end, corner, pull, and gate posts.

I. Gates: Fabricate swing gate perimeter frames of 1.90" OD pipe. Metal and finish to match framework. Provide horizontal and vertical members to ensure proper gate operation and for attachment of fabric, hardware and accessories. Space so that frame members are not more than eight (8) feet apart.

1. Assemble gate frames by welding or with special fittings and rivets, for rigid connections. Use same fabric as for fence, unless otherwise indicated. Install fabric with stretcher bars at vertical edges. Bars may also be used at top and bottom edges. Attach stretchers to gate frame at not more than fifteen (15) inches o.c. Attach hardware to provide security against removal or breakage. Install diagonal cross bracing consisting of 3/8" diameter adjustable length truss rods on gates to ensure frame rigidity without sag or twists, if required.

J. Gate Hardware: Furnish the following hardware and accessories for each gate.

1. Hinges: Size and material to suit gate size, non-lift-off type, offset to permit one-hundred-eighty (180) degree gate opening. Provide 1-1/2 pair of hinges for leaf over six (6) feet nominal height.

2. Gate: Provide gate stop for gate, consisting of mushroom type of flush plate with anchors. Include locking device and padlock eyes.

K. Wire Ties: For tying fabric to line posts, use wire ties spaced twelve (12) inches o.c. For tying fabric to rails and braces, use wire ties spaced twenty-four (24) inches o.c. For tying fabric to tension wire, use hog rings spaced twenty-four (24) inches o.c. Manufacturer's standard procedure will be accepted if of equal strength and durability.
PART 3 EXECUTION

3.1 INSPECTION

A. Examine the areas and conditions where chain link fencing is to be installed and correct any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work.

B. Do not begin installation and erection before final grading is completed.

3.2 INSTALLATION

A. Set posts in floor brackets with expansion bolts into existing concrete slab.

B. Check each post for vertical and top alignment, and hold in position during placement and finishing operations.

C. Top Rails: Run rail continuously through post caps, bending to radius for curved runs. Provide expansion couplings as recommended by fencing manufacturer.

D. Tension Wire: Install tension wires before stretching fabric and tie to each post with not less than six (6) gauge galvanized wire. Fasten fabric to tension wire using eleven (11) gauge galvanized steel hog rings spaced twenty-four (24) inches o.c.

E. Fabric: Leave approximately two (2) inches between finish grade and bottom selvage, unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Install fabric on security side of fence, and anchor to framework so that fabric remains in tension after pulling force is released.

F. Stretcher Bars: Thread through or clamp to fabric four (4) inches o.c., and secure to posts with metal bands spaced fifteen (15) inches o.c.

G. Gates: Install gates plumb, level, and secure for full opening without interference. Install ground set items in concrete for anchorage, as recommended by fence manufacturer. Adjust hardware for smooth operation and lubricate where necessary.

H. Tie Wires: Use U-shaped wire, conforming to diameter of pipe to which attached, clasping pipe and fabric firmly with ends twisted at least two (2) full turns. Bend wire to minimize hazard to persons or clothing.

I. Fasteners: Install nuts for tension bands and hardware bolts on side of fence opposite fabric site. Peen ends of bolts or score threads to prevent removal of nuts.

END OF SECTION
REQUEST FOR INFORMATION
No. PB-102

E & A Restoration, Inc.
40 Willis Avenue
Syosset, NY 11791
Phone: 516-921-7030
Fax: 516-921-7035

TITLE: Contract Allowance for Abatement
PROJECT: Roosevelt Hall
TO: Attn: Joseph Rhoades
    Hill International

DATE: 8/10/2010
JOB:

STARTED:
COMPLETED:
REQUIRED: 8/17/2010

REQUEST:

Regarding the asbestos/lead abatement report included in Addendum # 1, I am requesting that a Contract allowance be added via addendum to level the bidding process. At the walk through this morning, we were told to include asbestos/lead abatement at our discretion and that no laws were to be broken during the implementation of the new construction. I find it difficult to accept that the Client is going to allow 30 plus contractors to bid this project utilizing their own discretion. Thirty contractors are going to include 3 different interpretations of the locations, quantity and scope of asbestos/lead abatement in their bid proposals. As this is a Public Works Project, I would think it makes more sense to take this variable out of the equation to protect the Client from potential liabilities down the road. Therefore, I request that you add an asbestos/lead allowance to the project to be used as required during the course of construction. The balance of the unused allowance can be credited back to the Client at the completion of the project. Please clarify.

ANSWER:

Based upon the Hazardous Materials Survey Report, subsequent scope of work, and estimated cost for abatement / remediation, all bidders shall include a $30,000 allowance for treatment of potential hazardous materials. Official information shall be forthcoming, and space provided on a modified bidsheet to be included with the addendum / bid documents.

