



NORTHEAST
COLLABORATIVE
ARCHITECTS

333 Westminster Street
Providence, RI
www.ncarchitects.com

Veterans Memorial Auditorium Addition Providence, RI

Phase III

ADDENDUM NUMBER 1

September 17, 2013
Page 1 of 1

BID DATE

11:00 AM

October 10, 2012

BID PERIOD HAS BEEN EXTENDED!

This Addendum forms part of the Contract Documents and modifies the original Bidding Documents dated August 12, 2013, and as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification:

Project Clarifications:

1. Pre-Bid conference was held on Wednesday, September 11, 2013 at the existing Veterans Memorial Auditorium. Copy of the attendance sheet is attached.
2. Bid date has been extended to October 10, 2013, at 11:00 am.
3. Fire Protection clarification:
 - a. New fire sprinkler coverage shall be installed in the walk in freezer. Sprinklers installed in the walk in freezer shall be dry pendent sprinklers connected to the local fire sprinkler zone. Hydraulic calculations and shop drawings must be provided for all additions or modifications to the system.
 - b. Fire sprinkler coverage in the concession area 128 and lounge 129 shall be modified to provide fire sprinkler coverage throughout the area and provide revised coverage based on wall obstructions. The installation shall be in accordance with light hazard requirements of NFPA 13. Hydraulic calculations and shop drawings must be provided for all additions or modifications to the system.
 - c. Fire sprinkler coverage shall be installed in concession area 330 to provide sprinkler coverage to the renovated area. Sprinklers shall be connected to the 2" grid of the foyer fire sprinkler zone. The installation shall be provided in accordance with light hazard requirements of NFPA 13. Hydraulic calculations and shop drawings must be provided for all additions or modifications to the system.
 - d. The contractor shall modify existing piping as necessary to provide the required demand and coverage in accordance with NFPA 13 in the areas listed above. All piping located in public areas shall be concealed behind ceilings and / or walls. Coordinate all painting and patching with the architect and owner.
4. The demolition contractor is responsible for removing any and all material required to be removed that has not tested positive for asbestos. Owner will be responsible for hazardous material abatement.
5. The electrical contractor shall make the fourth, fifth and sixth floors electrically safe for general demolition, except as noted relative to the fire alarm devices.

Veterans Memorial Auditorium Addition

Phase III

Providence, RI

ADDENDUM NUMBER 1

September 17, 2013

Page 2 of 2

Changes to Bidding Requirements:

6. Section 002113 - INSTRUCTIONS TO BIDDERS.

Change dates in Paragraph 12 to read:

“Summary of Significant Dates

ACTIVITY

DATE

Questions from Bidders due

September 20, 2013 by
2:00 pm, prevailing time

Responses to Questions Distributed to Bidders

September 25, 2013

Bids Due

October 10, 2013 by
11:30 am, prevailing time”

Changes to Specifications:

7. Add: Section 003126.23 - Hazmat Report.

Changes to Drawings:

8. Mechanical Plans:
- a. Reissue mechanical drawings: HD.01, HD.02, HD.09, H0.01, H0.03, H1.02, H1.08, H1.09 with multiple changes within each sheet.
 - b. New mechanical drawing: H1.10
9. Electrical Drawings:
- a. Reissue electrical drawings: E-001, E-100, E-200, E-301, E-302.

Attachments:

- 10. Section 003126.23 - Hazmat Report.
- 11. September 11, 2013 Pre-bid Sign-in sheet.

Veterans Memorial Auditorium Addition

Phase III

Providence, RI

ADDENDUM NUMBER 1

September 17, 2013

Page 3 of 3

12. Attached addendum drawings:

ADDENDUM DWG #	MODIFIES DWG/DET	DESCRIPTION	DATE
HD.01	HD.01	SUB BASEMENT HVAC DEMOLITION PLAN	9.17.13
HD.02	HD.02	BASEMENT HVAC DEMOLITION PLAN	9.17.13
HD.09	HD.09	ROOF LEVEL HVAC DEMOLITION PLAN	9.17.13
H0.01	H0.01	HVAC SCHEDULES AND DETAILS	9.17.13
H0.03	H0.03	HVAC SCHEDULES AND DETAILS 3	9.17.13
H1.02	H1.02	BASEMENT HVAC	9.17.13
H1.08	H1.08	SIX FLOOR HVAC	9.17.13
H1.09	H1.09	ROOF LEVEL HVAC	9.17.13
-	H1.10	HVAC SOUND ATTENUATION (Added Drawing)	9.17.13
E-001	E-001	SCHEDULES, NOTES, LEGEND & DETAILS	9.13.13
E-100	E-100	BASEMENT LIGHTING PLAN	9.13.13
E-200	E-200	BASEMENT & SUB BASEMENT POWER/SYSTEMS PLAN	9.13.13
E-301	E-301	SCHEMATICS	9.13.13
E-302	E-302	SCHEMATICS	9.13.13

END OF ADDENDUM NO. 1



Silva Environmental & Associates, Inc.

Environmental, Asbestos / Lead Consultants

HAZARDS MATERIALS INSPECTION REPORT

**THE VETERANS MEMORIAL AUDITORIUM
83 PARK STREET
PROVIDENCE, RHODE ISLAND**

OWNER/AGENT CONTACT

**DIMEO CONSTRUCTION
75 CHAPMAN STREET
PROVIDENCE, RHODE ISLAND 02905**

PREPARED BY:

SILVA ENVIRONMENTAL & ASSOCIATES INC.

**M. FRANK SILVA, PRESIDENT
INDUSTRIAL HYGIENIST
45 TRANSIT STREET, WARWICK, R.I. 02889
TEL: 401-732-3976**

**R.I. CERTIFICATION NO.:
AAC-085PD, AAC-085IS, AAC-085MP**

Date: MARCH 21, 2011

JOB NO.: 55381



Silva Environmental & Associates, Inc.

Environmental, Asbestos / Lead Consultants

March 21, 2011

Mr. Jeffery Morris, Project Manager
Dimeo Construction
75 Chapman Street
Providence, RI 02905

Re: Inspection of Veterans Memorial Auditorium (Selected areas) for Hazards Materials. The building is schedule for renovations on selected areas.

Dear Mr. Morris:

Silva Environmental & Associates, Inc. conducted an inspection for hazards assessment materials. We will be using data to complete this report from an inspection that was performed from March 8 through March 17, 2011.

Asbestos Report:

In this package you will find a site inspection summary (Exhibit I) of the suspect and confirmed asbestos containing materials that were observed by our inspectors during the survey. The purpose for this survey was to identify (ACBM) in the selected areas of building that will be affected by the renovations.

Forty four (44) samples of suspected materials were collected to determine the locations of the materials as well the type of asbestos found in the building. The samples were sent to EMSL Analytical, Inc. for analysis in accordance with the EPA 600/R-93/116.

Most asbestos containing materials found in the building were in good condition however some floor tiles were in some deterioration state.

Any suspect material that may be disturbed in the course of demolition, renovations or routine maintenance activity that is not identified in this report should be assumed to contain asbestos until sampling and laboratory analysis proves otherwise.

All drawings of locations of positive (ACBM) will be outlined on the Abatement Plan.

Since the asbestos containing materials found in the building are greater than 25 square feet and 10 linear feet respectively, an Asbestos Abatement Plan will be written by SEA accredit Project Designer for this building.

The Abatement Plan will be as written in accordance with (B.8.2 - B.8.3) of the Rhode Island Rules and Regulations.

Lead Report

See Exhibit II for the report.

Hazards Materials:

The removal and disposal of any hazards materials identified during the building inspection should be followed in accordance with state and federal regulations. The hazards materials surveyed included mercury that might be in fluorescent light bulbs, PCB's that might be in light ballasts, mercury switches in the building and a possible radioactive sources in smoke detectors.

HAZARDOUS/SPECIAL WASTE

GROUND FLOOR

ITEM	UNITS
2 Bulb 4' Fluorescent fixtures	8
4' Fluorescent bulbs	16
Smoke Detectors	7
Battery Emergency Lights	3
Exit Lights	4

FIRST FLOOR WITH LOBBY

ITEM	UNITS
2 Bulb 4' Fluorescent fixtures	58
4' Fluorescent bulbs	116
Smoke Detectors	10
Emergency Exits/Lights, Battery	2

SECOND FLOOR WITH LOBBY

ITEM	UNITS
2 Bulb 4' Fluorescent fixtures	48
4' Fluorescent bulbs	96
Smoke Detectors	8
Emergency Exit/Lights, Battery	1
Battery Emergency Lights	3
Exit Signs	3

THIRD FLOOR WITH LOBBY

ITEM	UNITS
2 Bulb 4' Fluorescent fixtures	47
4' Fluorescent bulbs	97
Smoke Detectors	7
Emergency Exit/Lights, Battery	2
Battery Emergency Lights	2
Exit signs	2

FOURTH FLOOR WITH LOBBY

ITEM	UNITS
2 Bulb 4' Fluorescent fixtures	60
4' Fluorescent bulbs	120
Smoke Detectors	5
Emergency Exit/Lights, Battery	2
Battery Emergency Lights	1

FIFTH FLOOR WITH LOBBY

ITEM	UNITS
2 Bulb 4' Fluorescent fixtures	71
4' Fluorescent bulbs	142
Smoke Detectors	4
Emergency Exit/Lights, Battery	2
Battery Emergency Lights	1
Exits Signs	1

SIXTH FLOOR WITH LOBBY

ITEM	UNITS
2 Bulb 4' Fluorescent fixtures	55
4 Bulb 4' " "	8
4' Fluorescent bulbs	142
Smoke Detectors	4
Emergency Exit/Lights, Battery	2
Battery Emergency Lights	1
Exits Signs	1

- A) **Florescent lights throughout** - PCB's content?. The ballasts for these units are assumed to contain PCBs. Usually the ballasts that are free of PCB's have labels that indicates "Free of PCB's". All the units without this particular label may contain PCB's.
- B) **Heat Sensors (Smoke detectors)** throughout - It appears that these units may have radioactive sources within.
- C) **Exit signs** - These units may contain mercury

Disposal of the ballasts should be to a licensed facility. The removal of the materials found above shall be done as part of the pre-cleaning phase prior to the demolition.

Miscellaneous Materials:

Cleaning products, emergency lighting batteries (acid) any doors with hydraulic fluid, and containers of various chemicals like (solvents, paints, cleaning products, was identified in the building and as part of pre-cleaning phase these containers should be containerized and disposed accordingly. At this time we don't know the responsible party for the cleanups, however due to some products that could not be identified we would like to warn that danger chemicals might be inside of any container and also anybody handling this situation should be under a full protection.

The disposal of these wastes will be to a (RCRA) licensed facility. You or your demolition contractor must call the facility prior of any shipment of materials.

Limitations:

Silva Environmental & Associates, Inc. attempts to provide the client with a report that reflects professionalism and accuracy. It is equally important for the client to recognize the following limitations of liability. SEA cannot be held responsible for all hidden and concealed suspect (ACBM).

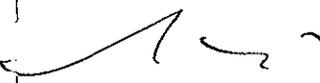
During the demolition if any suspect material that are disturbed that is not identified in this report should be assumed to contain asbestos until sampling and laboratory analysis proves otherwise.

Silva Environmental & Associates, Inc. also states that the findings and recommendations contained in this report are limited to conditions that were present at the time of the survey. Should any changes from existing conditions occur in the future they should be brought to SEA attention for further investigation.

Thank you for the opportunity to serve your needs. If you have any questions regarding this proposal, please contact us at our Warwick office 732-3976 or my cell 413-1142.

Sincerely

SILVA ENVIRONMENTAL & ASSOCIATES INC.



M. Frank Silva, President
Industrial Hygienist



Silva Environmental & Associates, Inc.

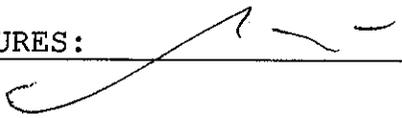
Environmental, Asbestos / Lead Consultants

SITE INSPECTION SUMMARY

CLIENT: Dimeo Construction BUILDING: Veterans Memorial Auditorium

DATES OF INSPECTION: 3-8-11 through 3-17-11 SURVEYORS: M. Frank Silva

PROJECT NO: 55381

SIGNATURES: 

A. BUILDING DESCRIPTIONS:

The Veterans Memorial Auditorium is located 83 Park Street, Providence. This is Sixth-story brick structure. The foundation is concrete.

B. ASBESTOS-CONTAINING MATERIALS AND THEIR APPLICATIONS:

Composition percentages are representative results only. Exact sample locations, types, and compositions are included in the attached laboratory analysis results section.

1. THERMAL SYSTEM INSULATION ACM:

Pipe insulation, throughout;

5% Amosite
35% Chrysotile

2. SURFACING ACM:

None Applicable

3. MISCELLANEOUS ACM:

9"x9" Floor tile, Throughout;

2-15% Chrysotile

Mastic, all embroideries and adjacent
Corridors throughout all floors

5% Chrysotile

12"x12" Floor tile, Throughout

8% Chrysotile

4. OTHER

Window Glazing

5% Chrysotile

Window Caulking

5-12% Chrysotile

Duct work sealer

10% Chrysotile

NOTE: Samples were collected in a statistically random manner, per EPA guidelines.

C. VARIATIONS:

The following materials were tested and were negative for asbestos content.

1. THERMAL SYSTEM INSULATION:

None Applicable

2. SURFACING MATERIAL:

Sheetrock, Throughout Negative

3. MISCELLANEOUS MATERIAL:

Ceiling tiles 12X12, Throughout Negative

Mastic for 12X12 floor tiles, Throughout Negative

Glue Daubs, Throughout Negative

9X9 floor tiles, Chorus Room only Negative

Mastic for all 9X9 floor tiles,
Throughout and Chorus room Negative

Cove base, Throughout Negative

Cove base Mastic Negative

Paper backing, ceiling area Negative

Duct work wrap paper Negative

Liquor nails Negative

4. OTHER:

Not Applicable

PIPING INSULATION

6TH Floor - 175 linear feet

5TH Floor - 397 linear feet

4TH Floor - 399 linear feet

3RD Floor - 399 linear feet

2ND Floor - 399 linear feet

1ST Floor - 367 linear feet

Ground Floor - 12 linear feet

Total estimated quantities 2,148 Linear feet

REMARKS:

1. All visible asbestos containing materials are present throughout the building. Avoid damaging or disturbing this material to minimize the likelihood of fiber release.
2. Any suspect material that may be disturbed in the course of demolition, renovations or routine maintenance activity that is not identified in this report should be assumed to contain asbestos until sampling and laboratory analysis proves otherwise.

F. RECOMMENDED RESPONSE ACTIONS:

This section contains preliminary response action recommendations solely intended for assisting the client in the planning and preparation of Management Plans or Abatement Plan.

1. REMOVAL

All asbestos materials that will interfere with the renovations project.

2. REPAIR

Not applicable

3. ENCLOSURE

Not applicable.

4. ENCAPSULATION

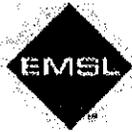
Not applicable.

5. OPERATIONS AND MAINTENANCE PROGRAM

All asbestos-containing materials' present in the building will be placed under Operations and Maintenance Program until all materials are removed from the building.

