THE
UNIVERSITY
OF RHODE ISLAND
DIVISION OF
ADMINISTRATION
AND FINANCE

THINK BIG WE DO™

PURCHASING DEPARTMENT
581 Plains Road, Suite 3, Kingston, RI 02881 USA p: 401.874.2171 f: 401.874.2306 uri.edu/purchasing

DATE: 3/6/2013

ADDENDUM # 1

BID NO. : 2324
OPENING: 3/22/13 - 3:00 PM
COMMODITY: Dorr/Ellery Bathroom & Door Replacement

Please see the attached information which is to be incorporated into the bid specifications for the above referenced bid.

Tracey A. Angell
Assistant Director, Purchasing Department
University of Rhode Island

The University of Rhode Island is an equal opportunity employer committed to the principles of affirmative action.

DOCUMENT 00900 – ADDENDA AND MODIFICATIONS

ADDENDUM NO. 1 – March 4, 2013

From: Tecton Architects, PC

Home Office:	*Branch Office*
One Hartford Square West	*17 Railroad Avenue*
Hartford, CT 06106	*Westerly, RI 02891*
Tel. 860-5480802	*Tel. 401-5967555*
Fax 860-2492531	*Fax 401-5967227*

To: Prospective Bidders

This Addendum forms part of the Contract Documents and modifies the Bidding Documents dated December 20, 2012, with amendments and additions noted below, for Roger Williams Complex Bathroom and Door and Signage Replacement – Dorr and Ellery Halls, University of Rhode Island, Kingston Campus, Kingston, RI..

Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder.

This Addendum consists of 52 Pages and the following documents:

DRAWINGS
SKA-1
SKA-2

SPECIFICATIONS
011030-Attachment C-Abatement Plan
Notarized Certification of Asbestos Abatement Plan, Issued as Attachment
Asbestos Ceiling Tile Quantification, issued as Attachment
087100-Door Hardware

OTHER DOCUMENTS
None

CHANGES TO DRAWINGS

1. A2.102, A2.103, A2.104 (Varies per Resident Hall)
   Revise designation of Demolition Key Note "Remove exhaust grille in ceiling, clean and vacuum exhaust duct. Clean & store exhaust grille for reinstallation with new ceiling" to General Demolition Notes. Note: occurs in the following instances:
   a. Dorr Hall: Drawings A2.103 and A2.104, revise designation of Demolition Key Note #3 to General Demolition Note #9.
   b. Ellery Hall: Drawings A2.102 and A2.103, revise designation of Demolition Key Note #3 to General Demolition Note #8.

2. A2.102, A2.103, A2.104 (Varies per Resident Hall)

Revise Demolition Key Note "Remove and salvage heater cabinet ends and covers for reinstallation. Note: Applies to all of Fourth Floor Bathrooms" to read "Remove and dispose heater cabinet ends and covers. Note: Applies to all Fourth Floor Bathrooms." Note: occurs in the following instances:

a. Dorr Hall: Drawing A2.104, revise Demolition Key Note #13.
b. Ellery Hall: Drawing A2.102, revise Demolition Key Note #12.

3. A2.201 and A2.202
Add General Note as follows: "2. Provide 4'-0" painted aluminum baseboard enclosure at all 4th Floor Bathrooms. Enclosure is to be 3"D X 4"H, louvered in 45 degree top, and solid front. Basis of design is FT45WM by Arsco Manufacturing Company; equal by Rittling or Sterling Hydronics."

4. A2.201, A2.202, A2.301, A2.302
Revise Construction Note #9 "Install new drain (work to be performed by Bathfitters)" to read "Install new drain and drain basket (work to be performed by Bathfitters)."

5. A2.201, A2.02, A5.202 (Varies per Resident Hall)
Shower Drain Detail: Revise note "1/2" exterior grade plywood" to "1/2" exterior grade plywood installed by Bathfitters, typical at all sides of bathtub or shower enclosure." Detail F.R.P. End Panel @ Bathfitters Shower Enclosure: Revise note "1/2" exterior grade plywood installed by Bathfitters" to "1/2" exterior grade plywood installed by Bathfitters, typical at all sides of bathtub or shower enclosure." Note: occurs in the following instances:
   a. Dorr Hall: Drawing A2.201, details B6 and B10.
   b. Ellery Hall: Drawing A2.201, details B7 and B10.

6. A8.101
Replace "Transom Horizontal Section" with attached SKA-1. Replace "Transom Vertical Section" with attached SKA-2.

7. A8.101
Revise door hardware designations as follows:
   a. Dorr Hall
      i. A100F: Revise hardware set designation from 2 to 5.
      ii. C100F: Revise hardware set designation from 2 to 5.
      iii. B104: Immediately following C103, redesignate this door as C104.
      iv. D100F: Revise hardware set designation from 2 to 5.
      v. D100G: Revise hardware set designation from 2 to 5.
      vi. D104: Revise hardware set designation from 4 to 6.
      vii. D108A: Revise hardware set designation from 2 to 5.
   b. Ellery Hall
      i. A100E: Revise hardware set designation from 7 to 1.
      ii. A105A: Revise hardware set designation from 6 to 4.
      iii. B100A: Revise hardware set designation from 1 to 5.
      iv. B100F: Revise hardware set designation from 2 to 5.
      v. C100E: Revise hardware set designation from 1 to 5.
      vi. C100G: Revise hardware set designation from 2 to 5.
      vii. C106A: Revise hardware set designation from 8 to 6.

CHANGES TO PROJECT MANUAL

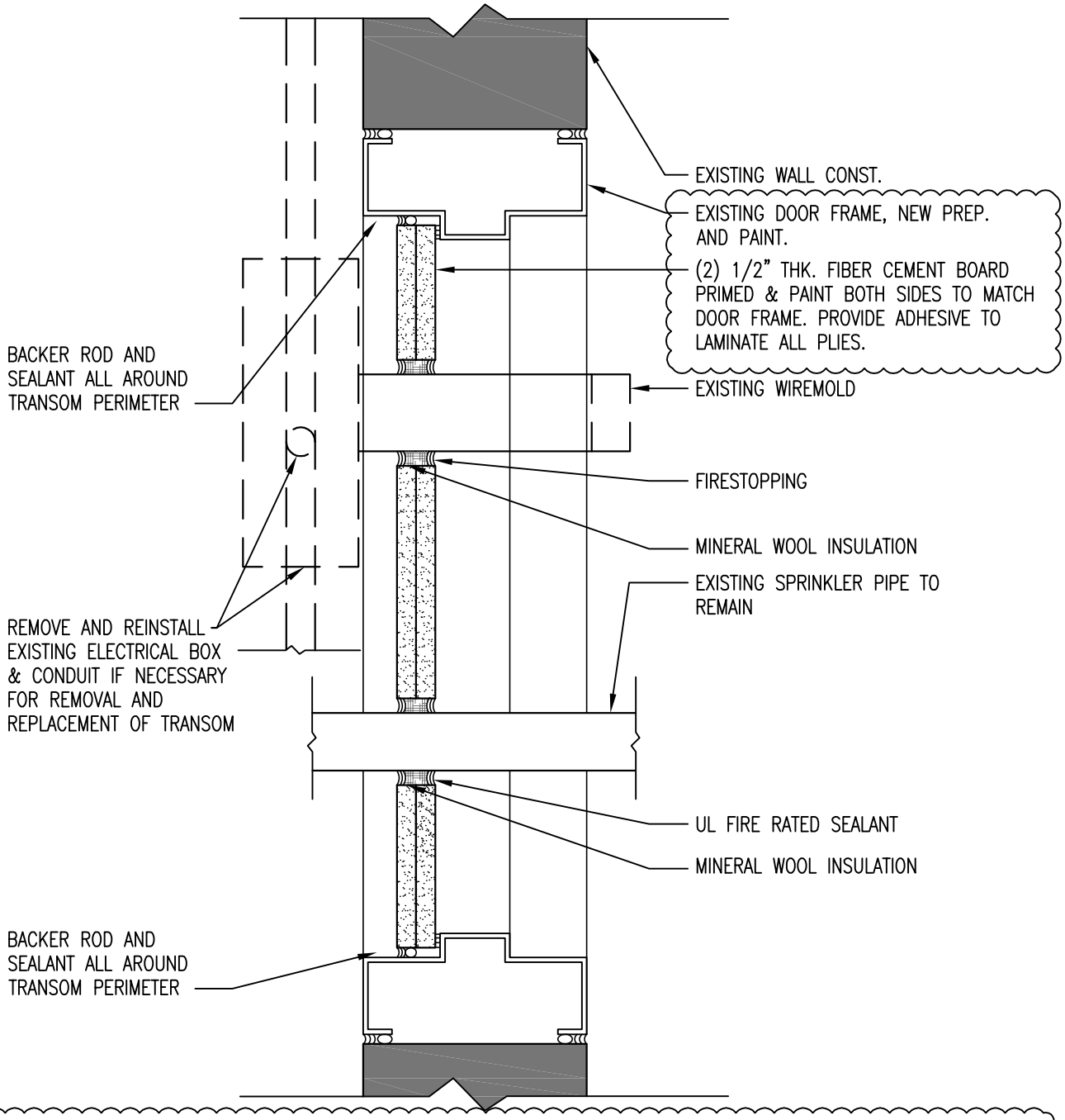
8. 011030 Attachment C – Abatement Plan
   Reissue Attachment C – Abatement Plan to add further instructions. Add Certification of Asbestos Abatement Plan (Aldrich Hall) and Asbestos Ceiling Quantification, issued as part of Attachment C – Abatement Plan.