Joe Rhoades provided this answer on 8/16/10.

Requested By: E & A Restoration, Inc.

Signed: __________________________
Peter Lacagnina

Date: 8/9/2010
E & A Restoration, Inc.

40 Willis Avenue
Syosset, NY 11791

Phone: 516-921-7030
Fax: 516-921-7035

REQUEST FOR INFORMATION
No. PB-103

TITLE: Existing Flooring
PROJECT: Roosevelt Hall
TO: Attn: Joseph Rhoades
    Hill International

DATE: 8/10/2010
JOB:

STARTED:
COMPLETED:
REQUIRED: 8/17/2010

REQUEST:

According to the contract documents, the existing flooring is shown to remain in all areas of construction. During our walk through, it was obvious that the existing flooring is in poor to very poor condition. (1) My first question is how will the existing damages be documented before construction starts so that the contractor does not become responsible for flooring that is already damaged. (2) My second question is should the existing flooring in every room be covered with protection before construction starts? If so, to what extent (i.e. masonite, paper, plastic, etc.)?

ANSWER:

(1) GC should document the existing flooring conditions by providing a report with accompanying photos or video to the CM prior to the start of construction. (2) The level of protection is a means and methods issue for the GC; it is the contractor's responsibility to cause "no further" damage.

Joe Rhoades provided answer on 8/18/10.

Requested By: E & A Restoration, Inc.

Signed: ____________________________

Peter Lacagnina

Date: 8/9/2010
REQUEST FOR INFORMATION
No. PB-104

TITLE: Curtain w/Track - Dwg. A-403
PROJECT: Roosevelt Hall
TO: Attn: Joseph Rhoades
     Hill International

DATE: 8/11/2010
JOB:

STARTED:
COMPLETED:
REQUIRED: 8/18/2010

REQUEST:

Cannot find specs on operable curtain w/track mentioned on drawing A-403. Do we include this item in our proposal? Do we include signage in our proposal?

ANSWER:

Please find the attached Specification Section # 116115 entitled "Adjustable Acoustics".

Requested By: AJS Project Management, Inc.
Signed: Larry Traola
Date: 8/11/2010
SECTION 116115
ADJUSTABLE ACOUSTICS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Adjustable Acoustics include adjustable walk along drapery and track required for the adjustment of acoustical response and for decoration.

B. Section Includes:

1. Work in the following spaces:

   a. Music Studio (316R)
   b. Multi-Purpose Room (312 RE)
   c. Recording Studio (132R)
   d. Choral Opera Rehearsal Hall (203 RE)
   e. Brass Ensemble (133R)
   f. Percussion Practice Room (121A RE, 121B RE)
   g. T Studio (103D R, 123 R, 123A R, 107 RE, 110 RE)

2. Materials, components, modifications, assemblies, equipment and services as specified herein. These include, but are not limited to:

   a. Verification of site dimensions and conditions
   b. Submittals as required by the Contract Documents
   c. Submission of Shop Drawings performed, signed and sealed by a Professional Engineer licensed to practice by the appropriate governing authority in which the Work is provided
   d. Design and engineering of equipment and systems as required by the Contract Documents
   e. Manufacture of equipment and systems as required by the Contract Documents
   f. Scheduling, sequencing and coordination with other trades
   g. Site supervision of equipment and systems installation specified herein and elsewhere in the Contract Documents
   h. Testing and demonstration of equipment and systems as specified herein and elsewhere in the Contract Documents

Roosevelt Hall Interior Renovation 116115 - 1 Adjustable Acoustics
Brooklyn College
Brooklyn, NY
Project #6032.20

August 18, 2010
i. Record Drawings and “Operating and Maintenance Manuals”
j. Flame certificates referenced to each drape in plastic sleeves in a binder
k. Instruction to Owner’s representatives

3. Provide Systems including:
   a. Manual Acoustic Traveler Drapery

4. Additional support structures as required to meet the intent of the Contract Documents

C. Related Sections:
   1. Division 5: Metals
   2. Division 6: Wood
   3. Division 9: Finishes

1.3 REFERENCES
A. American Institute of Steel Construction (AISC) Manual of Steel Construction
B. American Welding Society (AWS) Code for Welding
C. National Fire Protection Association (NFPA) National Electric Code (NEC)
E. National Fire Protection Association NFPA705 Recommended Practice for Field Test for Flame-Resistant Textiles and Films

1.4 SYSTEM DESCRIPTION
A. Performance Requirements:
   1. All draperies are to be manual walk-along one way draw, with carriers in tracks with end stops and bracketed to the wall.
   2. All hardware including carriers to be finished black.
   3. All drapery heights to be field verified. Track to be mounted at elevation indicated in schedule to achieve the drapery height shown, or as high as room ceiling allows.