EXHIBIT I

ASBESTOS BULK SAMPLING REPORT



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (800) 220-3675 Fax: (856) 786-5974 Email: westmontaslab@EMSL.com

Attn: **Silva Environmental Associates**
45 Transit Street
Warwick, RI 02889

Customer ID: SILV51
Customer PO:
Received: 03/10/11 9:20 AM
EMSL Order: 041105314
EMSL Proj:
Analysis Date: 3/10/2011

Fax: (401) 732-1491 Phone: (401) 732-3976
Project: 55381 VETERAN'S MEMORIAL AUDITORIUM

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
VM-001 041105314-0001	6TH FLOOR - 9X9 FLOOR TILE LIGHT BROWN THROUGHOUT	Tan Non-Fibrous Heterogeneous		98% Non-fibrous (other)	2% Chrysotile
VM-002 041105314-0002	6TH FLOOR - MASTIC FOR ABOVE	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
VM-003 041105314-0003	6TH FLOOR - WINDOW GLAZING SOUTH	Gray/White Non-Fibrous Heterogeneous		95% Non-fibrous (other)	5% Chrysotile
VM-004 041105314-0004	6TH FLOOR - WINDOW GLAZING NORTH	Gray/White Non-Fibrous Heterogeneous		95% Non-fibrous (other)	5% Chrysotile
VM-005 041105314-0005	6TH FLOOR - COVEBASE	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
VM-006 041105314-0006	6TH FLOOR - MASTIC	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
VM-007 041105314-0007	6TH FLOOR - 12X12 FT FORMER COMPUTER RM	White Non-Fibrous Heterogeneous		92% Non-fibrous (other)	8% Chrysotile

Initial report from 03/10/2011 22:07:14

Analyst(s)

Daniel Silvio (36)

Stephen Slegel, CIH, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the federal government. The test results contained within this report meet the requirements of NELAC unless otherwise specified. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10672, NJ DEP 03036



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Project: **65381 VETERAN'S MEMORIAL AUDITORIUM**

Customer ID: **SILV51**
Customer PO:
Received: **03/10/11 9:20 AM**
EMSL Order: **041105314**
EMSL Proj:
Analysis Date: **3/10/2011**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
VM-008 041105314-0008	6TH FLOOR - MASTIC FROM TILE ABOVE	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
VM-009 041105314-0009	6TH FLOOR - WINDOW CAULKING	Gray/Tan Non-Fibrous Heterogeneous		95% Non-fibrous (other)	5% Chrysotile
VM-010 041105314-0010	6TH FLOOR LOBBY - PIPE INSULATION	White Fibrous Heterogeneous		80% Non-fibrous (other)	15% Chrysotile 5% Amosite
VM-011 041105314-0011	6TH FLOOR BEHIND WALL PANEL - LIQUOR NAILS (GLUE)	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
VM-012 041105314-0012	5TH FLOOR - 12X12 FT GENERAL AERAS	White Non-Fibrous Heterogeneous		92% Non-fibrous (other)	8% Chrysotile
VM-013 041105314-0013	5TH FLOOR - MASTIC FOR TILE ABOVE	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
VM-014 041105314-0014	5TH FLOOR - SHEETROCK CEILING	Brown Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected

Initial report from 03/10/2011 22:07:14

Analyst(s)

Daniel Sivco (36)

Stephen Siegel, CIH, Laboratory Manager
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Attn: **Silva Environmental Associates**
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Warwick, RI 02889

Fax: (401) 732-1491 Phone: (401) 732-3976
 Project: **55381 VETERAN'S MEMORIAL AUDITORIUM**

Customer ID: SILV51
 Customer PO:
 Received: 03/10/11 9:20 AM
 EMSL Order: 041105314
 EMSL Proj:
 Analysis Date: 3/10/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
VM-015 041105314-0015	5TH FLOOR - CEILING TILE (12X12)	Gray Fibrous Heterogeneous	85% Min. Wool	15% Non-fibrous (other)	None Detected
VM-016 041105314-0016	5TH FLOOR - GLUE DAUB	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	<1% Chrysotile
VM-017 041105314-0017	5TH FLOOR - PAPER BACKING	Brown Fibrous Heterogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected
VM-018 041105314-0018	4TH FLOOR - 9X9 FT (DARK BROWN)	Brown Non-Fibrous Heterogeneous		85% Non-fibrous (other)	15% Chrysotile
VM-019 041105314-0019	4TH FLOOR - MASTIC FOR TILE ABOVE	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
VM-020 041105314-0020	4TH FLOOR - GLUE DAUB	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
Suggest TEM					
VM-021 041105314-0021	4TH FLOOR - WINDOW CAULKING	Gray Non-Fibrous Heterogeneous		95% Non-fibrous (other)	5% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
VM-029 041105314-0029	2NDFLOOR - GLUE DAUB	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
Suggest TEM.					
VM-030 041105314-0030	2NDFLOOR - WINDOW CAULKING	Gray Fibrous Heterogeneous		95% Non-fibrous (other)	5% Chrysotile
VM-031 041105314-0031	1ST FLOOR - WINDOW CAULKING	Brown/Gray Fibrous Heterogeneous		88% Non-fibrous (other)	12% Chrysotile
VM-032 041105314-0032	1ST FLOOR - 9X9 FT (BROWN W/WHITE SPOTS)	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
Suggest TEM.					
VM-033 041105314-0033	1ST FLOOR - MASTIC FOR TILE ABOVE	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
VM-034 041105314-0034	1ST FLOOR - GLUE DAUBD (CHORUS ROOM)	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Initial report from 03/10/2011 22:07:14

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
VM-035 041105314-0035	1ST FLOOR - 9X9 FT GREENISH (CHORUS ROOM)	Green Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
VM-036 041105314-0038	1ST FLOOR - MASTIC FOR TILE ABOVE	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Initial report from 03/10/2011 22:07:14

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Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (800) 220-3675 Fax: (856) 786-5974 Email: westmontaslab@EMSL.com

Attn: **Frank Silva**
Silva Environmental Associates
45 Transit Street
Warwick, RI 02889

Customer ID: **SILV51**
Customer PO: **55381**
Received: **03/18/11 9:20 AM**
EMSL Order: **041108139**

Fax: (401) 732-1491 Phone: (401) 732-3976
Project: **VETERANS MEMORIAL AUDITORIUM - 55381**

EMSL Proj:
Analysis Date: **3/18/2011**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
VM-037 041108139-0001	3RD FLOOR - 9 X 9 FT (GRAY)	Gray Non-Fibrous Homogeneous		85% Non-fibrous (other)	15% Chrysotile
VM-038 041108139-0002	3RD FLOOR - MASTIC FOR TILE ABOVE	Black Non-Fibrous Homogeneous	2% Cellulose	93% Non-fibrous (other)	5% Chrysotile
VM-039 041108139-0003	3RD FLOOR - 9 X 9 FT (GREEN) FLOOR TILE ONLY	Green Non-Fibrous Homogeneous		85% Non-fibrous (other)	15% Chrysotile
VM-040 041108139-0004	2ND FLOOR - 9 X 9 FT. (GREEN)	Green Non-Fibrous Homogeneous		88% Non-fibrous (other)	12% Chrysotile
VM-041 041108139-0005	2ND FLOOR - MASTIC	Brown/Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
VM-042 041108139-0006	2ND FLOOR - 9 X 9 FT. (GRAY) TILE ONLY	Gray Non-Fibrous Homogeneous		85% Non-fibrous (other)	15% Chrysotile
VM-043 041108139-0007	CHORUS ROOM - 9 X 9 FT. (LITE TAN)	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Initial report from 03/19/2011 08:09:12

Analyst(s)

Michael Thoma (8)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036



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Customer ID: **SILV51**
Customer PO: **55381**
Received: **03/18/11 9:20 AM**
EMSL Order: **041106139**

Fax: (401) 732-1491 Phone: (401) 732-3976
Project: **VETERANS MEMORIAL AUDITORIUM - 55381**

EMSL Proj:
Analysis Date: **3/18/2011**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
VM-044 041106139-0008	CHORUS ROOM - MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Initial report from 03/19/2011 08:09:12

Analyst(s)

Michael Thoma (8)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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Sample analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

EXHIBIT II

LEAD REPORT

Report of Findings

Environmental

Lead Paint Inspection

Report

For
Veterans Memorial Auditorium
Providence, Rhode Island

Introduction

On March 2, 2011, Lead Paint Inspection was conducted to evaluate the painted and coated surfaces for lead content. The Inspection was performed in accordance with guidelines and protocol from Rhode Island Regulations for Lead Poisoning Prevention (R23-24.6pb).

Scope of Work

The site visit included XRF testing of interior painted and coated surfaces. Sampling for analysis of lead by Atomic Absorption Spectrophotometry (AAS) was not included in the scope of work.

Testing Methods

The LBP survey and testing was conducted by an Environmental Lead Inspector licensed by Rhode Island Department of Health in accordance with the Rules and Regulations for Lead Poisoning Prevention (R23-24.6pb)

The Inspector has successfully completed the manufacturer's training requirements.

The on-site testing was performed utilizing a NTION X-Ray Fluorescence (XRF) analyzer.

On-site activities included a visual inspection and XRF testing of representative painted and coated surfaces and recording of the information gathered.

Painted and coated surfaces were tested from painted and coated surfaces on interior of building.

Painted and coated surfaces were randomly tested by XRF from walls, doors, door frames, windows, window frames, trim, floors, equipment, ceilings and other surfaces..

XRF readings were taken from a sufficient number of these surface types to give a representative evaluation.

According to Rhode Island Regulations for Lead Poisoning Prevention (R23-24.6pb), EPA and HUD guidelines, XRF results of >1.0 mg/cm² are considered positive for lead-based paint. XRF results of <1.0 are considered negative or inconclusive

SILVA ENVIRONMENTAL & ASSOCIATES, INC

Component	Substrate/Color	XRF Reading	Assessment
<i>Stairway/Hall , 1st Floor</i>			
Walls	Masonry/White	0.3	Negative
Newel Post	Metal/Black	1.8	Positive
Railing	Metal/Black	2.1	Positive
Stair Riser	Metal/Black	1.5	Positive
<i>Hall, 1st Floor</i>			
Walls	Plaster/White	0.0	Negative
Door	Metal/White	0.2	Negative
Door Trim	Metal/White	1.2	Positive
<i>Offices 1st Floor</i>			
Radiator	Metal/White	1.2	Positive
Wall	Wood/White	0.0	Negative
Window Sash	Metal/White	1.5	Positive
Window Trim	Metal/White	1.2	Positive
Door	Wood/White	0.0	Negative

SILVA ENVIRONMENTAL & ASSOCIATES, INC.

The following is a listing of components tested and results.

Component	Substrate/Color	XRF Reading	Assessment
<i>Stairway/Hall, 6th Floor</i>			
Walls	Masonry/White	0.4	Negative
Window Trim	Metal/White	1.4	Positive
Window Sash	Metal/White	1.9	Positive
Newel Post	Metal/White	1.2	Positive
Railing	Metal/Black	2.5	Positive
Stair Riser	Metal/Black	1.8	Positive
Radiator	Metal/White	1.4	Positive
<i>Hall, 6th Floor</i>			
Walls	Plaster/White	0.0	Negative
Baseboard	Metal/Black	0.3	Negative
Door	Metal/White	0.1	Negative
Door Trim	Metal/White	1.5	Positive
Door/Fire Escape	Metal/Black	0.1	Negative
Stairs/Fire Escape	Metal/Black	0.1	Negative
<i>Offices 6th Floor</i>			
Radiator	Metal/White	1.2	Positive
Wall	Wood/White	0.0	Negative
Window Sash	Metal/White	2.1	Positive
Window Trim	Metal/White	1.9	Positive

SILVA ENVIRONMENTAL & ASSOCIATES, INC.

Limitations

This report has been completed based on visual and physical observations made at the time of the site visit. This report and attachments are an integral part of the Lead Based Paint Survey and opinions should not be formulated without reading the report in its entirety.

Submitted by:

John Labao
Environmental Lead Inspector
ELI#0076, Expires June 30, 2011

SIGN IN SHEET THE VETS RENOVATION

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**VETERAN'S MEMORIAL
 AUDITORIUM - PHASE III**
 83 PARK STREET
 PROVIDENCE, RHODE ISLAND

REVISIONS:

09-17-13 Addendum

**SUB BASEMENT
 HVAC DEMOLITION
 PLAN**

DATE: AUGUST 12, 2013

NCA JOB NO.: 1046.30

DRAWING NO.: HD.01

DEMOLITION SCOPE OF WORK REMOVE ALL LISTED ITEMS:

BOILER #1 AND BOILER #2

1. KEWANEE BOILER COMPANY, INC. MODEL HSS-200-G06 8370 MBH GAS, 56.0 GPH HEAVY FUEL OIL. FIRE TUBE CONSTRUCTION.
2. HEAVY FUEL OIL HEATER WITH 1" SUPPLY AND RETURN TO COMMON HEAVY FUEL OIL CIRCULATION PIPING.
3. 4" STEAM SUPPLY STOP VALVE AND GATE VALVE.
4. 4" STEAM SUPPLY PIPE, TO 6" COMMON (SERVES BOTH BOILERS) STEAM SUPPLY.
5. 6" COMMON STEAM SUPPLY PIPING TO 10" HEADER.
6. 2" STEAM BLOW DOWN TO 2" COMMON BLOW DOWN TO BOILER BLOW DOWN COOLING TANK.
7. TWO 3" BLOW OFF CONNECTIONS, CONNECTED TO ONE 3", THEN LEADING OUTSIDE AT THE AREA WAY, ABOVE.
8. NATURAL GAS TRAP EQUIPMENT WITH 3" NATURAL GAS SUPPLY. 3" GAS SUPPLY CONNECTS TO 4" COMMON SUPPLY THAT LEADS TO PRESENT GAS SUPPLY NEAR THE AREA WAY ABOVE.
9. TWO 1/2" AND ONE 1-1/4" COPPER GAS VENTS TO AREA WAY ABOVE.
10. 16" BREACHING, AND BAROMETRIC DAMPER, CONNECTING TO 22" +/- COMMON BREACHING TO BOILER CHIMNEY. BLANK OFF BREACHING OPENING TO CHIMNEY (TO REMAIN). BREACHING HAS 3" CALCIUM SILICATE INSULATION.
11. 1-1/2" WATER SUPPLY TO BOILER FEED WATER PUMP SYSTEM.
12. 3/4" IRON PIPE CONNECTION TO BOILER CHEMICAL INJECTION SYSTEM.
- 13.

BOILER FEED WATER SYSTEM:

1. TANK: 100" LONG 42" DIAMETER "LEG MOUNTED" ABOVE TRIPLEX PUMP SYSTEM.
2. ONE 1-1/2" FEED WATER SUPPLY TO EACH BOILER.
3. 4" CONDENSATE RETURN TO TANK.
4. 1-1/2" IRON VENT PIPE TO AREA WAY ABOVE.
5. 1-1/2" STEAM TO COMMON STEAM SUPPLY WITH TEMPERATURE CONTROL VALVE.
6. THREE (TRIPLEX) FEED PUMPS: GRUNDFOS TYPE CR4-80 GU-A-AUUE MODEL C 9231, 22 GPM AT 288 FEET HEAD, 3 HP.
7. CONTROL PANEL AND ELECTRICAL CONNECTIONS.