9. 064203 Interior Architectural Woodwork
   Section 2.06 Wire Shelving (A)(1), add the following to end of paragraph: "Provide diagonal support metal bracket at mid-span of shelf."

10. 087100 Door Hardware
    Reissue specification section in order to include online wireless card access control and door hardware information.

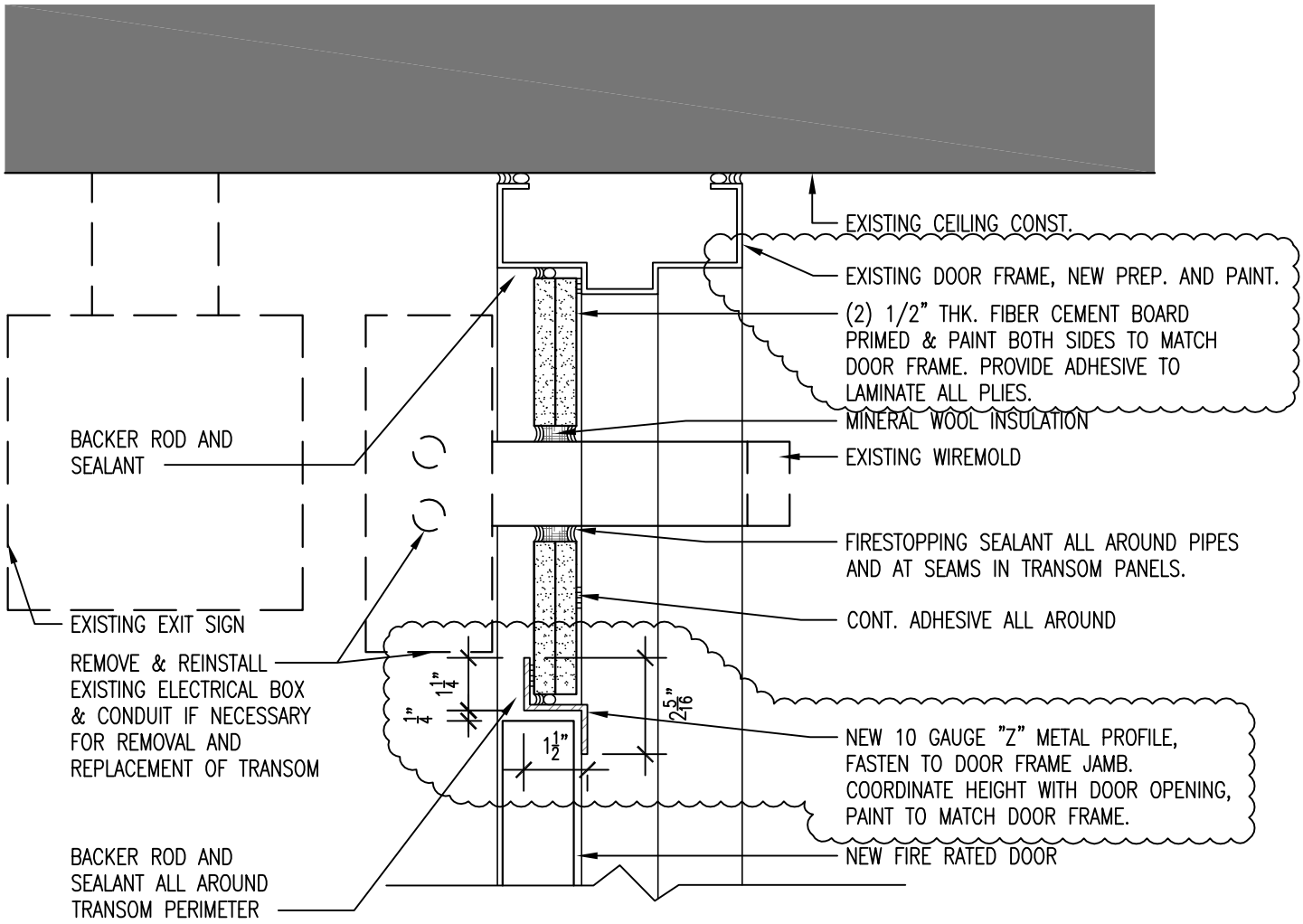
11. 093000 Tiling
    a. Section 1.2 Summary (A), add the following item: "3. Stone thresholds installed as part of tile installations."
    b. Add the following section:
       "2.8 THRESHOLDS
       a. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.
          i. Bevel edges at 1:2 slope, aligning lower edge of bevel with adjacent floor finish. Limit height of bevel to 1/2 inch or less, and finish bevel to match face of threshold.
       b. Granite Thresholds: ASTM C 615, with honed finish.
          i. Description: Uniform, medium-grained, gray stone without veining."

END OF ADDENDUM #1



UNIVERISTY OF RHODE ISLAND – ROGER WILLIAMS COMPLEX BATHROOM RENOVATION & DOOR & SIGNAGE REPLACEMENT
TRANSOM HORIZONTAL SECTION, DRAWING REFERENCE:
ALDRICH HALL: DETAIL F5, DRAWING A8.101
BURNSIDE HALL: DETAIL E5, DRAWING A8.102
CODDINGTON HALL: DETAIL E5, DRAWING A8.102
DORR HALL: DETAIL E5, A8.102
ELLERY HALL: DETAIL F5, DRAWING A8.101
HOPKINS HALL: DETAIL F5, DRAWING A8.101

DRAWING TITLE: REVISIONS TO TRANSOM HORIZONTAL SECTION	DWG. NO: SKA-1	DATE: 01-25-13 SCALE: 3" = 1'-0" JOB NO: URI16IN
PROJECT: URI RWC BATHROOM RENOVATION & DOOR & SIGNAGE REPLACEMENT	TectonArchitects | inc ONE HARTFORD SQUARE WEST HARTFORD CONNECTICUT TEL 860 548 0802 FAX 860 249 2531 www.tectonarchitects.com	REVISED:



UNIVERISTY OF RHODE ISLAND – ROGER WILLIAMS COMPLEX BATHROOM RENOVATION & DOOR & SIGNAGE REPLACEMENT
TRANSOM VERTICAL SECTION, DRAWING REFERENCE:
ALDRICH HALL: DETAIL F3, DRAWING A8.101 (DETAIL ORIGINALLY MISLABELED 'F5')
BURNSIDE HALL: DETAIL E3, DRAWING A8.102 (DETAIL ORIGINALLY MISLABELED 'E5')
CODDINGTON HALL: DETAIL E3, DRAWING A8.102
DORR HALL: DETAIL E3, A8.102 (DETAIL ORIGINALLY MISLABELED 'E5')
ELLERY HALL: DETAIL F3, DRAWING A8.101
HOPKINS HALL: DETAIL F3, DRAWING A8.101

DRAWING TITLE: REVISIONS TO TRANSOM VERTICAL SECTION	DWG. NO: SKA-2	DATE: 01-25-13 SCALE: 3" = 1'-0" JOB NO: URI16IN
PROJECT: URI RWC BATHROOM RENOVATION & DOOR & SIGNAGE REPLACEMENT	TectonArchitects | inc ONE HARTFORD SQUARE WEST HARTFORD CONNECTICUT TEL 860 548 0802 FAX 860 249 2531 www.tectonarchitects.com	REVISED:

Attachment C - 01103
Abatement Plan

The asbestos abatement plan following this page has been prepared by the University's consultant and applies to the work areas of this project as noted. The following work is to be included as part of this project and shall be included in the Base Bid price:

1. Provide abatement at Aldrich Hall per attached Notarized Certification of Asbestos Abatement Plan, immediately following this section, and consisting of 23 pages.
2. Provide removal and disposal of transite ceiling tiles per attached University of Rhode Island – Roger Williams Complex Asbestos Ceiling Tile Quantification, immediately following this section, and consisting of 8 pages. Transite ceiling tiles to be removed by an accredited RI asbestos abatement contractor as an intact non-friable material, and no abatement plan is required.
    a. Aldrich Hall: Where asbestos abatement of pipe fittings/elbows occurs, remove trasite ceiling tiles concurrently with abatement of fittings/elbows under negative pressure containment.
    b. Burnside, Coddington, Dorr, Ellery, and Hopkins Halls: If asbestos containing pipe fittings/elbows are discovered where transite ceiling tiles are present, remove and dispose of ceiling tiles concurrently with abatement of fittings/elbows under negative pressure containment.