B. Provide systems designed to reflect industry standard safeguards and precautions related to normal use of the equipment under ideal operating and loading conditions.

C. General:
   1. Refer to Schedule for locations of traveler systems.
2. Refer to Schedule and detail for outline system design, travel distances and dimensions.
3. Verify all dimensions and mounting requirements necessary to complete the work. Provide all secondary supporting steelwork as necessary.
4. Confirm that methods of anchoring and loads are acceptable to Structural Engineer.
5. Design the system so that as far as possible it is maintenance free. Avoid use of components that require regular cleaning and re-lubricating.
6. All track related items shall be consistently finished in the same color, black.
7. Brackets shall be finished black.

D. Walk Along Drapery Systems

1. All draperies are to be manual walk-along one way draw, with carriers in tracks with end stops and bracketed to the wall.
2. Drapery Fabric:
   a. 27 oz IFR Synthetic Velour
   b. 100% fullness
   c. Double sided where noted
   d. Color: TBD from manufacturer’s standard colors per architect

3. Traveler Track:
   a. Track shall be 14 gauge galvanized steel, roll-formed to 2-5/8" wide X 2-3/4" high channel with continuous slot in bottom. Provide unspliced in lengths up to 26'.
   b. Suspend track with two-piece clamp hanger formed from 11 gauge steel on maximum 5'-0” centers.
   c. Install end stop with cord support at each track end. Where lengths exceed 26’, connect tracks with 12” long, two-piece splicing clamp of 12 gauge steel.

1.5 SUBMITTALS

A. All submittals shall be in accordance with Division 1. All submittals shall be submitted in a timely manner, allowing sufficient time for adequate review and possible resubmittal without jeopardizing the project schedule.

B. Shop Drawings:
   1. Shop drawings shall be submitted within 90 days of award of contract.
   2. Drawings will show all information necessary to explain fully the design features, appearance, function, fabrication, installation and use of system components in all phases of operation.
   3. Fabrication, installation and erection shall not commence until shop drawings have been reviewed and marked by the Architect.
   4. All sheets in the submittal shall be of the same size.
5. Submittal shall include a title sheet listing all sheets in the submittal.
6. Drawings indicating methods of fastening brackets to the wall shall be stamped by a professional engineer licensed in the State of New York.

C. Samples:

1. Samples for Initial Selection: Manufacturer’s color charts showing the full range of colors available.
2. Samples for Verification: Samples of each type of fabric in the selected colors, including samples matching Architect’s sample for custom colors.
3. Closeout Submittals: Certificates of flame-resistance for all fabrics.

D. Record Documents:

1. Record Documents shall be submitted in accordance with Division 1.
2. Operations and Maintenance Manuals, in quantities of three, shall include:
   a. Contact information for the Contractor and pertinent manufacturers
   b. Safety and Operational Instructions
   c. Complete parts and subassembly list
   d. Periodic Maintenance Schedule
   e. Maintenance procedures for finishes
   f. Certificates of compliance with applicable codes
   g. Records of final testing and log
   h. Spare parts list and source information
   i. Flame Certificates referenced to each drapery

3. Include diagrams depicting the system layout and maximum load limitations (drawn not less than 1/4" = 1'-0").

1.6 QUALITY ASSURANCE

A. Contractor: A firm with a minimum of five years experience in the type of work required by this section.

B. Installers: Skilled technicians who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and best industry practices for the proper installation of the work.

C. Welding: Qualify procedures and personnel according to AWS D1.1 “Structural Welding Code—Steel.”

D. Flame-Resistance: Comply with NFPA 701 and applicable local, state, and federal codes.

   1. All natural fiber fabrics shall be chemically treated at the mill for flame resistance, using a non-hygroscopic, non-crystalline, permanent agent in an immersion process. Follow manufacturer’s recommendations. Materials
submitted showing evidence of sprayed flame-retardant are unacceptable. Flame-resistance shall be effective for not less than five (5) years following the date of installation.

2. Inherently flame-resistant (IFR) fabrics shall comply with NFPA 701.

1.7 SCHEDULING & SEQUENCING

A. Coordinate work in this section with other trades.

B. Coordinate with the Construction Manager the construction of, support and fixings for tracks, hangers and winch assemblies, provision of sleeves for operating lines, access panels, etc.

1.8 PROJECT CONDITIONS:

A. Field Measurements: Verify all critical dimensions by field measurement before fabrication and indicate measurements on shop drawings.