HEAVY FUEL OIL CIRCULATION SYSTEM:

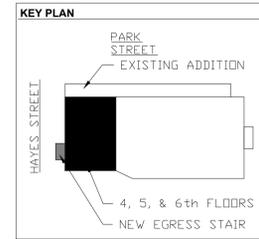
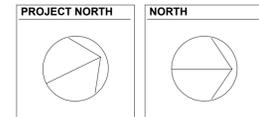
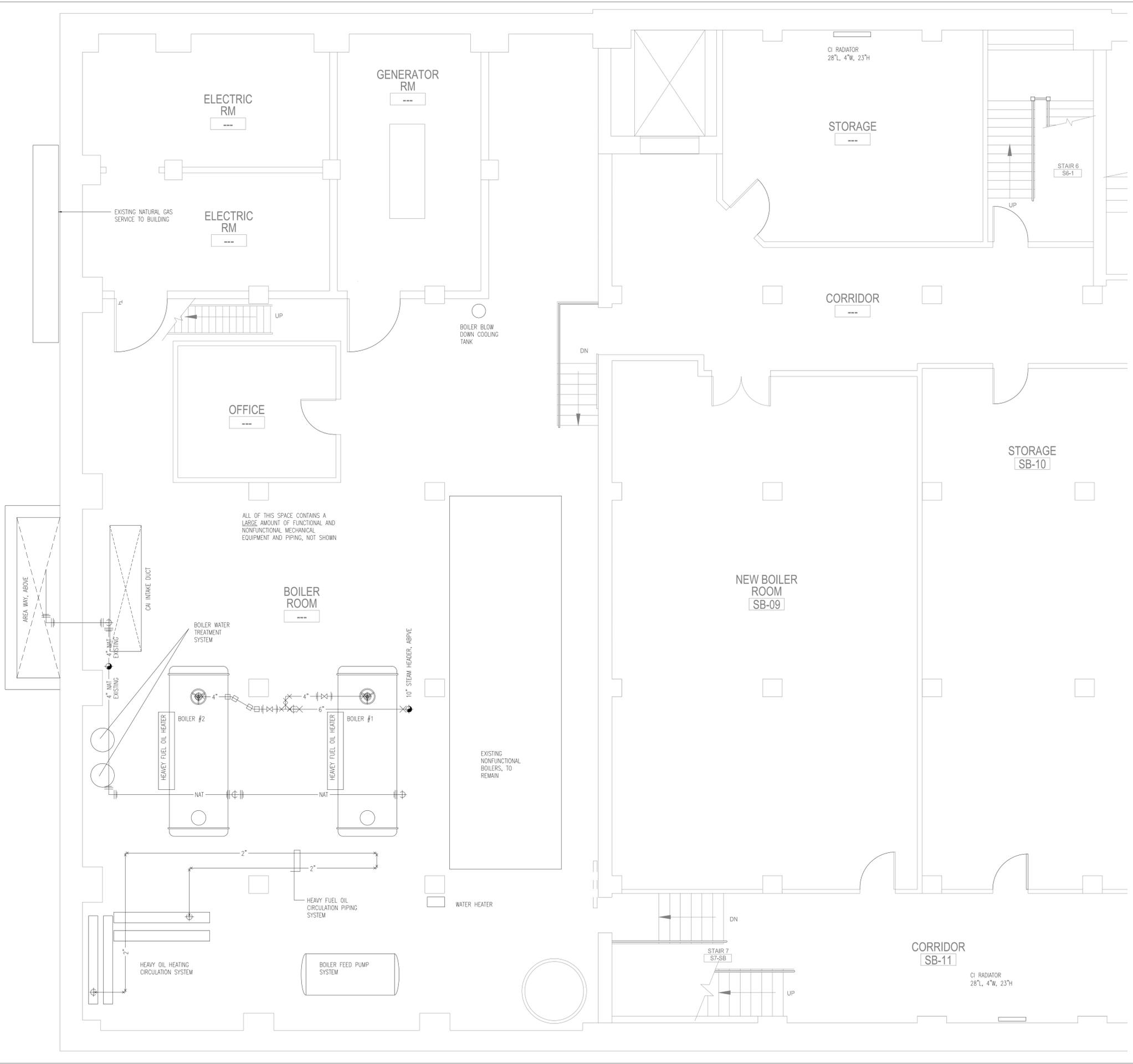
1. FOUR SHELL AND TUBE HEAT EXCHANGERS.
2. DUPLEX FUEL CIRCULATOR PUMPS.
3. 1-1/2" SUPPLY AND RETURN THRU SOUTH WALL. CUT AND CAPE AT WALL.
4. 2" CIRCULATION PIPING TO BOILERS AS INDICATED.
5. VARIOUS SUPPORTS AND BRACES ATTACHED TO FLOOR AND WALL.

WATER HEATER:

1. ATMOSPHERIC GAS BURNER FOR CAPACITY OF 168 GPH, 100 F DEG. TEMPERATURE RISE.
2. TWO 1" COPPER CONNECTIONS, CW & HW.
3. 1" IRON NATURAL GAS TO GAS SUPPLY FOR BOILER #1.
4. FRACTIONAL HORSE POWER HW RE-CIRCULATION PUMP.
5. 6" VENT TO BOILER COMMON BREACHING.

BOILER BLOW DOWN COOLING TANK:

1. STEEL TANK 14" DIAMETER, 28" HIGH.
2. 4" IRON BLOW OFF PIPE TO OUTSIDE AT AREA WAY ABOVE.
3. 4" DRAIN TO SANITARY SEWER. CUT AND CAP AT FLOOR.
4. 2" IRON COMMON BLOW IN FLOOR TRENCH TO BOILERS.
5. 1-1/2" PLUMBING COLD WATER SUPPLY WITH TEMPERATURE CONTROL VALVE. CUT AND CAPE AT BASEMENT MEZZANINE LEVEL ABOVE.





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VETERAN'S MEMORIAL AUDITORIUM - PHASE III
 83 PARK STREET
 PROVIDENCE, RHODE ISLAND

DEMOLITION SCOPE OF WORK:

CAI DAMPERS AND DUCT TO FLOOR:

1. 128" X 28" DUCT TO 24" +/- ABOVE SUB-BASEMENT FLOOR LEVEL.
2. TWO 128" X 28" DAMPERS, AND ACTUATORS, AT WALL TO AREA WAY.
3. 128" X 56" LOUVER AT WALL TO AREA WAY. BLANK OFF OPENING.

FUNCTIONAL 10" STEAM HEADER AND STEAM DISTRIBUTION PIPING:

1. 10" STEAM HEADER AND ALL ATTACHED STEAM PIPING.
2. 8" PRESSURE RELIEF VALVE. 6" BLOW OFF PIPING TO AREA WAY ABOVE.
3. 2" PRESSURE RELIEF VALVES AS INDICATED. 2" BLOW OFF PIPING TO 6" BLOW OFF PIPE, ITEM 2. ABOVE.
4. PRESSURE REDUCING ASSEMBLIES, AND CONTROL VALVES AS INDICATED.
5. LOW PRESSURE STEAM MAINS. CUT AND CAP AT WALLS.
6. ALL ATTACHED STEAM TRAPS AND CONDENSATE RETURN PIPING (NOT SHOWN).

STEAM AND CONDENSATE "STREET SUPPLY":

1. 10" STEAM AND 4" CONDENSATE AS INDICATED. CUT AND CAP STEAM AT NON-FUNCTIONAL STEAM HEADER.
2. 8" PRESSURE REDUCING ASSEMBLY.
3. TWO 10" GATE VALVES.

ACU-1 THRU ACU-4

1. ACU ENCLOSURES STAND 5'-0" +/- ON FOOTPRINT INDICATED.
2. 1" PLUMBING COLD WATER SUPPLY (CW) TO CW MAIN. CUT & CAP AT MAIN.
3. CW "COPPER IN COPPER PIPE" CONDENSER COOLING COIL WITH 1-1/2" PIPE TO SANITARY DRAIN
4. SUPPLY AND RETURN DUCTS, SIZED AS INDICATED TO SHAFT WALL. BLANK OFF INSIDE OF SHAFT WALL CLEAR OF SHAFT WALL.

AHU-1 & AHU-2

1. AHU ENCLOSURES STAND 3'-0" +/- ON FOOTPRINT INDICATED.
2. 1-1/2" (+/-) STEAM SUPPLY TO 8" STEAM MAIN.
3. 1" (+/-) CONDENSATE DRAIN.
4. SUPPLY AND RETURN DUCTS, SIZED AS INDICATED TO SHAFT WALL. BLANK OFF INSIDE OF SHAFT WALL CLEAR OF SHAFT WALL.

CEILING MOUNTED DUCTS:

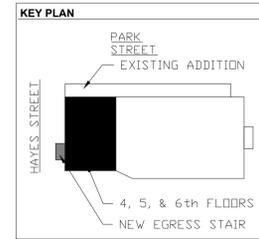
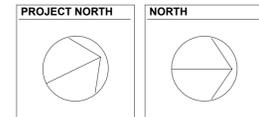
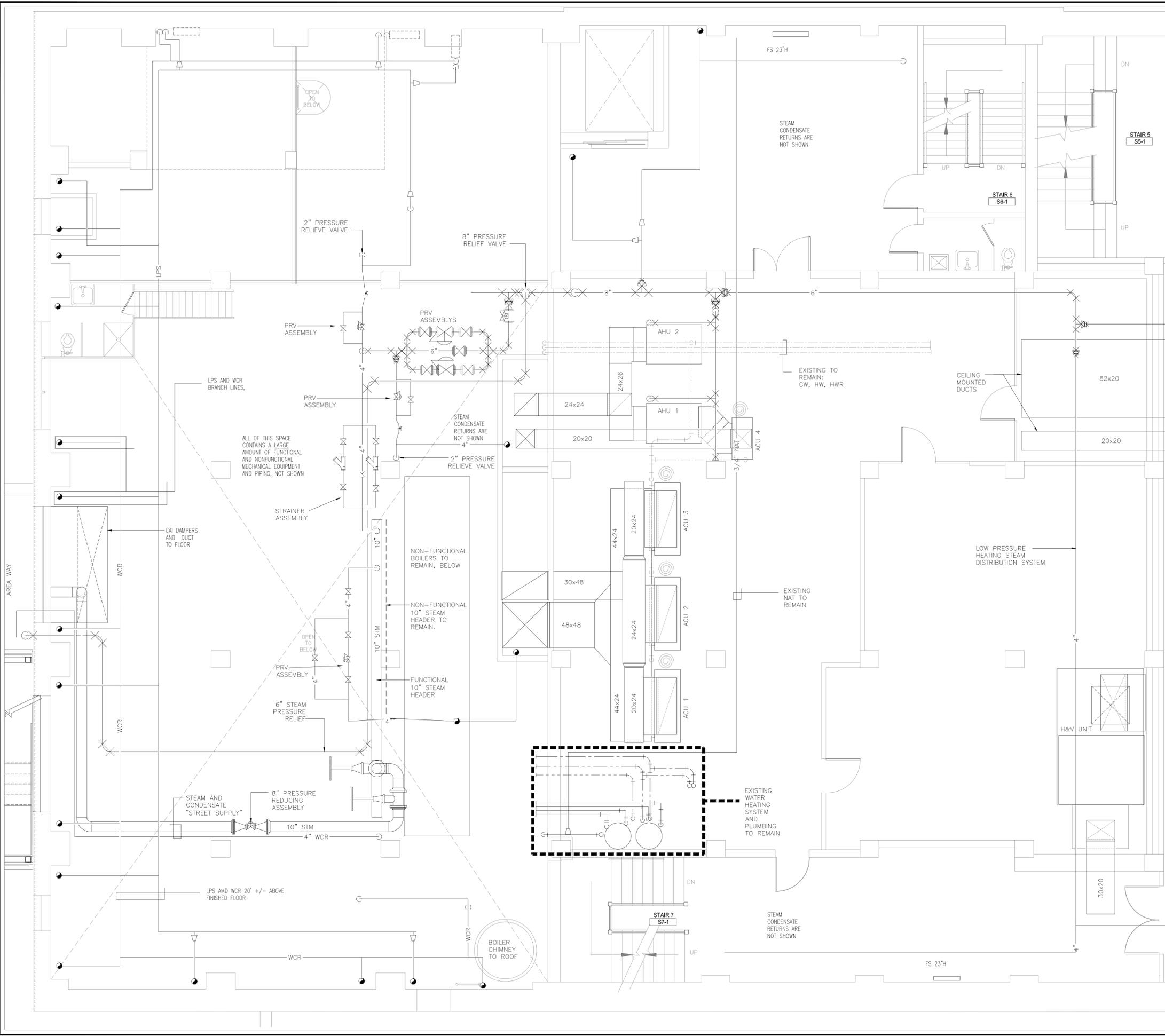
1. REMOVE TO NORTH WALL AS INDICATED.

LOW PRESSURE HEATING STEAM DISTRIBUTION SYSTEM:

1. STEAM MAINS AND STEAM BRANCH LINES (NOT SHOWN) TO STEAM RADIATORS.
2. CONDENSATE RETURN SYSTEM (NOT SHOWN). THIS WILL BE SIMILAR IN CONFIGURATION TO THE HEATING STEAM SUPPLY SYSTEM, BUT ON THE FLOOR BELOW, WITH SMALLER PIPE SIZES.

H&V UNIT:

1. H&V UNIT 12'-0"L, 7'-0"W, 4'-11"H AND ALL CONNECTED SERVICES.
2. 30" X 20" FRESH AIR INTAKE DUCT TO OUTSIDE LOUVER. REFER TO DRAWING FOR FLOOR ABOVE.
3. 60" X 26 SUPPLY AIR DISCHARGE DUCT ENDS AT NORTH WALL AS INDICATED.
4. 3" HEATING STEAM SUPPLY TO 4" STEAM DISTRIBUTION SYSTEM ABOVE.
5. TEMPERATURE CONTROL VALVES AND CONDENSATE DRAINS FOR TWO HEATING COIL SECTIONS.
6. 92" X 20" HEATING COIL FACE AND BYPASS DUCT ON TOP OF UNIT.
7. 1-1/2" CONDENSATE TO CONDENSATE RETURN SYSTEMS ON THE FLOOR BELOW.



REVISIONS:

09-17-13 Addendum

BASEMENT HVAC DEMOLITION PLAN

DATE: AUGUST 12, 2013

NCA JOB NO.: 1046.30

DRAWING NO.: HD.02



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**VETERAN'S MEMORIAL
AUDITORIUM - PHASE III**
83 PARK STREET
PROVIDENCE, RHODE ISLAND

REVISIONS:

09-17-13 Addendum

**ROOF LEVEL HVAC
DEMOLITION PLAN**

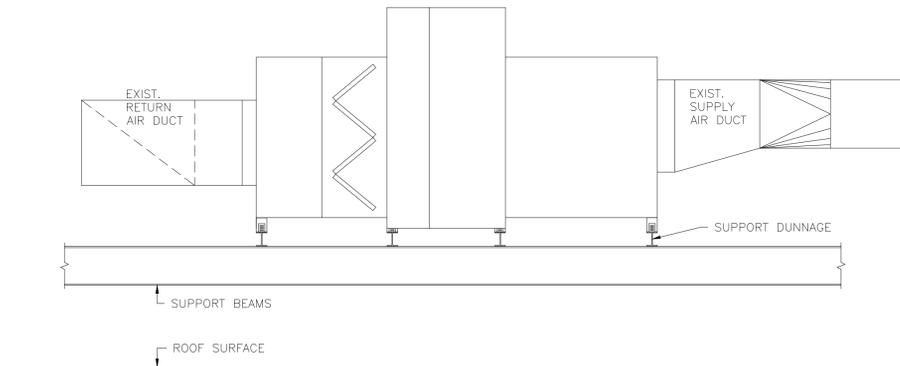
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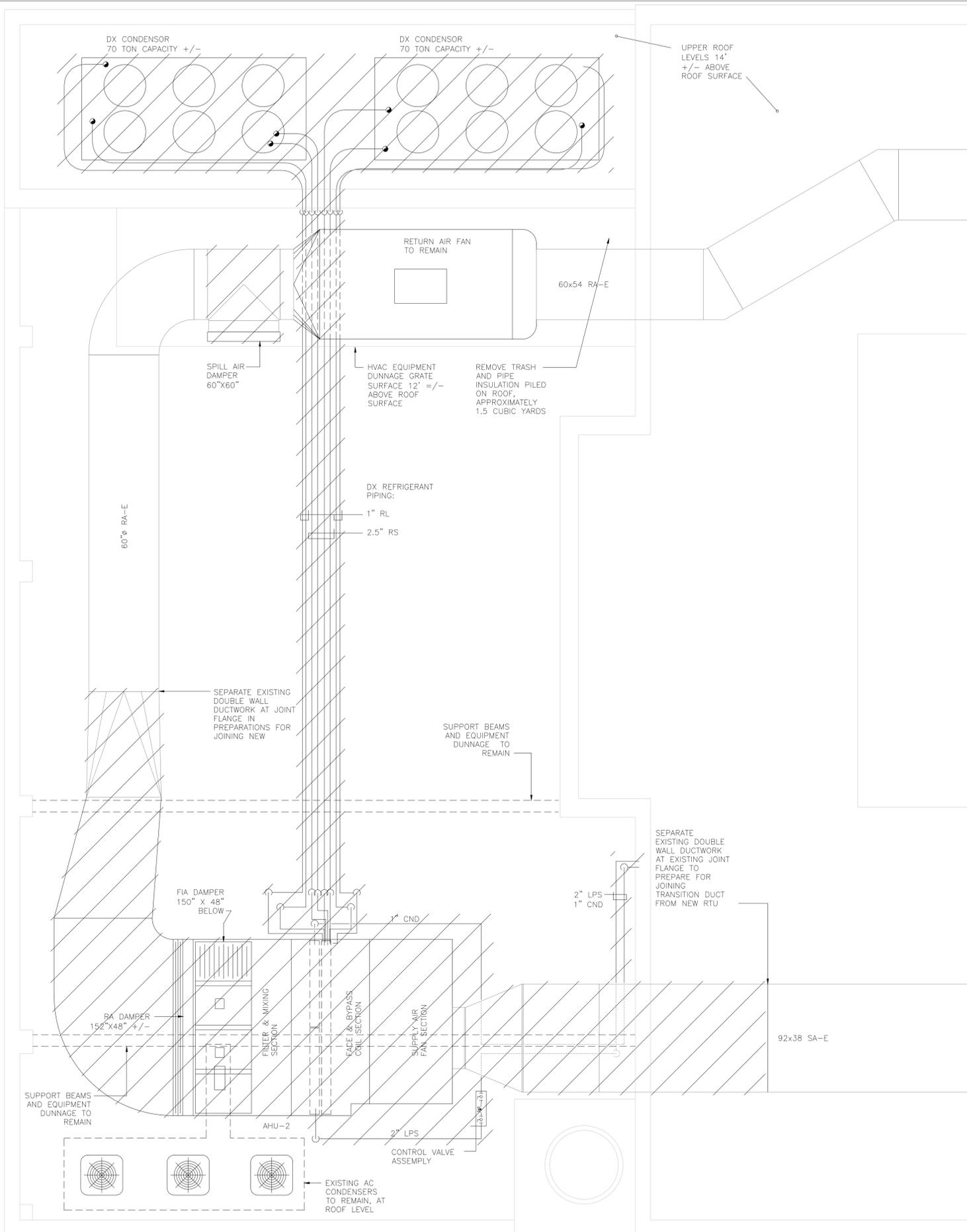
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HD.09

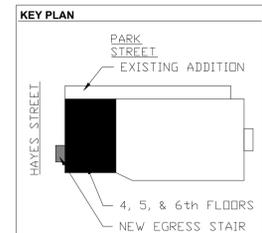
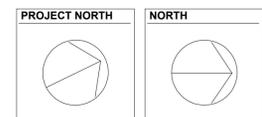
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EAST AHU-2 ELEVATION
1/4" = 1'-0"



ROOF LEVEL HVAC DEMOLITION
1/4" = 1'-0"



MARK	BASES OF DESIGN		MIXING PLENUM SECTION				FAN SECTION				HEATING SECTION				COOLING SECTION: EVAPORATOR				COOLING SECTION: COMPRESSORS / CONDENSERS				REMARKS																							
	Manufacturer	Model	FILTERS	CONTROL SEQUENCE	RA	FAI	SPILL	SA	FRPM	TSP	EX SP	BHP	NOM HP	MCA	MCP	INPUT	OUTPUT	VOLTAGE	MCA	MCP	ASSEMBLY	ROWS/FPI		CIRCUTS	TMBH	SMBH	EAT DB/WB	EER	VOLTAGE	MCA	MCP															
AuRTU-2	SEASONS 4	6SSR61-1428-MN15-56SE	2" PLEATED, MERV 7, 118.1 SF	UNOCCUPIED	46000	4000	0	50000	4 @ 1090	3.65	1.35	4 @ 9.68 HP	4 @ 15 HP	85	100	2000 MBH NAT GAS	1600 MBH	Powered from FAN SECTION			1 & 2 TOTAL	4 / 10	8	1656.5	1234.6	84.4 / 68.8							COORDINATE WITH ELECTRICAL CONTRACTOR FOR MUTABLE POWER WIRING POINTS: TOTAL OF 3													
				FULLY OCCUPIED	46000	11500	7500	50000																																						
				ECONOMIZER	46000	50000	46000	50000																																						

Symbol	Bases of Design		Blower			Coil				Electrical, Single Point				Remarks	
	Manufacturer	Model	CFM	ESP	HP	GPM	WPD	EWT	EAT	MBH	Voltage	Amps	FLC		MOPD
FCU-04	Airtherm	Unitair Series LCTF 04	390	NA	0.04	2.0	8.8	170 F	65 F	30.5	120 VAC 1Ph	0.54			Low Profile Concealed 45"W, 18-3/8"H, 9-15/16"D
STEF 02 FCU	"	Unitair Series STEF 02	230		0.03	2.0	8.2	170 F	65 F	19.3		0.38			Floor Mounted 49"W, 28 3/8"H, 9 1/2"D
CEFR 02 FCU		Unitair Series CEFR 02	230		0.03	2.0	8.2	170 F	65 F	19.3		0.38			Ceiling Mounted 39"W, 10-3/8"H, 25"D

Symbol	Bases of Design		Blower			Coil				Electrical, Single Point				Remarks	
	Manufacturer	Model	CFM	ESP	HP	GPM	WPD	EWT	EAT	MBH	Voltage	Amps	FLC		MOPD
HS-180	Sterling	HS-180	2200	NA	1/3	11.8	0.60	1802 F	60 F	101.1	120 VAC 1Ph	4.5			Horizontal Unit Heater
HS-72	Sterling	HS-72	100	NA	1/20	5.3	0.23	1802 F	60 F	40.3	120 VAC 1Ph	1.4			Horizontal Unit Heater

Symbol	Bases of Design		Heating Capacity			Remarks
	Manufacturer	Model	Gas Input MBH	Max. Output MBH		
B-1 & B-2	Viessmann	Vitocrossal 200, CM2-620	450 TO 2245	2132 Gross 1854 Net AHRI		

Symbol	Bases of Design		Capacity		Remarks
	Manufacturer	Model	Volume	Acceptance	
EXT-1	Taco-hvac	CBX-4125	112 Gal.	61 Gal.	

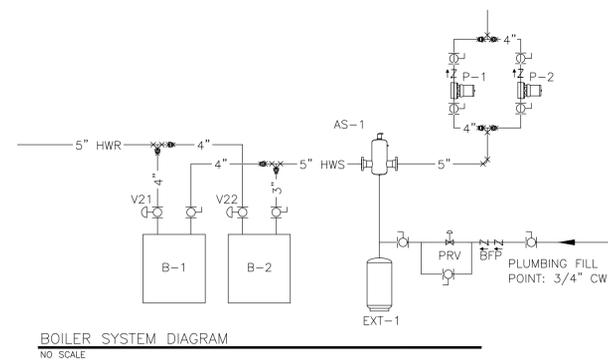
Symbol	Bases of Design		Size	Remarks
	Manufacturer	Model		
AS-1	Spirotherm	Series VSR-1C-FA	5"	

Symbol	Service	Bases of Design		Selection				Electrical		Remarks
		Manufacturer	Model	GPM	Head	RPM	Nom. HP	Voltage	Amps	
		P-1, P-2	System Pumps	Taco	VR30-2	160.0	30 Ft	NA	NA	

Symbol	Bases of Design		Cooling Coil			Electrical, Single Point			Remarks
	Manufacturer	Model	MBH	WB	DB	Voltage	MCA	MFA	
WEV-1	Trenton Refrigeration Products	TLP214MA-SIB	14.0	NA	25 F	208-230/ 1 / 60	2.3	15	

Symbol	Bases of Design		Coil					Remarks
	Manufacturer	Model	GPM	WPD	EWT	EAT	MBH	
CV-20L	Airtherm	Series SW-A	0.38	0.4	170 F	65 F	3.05	Wall Hung Sloped Top 20"L, 32"H, 8"D
CV-24L			0.48				3.90	" 24"L
CV-28L			0.58				4.68	" 28"L
CV-32L			0.69				5.54	" 32"L
CV-36L			0.79				6.36	" 36"L
CV-40L			0.89				7.19	" 40"L
CV-44L			0.99				7.99	" 44"L
CV-48L			1.09				8.83	" 48"L
CV-52L			1.19				9.63	" 52"L
CV-56L			1.30				10.49	" 56"L
CV-60L			1.39				11.28	" 60"L
CV-64L			1.50				12.14	" 64"L

Symbol	Bases of Design		Cooling Capacity			Electrical, Single Point			Remarks
	Manufacturer	Model	MBH	SST	OADB	Voltage	MCA	MFA	
WCU-1	Trenton Refrigeration Products	TEHA015E6H S2BB	15.2	25 F	95 F	208-230/ 1 / 60	19.1	30	



PIPING LEGEND

— RL —	REFRIGERANT - HIGH PRESSURE LIQUID LINE
— RS —	REFRIGERANT - LOW PRESSURE SUCTION
— LPS —	STEAM - LOW PRESSURE
— WCR —	STEAM CONDENSATE - WET RETURN
— CND —	CONDENSATE DRAIN
— NG —	NATURAL GAS - LOW PRESSURE
— HWS —	HEATING HOT WATER SUPPLY
— HWR —	HEATING HOT WATER RETURN

BOILER OPTIONS

- AIR ELIMINATOR: SPIROTHERM SERIES VSR-1C-FA 4 INCH LINE SIZE.
- CONDENSATE ACID NEUTRALIZERS PIPED TO FLOOR DRAIN.
- UL 1738 STAINLESS STEEL VENTING SYSTEMS WITH ROOF PENETRATIONS AND WEATHER TIGHT TERMINATIONS.
- UL 1738 POLYPROPYLENE COMBUSTION AIR INTAKE SYSTEMS WITH WALL PENETRATION, "GOOSENECK", AND INSECT SCREEN TERMINATIONS.
- HWR AND HWS PRESSURE GAUGES AND THERMOMETERS.

GENERAL NOTES

- THE DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC. DETERMINE IN THE FIELD THE EXACT LOCATION OF EQUIPMENT AND THE ROUTING OF WIRING, DUCT, AND PIPE. VERIFY THAT FIELD MEASUREMENTS AND ARRANGEMENTS ARE AS SHOWN ON DRAWINGS. REPORT ANY DISCREPANCIES TO ARCHITECT ENGINEER BEFORE ANY INSTALLATIONS.
- FOR ALL HEATING TERMINAL UNITS (FAN-COIL UNITS, UNIT HEATERS, CONVECTORS, AND FINNED TUBE RADIATION), PROVIDE ON THE INLET HWS SIDE: FLO PAC MODEL SV COMBINATION BALL VALVE, W-E STRAINER, AND UNION AND ON THE OUTLET SIDE: HWR FLO PAC MODEL AFLB AUTOMATIC FLOW LIMITER WITH BALL VALVE AND UNION. PROVIDE SIZING BASED ON PIPING DESIGN ON CONTRACT DRAWINGS. SET UP, TAGGING, AND PACKAGING, FOR EACH HEATING TERMINAL UNIT BY AUTHORIZED FACTORY TECHNICIANS.

ABBREVIATIONS

RTU	ROOF TOP UNIT (HVAC)
FS	FLOOR STANDING CAST IRON RADIATOR
WM	WALL MOUNTED CAST IRON RADIATOR
FTR	WALL MOUNTED FINNED TUBE RADIATION
FCU	FAN COIL UNIT
UH	UNIT HEATER



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09-17-13 Addendum

HVAC SCHEDULES & DETAILS 1

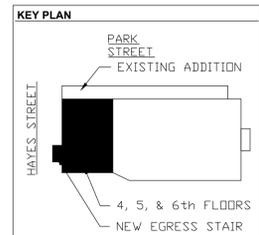
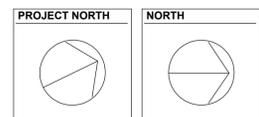
DATE: AUGUST 12, 2013

NCA JOB NO.: 1046.30

DRAWING NO.: H0.01

4, 5, & 6th FLOORS
NEW EGRESS STAIR

PROJECT NORTH
NORTH





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VARIABLE REFRIGERANT VALVE (VRV) HEAT PUMP SYSTEM INDOOR UNITS, OFFICE TOWER														
Symbol	Bases of Design		Blower			Cooling Coil			Nom. Heating Capacity		Electrical, Single Point			Remarks
	Manufacturer	Model	CFM (H/L)	Ext. SP	WG	MBH	WB	DB	MBH	OADB	Voltage	MCA	MFA	
IU-9	Daikin	FXH036MVJU	820 / 670	NA		36.0	67 F	80 F	40.0	47 F	208-230/ 1 / 60	1.4	15	Ceiling Suspended Unit
IU-10	"	"	"	"	"	"	"	"	"	"	"	"	"	"

VARIABLE REFRIGERANT VALVE (VRV) HEAT PUMP SYSTEM OUTDOOR UNITS, OFFICE TOWER										
Symbol	Bases of Design		Electrical							Remarks
	Manufacturer	Model	Voltage	MCA	MFA	RLA	MSC			
ACCU-2	Daikin	RXYQ72PAYD	460 / 60 / 3	20.2	25	7.1	65			

SPLIT-SYSTEM HEATING AND AIR CONDITIONING, INDOOR EQUIPMENT																			
Symbol	Bases of Design		Blower			Furnace		Connections				DX Cooling Coil			Electrical, Single Point		Remarks		
	Manufacturer	Model	CFM	ESP	Fan Power	Input, MBH	Output, MBH	NG	Condensate	CAI	Vent	CW	Model	MBH	WB	DB		Voltage	MCA
AC-4 to AC-6	Lennox	Furnace: G61MPV-60C-110, Humidifier: HCWP3	1900	0.5" WG	665 W	75 - 110	72 - 99	1/2" IPS	3/4" PVC	2" PVC	2" PVC	1/4" **	CX34-62C-6F	59.5	67 F	80 F	120 VAC 1Ph	12	

** By Plumbing Contractor

DIFFUSER AND GRILL SCHEDULE, OFFICE TOWER

Tag	Basis of Design		Type	Neck Size	Remarks
	Manufacturer	Model			
SD-1	Hart & Cooly	20 Round Diffuser	Duct Mounted Supply	6" Dia	
SD-2				6" Dia	
SD-3				8" Dia	
SD-4				8" Dia.	
SD-5		94 HOV Register	Side Wall Supply	6 x 4	
SD-6				6 x 5	
SD-7				8 x 6	
SD-8				8 x 7	
SD-9		SRS Diffuser	Ceiling Supply	6 x 4	
SD-10				6 x 5	
SD-11				8 x 6	
SD-12				8 x 7	
SD-13					
RG-1		94 Grill	Duct Mounted Return	18 X 12	
RG-2				18 X 14	
RG-3		94 Grill	Ceiling Return	6 x 4	
RG-4				6 x 5	
RG-5				8 x 5	
RG-6				8 x 6	

SPLIT-SYSTEM HEATING AND AIR CONDITIONING, OUTDOOR EQUIPMENT														
Symbol	Bases of Design		Cooling Capacity			Fan		Connections		Electrical, Single Point			Remarks	
	Manufacturer	Model	MBH	SEER	EER	CFM	NOM. HP	Power	Liquid Line	Suction Line	Voltage	MCA		MCP
CU-4 to CU-6	Lennox	SSB060H4	59.5	14.50	11.50	4380	↓	280 W	3/8"	3/8"	460V-3ph	12.3	20	