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RHODE ISLAND DEPARTMENT OF HEALTH

NOTARIZED CERTIFICATION OF ASBESTOS ABATEMENT PLAN

Facility: **University of Rhode Island – Aldrich Hall**

Address: **Kingston Campus**

City/Town: **Kingston Campus** Zip: **02881** Amendment Phase No:

Abatement Plan Written By: **Daniel Simas** Certification No: **AAC-567-PD**

Summary of specific waivers/variances being requested: **see attachment #4**_____

Type of Asbestos Abatement (**X**) Removal ( ) Enclosure ( ) Encapsulation
( ) Demolition ( ) Glovebag ( ) Asphalt Roofing
( ) Other (specify) _____

Is this plan being submitted in response to a Notice of Violation and/or a Notice of Requirement to Submit an Asbestos Abatement Plan? ( ) Yes (**X**) No

If yes, Indicate Notice/Building Evaluation No(s):
Contractor: **To Be Selected** License No: LAC-

Estimated Starting Date: **2/25/13**

Pre-Abatement Sampling Information

Bulk Samples Collected By: **Charles E. Prescott III** Certification No: **AAC-0642IS**

Bulk Samples Analyzed By: **RI Analytical Laboratories Inc.** Certification No: **AAL-008C3**

Air Samples Analyzed By: **RI Analytical Laboratories Inc.** Certification No: **AAL-008C3**

Clearance Air Sampling Information

Air Samples to be Collected By: **RIAL Personnel**

Air Samples to be Analyzed By: **RIAL** Certification No: **AAL-008C3**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by: _____ Title: _____
(Signature of Building Owner or Agent)

_____ Date: _____
(Typed/Printed Name of Certifier)

Subscribed and sworn before me this _____ day of _____, 20_____

_____ My Commission Expires: _____
(Notary Public)

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:
University of Rhode Island

2. Application Prepared By:

Daniel Simas

RI certification No: **AAC-567-PD**

Telephone No: **401-737-8500 ext 121**
(Area code, No., Ext.)

3. Building Owner's Mailing Address and Telephone Number:

Street: **177 Plains Road**

City/Town: **Kingston**

Zip: **02881**

Telephone No.: **401-874-2591**
(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **David Welsh**

Telephone No: **401-874-5500**
(Area Code, No., Ext.)

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5. Location where abatement work will be performed:

Name (if applicable): **URI – Aldrich Hall**

Street: **Kingston Campus**

City/Town: **Kingston** Zip: **02881**

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6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? ( ) Yes (**X**) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

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7. Contractor who will be performing abatement work (if selected):

Name: **To be selected** R.I. License No.: LAC-

8. Estimated Starting Date of Abatement Work **02** (Month) **25** (Day) **2013** (Year)

9. Estimated Completion Date of Abatement Work: **12** (Month) **31** (Day) **2013** (Year)

10. Type of Asbestos Abatement: **(Check all that apply)**

(**X**) Removal
( ) Encapsulation
( ) Operations and Maintenance Only
( ) Other (Specify):
( ) Enclosure
( ) Demolition

11. Type of Building:

( ) School
( ) Privately Owned Building
(**X**) Publicly Owned Building
( ) Residence
( ) Other (Specify) _____

12. Building Access:

( ) Public Access (≥ 25% of Building Area)
( ) Limited Public Access (< 25% of Building Area)
(**X**) No Public Access

13. Bulk Sample Collection and Analysis:

A). Person collecting bulk samples:

Name: **Charles E. Prescott III** RI Certification No.: **AAC-642-IS**

B). Sampling Methodology:

(**X**) EPA AHERA Sampling requirements [40 CFR 763.86].

( ) EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-405/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024)

( ) Other (Specify) _____

C). Laboratory performing the analysis of the bulk samples

Name: **RI Analytical Laboratories** RI Certification No.: **AAL-008C3**_____

D). Analytical Methodology:

(**X**) EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples [PLM method only].

( ) Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis:

A). Person collecting pre-abatement air samples:

Name: **RIAL Personnel** Affiliation: **RIAL**

B). Laboratory performing analysis of pre-abatement air samples.
Name: **RIAL** RI Certification No.: **AAL-008C3**

C). Methodology used in the collection and analysis of pre-abatement samples:

(**X**) NIOSH Method 7400 [Most Current Revision]

( ) OSHA 29 CFR 1926.1101 – Appendix A & B

( ) Other (Specify) _____

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15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined_____

B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined_____

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16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name:_____**RI Analytical Personnel**_____

Affiliation: _____**RIAL**_____

17. In-Process & Clearance Air Sampling: **See Attachment #1**

    A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.

    B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.

    C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.

    D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.

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18. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

    Area 1 – 1st Floor
    Area 2 – 2nd Floor
    Area 3 – 3rd Floor
    Area 4 – 4th Floor

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19. I certify that this plan was prepared by me and I am responsible for its content.

    Signature: _____ Date 2/6/13
    (Month) (Day) (Year)

    Affiliation: **RI Analytical Laboratories, Inc**

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20. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

( ) Operation & Maintenance Only	$ 75
( ) Up to One (1) NESHAP Unit	$ 75
( ) Between One (1) & Ten (10) NESHAP Units	$ 300
( ) Between Ten (10) & Fifty (50) NESHAP Units	$ 600
( ) Over Fifty (50) NESHAP Units	$ 900
(**X**) RI State Agency Waived Application Fee	

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **Aldrich Hall, University of Rhode Island Kingston Campus**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

---

(1) Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – 1st Floor

---

(2) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

---

(3) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

---

(4) PROPOSED REMEDIES:

A). Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B). Will any portion of this area be abated by use of B.8 work procedures?
(**X**) Yes ( ) No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3	[REMOVAL]	**Pipe Fittings**
B.8.2 & B.8.4	[ENCAPSULATION]	_____
B.8.2 & B.8.5	[ENCLOSURE]	_____
B.8.6	[DEMOLITION]	_____
B.8.7	[GLOVEBAG]	_____
B.8.8	[ASP. ROOFING]	_____

C). Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

( ) Yes (**X**) No

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D). Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

( ) Yes (**X**) No
If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

E). Will any RACM remain in this area after abatement?

( ) Yes ( ) No (**X**) Beyond scope of inspection
If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b). **See Attachment 4**

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **Aldrich Hall, University of Rhode Island Kingston Campus**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

---

(5) Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 2 – 2nd Floor

---

(6) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

---

(7) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

---

(8) PROPOSED REMEDIES:

F). Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

G). Will any portion of this area be abated by use of B.8 work procedures?
(**X**) Yes ( ) No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3	[REMOVAL]	**Pipe Fittings**
B.8.2 & B.8.4	[ENCAPSULATION]	_____
B.8.2 & B.8.5	[ENCLOSURE]	_____
B.8.6	[DEMOLITION]	_____
B.8.7	[GLOVEBAG]	_____
B.8.8	[ASP. ROOFING]	_____

H). Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

( ) Yes (**X**) No

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

I). Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

( ) Yes (**X**) No
If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

J). Will any RACM remain in this area after abatement?