1.9 SPECIAL WARRANTY:

A. Warrant systems and equipment to be free of defective components, faulty workmanship and improper adjustment for a period of two (2) years from the date of Owner's acceptance. Paint and exterior finishes are excluded relative to failure due to unusual exposure. Replace items showing evidence of defective materials or workmanship (including installation workmanship) within thirty (30) days after notification. Make replacements without cost to the Owner. Rectify conditions that might present a hazard to human life, well-being and or property within forty-eight (48) hours of notification.

B. Designate warranties on manufactured equipment to the Owner to commence on the date of system acceptance.

1.10 MAINTENANCE

A. Maintenance Service:

1. Provide maintenance service for a period of one year after final acceptance of the installation. This service consists of at least two visits to the site for checking and fine tuning of equipment. The first visit occurring approximately six months and the second about twelve months after the system has been accepted.

B. Extra Materials:

1. Provide the following units as spares to be included in the base bid and turned over to the Owner at the time of system commissioning and training:

2. 3. Provide additional 10% of the total quantity of tie lines, drapery clips, lift line spools, attachment brackets, and carriers as spares.
4. Provide 3 running yards of each fabric type, pattern, color or style employed for use as patching. Pack in suitable container and label as 'Acoustic Drapery Spares Kit'.
5. Package and label extra materials as appropriate for storage.
6. Replace extra materials that are used during the warranty period so that the complete specified inventory is available throughout the warranty period.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. The following are accepted component manufacturers and suppliers:

B. Guides, traveler tracks and carriers:
   1. Atlas Silk Division, H&H Specialties Inc. South El Monte, CA
   2. Automatic Devices Co. (ADC), Allentown, PA

C. Traveler curtains:
   1. Rose Brand, New York, NY
   2. Stage Decoration & Supplies, Greensboro, NC
   3. Syracuse Scenery and Stage Lighting, Inc., Syracuse, NY
   4. I. Weiss & Son, New York, NY

2.2 MATERIALS

A. Materials shall conform to the following ASTM and ANSI standard specifications:
   1. Structural steel shapes and plate shall be A36.
   2. Steel tube shall be A500.
   3. Malleable iron casting shall be A47.
   4. Grey iron casting shall be A48.
   5. All welding shall conform to AWS D.1.1 Structural Welding Code.

B. Fasteners:
   2. All bolts and fasteners shall be grade 5 or better.
   3. Fasteners shall be rated for the anticipated loads.
   4. Provide fasteners with approved markings indicating their rating.

C. Fabrics:
   1. Employ fabrics of one color from the same dye lot with no split widths, overdyed portions or odds and ends.
   2. Submit one running yard of each fabric to the Acoustical Consultant for testing and review prior to fabrication.
3. Materials throughout to conform to NFPA 701 as well as other applicable Local, State, and Federal codes.

4. Acoustic Travelers:
   a. Material: 27 oz IFR Synthetic Velour Avora or Trevira (“Charisma”)
   b. 54” nominal width
   c. Inherently Flame Retardant (IFR)
   d. Color: TBD manufacturer’s standard colors per Architect

2.3 COMPONENTS

A. Traveler Accessories:
   1. Webbing: 3” wide nylon or polyester.
   2. Grommets: No. 2 (3/8” hole diameter) black metal washer grommets.
   3. Chain Weights: Zinc plated #8 jack chain sewn into muslin sleeve.
   4. Square Eye Spring Snaps: 1.75” long nickel-plated die cast zinc.

2.4 MANUFACTURED UNITS

A. Acoustic Traveler Construction:
   1. Sew all draperies with 100% fullness.
   2. Where indicated as “double sided” in the schedule, provide drape with two layers of fabric, sewn back to back.
   3. All fabric shall be inspected for weaving flaws and imperfections prior to fabrication.
   4. Unless specified otherwise herein, sew fabrics with nylon filament thread. Employ matching thread throughout.
   5. Unless otherwise specified, sew velour drapes pile down.
   6. Fabricate the drapery panels to run the height of the various sections without horizontal seams, unless otherwise specified. All fabric nap or pile shall run down unless otherwise specified.
   7. Fabricate so that the bottom edge of the face fabric is within 1/4” parallel with the top edge of the drapery, for true hanging across full width.
   8. Box pleat on 1’-0” centers at the top in the fullness listed, exclusive of turnback facing. Conceal vertical drapery seams in the box pleats. Sew pleats on the face side of the drapery and reinforce across the top with webbing.
   9. Finish the bottom of the face fabric with a 6” hem. The bottom of drape shall be weighted with chain weight inserted in the hem and held clear of the bottom of the hem.
  10. Face back both side edges of each panel with a 6” turnback.
  11. Locate plated spring eye snaps and nylon tapes 12” on center on the webbing width so no horizontal stitching is cut or severed and top of snap is aligned with top of drape.
  12. Sew a white fabric label on the upper right and left corners of the webbing of the acoustic curtains with the following information in the following format:

Roosevelt Hall Interior Renovation  116115 - 7  Adjustable Acoustics
Brooklyn College  August 18, 2010
Brooklyn, NY  Project #6032.20
B. Walk Along Drapery Track

1. Track shall be 14 gauge galvanized steel, roll-formed to 2-5/8" wide X 2-3/4" high channel 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 on maximum 5'-0" centers.
3. Install end stop with cord support at each track end. Where lengths exceed 26', connect tracks with 12" long, two-piece splicing clamp of 12 gauge steel.
4. See Architectural and Structural drawings for accommodation details.
5. Provide complete system including curtains, tracks with all fixtures and fittings.
6. Drapery shall fold neatly and stow smoothly.
7. Track and all hardware shall be from single manufacturer and all components shall be compatible parts from same series.
8. All tracks and components to be finished black.
9. Drapery carriers shall be provided 12" on center.
10. Drapery carriers shall have nylon tires and sealed ball bearing wheels.
11. Provide swivel eye, hook and trim chain for attachment of drapery snap hook.
12. Rubber bump stops shall be fitted between carriers.
13. Provide end stops, and all others fittings required for fully functioning system.
14. All necessary track mounting hangers and fixings shall be provided.
15. Joints in tracks shall be kept to a minimum. Where unavoidable, joints shall be made with care to ensure track sections align accurately, with no resistance presented to the smooth passage of drapery runners.
16. Provide each track assembly from as few pieces as possible, free of burrs, dents and irregularities. Do not exceed 5'-0" on center for the maximum spacing of hanger supports.
17. Provide two master carriers for each walk along drapery section.
18. Provide tracks, carriers, and other components as supplied from the manufacturer with a black finish on parts and accessories. Bright or natural finish on metal components will not be accepted.
19. Acceptable:
   a. H & H Specialties 400 series black finish
   b. Automatic Devices Company (ADC) 170 series black finish
   c. Approved equal

Wall Brackets:

1. Size brackets for anticipated load and wall condition

Roosevelt Hall Interior Renovation 116115 - 8 Adjustable Acoustics
Brooklyn College
Brooklyn, NY
Project #6032.20
2. Bracket to be fabricated out of welded steel as shown in the detail
3. Minimize profile of bracket
4. Finish bracket black.

2.5 SOURCE QUALITY CONTROL

A. Tests and Inspection:

1. Work on the systems may be inspected at the point of manufacture a minimum of one time during fabrication. This inspection will occur during the final factory checkout prior to shipping, unless the Manufacturer and Architect agree on a more advantageous inspection date.

2.6 SUPPLEMENTARY

A. Furnish and install any other equipment and hardware in addition to the items specified previously that are necessary to provide a fully working system in conformance with the intent of the Contract Documents and as may be necessary to harmonize with the particular conditions found to exist on site.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verification of Conditions:

1. Examine work prepared by others to receive work of this Section and report defects affecting installation to the Construction Manager for correction. Commencement of the work shall be construed as complete acceptance of preparatory work by others. The sphere of inspection includes but is not limited to:

   a. Assurance mounting surfaces are ready to accept the Work
   b. Verification of flatness, plumb and level of mounting conditions
   c. Examine drawings and confirm that number, size and location of conduit are adequate for proposed system.
   d. Inspection of components of the Work to ensure no damage has occurred during shipping or storage.

2. Discrepancies:

   a. In the event of discrepancies, immediately notify the Construction Manager.
   b. Do not proceed with the installation in areas of discrepancy until all such discrepancies have been fully resolved.
   c. Commencement of work shall indicate an acceptance of existing conditions.

Roosevelt Hall Interior Renovation 116115 - 9 Adjustable Acoustics
Brooklyn College
Brooklyn, NY
Project #6032.20

August 18, 2010
3. At earliest opportunity, the Contractor shall inspect all the spaces where drapery are to be installed.
   
   a. The Contractor shall ensure that no obstacles exist which might prevent proper installation, preclude the smooth operation of mechanisms or cause wear and tear to installed systems.
   
   b. The Contractor shall survey all relevant areas and verify dimensions. If discrepancies are found they are to be reported immediately.

3.2 PREPARATION

A. Verify field measurements at the site prior to installation and modify the system accordingly.
   
   1. Deliver equipment to the site only after the building has been closed in. Coordinate storage at the site and ensure the materials and components are undamaged.
   