ENERGY RECOVERY VENTILATOR SCHEDULE, OFFICE TOWER												
Symbol	Location	Bases of Design		Supply		Exhaust		Electrical Single Point Wiring			Remarks	
		Manufacturer	Model	CFM	ESP	CFM	ESP	Voltage	60 Hz	Ampacity		Protection
ERV-5	4th Floor	RenewAir	EV300	311	0.40	311	0.40	120	1Ph	3.3	FLA	
ERV-6	5th Floor											
ERV-7	6th Floor											
ERV-8	6th Floor		EV450IN	500	0.43	500	0.43	208 - 230	1Ph	3.9		15

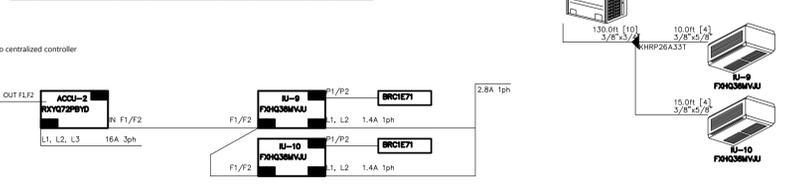
NON POWERED INTAKE / RELIEF ROOF HOODS													
Sym bol	Bases of Design		Dimensions					CFM	SP	Weight	Damper	Interlock	Remarks
	Manufacturer	Model	Throat	Damper	Curb	Curb Cap	Above Curb Cap						
RH-1	Greenheck	FGI	12 x 12	12 x 12	18 H	18 x 18	26L x 27W x 14H	500	< 0.071	37 Lbs	MD-7	ERV-8	Intake
RH-2	"	FGR	"	"	"	"	"	"	"	"	MD-8	"	Exhaust

LOUVER AND DAMPER SCHEDULE										
Sym-bol	Bases of Design		Model		Size		CFM	Pressur Drop	Interlock	Remarks
	Manufacturer	Louver	Damper	Damper	Louver					
MD-1	Greenheck	ESD-403	VCD-18	18 X 14	48 x 18	300	≤ 0.08" WG'	ERV-5		
MD-2					36 x 18					
MD-3					48 x 18					ERV-6
MD-4					36 x 18					
MD-5					48 x 18					ERV-7
MD-6					48 x 18					

HOOD EXHAUST FAN SCHEDULE											
Symbol	Bases of Design	Service	CFM	FRPM	ESP	Nom HP	Break HP	V/C/P	FLA	Sones	Remarks
KXF-1, KXF-2	Captive Aire: DU30HFA		650	1280	0.500	0.25	NA	115/60/1	4.00	NA	

HOOD MAKEUP AIR FAN SCHEDULE											
Symbol	Bases of Design	Service	CFM	FRPM	ESP	Nom HP	Break HP	V/C/P	FLA	Sones	Remarks
MUF-1, MUF-2	Captive Aire: NSAU1-G10D		520	784	0.500	0.50	NA	115/60/1	6.80	NA	

KITCHEN HOOD SCHEDULE															
HOOD NO.	MODEL	LENGTH	MAX COOKING TEMP.	EXHAUST PLENUM (BISERCS)				SUPPLY PLENUM (BISERCS)				HOOD CONSTRUCTION	HOOD CONFIG		
				TOTAL EXH. CFM	WIDTH	LENG.	DIA.	CFM	S.P.	TOTAL SUP. CFM	WIDTH		LENG.	DIA.	CFM
KH-1, KH-2	Captive Aire® 6524 VHB-PSP-F	3' 8.00"	700 Deg.	650	12"	650	-0.078"	520					430 SS	ALDNE	ALDNE



Daikin AC (America), Inc. - VRVIII Heat Pump WSEV410-07HP10

Additional HVAC Specifications:

Daikin VRV AC System: Multiple Evaporator, Direct Expansion, Ductless Air-Cooled, Variable Capacity, Split System

Part 1 - GENERAL

1.01 SYSTEM DESCRIPTION

Daikin Variable Refrigerant Volume Series (heat or cool mode) split system. Multiple evaporators, REFINET™ joints and headers, two-pipe refrigeration distribution system using PID control and Daikin VRV condenser unit.

Condenser: direct expansion, ductless air-cooled heat pump, multi-air conditioning system with variable speed inverter driven compressors using R-410A refrigerant that may connect an indoor evaporator capacity up to 200% of the condensing unit capacity. Each condenser capable of operating separately with individual temperature control.

Daikin condensing unit interconnections to indoor units: In accordance with Daikin's engineering data. Look detailing each indoor unit.

Connections to the condensing unit: Only Daikin's REFINET™ specified piping joints and headers to ensure correct refrigerant flow and balancing. T-style joints are not acceptable.

Operation: Either cooling or heating of all of the indoor units simultaneously. Each indoor unit or group of indoor units able to provide set temperature independently via a local remote controller, an Intelligent Controller, an Intelligent Manager or a BMS interface.

1.02 VRVIII FEATURES

- A. Oil Return Heating: Maintain continuous heating during oil return operation. Reverse cycle (cooling mode) oil return during heating operation is not permitted.
- B. Independent Control: Dedicated electronic expansion valve for each indoor unit.
- C. VFD Inverter Control: Each condensing unit, variable speed "inverter" compressor coupled with inverter fan motors for part load performance. Compressor capacity modulated automatically to maintain constant suction and condensing pressures while varying the refrigerant volume for the needs of the cooling or heating loads.
- D. Indoor units PID control: To control superheat to deliver room temperature condition and optimize efficiency.
- E. Wiring: 16-18 AWG, 2 wire, multi-stranded, non-shielded and non-polarized daisy chain control wiring.
- F. Diagnostics: Self diagnostic, auto-check functions to detect a malfunction and display the type and location.
- G. Controls: Remote controller capable of controlling up to 16 indoor units integrated with open protocol BACnet building management systems.

1.03 QUALITY ASSURANCE

- A. Testing: By a Nationally Recognized Testing Laboratory (NRTL) in accordance with ANSI/UL 1995 - Heating and Cooling Equipment bearing the Listed Mark.
- B. Wiring: In accordance with the National Electric Code (NEC).
- C. Condensing units: factory charged with R410A.

1.04 DELIVERY, STORAGE AND HANDLING

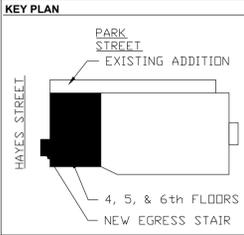
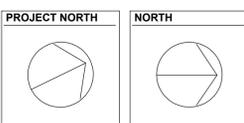
A. All components and materials stored and handled according to the manufacturers' recommendations.

2.03 INSTALLATION REQUIREMENTS

Installation: By a Daikin factory trained contractor/dealer, submitting training certification proof with bid documents. Contractor's installation price based on all of the systems installation requirements.

TRANSFER GRILL SCHEDULE

Tag	Basis of Design		Type	Neck Size	Remarks
	Manufacturer	Model			
TG-1	Hart & Cooly	94 HOV Register	Outlet: (Side Wall Supply)	6 x 4	
		94 Grill	Inlet: (Side Wall Return)		
TG-2		94 HOV Register	Outlet: (Side Wall Supply)	6 x 5	
		94 Grill	Inlet: (Side Wall Return)		
TG-3		94 HOV Register	Outlet: (Side Wall Supply)	8 x 6	
		94 Grill	Inlet: (Side Wall Return)		



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HVAC SCHEDULES & DETAILS 3

DATE: AUGUST 12, 2013

NCA JOB NO.: 1046.30

DRAWING NO.: H0.03



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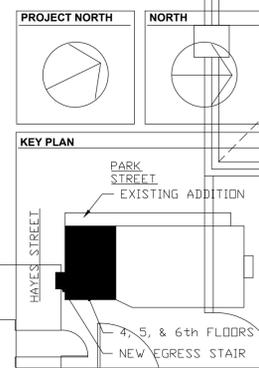
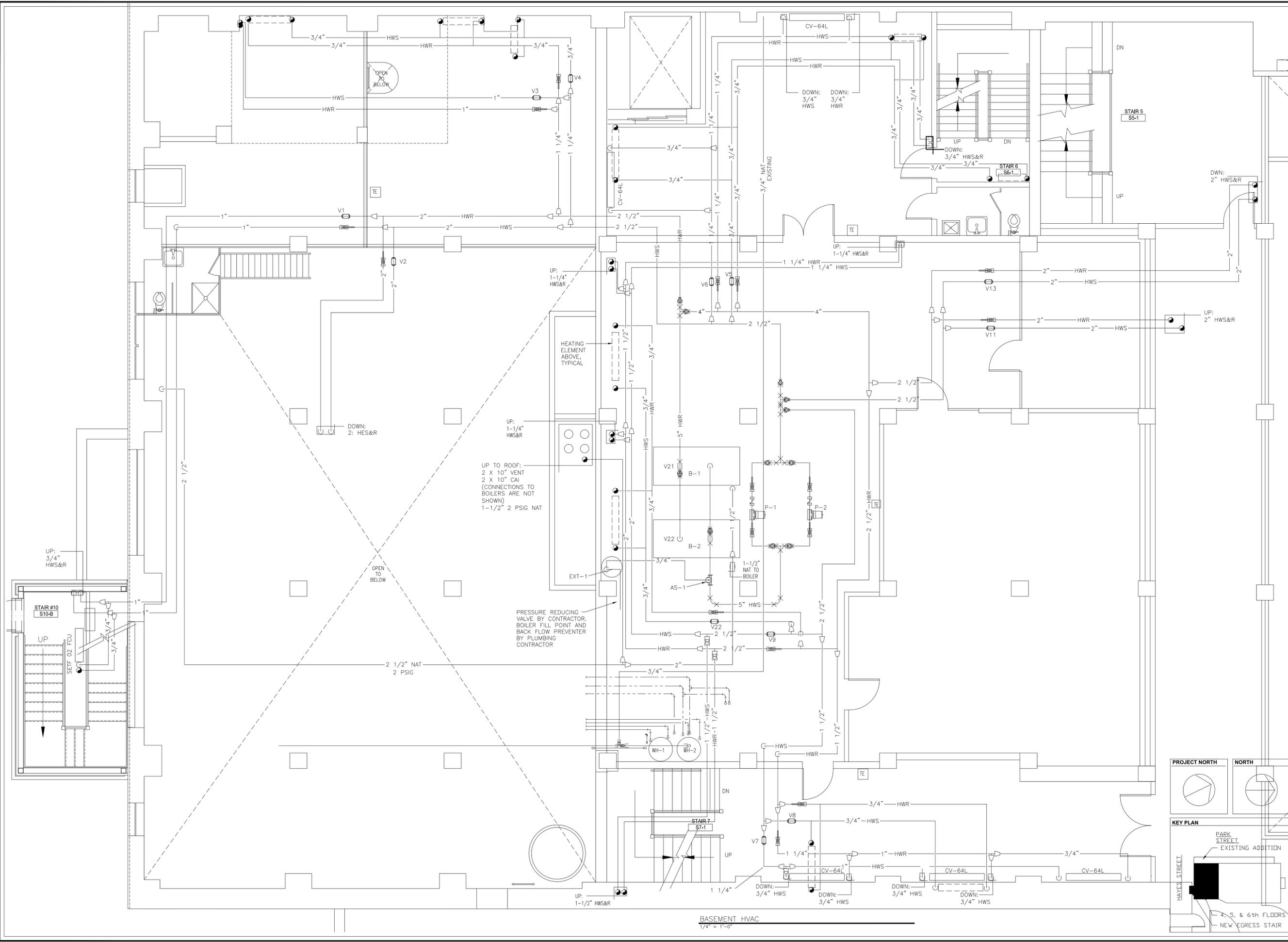
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PROJECT NORTH **NORTH**

KEY PLAN

BASEMENT HVAC

DATE: AUGUST 12, 2013

NCA JOB NO.: 1046.30

DRAWING NO.: H1.02

BASEMENT HVAC
 1/4" = 1'-0"



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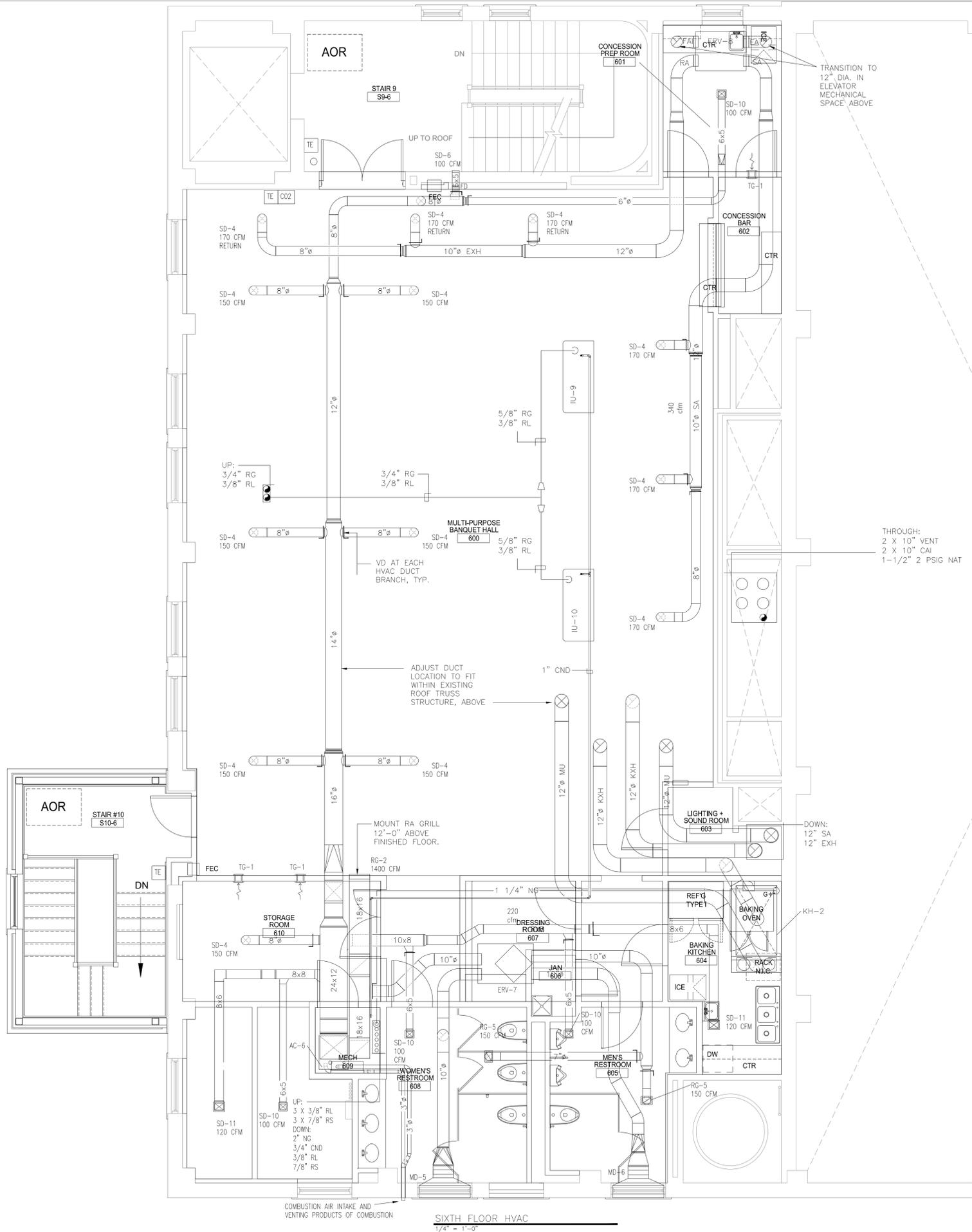
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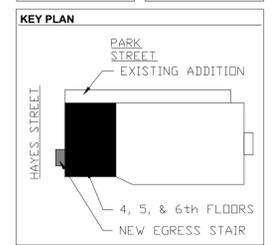
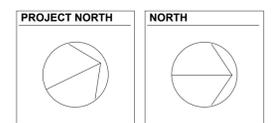
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THROUGH:
2 X 10" VENT
2 X 10" CAI
1-1/2" 2 PSIG NAT