( ) Yes ( ) No (**X**) Beyond scope of inspection
If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b). **See Attachment 4**

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **Aldrich Hall, University of Rhode Island Kingston Campus**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

---

(9) Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 3 – 3rd Floor

---

(10) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

---

(11) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

---

(12) PROPOSED REMEDIES:

K). Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

L). Will any portion of this area be abated by use of B.8 work procedures?
(**X**) Yes ( ) No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3	[REMOVAL]	**Pipe Fittings**
B.8.2 & B.8.4	[ENCAPSULATION]	_____
B.8.2 & B.8.5	[ENCLOSURE]	_____
B.8.6	[DEMOLITION]	_____
B.8.7	[GLOVEBAG]	_____
B.8.8	[ASP. ROOFING]	_____

M). Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

( ) Yes (**X**) No

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

N). Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

( ) Yes (**X**) No
If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

O). Will any RACM remain in this area after abatement?

( ) Yes ( ) No (**X**) Beyond scope of inspection
If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b). **See Attachment 4**

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **Aldrich Hall, University of Rhode Island Kingston Campus**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

---

(13) Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 4 – 4th Floor

---

(14) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

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(15) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

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(16) PROPOSED REMEDIES:

P). Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

Q). Will any portion of this area be abated by use of B.8 work procedures?
(**X**) Yes ( ) No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3	[REMOVAL]	**Pipe Fittings**
B.8.2 & B.8.4	[ENCAPSULATION]	_____
B.8.2 & B.8.5	[ENCLOSURE]	_____
B.8.6	[DEMOLITION]	_____
B.8.7	[GLOVEBAG]	_____
B.8.8	[ASP. ROOFING]	_____

R). Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

( ) Yes (**X**) No

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

S). Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

( ) Yes (**X**) No
If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

T). Will any RACM remain in this area after abatement?

( ) Yes ( ) No (**X**) Beyond scope of inspection
If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b). **See Attachment 4**

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

A. RI Analytical will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.

B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.

C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect:

Area 1 through 4 – A minimum of 2 PCM Clearance Air Samples per containment.

D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

Description of Asbestos Containing Material

Aldrich Hall – WO#1301-00249

Sample ID	Description	Location	Quantity	Asbestos %
01A-C	Pipe Fittings	Bathrooms – Above ceilings/behind walls	~200 lf	1-5% Chrysotile

It is the contractor's responsibility to verify all quantities.

ATTACHMENT #2 (Cont.)

Laboratory Analysis Reports:

1. Bulk Sampling Results
2. Pre-Abatement Bulk Sample Results

R.I. ANALYTICAL
Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)
Attn: Mr. Chad Prescott
41 Illinois Avenue
Warwick, RI 02888

Date Received: 1/4/2013
Date Reported: 1/10/2013
Work Order #: 1301-00249

Site Location:PROJECT #120790 URI ALDRICH HALL BATHROOMS

Enclosed please find your sample(s) analysis results for asbestos content. The six asbestos types include amosite, chrysotile, crocidolite, anthophyllite, tremolite, and actinolite.

METHODOLOGY: Polarized Light Microscopy (PLM) as suggested by EPA/600/R-93/116, July 1993 edition.

If the samples are found to be inhomogeneous, individual components will be analyzed separately. If individual components cannot be separated, the samples will be homogenized and a single result will be provided for the entire sample.

Sample results pertain only to items tested. The report must not be reproduced except in full with permission of R.I. Analytical. Samples submitted for analysis will be retained for three months for your future reference.

Our laboratory maintains NVLAP accreditation for bulk asbestos fiber analysis NVLAP lab code 101440-0.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government.

If you have any questions regarding this report, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)
Date Received: 1/4/2013
Work Order #: 1301-00249
Site Location:PROJECT #120790 URI ALDRICH HALL BATHROOMS

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS		DATE ANALYZED	ANALYST
001	01A PIPE FITTING	PLM Fiber Analysis				
		Asbestos	POSITIVE		1/9/2013	EVH
		Chrysotile	1-5	%	1/9/2013	EVH
		Cellulose	1-5	%	1/9/2013	EVH
		Glass Fiber	5-15	%	1/9/2013	EVH
		Non-fibrous	75-93	%	1/9/2013	EVH
		Sample Color	Gray		1/9/2013	EVH
002	01B PIPE FITTING	PLM Fiber Analysis				
		Asbestos	POSITIVE		1/9/2013	EVH
		Chrysotile	1-5	%	1/9/2013	EVH
		Cellulose	1-5	%	1/9/2013	EVH
		Glass Fiber	5-15	%	1/9/2013	EVH
		Non-fibrous	75-93	%	1/9/2013	EVH
		Sample Color	Gray		1/9/2013	EVH
003	01C PIPE FITTING	PLM Fiber Analysis				
		Asbestos	POSITIVE		1/9/2013	EVH
		Chrysotile	1-5	%	1/9/2013	EVH
		Cellulose	1-5	%	1/9/2013	EVH
		Glass Fiber	5-15	%	1/9/2013	EVH
		Non-fibrous	70-93	%	1/9/2013	EVH
		Sample Color	Gray		1/9/2013	EVH
004	02A SKIM COAT	PLM Fiber Analysis				
		Asbestos	NEGATIVE		1/9/2013	EVH
		Non-fibrous	100	%	1/9/2013	EVH
		Sample Color	White		1/9/2013	EVH

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)
Date Received: 1/4/2013
Work Order #: 1301-00249
Site Location:PROJECT #120790 URI ALDRICH HALL BATHROOMS

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS		DATE ANALYZED	ANALYST
005	02B SKIM COAT	PLM Fiber Analysis				
		Asbestos	NEGATIVE		1/9/2013	EVH
		Non-fibrous	100	%	1/9/2013	EVH
		Sample Color	White		1/9/2013	EVH
006	02C SKIM COAT	PLM Fiber Analysis				
		Asbestos	NEGATIVE		1/9/2013	EVH
		Non-fibrous	100	%	1/9/2013	EVH
		Sample Color	White		1/9/2013	EVH
007	03A PLASTER	PLM Fiber Analysis				
		Asbestos	NEGATIVE		1/9/2013	EVH
		Non-fibrous	100	%	1/9/2013	EVH
		Sample Color	Gray		1/9/2013	EVH
008	03B PLASTER	PLM Fiber Analysis				
		Asbestos	NEGATIVE		1/9/2013	EVH
		Non-fibrous	100	%	1/9/2013	EVH
		Sample Color	Gray		1/9/2013	EVH
009	03C PLASTER	PLM Fiber Analysis				
		Asbestos	NEGATIVE		1/9/2013	EVH
		Non-fibrous	100	%	1/9/2013	EVH
		Sample Color	Gray		1/9/2013	EVH
010	04A 2 X 2 CT	PLM Fiber Analysis				
		Asbestos	NEGATIVE		1/9/2013	EVH
		Glass Fiber	40-60	%	1/9/2013	EVH
		Non-fibrous	40-60	%	1/9/2013	EVH
		Sample Color	Gray		1/9/2013	EVH

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)
Date Received: 1/4/2013
Work Order #: 1301-00249
Site Location:PROJECT #120790 URI ALDRICH HALL BATHROOMS

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS		DATE ANALYZED	ANALYST
011	04B 2 X 2 CT	PLM Fiber Analysis				
		Asbestos	NEGATIVE		1/9/2013	EVH
		Glass Fiber	40-60	%	1/9/2013	EVH
		Non-fibrous	40-60	%	1/9/2013	EVH
		Sample Color	Gray		1/9/2013	EVH
012	04C 2 X 2 CT	PLM Fiber Analysis				
		Asbestos	NEGATIVE		1/9/2013	EVH
		Glass Fiber	40-60	%	1/9/2013	EVH
		Non-fibrous	40-60	%	1/9/2013	EVH
		Sample Color	Gray		1/9/2013	EVH
013	05 2 X 2 PINHOLE FISSURE	PLM Fiber Analysis				
		Asbestos	NEGATIVE		1/9/2013	EVH
		Non-fibrous	100	%	1/9/2013	EVH
		Sample Color	Gray		1/9/2013	EVH

Project #120790
URI
Aldrich Hall
Bathrooms

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors, maintenance personnel and staff associated with Aldrich Hall are aware of the presence and location of ACBM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACBM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos- containing material shall be trained and certified as a Competent Person as described by the R.I. Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACBM.