   2. Protect the surrounding environment from damage by the Work.

B. Surface Preparation:
   
   1. Clean surfaces as necessary prior to commencing the Work.

3.3 ERECTION, INSTALLATION AND APPLICATION

A. Install items plumb, straight, square and level in locations indicated on the contract documents and as shown on approved workshop drawings.

B. Install tracks as tight to soffits as possible.

C. Install fabric items only when instructed by Architect.

D. Provide adequate protection for all materials and equipment against damage by dirt, paint, damp or physical abuse until system is accepted and handed over to users. This includes providing purpose made covers that may be temporarily removed to allow testing and commissioning work to proceed. Systems will only be accepted in 'as new' condition.

3.4 FIELD QUALITY CONTROL

A. Inspection:
   
   1. During the installation of equipment, the Contractor shall arrange for safe access as necessary for inspection of equipment by the Architect.
   
   2. Any equipment which fails to meet with the specifications shall be repaired or replaced with suitable equipment prior to Testing and Final Inspection.

   3. At the time of these inspections all temporary bracing, scaffolding, etc. shall be removed to permit full operation of and access to all equipment.
B. Testing:

1. Provide fourteen (14) days notice of all tests so that the Architect may witness such tests.
2. Clearly record the date, time, details and results of all the following tests and demonstrations and any subsequent re-tests. This will form the start of a system logbook to be handed over to the user after acceptance together with operation and maintenance manuals.
3. Inspect the completely assembled system including all mechanisms, fittings, control panels, etc., and make good all deficiencies.
5. Demonstrate the full range of motion of all travelers.

C. Final Inspection:

1. Final review will be made by the Architect, following written notice from the Contractor that the installation is complete.
2. At the time of inspection, the Contractor shall furnish sufficient workers to operate all equipment and to perform such adjustments and tests as may be required by the Architect. Any equipment which fails to meet with the specifications shall be repaired or replaced with suitable equipment and the inspection shall be rescheduled under the same conditions as previously specified.
3. At the time of these inspections, no other work shall be performed in the area. All temporary bracing, scaffolding, etc. shall be removed to permit full operation of and access to all equipment.

3.5 CLEANING

A. The Contractor shall be responsible for clean up, including removal of packing materials, construction debris, etc., resulting from the execution of the work.

B. The Contractor shall be responsible for the protection of surfaces or equipment provided by other sections. The Contractor shall clean and/or repair any damage to portions of the work during the execution of the work.

C. The Contractor shall be responsible for the protection of surfaces or equipment provided by this section. Coordinate to insure that the work is not damaged during subsequent installations by other trades.

3.6 DEMONSTRATION AND INSTRUCTION

A. The Contractor shall provide a minimum of one (1) hour of training on the use and maintenance of this equipment to the owner’s staff after the systems have been commissioned and accepted as satisfactory.

B. Demonstrate system operation and instruct the Owner's designated staff or representatives in the proper use, care, and maintenance of all items.
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<th>Room #</th>
<th>Room Type</th>
<th>Room Height VIF</th>
<th>Top of Drape AFF</th>
<th>Panel Quantity</th>
<th>Drape Width</th>
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Roosevelt Hall Interior Renovation  
Brooklyn College  
Brooklyn, NY  
Project #6032.20

Adjustable Acoustics  
August 18, 2010
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ARUP
Brooklyn College

Job No: 131490
Drawing No: SK-1

Issue: 100% CD
Date: 05/18/16
By: JN Child

ACOUSTIC DRAPERY DETAIL
ELEVATION AND SECTION SKETCH

TRAVELER TRACK

BRACKET SPACING
S-2'-MAX.

ELEVATION

TRAVELER TRACK

BRACKET

ANCHORS AS REQUIRED

SNAP HOOKS TO CARRIER SWIVEL, -TYP.

SECTION

HORIZONTAL AS PER SCHEDULE

DRAPERY

Roosevelt Hall Interior Renovation
Brooklyn College
Brooklyn, NY
Project #6032.20

116115-14
Adjustable Acoustics
August 18, 2010
Hill International

REQUEST FOR INFORMATION
No. PB-105

TITLE: Signage Breakdown - Dwg. A-001.00

PROJECT: Roosevelt Hall

TO: Attn: Han Kim
Pfieffer Partners Architects PC
62 White Street
Suite 5E
New York, NY 10013
Phone: (212) 625-3911 Fax: (212) 625-3306

DATE: 8/12/2010

JOB:

STARTED: 

COMPLETED: 

REQUIRED: 8/18/2010

REQUEST:

Do you have the breakdown of the different type of signage per drawing A-001.00?

ANSWER:

The signage is not in scope of work at this time.