DOWN:
12" SA
12" EXH

REVISIONS:



09-17-13 Addendum

**SIXTH FLOOR
HVAC**

DATE: AUGUST 12, 2013

NCA JOB NO.: 1046.30

DRAWING NO.: H1.08



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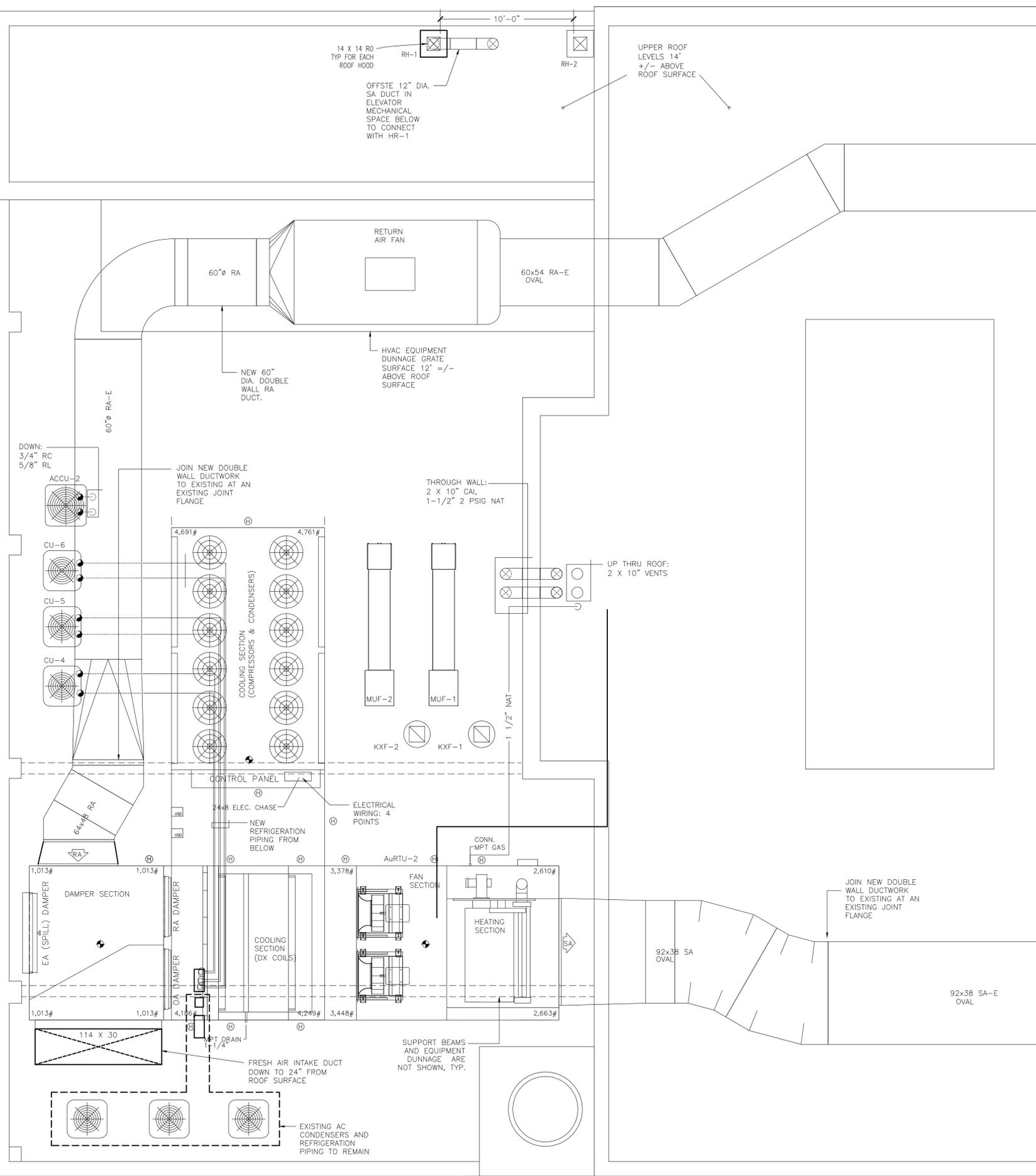
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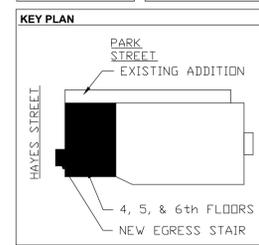
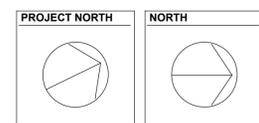
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**ROOF LEVEL
 HVAC**

DATE: AUGUST 12, 2013

NCA JOB NO.: 1046.30

DRAWING NO.: H1.09



NORTHEAST COLLABORATIVE ARCHITECTS

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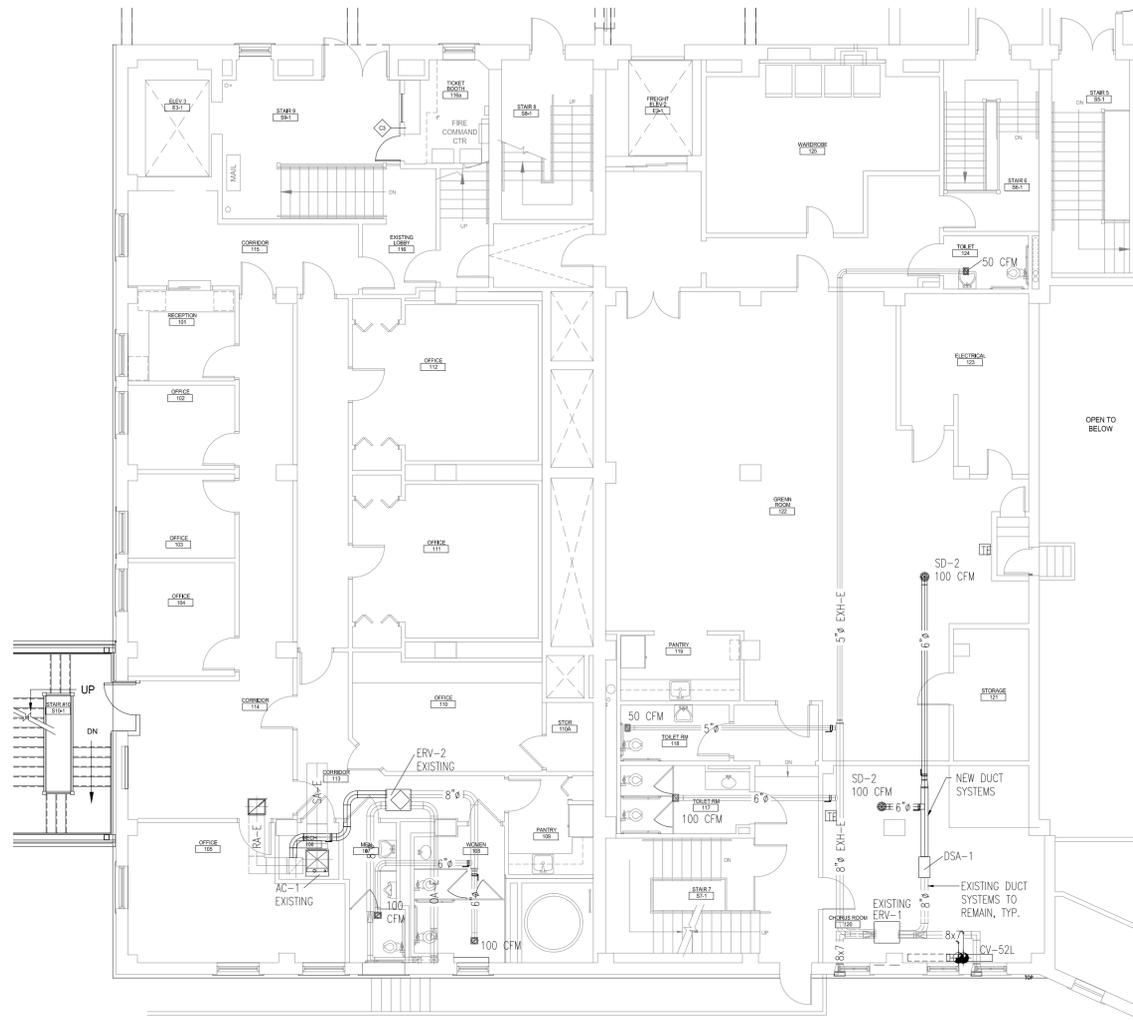
Structural Engineers
Odeh Engineers, Inc.
1223 Mineral Spring Avenue
North Providence, RI 02904
v 401.724.1771

Mechanical & Plumbing Engineer
J. Madison, Inc.
18 Short Road
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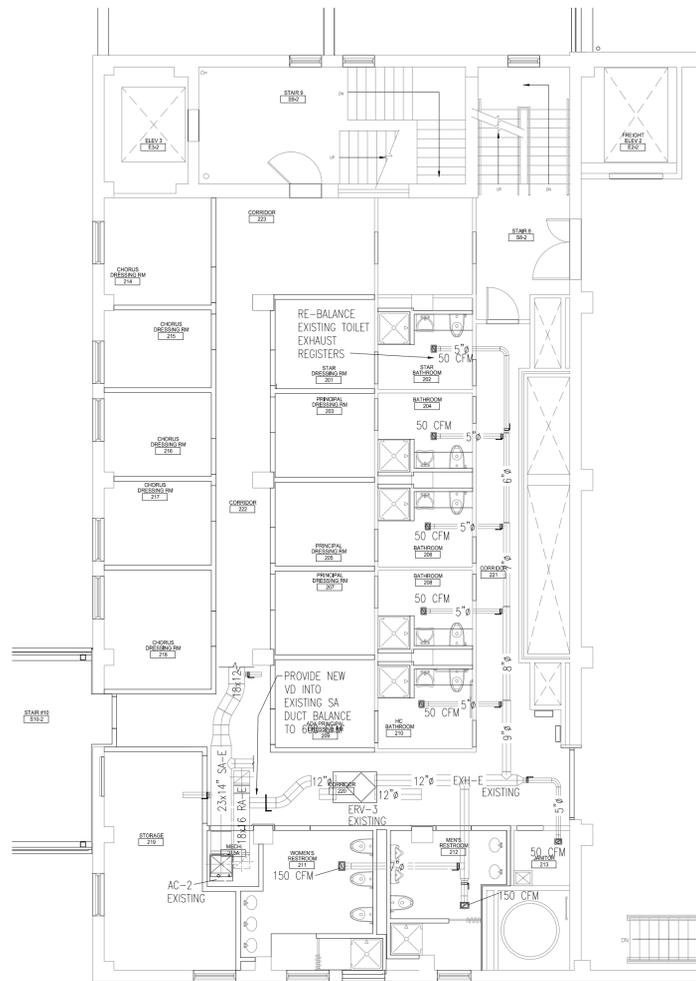
Electrical Engineers
Creative Environment Corp.
50 Office Parkway
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v 401.438.7733

Fire Protection Engineers
Hughes Associates, Inc.
117 Metro Center Blvd., Suite 1002
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v 401.736.8992

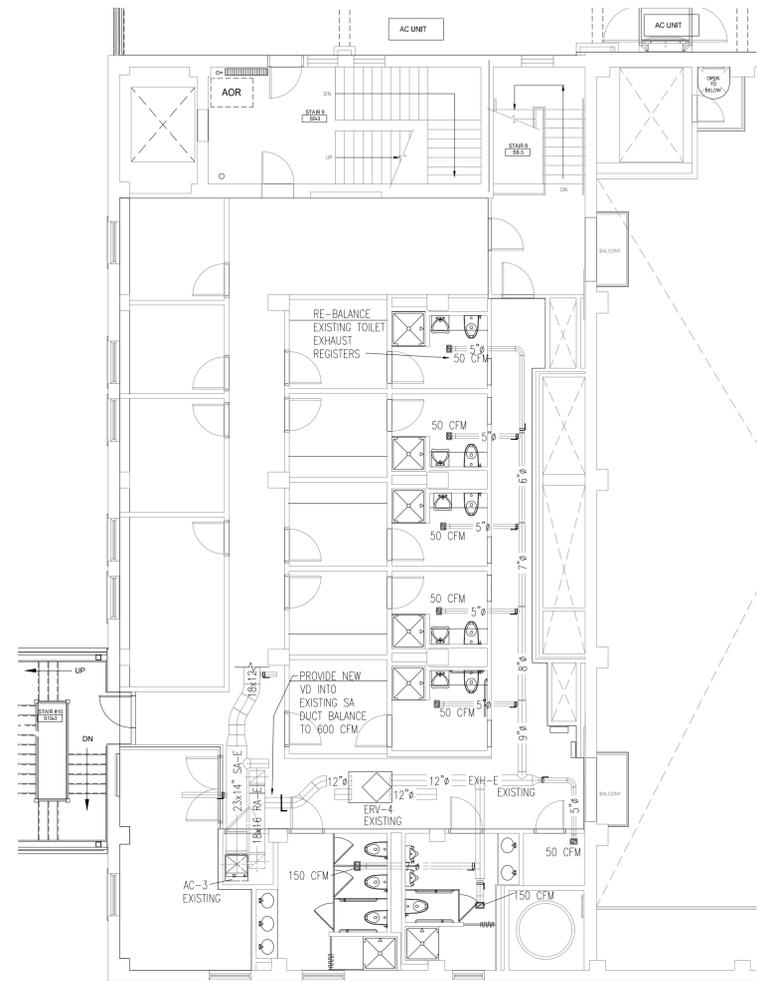
**VETERAN'S MEMORIAL
AUDITORIUM - PHASE III**
83 PARK STREET
PROVIDENCE, RHODE ISLAND



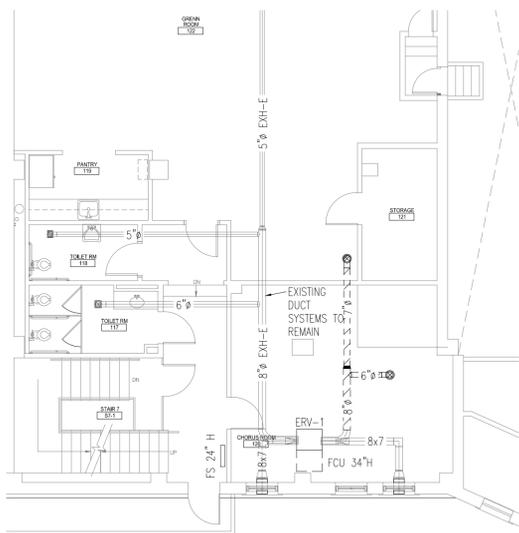
FIRST FLOOR
1/8" = 1'-0"



SECOND FLOOR
1/8" = 1'-0"



THIRD FLOOR
1/8" = 1'-0"



FIRST FLOOR HVAC DEMOLITION
1/8" = 1'-0"

INSTALLATION NOTES:

- DEMOLISH EXISTING DUCTS ON FIRST FLOOR.
- PROVIDE NEW VOLUME DAMPER AS INDICATED ON SECOND AND THIRD FLOORS; AND NEW DUCT SYSTEMS, ETC. ON THE FIRST FLOOR.
- PROVIDE MOTOR SPEED CONTROLLER FOR EACH ERV AS SCHEDULED.
- BALANCE EXISTING EXHAUST SYSTEMS AT LOWEST POSSIBLE FAN SPEED SET BY MOTOR SPEED CONTROLLER. THIS MAY REQUIRE MORE THAN ONE "ITERATION" OF THE BALANCING PROCEDURE SO THAT AT LEAST ONE VOLUME DAMPER IN THE SYSTEM IS FULLY OPEN WITH EXHAUST CFM WITHIN 10% OF SPECIFIED AMOUNT.
- ADJUST VOLUME DAMPER TO PROVIDE FRESH AIR INTAKE CFM AS SPECIFIED ON THE ERV SCHEDULE.
- LOCK MOTOR SPEED CONTROLLER ADJUSTMENT IN PLACE. PROVIDE PERMANENT MARK OF ADJUSTMENT POSITION AND INDICATE THIS ON THE BALANCING REPORT.