ATTACHMENT #4

Scope of Work / Description of Waivers

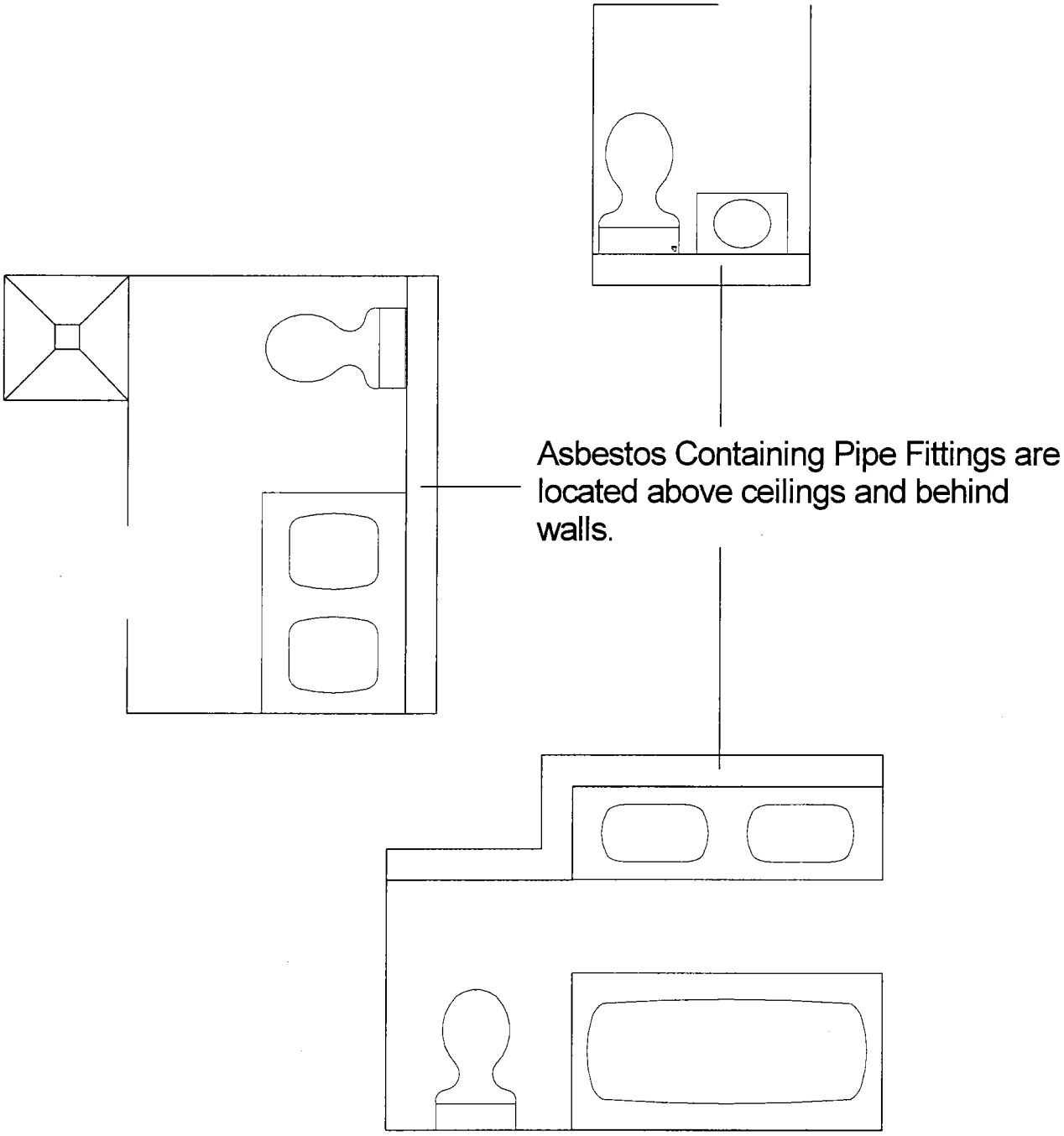
All proper OSHA, federal, state, and local safety regulations shall be followed.

All materials will be removed utilizing B8.2 and B8.3 work procedures.

RI Analytical requests a waiver on signage through out the entire building; instead signage shall be placed in the immediate work area. All immediate entrances to the abatement areas will be marked with the appropriate signage and only accessed by the contractors associated with the project.

URI - Aldrich Hall Bathrooms

Typical Bathrooms Within Aldrich Hall



University of Rhode Island - Roger Williams Complex
Asbestos ceiling tile quantification

Aldrich Hall	Room #	Approx s.f.
First Level		
Tower A	A100F	0
	A102	0
total		0
Tower B	B100C	0
	B111	0
total		0
Tower C	C100F	0
	C126	0
total		0
Second Level		
Tower A	A200E	0
	A200F	0
	A201E	0
	A201F	0
total		0
Tower B	B200E	0
	B200F	0
	B201E	0
	B201F	0
total		0
Tower C	C200E	0
	C200F	0
	C201F	0
	C201G	0
total		0
Third Level		
Tower A	A300E	0
	A300F	0
	A301E	0
	A301F	0
total		0
Tower B	B300E	0
	B300F	0
	B301E	0
	B301F	0
total		0
Tower C	C300E	0
	C300F	0
	C301F	0
	C301G	0
total		0

Building Name	Room #	Approx s.f.
Fourth Level		
Tower A	A400E	0
	A400F	0
	A401E	0
	A401F	0
total		0
Tower B	B400E	0
	B400F	0
	B401E	0
	B401F	0
total		0
Tower C	C400E	0
	C400F	0
	C401F	0
	C401G	0
total		0
Aldrich Hall Total		0

* Denotes fiberous ceiling tile yet to be confirmed as asbestos containing

University of Rhode Island - Roger Williams Complex
Asbestos ceiling tile quantification

Burnside Hall	Room #	Approx s.f.
First Level		
Tower A	A100F	0
	A103	0
total		0
Tower B	B100F	0
	B103	0
total		0
Tower C	C102	0
	C112C	0
total		0
Tower D	D100F	0
	D102	0
total		0
Tower E	E100F	0
	E102	0
total		0
Second Level		
Tower A	A200E	0
	A200F	0
	A201E	0
	A201F	0
total		0
Tower B	B200E	0
	B200F	0
	B201E	0
	B201F	0
total		0
Tower C	C200E	0
	C200F	0
	C201F	0
	C201G	0
total		0
Tower D	D200E	0
	D200F	0
	D201E	0
	D201F	0
total		0
Tower E	E200F	0
	E200G	0
	E201E	0
	E201F	0
total		0

Building Name	Room #	Approx s.f.
Third Level		
Tower A	A300E	0
	A300F	0
	A301E	0
	A301F	0
total		0
Tower B	B300E	0
	B300F	0
	B301E	0
	B301F	0
total		0
Tower C	C300E	0
	C300F	0
	C301F	0
	C301G	0
total		0
Tower D	D300E	0
	D300F	0
	D301E	0
	D301F	0
total		0
Tower E	E300F	0
	E300G	0
	E301E	0
	E301F	0
total		0

* Denotes fiberous ceiling tile yet to be confirmed as asbestos containing

University of Rhode Island - Roger Williams Complex
Asbestos ceiling tile quantification

Burnside Hall	Room #	Approx s.f.	Building Name	Room #	Approx s.f.
Fourth Level					
Tower A	A400E	0			
	A400F	*31			
	A401E	0			
	A401F	0			
total		*31			
Tower B	B400E	0			
	B400F	0			
	B401E	0			
	B401F	0			
total		0			
Tower C	C400E	0			
	C400F	0			
	C401F	0			
	C401G	0			
total		0			
Tower D	D400E	0			
	D400F	0			
	D401E	0			
	D401F	0			
total		0			
Tower E	E400F	0			
	E400G	0			
	E401E	0			
	E401F	0			
total		0			
Burnside Hall Total		*31			

* Denotes fiberous ceiling tile yet to be confirmed as asbestos containing

University of Rhode Island - Roger Williams Complex
Asbestos ceiling tile quantification

Coddington Hall	Room #	Approx s.f.
First Level		
Tower A	A100F	1
	A103	0
total		1
Tower B	B100E	0
	B103	0
total		0
Tower C	C100C	0
	C102	0
total		0
Tower D	D100F	0
	D105	0
total		0
Tower E	E100F	0
	E106	0
total		0
Second Level		
Tower A	A200E	0
	A200F	0
	A201E	0
	A201F	0
total		0
Tower B	B200E	0
	B200F	0
	B201E	0
	B201F	0
total		0
Tower C	C200E	0
	C200F	0
	C201F	0
	C201G	0
total		0
Tower D	D200E	0
	D200F	0
	D201E	0
	D201F	0
total		0
Tower E	E200F	0
	E200G	0
	E201E	0
	E201F	0
total		0