Requested By: Hill International

Signed: __________________________

Joseph Rhoades

Date: 8/11/2010
REQUEST FOR INFORMATION
No. PB-106

TITLE: Chain Link Fence - Dwg. A-103
PROJECT: Roosevelt Hall
TO: Attn: Han Kim
Pfeiffer Partners Architects PC
62 White Street
Suite 5E
New York, NY 10013
Phone: (212) 625-3911  Fax: (212) 625-3306

DATE: 8/12/2010
JOB: 

STARTED: 
COMPLETED: 
REQUIRED: 8/19/2010

REQUEST:

Per drawing A-103, please provide the spec requirement for full height chain link fence (approx. 15'-0" high). Are the walls 4 sides or 2 sides?

ANSWER:

Please refer to RFI # PB-101 for chain link fence response. The fence is 2 sided.

Requested By: Hill International
Date: 8/11/2010
Signed: 
Joseph Rhoades
REQUEST FOR INFORMATION
No. PB-107

TITLE: Demo Layout Plan - Dwg. DM-101
PROJECT: Roosevelt Hall
TO: Attn: Han Kim
Pfeiffer Partners Architects PC
62 White Street
Suite 5E
New York, NY 10013
Phone: (212) 625-3911 Fax: (212) 625-3306

DATE: 8/12/2010
JOB:

STARTED: 
COMPLETED: 
REQUIRED: 8/19/2010

REQUEST:
Per drawing DM-101 and walk through meeting, please provide demolition layout plan for existing concrete pad for all existing locker removals by others.

ANSWER:
The contractors will remove all remaining lockers and concrete pads, and patch & paint the entire locker room area floors as directed by the Construction Manager. The cost for this work will be included in the increased office allowance shown on the attached, revised bid form.

Requested By: Hill International
Date: 8/12/2010
Signed:______________________________
Joseph Rhoades
REQUEST FOR INFORMATION
No. PB-108

TITLE: New Ceilings - Dwg. A-204
PROJECT: Roosevelt Hall
TO: Attn: Han Kim
     Pfeiffer Partners Architects PC
     62 White Street
     Suite 5E
     New York, NY 10013
     Phone: (212) 625-3911  Fax: (212) 625-3306

DATE: 8/12/2010
JOB:

STARTED:
COMPLETED:
REQUIRED: 8/19/2010

REQUEST:

Per drawing A-204, the legend shows new ceilings are plaster but keynote 6 shows GWB ceiling. Please confirm.

ANSWER:

The ceilings for 5 classrooms (400A RE, 400B RE, 400C RE, 400D RE and 400E RE) will have new painted GWB on metal studs. Refer to detail 6 and 7 on sheet A-401.
REQUEST FOR INFORMATION
No. PB-109

TITLE: Vinyl Base on Wall Partition
PROJECT: Roosevelt Hall
TO: Attn: Han Kim
Pfeiffer Partners Architects PC
62 White Street
Suite 5E
New York, NY 10013
Phone: (212) 625-3911 Fax: (212) 625-3306

DATE: 8/12/2010
JOB:

STARTED: 
COMPLETED: 
REQUITE: 8/19/2010

REQUEST:
Per drawing A-403, please provide spec requirement for new vinyl base on new wall partition.

ANSWER:
The new vinyl wall base shall be 4-1/2" high and 1/8" thick of continuous rubber. Top set cove base with pre-formed internal and external corner pieces, color as selected by Architect. The vinyl base shall conform to ASTM F 1861, Type TS, Group 1 as manufactured by Johnsonite or approved equal.

Requested By: Hill International
Signed: ___________________________
Joseph Rhoades

Date: 8/12/2010
REQUEST FOR INFORMATION
No. PB-110

TITLE: Acoustical Wall Treatment
PROJECT: Roosevelt Hall
TO: Attn: Han Kim
    Pfeiffer Partners Architects PC
    62 White Street
    Suite 5E
    New York, NY 10013
    Phone: (212) 625-3911  Fax: (212) 625-3306

DATE: 8/12/2010
JOB:

STARTED:
COMPLETED:
REQUIRED: 8/19/2010

REQUEST:

Per drawing A-403, the acoustical wall treatment (type 1 through type 11), please provide typical elevation to show the layout and color wall pattern.

ANSWER:

The acoustical wall treatment panels shall be evenly distributed on all walls of the space. The final layout of the acoustical wall treatment of each room shall be coordinated in field during construction phase.

Requested By: Hill International
Signed: __________________________
Joseph Rhoades

Date: ____________________________
8/12/2010
REQUEST FOR INFORMATION
No. PB-111

TITLE: Phasing Plan & Working Hours
PROJECT: Roosevelt Hall
TO: Attn: Han Kim
    Pfeiffer Partners Architects PC
    62 White Street
    Suite 5E
    New York, NY 10013
    Phone: (212) 625-3911 Fax: (212) 625-3306

DATE: 8/12/2010
JOB:

STARTED:
COMPLETED:
REQUIRED: 8/19/2010

REQUEST:

Please provide Phasing Plan and working hours in the occupied building from September thru December 2010.