EXISTING ENERGY RECOVERY VENTILATOR (ERV) SCHEDULE

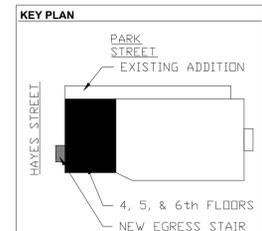
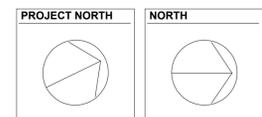
Symbol	Bases of Design		Supply CFM	Exhaust CFM	Electrical Single Point Wiring		Remarks
	Manufacturer	Model			Voltage 60 Hz	Amperity	
ERV-1	Renew-Aire	EV300	200	200	120 1 Phase	3.3 FLA	
ERV-2	"	"	"	"	"	"	
ERV-3	"	HE1XNH	500	500	208-230 1 Phase	9.70	
ERV-4	"	"	"	"	"	"	

WALL-MOUNT SOLID STATE VARIABLE SPEED CONTROLLER

ERV Unit	Bases of Design		Electrical capacity		Remarks
	Manufacturer	Model	Voltage 60 Hz	Amperity	
ERV-1	KB Electronics, Inc.	KEWC-18K	120 1 Phase	8	
ERV-2	"	"	"	"	
ERV-3	"	KEWC-212K	208-230 1 Phase	12	
ERV-4	"	"	"	"	

DUCT MOUNTED SOUND ATTENUATOR

Symbol	Bases of Design		Size		Remarks
	Manufacturer	Model	L	Dia.	
DSA-1	Continental Fan	SA200	23.6"	12.5"	



REVISIONS:

09-17-13 Addendum

HVAC SOUND ATTENUATION

DATE: AUGUST 12, 2013

NCA JOB NO.: 1046.30

DRAWING NO.: H1.10

LIGHTING FIXTURE SCHEDULE					
PROVIDE ENERGY SAVING LAMPS AND ELECTRONIC BALLASTS FOR ALL FLUORESCENT FIXTURES, ALL LAMPS TO BE 3500K IN COLOR TEMPERATURE (835)					
TYPE	MANUFACTURER	LAMPS		MOUNTING	DESCRIPTION
		WATTAGE	TYPE		
A	LEDALITE 332201-STB225511E	2-25	T15	RECESSED	2'X2' DIRECT/INDIRECT LAY-IN TROFFER
B	OMEGA OM61H32PLFLR-CSF	1-32	CFL TRIPLE TUBE	RECESSED	6" DIA. COMPACT FLUORESCENT W/ DECORATIVE RING
C	PINNACLE E4SP-2T5-12'-FL-120-1C-W-PM	4-28	T5	RECESSED	12 FT. X 4" W RECESSED LINEAR DIRECT/PARABOLIC LOUVER WALL SLOT LIGHTING FIXTURE
C1	PINNACLE E4SP-2T5-10'-FL-120-1C-W-PM	4-28	T5	RECESSED	10 FT. X 4" W RECESSED LINEAR DIRECT/PARABOLIC LOUVER WALL SLOT LIGHTING FIXTURE
C2	PINNACLE E4SP-2T5-6'-FL-120-1C-W-PM	2-28	T5	RECESSED	6 FT. X 4" W RECESSED LINEAR DIRECT/PARABOLIC LOUVER WALL SLOT LIGHTING FIXTURE
C3	PINNACLE E4SP-2T5-4'-FL-120-1C-W-PM	2-28	T5	RECESSED	4 FT. X 4" W RECESSED LINEAR DIRECT/PARABOLIC LOUVER WALL SLOT LIGHTING FIXTURE
D	SELECTED BY ARCH. CARRY \$1000 EACH.			PENDANT	4 FT. DIAMETER DECORATIVE CHANDELIER
F	SCOTT 52380-1C57IPT	1-57	TTCF	PENDANT	6"DIA. X 18" L X 36" O.A.H. WITH WHITE OPAL SHIELD & PAINTED BODY. BOTTOM OF FIXTURE TO BE 10'-0" A.F.F.
G	SEA GULL LIGHTING 4740-98	8-100	G-25	WALL	48" SURFACE MOUNT "CENTER STAGE"
I	STERNBERG 1480FA-0A-150MHP-150/MED-ABZ	1-150	M.H.	WALL	MEDIUM BRONZE FINISH DECORATIVE BRACKET MOUNTED FIXTURE.
O	LAMAR LIGHTING DLSLED-48	1-23	LED	WALL	LED WITH BUILT IN MOTION SENSORS AND (2) LEVEL LIGHT OUTPUT.
P	CAPRI CFR62H130U-RI-PSH12P	2-13	C.F. ELECT.	RECESSED	SHOWER LIGHT
R	LIGHTOLIER PM0L35SA1-SK01-PA01	1-10	LED	PENDANT	DECORATIVE LED CABLE MOUNTED FIXTURE. BOTTOM OF FIXTURE TO BE 10'-0" A.F.F.
U	DAY-BRITE HBD-250-P-MT-PSR-0TD-HP25-HMR-LMR-GLT6	1-250	PSMH	PENDANT	PROVIDE MATCHING 208 VOLT RECEPTACLE FOR CORD PLUG ASSEMBLY
U1	SEA GULL LIGHTING 5962LE-98	2-32	T8	SURFACE	4 FT. UTILITY LIGHT
Y	LIGHTOLIER AGM4PWHDS328	3-28	T-5	PENDANT	48" LINEAR PENDANT FIXTURE
Z	PHILIPS COLOR KINETICS 523-000053-07	1-70	LED	SURFACE W/ ADJ. BRACKET	REFER TO FIXTURE "Z" WIRING SCHEMATIC AND SIDE VIEW SECTION
X1	CHLORIDE ERC2-AD		LED		CEILING MOUNTED EXIT SIGN
X2	CHLORIDE ERC2-AD		LED		WALL MOUNTED EXIT SIGN
EB	McPHILBEN CTX6L18WCSWC	2-9 WATT HALOGEN		SURFACE MOUNTED	EMERGENCY BATTERY UNIT WITH LIGHT HEADS
EB1	McPHILBEN CTX6L24WCSWD	(2) 6 VOLTS 9 WATT		SURFACE MOUNTED	EMERGENCY BATTERY UNIT WITH LIGHT HEADS WITH REMOTE CAPABILITY
EB2	McPHILBEN PDRW	(2) 6 VOLTS 6 WATT			REMOTE DUAL LAMP EMERGENCY LIGHT

ELECTRICAL GENERAL NOTES

- IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO PROVIDE THEIR OWN FIRESTOPPING AT ALL PENETRATIONS, BETWEEN FLOORS AND RATED WALLS.
- PERFORM ALL WORK IN ACCORDANCE WITH NATIONAL AND STATE ELECTRICAL CODES, LOCAL ORDINANCES, AND REQUIREMENTS OF THE LOCAL WIRING INSPECTOR.
- MATERIALS
 - ALL WIRING SHALL BE COPPER; #8 OR SMALLER SHALL BE 60 DEGREES C., #6 OR LARGER SHALL BE 75 DEGREES C. GENERAL BRANCH WIRING SHALL BE TYPE "MC" CABLE. GENERAL INTERIOR WIRING, EXPOSED BRANCH CIRCUIT WIRING WITHIN THE BUILDING SHALL BE INSTALLED IN E.M.T. WITH SET SCREW TYPE FITTINGS.
 - ALL BRANCH CIRCUIT WIRING IN COMMON AREAS SHALL BE TYPE "MC" CABLE.
 - ALL PRODUCTS AND DEVICES SHALL BE NEW AND BEAR THE UNDERWRITERS LABORATORIES LABEL. DEVICES SHALL BE SPECIFICATION GRADE AND COLOR BY ARCHITECT.
- PERFORM ALL WORK IN A WORKMANLIKE AND TIMELY MANNER SUBJECT TO THE APPROVAL OF THE ARCHITECT.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSURANCE, PERMITS, FEES, AND INSPECTIONS REQUIRED FOR THE PERFORMANCE OF HIS WORK.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL WORK WITH ALL OTHER TRADES. ANY CONFLICT SHALL BE PRESENTED TO THE GENERAL CONTRACTOR AND ARCHITECT PRIOR TO INSTALLATION OF WORK.
- PANEL DIRECTORIES SHALL BE PROVIDED WITH TYPED DIRECTORIES, INDICATING TYPE LOAD AND LOCATION.
- ALL PRODUCTS SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY OWNER.
- ALL WIRING AND EQUIPMENT ARE DEPICTED DIAGRAMMATICALLY. FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD AND ANY CONFLICTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY POWER AND LIGHTING, SPECIAL PURPOSE LIGHTING REQUIREMENTS SHALL BE PAID FOR BY THE TRADE REQUIRING SAME. (WELDERS COMPRESSORS ETC.)
- SHOP DRAWINGS SHALL BE SUBMITTED ON ALL ELECTRICAL EQUIPMENT.
- ALL WIRING INDICATED ON PLANS SHALL MATCH THE AMPERAGE OF THE CIRCUIT BREAKER INDICATED AT THE HOMERUN. WHERE NO BREAKER SIZE IS INDICATED THE BREAKER SHALL BE 20A/1P AND SHALL BE #12 AWG. CABLE.
- ELECTRICAL CONTRACTORS SHALL REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL, AND HVAC EQUIPMENT.
- ALL SPEAKERS TO BE TAPPED AT 1/4 WATT

ELECTRICAL SYMBOLS LEGEND

- XX ○ FLUORESCENT 1'x4' LIGHTING FIXTURE-LETTER INDICATES TYPE, SUBSCRIPT DENOTES CONTROL AND CIRCUIT NUMBER
- XX ○ FLUORESCENT 2'x2' LIGHTING FIXTURE-LETTER INDICATES TYPE, SUBSCRIPT DENOTES CONTROL AND CIRCUIT NUMBER
- XX ○ LED 1'x4' LIGHTING FIXTURE-LETTER INDICATES TYPE, SUBSCRIPT DENOTES CONTROL AND CIRCUIT NUMBER
- XX ○ LED/INCANDESCENT/FLUORESCENT/HID LIGHTING FIXTURE-LETTER INDICATES TYPE, SUBSCRIPT DENOTES CONTROL AND CIRCUIT NUMBER
- XX ○ EXIT SIGN, ONE OR TWO FACED. ARROWS DENOTE DIRECTION, SHADING DENOTES NUMBER AND ORIENTATION OF SIGN FACE(S).
- SWITCHES (MOUNTED 48" AFF.)
 - S_o SINGLE POLE SWITCH. SUBSCRIPT INDICATES SWITCH CONTROL.
 - S_{3o} THREE-WAY SWITCH. SUBSCRIPT INDICATES SWITCH CONTROL.
 - D_o PRESET DIMMER SWITCH, MTD. 48" A.F.F. SUBSCRIPT INDICATES SWITCH CONTROL. LUTRON MODEL DTV4-WH.
 - T_s WATT STOPPER TS-200 TIMER SWITCH WIRED TO CLOSET ROOM LIGHTS.
 - SP PILOT SWITCH
 - DW WATTSTOPPER #DW-100 OCCUPANCY SENSOR, WALL MOUNTED AT 48" AFF.
- RECEPTACLES (MOUNTED 18" A.F.F. OR AS INDICATED ON DRAWINGS)
 - J JUNCTION BOX
 - SINGLE RECEPTACLE
 - DUPLEX RECEPTACLE MTD 18" A.F.F. TO CENTER. "C" INDICATES MTD 6" ABOVE COUNTER TOP. "F" INDICATES FLOOR MOUNTED. "G" INDICATES ISOLATED GROUND TYPE.
 - GROUND FAULT INTERRUPTING RECEPTACLE MTD 18" A.F.F. TO CENTER. "C" INDICATES MTD 6" ABOVE COUNTER TOP. "F" INDICATES FLOOR MOUNTED. "G" INDICATES ISOLATED GROUND TYPE. "EWC" INDICATES ELECTRIC WATER COOLER, "D" INDICATES DOUBLE DUPLEX GFI.
 - SAME AS ABOVE EXCEPT QUADRUPEX
 - XX-XXR SPECIAL PURPOSE OUTLET WITH NEMA CONFIGURATION TO MATCH EQUIPMENT
 - FM FIRE-O-MATIC SWITCH, MTD. OVER BURNER & WATER HEATER. OMOG CAT. #: TC-1
 - SEM BOILER EMERGENCY SWITCH. ARROW-HART #: CS120 W/ MULLBERRY 41020 PLATE
 - ST SINGLE POLE MOTOR RATED SWITCH W/ OVERLOAD HEATER (MANUAL MOTOR STARTER).
 - DIS FUSED DISCONNECT SWITCH WITH RATINGS
 - 30/20/3/DE/1 NEMA RATING. "WP" INDICATES RAINWIGHT INDICATES DUAL ELEMENT FUSES NUMBER OF POLES FUSE SIZE. "NF" INDICATES NON FUSED SWITCH SIZE
 - ☒ MAGNETIC MOTOR STARTER
 - MOTOR
 - ELECTRIC PANEL, SURFACE MOUNTED
 - SURFACE MOUNTED RACEWAY, DIVIDED RACEWAY WITH TELE/DATA AND DUPLEX RECEPTACLES
 - HOMERUN, SEE HOMERUN KEY.
 - AHU HVAC EQUIPMENT TAG, REFER TO HVAC DRAWINGS

FIRE ALARM

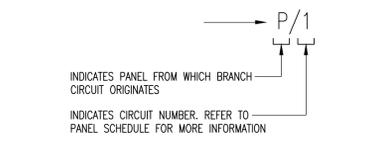
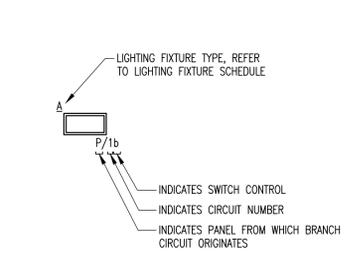
- F △ SIMPLEX FIRE ALARM HORN/STROBE. MODEL #4906-9127.
- △ SIMPLEX FIRE ALARM STROBE, VISUAL ONLY. MODEL #4906-9101.
- SD SIMPLEX FIRE ALARM PHOTO SENSOR SMOKE DETECTOR (MODEL #4098-9714) WITH SENSOR BASE, STANDARD (MODEL #4098-9792). PROVIDE SENSOR BASE WITH ISOLATOR (MODEL #4098-9793) WHERE THE I.D.C. GOES FROM ONE FLOOR TO ANOTHER.
- F SIMPLEX FIRE ALARM MANUAL PULL STATION, DOUBLE ACTION. MODEL #4099-9003.
- M SIMPLEX FIRE ALARM MONITOR MODULE. MODEL #4090-9106.
- IM SIMPLEX FIRE ALARM ISOLATION MODULE. MODEL #4090-9106.
- R SIMPLEX FIRE ALARM RELAY IAM. MODEL #4090-9002.
- PS FIRE ALARM SPRINKLER PRESSURE SWITCH, PROVIDED BY FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- FS FIRE ALARM SPRINKLER FLOW SWITCH, PROVIDED BY FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- TIS FIRE ALARM SPRINKLER TAMPER SWITCH, PROVIDED BY FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- AR AREA OF REFUGE CALL STATION