Building Name	Room #	Approx s.f.
Third Level		
Tower A	A300E	0
	A300F	0
	A301E	*6
	A301F	*24
total		*30
Tower B	B300E	0
	B300F	0
	B301E	0
	B301F	0
total		0
Tower C	C300E	0
	C300F	0
	C301F	0
	C301G	0
total		0
Tower D	D300E	0
	D300F	0
	D301E	0
	D301F	0
total		0
Tower E	E300F	0
	E300G	0
	E301E	0
	E301F	0
total		0

* Denotes fiberous ceiling tile yet to be confirmed as asbestos containing

University of Rhode Island - Roger Williams Complex
Asbestos ceiling tile quantification

Coddington Hall	Room #	Approx s.f.	Building Name	Room #	Approx s.f.
Fourth Level					
Tower A	A400E	0			
	A400F	0			
	A401E	0			
	A401F	0			
total		0			
Tower B	B400E	0			
	B400F	0			
	B401E	0			
	B401F	0			
total		0			
Tower C	C400E	0			
	C400F	0			
	C401F	0			
	C401G	0			
total		0			
Tower D	D400E	0			
	D400F	0			
	D401E	0			
	D401F	0			
total		0			
Tower E	E400F	0			
	E400G	0			
	E401E	0			
	E401F	0			
total		0			
Coddington Hall Total		*30			
		1			

* Denotes fiberous ceiling tile yet to be confirmed as asbestos containing

University of Rhode Island - Roger Williams Complex
Asbestos ceiling tile quantification

Dorr Hall	Room #	Approx s.f.
First Level		
Tower A	A100F	0
	A100G	0
	A102	
total		0
Tower B	B100C	0
	B103	0
total		0
Tower C	C100F	10
	C100G	0
	C102	0
total		10
Tower D	D100F	32
	D100G	20
	D102	0
total		52
Second Level		
Tower A	A200E	40
	A200F	29
	A201E	0
	A201F	0
total		69
Tower B	B200E	6
	B200F	13
	B201F	27
	B201G	41
total		87
Tower C	C200E	41
	C200F	31
	C201E	0
	C201F	36
total		108
Tower D	D200E	31
	D200F	10
	D201F	3
	D201G	39
total		83
Third Level		
Tower A	A300E	10
	A300F	16
	A301E	20
	A301F	41
total		87

Building Name	Room #	Approx s.f.
Tower B	B300E	0
	B300F	0
	B301F	27
	B301G	30
total		57
Tower C	C300E	41
	C300F	25
	C301E	0
	C301F	43
total		109
Tower D	D300E	38
	D300F	7
	D301F	18
	D301G	0
total		63
Fourth Level		
Tower A	A400E	43
	A400F	*31
	A401E	0
	A401F	45
total		*31 + 88
Tower B	B400E	29
	B400F	12
	B401F	25
	B401G	4
total		70
Tower C	C400E	22
	C400F	0
	C401E	*21
	C401F	*35 + 8
total		*56 + 30
Tower D	D400E	6
	D400F	0
	D401F	23
	D401G	0
total		29
Dorr Hall Total		*87
		942

* Denotes fiberous ceiling tile yet to be confirmed as asbestos containing

University of Rhode Island - Roger Williams Complex
Asbestos ceiling tile quantification

Ellery Hall	Room #	Approx s.f.
First Level		
Tower A	A100C	0
	A104	0
total		0
Tower B	B100E	0
	B100F	30
	B105	8
total		38
Tower C	C100G	24
	C100H	38
	C103	0
total		62
Second Level		
Tower A	A200F	27
	A200G	0
	A201E	0
	A201F	0
total		27
Tower B	B200E	28
	B200F	14
	B201E	16
	B201F	36
total		94
Tower C	C200E	10
	C200F	39
	C201F	34
	C201G	20
total		103
Third Level		
Tower A	A300F	
	A300F	28
	A301E	
	A301F	
total		28
Tower B	B300E	14
	B300F	10
	B301E	10
	B301F	16
total		50
Tower C	C300E	0
	C300F	45
	C301F	39
	C301G	26
total		110

Building Name	Room #	Approx s.f.
Fourth Level		
Tower A	A400F	34
	A400G	24
	A401E	0
	A401F	37
total		95
Tower B	B400E	28
	B400F	41
	B401E	10
	B401F	39
total		118
Tower C	C400E	0
	C400F	30
	C401F	39
	C401G	26
total		95
Ellery Hall Total		820

* Denotes fiberous ceiling tile yet to be confirmed as asbestos containing

University of Rhode Island - Roger Williams Complex
Asbestos ceiling tile quantification

Hopkins Hall	Room #	Approx s.f.
First Level		
Tower A	A100F	0
	A100G	0
	A102B	0
total		0
Tower B	B100C	0
	B105	0
total		0
Tower C	C100F	0
	C100G	0
	C104	0
total		0
Second Level		
Tower A	A200E	0
	A200F	0
	A201E	*30
	A201F	0
total		*30
Tower B	B200E	0
	B200F	0
	B201E	0
	B201F	*12
total		*12
Tower C	C200E	0
	C200F	0
	C201E	0
	C201F	0
total		0
Third Level		
Tower A	A300F	0
	A300F	0
	A301E	0
	A301F	0
total		0
Tower B	B300E	0
	B300F	0
	B301E	0
	B301F	0
total		0
Tower C	C300E	0
	C300F	*12
	C301E	0
	C301F	0
total		*12

Building Name	Room #	Approx s.f.
Fourth Level		
Tower A	A400E	0
	A400F	0
	A401E	0
	A401F	0
total		0
Tower B	B400E	0
	B400F	0
	B401E	0
	B401F	0
total		0
Tower C	C400E	0
	C400F	0
	C401E	0
	C401F	0
total		0
Hopkins Hall Total		*54

* Denotes fiberous ceiling tile yet to be confirmed as asbestos containing

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. The Contractor, Subcontractors, and/or suppliers providing goods or services referenced in or related to this Section shall also be bound by the Documents identified in Division 01 Section "Summary", Paragraph 1.1A, entitled "Related Documents."

1.2 SUMMARY

A. This Section includes the following:

1. Commercial door hardware for the following:
   a. Swinging doors.
2. Cylinders for doors specified in other Sections.
3. Online Wireless Access Control System.

B. Related Sections include the following:

1. Division 08 Section "Access Doors and Frames" for access door hardware, except cylinders.
2. Division 26 Sections for connections to electrical power system and for low-voltage wiring work.

1.3 SUBMITTALS

A. Product Data: Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: Details of electrified door hardware, indicating the following:

1. Wiring Diagrams: Power, signal, and control wiring. Include the following:

   a. System schematic.
   b. Point-to-point wiring diagram.
   c. Riser diagram.
   d. Elevation of each door.

2. Detail interface between electrified door hardware and fire alarm, access control, and/or security systems. Coordinate installation details for electrified door hardware with approved shop drawings for these systems.
3. Operation Narrative: Describe the operation of doors controlled by electrified door hardware.

C. Samples for Verification: For exposed door hardware of each type, in specified finish, full size. Tag with full description for coordination with the door hardware sets. Submit Samples before, or concurrent with, submission of the final door hardware sets.

1. Samples will be returned to Contractor. Units that are acceptable and remain undamaged through submittal, review, and field comparison process may, after final check of operation, be incorporated into the Work, within limitations of keying requirements.

D. Product Certificates: For electrified door hardware, signed by product manufacturer.

1. Certify that door hardware approved for use on types and sizes of labeled fire doors complies with listed fire door assemblies.

E. Qualification Data: For Architectural Hardware Consultant.

F. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for locks, latches, and closers.

G. Maintenance Data: For each type of door hardware to include in maintenance manuals. Include the following:

1. Final hardware schedule, as-built.
2. Keying schedule.
3. Product cut sheets for each item installed.
4. Parts list and numbers for each item installed.
5. Maintenance information for each item installed.
6. Name, address and phone number of local representative of each item installed.

H. Warranty: Special warranty specified in this Section.

I. Other Action Submittals:

1. Door Hardware Sets: Prepared by or under the supervision of the Architectural Hardware Consultant, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final door hardware sets with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

a. Format: Use same scheduling sequence and format and use same door numbers as in the Contract Documents.
b. Content: Include the following information:

1) Identification number, location, hand, fire rating, and material of each door and frame.
2) Type, style, function, size, quantity, and finish of each door hardware item. Include description and function of each lockset and exit device.
3) Complete designations of every item required for each door or opening including name and manufacturer.
4) Fastenings and other pertinent information.
5) Location of each door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.