ANSWER:

As discussed in the meeting following the walkthrough, hours of operation will begin no earlier than 7:15 AM (dependent upon noise and impact to the neighboring residences) and may continue beyond regular working hours only with prior written approval of Brooklyn College Facilities Management. Requests for extended working hours shall be submitted in writing to Hill International a minimum of 24 hours in advance. There is no phasing foreseen for this portion of the work, however, the awarded contractor may present a phasing plan along with the requisite project schedule.

Joe Rhoades provided this answer on 8/16/10.
REQUEST FOR INFORMATION  
No. PB-112

TITLE: Existing Door shown as "Hatched"  
DATE: 8/12/2010

PROJECT: Roosevelt Hall  
JOB:

TO:  
STARTED:  
Attn: Han Kim  
COMPLETED:  
Pfeiffer Partners Architects PC  
REQUIRED: 8/19/2010
62 White Street  
NEW YORK, NY 10013  
Phone: (212) 625-3911 Fax: (212) 625-3306

REQUEST:

Existing door shown as "hatched" is to be permanently locked. What is the scope of work for the contractor for these doors?

ANSWER:

There is no scope of work for the contractor. Those doors shall be permanently locked by the others.

Requested By: Hill International  
Signed: ____________________________  
Date: ____________________________  
Joseph Rhoades
REQUEST FOR INFORMATION
No. PB-113

TITLE: Door Opening
PROJECT: Roosevelt Hall
TO: Attn: Han Kim
Pfeiffer Partners Architects PC
62 White Street
Suite 5E
New York, NY 10013
Phone: (212) 625-3911    Fax: (212) 625-3306

DATE: 8/12/2010
JOB:

STARTED: 
COMPLETED: 8/19/2010
REQUIRED: 8/19/2010

REQUEST:

Please refer to the following drawings:

DM 101.00 - Opening to be made;
DM 201.00 - Plaster ceiling is shown;
A 201.00 - Nothing is mentioned and
A 101.00 - Single door is to be installed

When referring to rooms 124 RE and 124 FRE - if the door opening is only to door height, then we have to
make an opening in the wall and finish the door frame. In this case the ceiling might not be affected, so why are
you showing existing ceiling? Please explain.

ANSWER:

This is the CMU wall. The contractor shall provide an opening in the wall to accept new door frame.
Contractor shall also provide all necessary support for CMU wall above door frame. There is no work on
existing ceiling.

Requested By: Hill International
Signed: ____________________________
Joseph Rhoades

Date: ________________
8/12/2010

Expedition N
Page 1 of 1
Hill International

REQUEST FOR INFORMATION
No. PB-114

TITLE: Ceiling
PROJECT: Roosevelt Hall
TO: Attn: Han Kim
     Pfeiffer Partners Architects PC
     62 White Street
     Suite 5E
     New York, NY 10013
     Phone: (212) 625-3911 Fax: (212) 625-3306

DATE: 8/12/2010
JOB:

STARTED:
COMPLETED:
REQUIRED: 8/19/2010

REQUEST:

Please clarify if the ceiling areas to be removed should be left as is. Drawings indicate that ACT ceiling and plaster ceiling are to be repaired / rectified only in the affected areas of scope.

ANSWER:

Where ACT ceiling was removed to accept new partition wall, it shall be replaced, patched and repaired. If the plaster ceiling is damaged by new work, then ceiling shall be repaired to current state.

Requested By: Hill International
Signed: __________________________
          Joseph Rhoades

Date: ____________
     8/12/2010
REQUEST FOR INFORMATION
No. PB-115

TITLE: Acoustic Curtain Track - Dwg. A-203
PROJECT: Roosevelt Hall
TO: Attn: Han Kim
Pfeiffer Partners Architects PC
62 White Street
Suite 5E
New York, NY 10013
Phone: (212) 625-3911  Fax: (212) 625-3306

DATE: 8/12/2010
JOB:

STARTED:
COMPLETED:
REQUIRED: 8/18/2010

REQUEST:

In room 316-R (dwg. A-203), there is a note for "acoustic curtain track" which is also detailed in 6/A-404. Please advise if there are any specs for this item and a schedule for this track.

ANSWER:

Please refer to RFI # PB-104 for further information. Also refer to sheet A-403 for size of acoustic curtain and RCP (sheet A-200 series) for location.

Requested By: Hill International

Signed: ____________________________
Joseph Rhoades

Date: 8/11/2010