6) Explanation of abbreviations, symbols, and codes contained in schedule.
7) Mounting locations for door hardware.
8) Door and frame sizes and materials.
9) Description of each electrified door hardware function, including location, sequence of operation, and interface with other building control systems.

    a) Sequence of Operation: Include description of component functions that occur in the following situations: authorized person wants to enter; authorized person wants to exit; unauthorized person wants to enter; unauthorized person wants to exit.

10) List of related door devices specified in other Sections for each door and frame.
11) Name, address and phone number of local representative of each item installed.

c. Submittal Sequence: Submit the final door hardware sets at earliest possible date, particularly where approval of the door hardware sets must precede fabrication of other work that is critical in Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the door hardware sets.

2. Keying Schedule: Prepared by or under the supervision of Architectural Hardware Consultant and following Keying Conference, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: An employer of workers trained and approved by lock manufacturer.

1. Installer's responsibilities include supplying and installing door hardware, and providing a qualified Architectural Hardware Consultant available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.
2. Installer shall have warehousing facilities in Project's vicinity.
3. Scheduling Responsibility: Preparation of door hardware and keying schedules.
4. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.

B. Architectural Hardware Consultant Qualifications: A person who is currently certified by DHI as an Architectural Hardware Consultant and who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project.

1. Electrified Door Hardware Consultant Qualifications: A qualified Architectural Hardware Consultant who is experienced in providing consulting services for electrified door hardware installations.

C. Source Limitations: Obtain each type and variety of door hardware from a single manufacturer, unless otherwise indicated.

1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated. Manufacturers that perform electrical modifications and that are listed by a testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.

D. Fire-Rated Door Assemblies: Where fire-rated door assemblies are indicated, provide door hardware rated for use in assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252 or UL 10C, unless otherwise indicated.

E. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.

F. Regulatory Requirements: Comply with applicable provisions in ADA-ABA Accessibility Guidelines, and ICC/ANSI A117.1 – 2003.

1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.
2. Comply with the following maximum opening-force requirements:

a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf applied perpendicular to door.
b. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.

3. Adjust door closer sweep periods so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the leading edge of the door.

G. Keying Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." In addition to Owner, Contractor, and Architect, conference participants shall also include Installer's Architectural Hardware Consultant. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:

1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
2. Preliminary key system schematic diagram.
3. Address for delivery of keys.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.

B. Tag each item or package separately with identification related to the final door hardware sets, and include basic installation instructions, templates, and necessary fasteners with each item or package.

1. Each item to be individually packaged in manufacturer's original container.

C. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.6 COORDINATION

A. Templates: Distribute door hardware templates for doors, frames, and other work specified to be factory prepared for installing door hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Structural failures including excessive deflection, cracking, or breakage.
b. Faulty operation of operators and door hardware.
c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.

2. Warranty Period: One year from date of Substantial Completion, except as follows:

a. Manual Closers: 10 years from date of Substantial Completion.
b. Hinges: Lifetime.

1.8 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish two complete sets of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware. Furnish two extra fasteners of each type and finish installed.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in this Section, door hardware sets indicated in door and frame schedule, and door hardware sets indicated in Door Schedule.

1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated.
2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.

B. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 HINGES

A. Hinges: BHMA A156.1. Provide template-produced hinges for hinges installed on hollow-metal frames.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. Hager Companies.
   b. McKinney Products Company; an ASSA ABLOY Group company.
   c. Stanley Commercial Hardware; Div. of The Stanley Works.

B. Antifriction-Bearing, Full-Mortise (Butt) Hinges: BHMA A156.1, heavy weight; Grade 2, with 2 ball bearings; button tips; nonrising removable pins; and base metal as follows:

1. Base Metal: Stainless steel.
2. Corners: Square.

C. Quantity: Provide the following:

1. Three Hinges: For doors with heights 61 to 90 inches.

D. Fasteners: Comply with the following:

1. Machine Screws: For metal doors and frames. Install into drilled and tapped holes.
2. Wood Screws: For wood doors and frames.
3. Threaded-to-the-Head Wood Screws: For fire-rated wood doors.
4. Screws: Phillips flat-head. Finish screw heads to match surface of hinges.

2.3 MECHANICAL LOCKS AND LATCHES

A. Lock Functions: As indicated in door hardware schedule.

B. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:

1. Mortise Locks: Minimum 3/4-inch latchbolt throw.

C. Backset: 2-3/4 inches.

D. Lock Trim:

1. Levers: Wrought Brass or bronze.
2. Escutcheons (Roses): Wrought brass or bronze plated to match lever finish.
3. Lockset Design: Broadway.
4. Finish: 26D Satin Chromium Plated.

E. Strikes: Manufacturer's standard strike with strike box for each latchbolt or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.

F. Mortise Locks: BHMA A156.13; Operational Grade 1; stamped steel case with steel or brass parts; Series 1000.

1. Basis-of-Design Product: Subject to compliance with requirements, provide **Arrow USA, an ASSA ABLOY Group company; BM Series.**

2.4 LOCK CYLINDERS

A. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver.

1. Basis-of-Design Product: Subject to compliance with requirements, provide **Arrow USA, an ASSA ABLOY Group company; BM Series 16CR-16.**

B. Standard Lock Cylinders: BHMA A156.5; Grade 1; permanent cores that are interchangeable; face finished to match lockset.

1. Number of Pins: Six.
2. Type: Mortise type.

C. Permanent Cores: Manufacturer's standard; finish face to match lockset; complying with the following:

1. Interchangeable Cores: Core insert, removable by use of a special key; usable with other manufacturers' cylinders, employing “restricted keyway.”

2.5 KEYING

A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, Appendix A. Incorporate decisions made in keying conference, and as follows:

1. Grand Master Key System: Cylinders are operated by a change key, a master key, and a grand master key.
2. Existing System: Master key or grand master key locks to Owner's existing system.

B. Keys: Nickel silver.

1. Quantity: In addition to one extra key blank for each lock, provide the following:

a. Cylinder Change Keys: Three.
b. Master Keys: Five.
c. Grand Master Keys: Five.

2.6 STOPS AND HOLDERS

A. Basis-of-Design Product: Subject to compliance with requirements, provide products by **IVES Hardware; an Ingersoll-Rand Company**, or comparable product by one of the following:

1. Burns Manufacturing Incorporated.
2. Glynn-Johnson; an Ingersoll-Rand Company.
3. Hager Companies.
4. Rockwood Manufacturing Company.
5. Trimco.

B. Stops and Bumpers: BHMA A156.16, Grade 1.

C. Dome-Type Floor Stops: Polished cast brass, bronze, or aluminum, with rubber bumper; and as follows:

1. Height: Minimum 1 inch high, for doors without threshold, 1-3/8 inches high, for doors with threshold.

2.7 MISCELLANEOUS DOOR HARDWARE

A. Silencers for Metal Door Frames: Grade 1; neoprene or rubber; minimum diameter 1/2 inch; fabricated for drilled-in application to frame.

B. Fire-Rated Door Viewers: Solid brass with optical glass lenses; listed and labeled for use in fire-rated door assemblies; adjustable to door thickness, and permitting 1-way observation with minimum 120-degree viewing angle.

2.8 ACCESS CONTROL DEVICES - ON LINE WIRELESS ACCESS CONTROL SYSTEM

A. IP Enabled Wireless Integrated Card Reader Bored Lock: IP enabled, WiFi™ ANSI/BHMA A156.2 Grade 1 bored lockset with integrated proximity card reader and request-to-exit signaling in one complete unit. Motor driven locking/unlocking control of the lever handle trim with 1/2" deadlocking stainless steel latch. Lock is U.L listed and labeled for use on up to 3 hour fire rated openings.

1. Completely intelligent and integrated locking unit with network communication connection capability directly from the locking unit back to the central system host server without additional access control interfaces or components (excluding wireless access points) via an existing or newly installed 802.11b/g wireless network.
2. Networked locks are able to read, analyze, and control access to level of authorization encoded on keycard. Real-time software accessible alarms for forced door, unknown card and door held open, with inside lever handle (request-to-exit) signaling and door position (open/closed status) monitoring (via separately connected in-door DPS)..
3. 2,400 users and 10,000 event transaction history (audit trail). Distributed intelligence allows stand alone operation in absence of network communication allowing for system operational redundancy.
4. Access by HID 125 kHz proximity technology, 13.56 smart/iClass or,
5. Access by vertical swiping of magnetic stripe card and/or keypad pin number or by vertical swiping of magnetic stripe card only.

    a. Card track: Track 2.

6. Advanced data security techniques including AES 128-bit encryption changing with every exchange. Supportive of open standard WiFi™ network security including: WEP, WPA, and LEAP.
7. Emergency override access capability through system-generated special access keycards and keypad codes, which are time, date, and location specific.

    a. Provide high security mechanical key override capability with no electronic activation necessary for latch or lock retraction.

8. 9VDC power provided by (6) AA batteries for completely wireless applications.
9. Real-time lockdown capabilities with separate external 9VDC power supply, hard wiring option.
10. Ethernet system framework, 802.11 b/g wireless access points, and back-up power supplies (by others) required for complete system functionality.

    a. Comply with IEEE 802.11b/g WiFi standard for Wireless LAN communications.
    b. Frequency Range: Worldwide product covering 2.4 to 2.5 GHz, programmable for different country regulations.
    c. Maximum Output Power: 100 mW.
    d. Power Management: Continuous aware power saving polling mode.

11. Manufacturer/Model:
    a. Sargent Manufacturing (SA) - Passport 1000 - 10-Line P2 Series.

2.9 FABRICATION

A. Manufacturer's Nameplate: Do not provide products that have manufacturer's name or trade name displayed in a visible location except in conjunction with required fire-rated labels and as otherwise approved by Architect.

1. Manufacturer's identification is permitted on rim of lock cylinders only.

B. Base Metals: Produce door hardware units of base metal, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18. Do not furnish manufacturer's standard materials or forming methods if different from specified standard.

C. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.

1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.
2. Steel Machine or Wood Screws: For the following fire-rated applications:

   a. Mortise hinges to doors.
   b. Strike plates to frames.
   c. Closers to doors and frames.

3. Steel Through Bolts: For the following fire-rated applications unless door blocking is provided:

   a. Surface hinges to doors.
   b. Closers to doors and frames.

4. Spacers or Sex Bolts: For through bolting of hollow-metal doors.
5. Fasteners for Wood Doors: Comply with requirements in DHI WDHS.2, "Recommended Fasteners for Wood Doors."

2.10 FINISHES

A. Standard: BHMA A156.18, as indicated in door hardware sets.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.11 ACCESS CONTROL HARDWARE FINISHES

A. Standard: Comply with BHMA A156.18.

B. Protect mechanical finishes on exposed surfaces from damage by applying temporary protective coverings before shipping.

C. Where specified, finishes on integrated card key locksets or exit hardware to incorporate an FDA recognized antimicrobial coating (i.e., MicroShield™) listed for use on equipment as a suppressant to the growth and spread of a broad range of bacteria, algae, fungus, mold and mildew.

D. BHMA Designations: Comply with base material and finish requirements indicated by the following:

1. BHMA 626: Satin chromium plated over nickel, over brass or bronze base metal.
2. BHMA 628: Satin aluminum, clear anodized, over aluminum base metal.
3. BHMA 630: Satin stainless steel, over stainless-steel base metal.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Steel Doors and Frames: Comply with DHI A115 Series.

1. Surface-Applied Door Hardware: Drill and tap doors and frames according to ANSI A250.6.

B. Wood Doors: Comply with DHI A115-W Series.

3.3 INSTALLATION

A. Mounting Heights: Mount door hardware units at heights indicated on Drawings, and in accordance with the Connecticut State Building Code, the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)", and ICC/ANSI A117.1 – 2003.

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."

B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 09 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

C. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than the number recommended by manufacturer for application indicated or one hinge for every 30 inches of door height, whichever is more stringent.

D. Lock Cylinders: Install construction core inserts to secure building and areas during construction period.

1. Remove construction core inserts at substantial completion for use of permanent cores as indicated in keying schedule.

E. Boxed Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings. Verify location with Architect.

1. Configuration: Provide one power supply for each door opening.

3.4 FIELD QUALITY CONTROL

A. Independent Architectural Hardware Consultant: Owner will engage a qualified independent Architectural Hardware Consultant to perform inspections and to prepare inspection reports.

1. Independent Architectural Hardware Consultant will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

1. Door Closers: Unless otherwise required by authorities having jurisdiction, adjust sweep period so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the leading edge of the door.
2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.

B. Occupancy Adjustment: Approximately three months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust, including adjusting operating forces, each item of door hardware as necessary to ensure function of doors, door hardware, and electrified door hardware.

3.6 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items as necessary to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

3.7 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Division 01 Section "Demonstration and Training."

3.8 DOOR HARDWARE SCHEDULE

<u>Door Hardware Set No. 1</u>

BEDROOMS

2	SPRING HINGES	STANLEY, 2060R 4-1/2” X 4-1/2”
1	HINGE	STANLEY, FBB179 4-1/2” X 4-1/2”
1	CYLINDER	EVEREST XS, ALL KEYED ALIKE.
1	LOCKSET	SA - PASSPORT 1000 - 10-LINE P2 SERIES, STANDARD
	.	SERIES LEVER B.
3	SILENCERS	IVES 20R, GRAY, TO BE REPLACED IF MISSING
1	DOOR VIEWER	IVES 21698

Door Hardware Set No. 2

BATHROOMS

2	SPRING HINGES	STANLEY, 2060R 4-1/2" X 4-1/2"
1	HINGE	STANLEY, FBB179 4-1/2" X 4-1/2"
1	CYLINDER	EVEREST XS
1	LOCKSET	SA - PASSPORT 1000 - 10-LINE P2 SERIES, STANDARD SERIES LEVER B, PRIVACY TOGGLE DEADBOLT.
3	SILENCER	IVES #20R, TO BE REPLACED IF MISSING
1	DOOR STOP	IVES 436

Door Hardware Set No. 3

JAN/STORAGE/DATA CLOSETS

2	SPRING HINGES	STANLEY, 2060R 4-1/2" X 4-1/2"
1	HINGE	STANLEY, FBB179 4-1/2" X 4-1/2"
1	CYLINDER	EVEREST XS
1	LOCKSET	SA - PASSPORT 1000 - 10-LINE P2 SERIES, STANDARD
.		SERIES LEVER B.
3	SILENCER	IVES #20R, TO BE REPLACED IF MISSING
1	DOOR STOP	IVES 436

Door Hardware Set No. 4

OFFICES

2	SPRING HINGES	STANLEY, 2060R 4-1/2" X 4-1/2"
1	HINGE	STANLEY, FBB179 4-1/2" X 4-1/2"
1	CYLINDER	EVEREST XS
1	LOCKSET	SA - PASSPORT 1000 - 10-LINE P2 SERIES, STANDARD SERIES LEVER B, PRIVACY TOGGLE DEADBOLT.
3	SILENCER	IVES #20R, TO BE REPLACED IF MISSING
1	DOOR STOP	IVES 436

Door Hardware Set No. 5

APARTMENT BEDROOMS

2	SPRING HINGES	STANLEY, 2060R 4-1/2" X 4-1/2"
1	HINGE	STANLEY, FBB179 4-1/2" X 4-1/2"
1	CYLINDER	EVEREST XS
1	LOCKSET	(SA) – CYLINDRICAL LOCK, STANDARD SERIES LEVER B, W/ PRIVACY TOGGLE DEADBOLT
3	SILENCER	IVES #20R, TO BE REPLACED IF MISSING
1	DOOR STOP	IVES 436

Door Hardware Set No. 6

LOUNGE, INTERIOR EGRESS

2	SPRING HINGES	STANLEY, 2060R 4-1/2" X 4-1/2"
1	HINGE	STANLEY, FBB179 4-1/2" X 4-1/2"
1	CYLINDER	EVEREST XS
1	LOCKSET	SA - PASSPORT 1000 - 10-LINE P2 SERIES, STANDARD SERIES LEVER B PULL SIDE, W/SA 8900 EXIT DEVICE PUSH SIDE.
3	SILENCER	IVES #20R, TO BE REPLACED IF MISSING
1	DOOR STOP	IVES 436

Door Hardware Set No. 7

EXTERIOR DOORS

2	SPRING HINGES	STANLEY, 2060R 4-1/2" X 4-1/2"
1	HINGE	STANLEY, FBB179 4-1/2" X 4-1/2"
1	CYLINDER	EVEREST XS
1	LOCKSET	SA EXTERIOR STANDARD SERIES LEVER B PULL SIDE, W/SA 8900 EXIT DEVICE PUSH SIDE.
3	SILENCER	IVES #20R, TO BE REPLACED IF MISSING
1	DOOR STOP	IVES 436

*Note: Electric card access control is provided by others under separate Contract.

END OF SECTION 087100