TELECOMMUNICATIONS

- (MOUNTED 18" A.F.F. OR AS INDICATED ON DRAWINGS)
 - ▽ TELEPHONE OUTLET
 - ▽ TELEPHONE OUTLET FLOOR MOUNTED
 - ▽ DATA OUTLET
 - ▽ DATA OUTLET FLOOR MOUNTED
 - ▽ COMBINATION TELE/DATA OUTLET
 - CLEARCOM SPEAKER/INTERCOM

OCCUPANCY SENSOR LEGEND

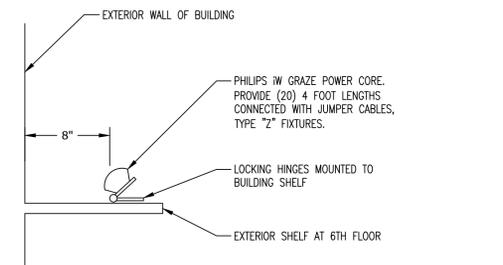
- OS #1 WATT STOPPER DT-200 DUAL TECHNOLOGY OCCUPANCY SENSOR. PROVIDE POWER PACK AND WIRING AS SHOWN ON 8-WIRE OCCUPANCY SENSOR STANDARD SCHEMATIC ON SHEET E207.
- OS #2 WATT STOPPER CX-100 PIR CORNER MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR. PROVIDE POWER PACK AND WIRING AS SHOWN ON 8-WIRE OCCUPANCY SENSOR STANDARD SCHEMATIC ON SHEET E207.
- OS #3 WATT STOPPER WPIR PASSIVE INFRARED OCCUPANCY SENSOR. PROVIDE POWER PACK AND WIRING AS SHOWN ON 8-WIRE OCCUPANCY SENSOR STANDARD SCHEMATIC ON SHEET E207.
- OS #4 WATT STOPPER WT-1105 ULTRASONIC OCCUPANCY SENSOR. PROVIDE POWER PACK AND WIRING AS SHOWN ON 8-WIRE OCCUPANCY SENSOR STANDARD SCHEMATIC ON SHEET E207.
- #5 NOT USED
- OS #6 WATT STOPPER WI-300 AUTOMATIC WALL SWITCH SENSOR. REPLACES ROOM SWITCH AND WIRED TO ROOM LIGHTS.
- OS #7 WATT STOPPER WT-2250 ULTRASONIC OCCUPANCY SENSOR. PROVIDE POWER PACK AND WIRING AS SHOWN ON 8-WIRE OCCUPANCY SENSOR STANDARD SCHEMATIC ON SHEET E207.
- OS #8 WATT STOPPER HDLS15-7



GENERAL NOTES:
1. UNLESS OTHERWISE INDICATED, WIRE SHALL BE #12. REFER TO PANEL SCHEDULES FOR NUMBER OF CIRCUIT BREAKER POLES FOR QUANTITY OF WIRES REQUIRED.

HOMERUN KEY

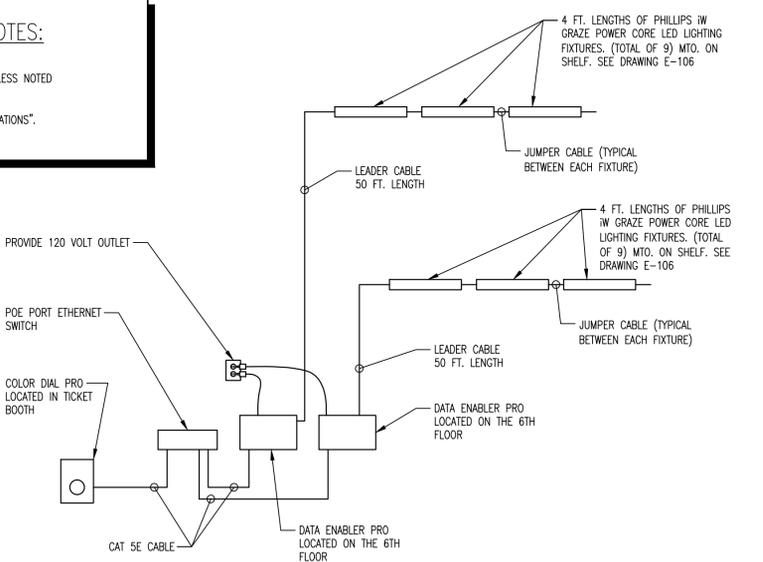
NOT TO SCALE



BUILDING SECTION SHOWING SIDE VIEW OF TYPE "Z" FIXTURE

NOT TO SCALE

EXISTING ITEMS NOTES:
1. ITEMS SHOWN DASHED ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
2. SEE SPECIFICATION SECTION: "REMOVALS AND RELOCATIONS".



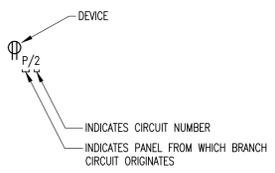
FIXTURE "Z" WIRING SCHEMATIC

NOT TO SCALE

- NOTES:**
THIS KEY APPLIES TO ALL LIGHTING FIXTURE TYPES, EXIT SIGNS, EMERGENCY BATTERY UNITS, ETC.
- GENERAL NOTES:**
1. WIRING (MC, NM, FMC, CONDUIT, ETC.) SHALL BE REQUIRED BETWEEN ALL LIGHTING FIXTURES, EXIT SIGNS, EMERGENCY BATTERY UNITS, ETC. REFER TO ELECTRICAL SPECIFICATIONS FOR APPLICABLE WIRING METHOD.
2. ALTHOUGH BRANCH WIRING AND CONDUIT IS NOT SHOWN, IT IS INTENDED THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE PROVIDED.

LIGHTING BRANCH CIRCUITING KEY

NOT TO SCALE



- NOTES:**
THIS KEY APPLIES TO ALL RECEPTACLE TYPES, JUNCTION BOXES, DISCONNECT SWITCHES, THERMAL SWITCHES, ETC.
- GENERAL NOTES:**
1. WIRING (MC, NM, FMC, CONDUIT, ETC.) SHALL BE REQUIRED BETWEEN ALL RECEPTACLES, JUNCTION BOXES, DISCONNECT SWITCHES, THERMAL SWITCHES, ETC. REFER TO ELECTRICAL SPECIFICATIONS FOR APPLICABLE WIRING METHOD.
2. ALTHOUGH BRANCH WIRING AND CONDUIT IS NOT SHOWN, IT IS INTENDED THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE PROVIDED.

DEVICE BRANCH CIRCUITING KEY

NOT TO SCALE

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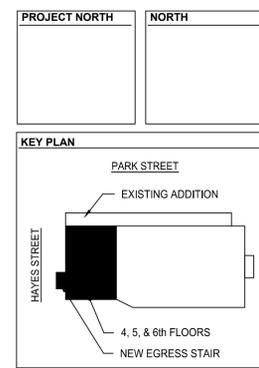
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THE VETS VETERAN'S MEMORIAL AUDITORIUM - PHASE III
83 PARK STREET
PROVIDENCE, RHODE ISLAND

REVISIONS:
△ ADDENDUM #1 REVISED 09/13/13

SCHEDULES, NOTES, LEGEND & DETAILS

DATE: AUGUST 12, 2013
NCA JOB NO.: 1046.30
DRAWING NO.: E-001





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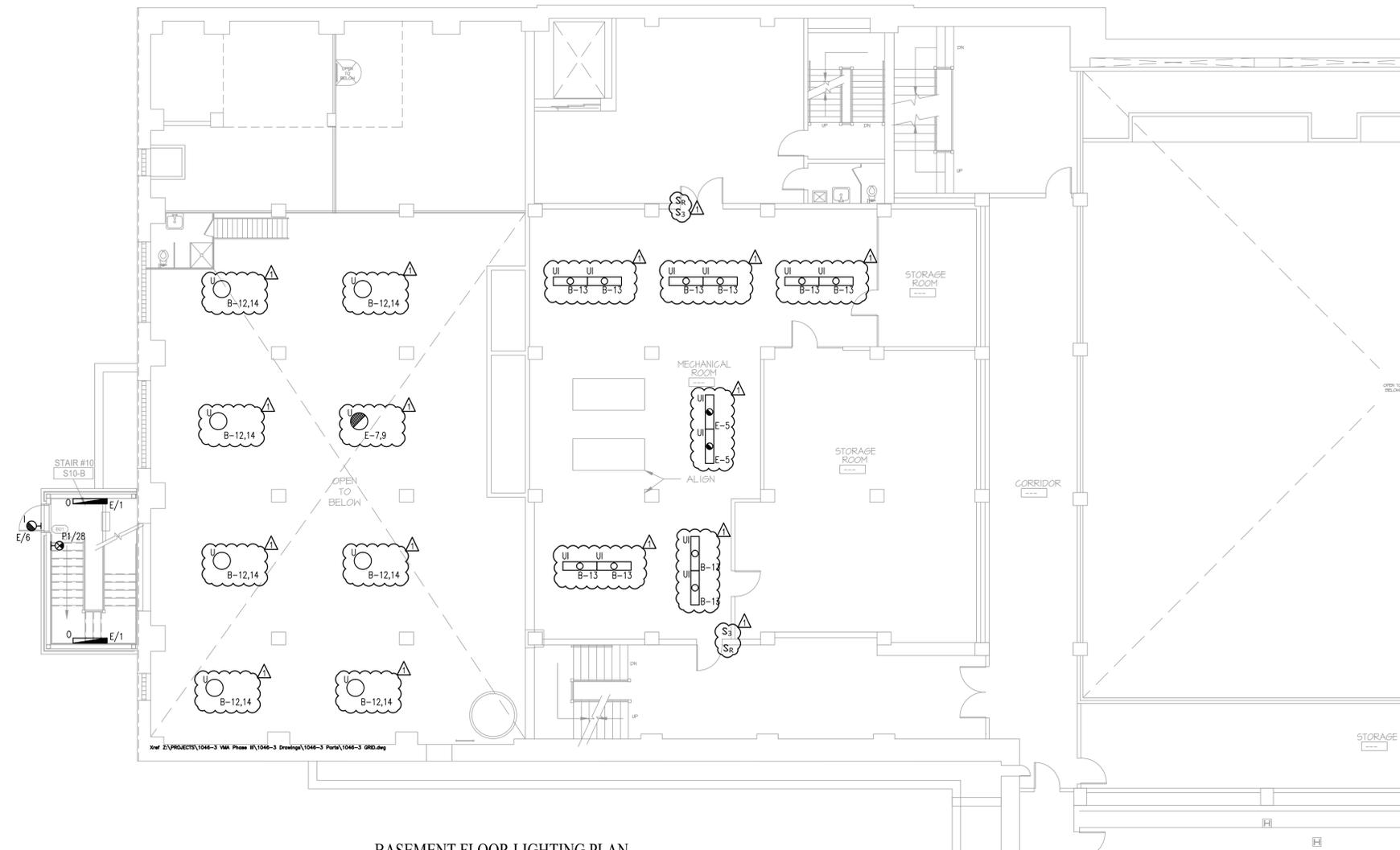
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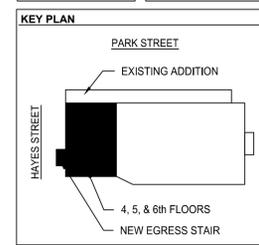
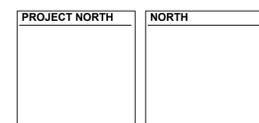


BASEMENT FLOOR LIGHTING PLAN
 SCALE: 1/8" = 1'-0"

THE VETS VETERAN'S MEMORIAL AUDITORIUM - PHASE III
 83 PARK STREET
 PROVIDENCE, RHODE ISLAND



REVISIONS:
 ▲ ADDENDUM #1 REVISED 09/13/13



BASEMENT LIGHTING PLAN
 DATE: AUGUST 12, 2013
 NCA JOB NO.: 1046.30
 DRAWING NO.: **E-100**



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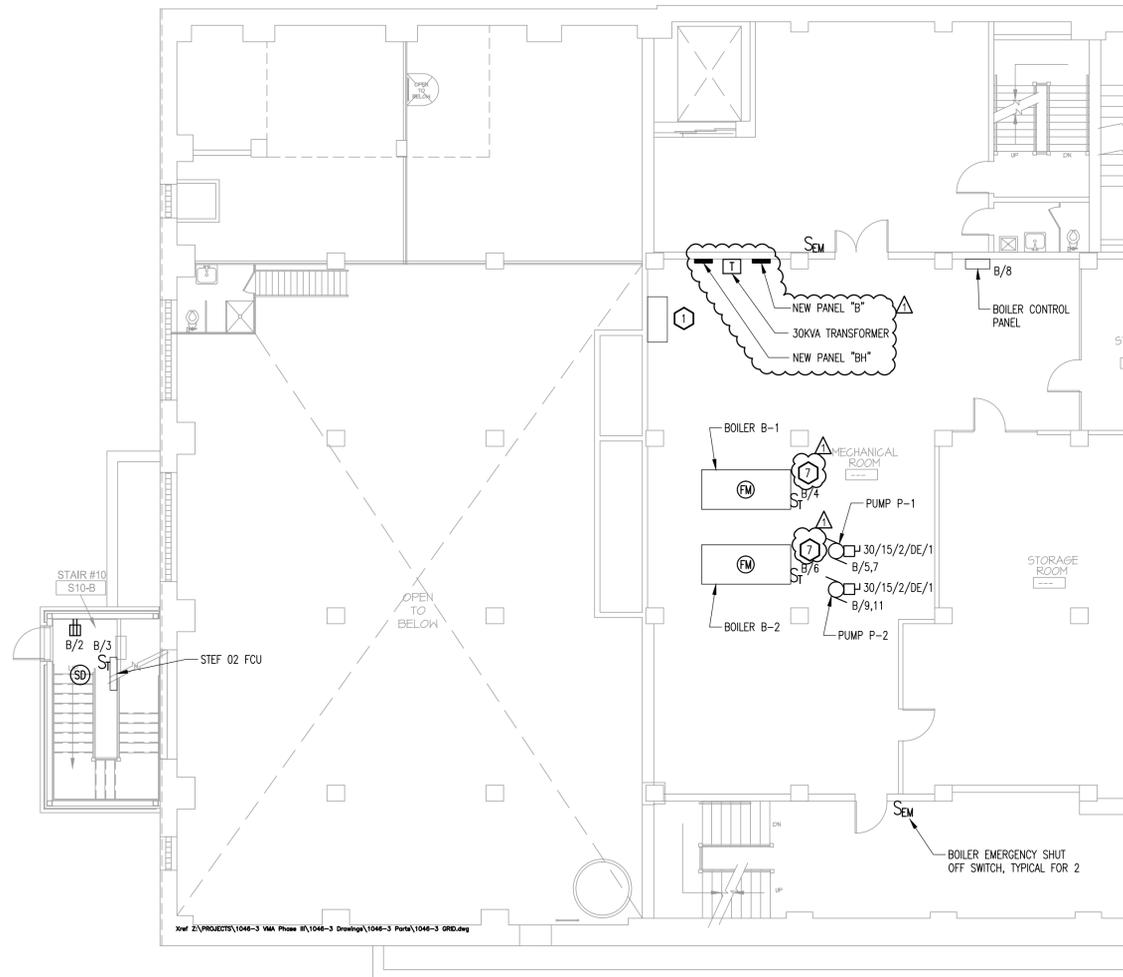
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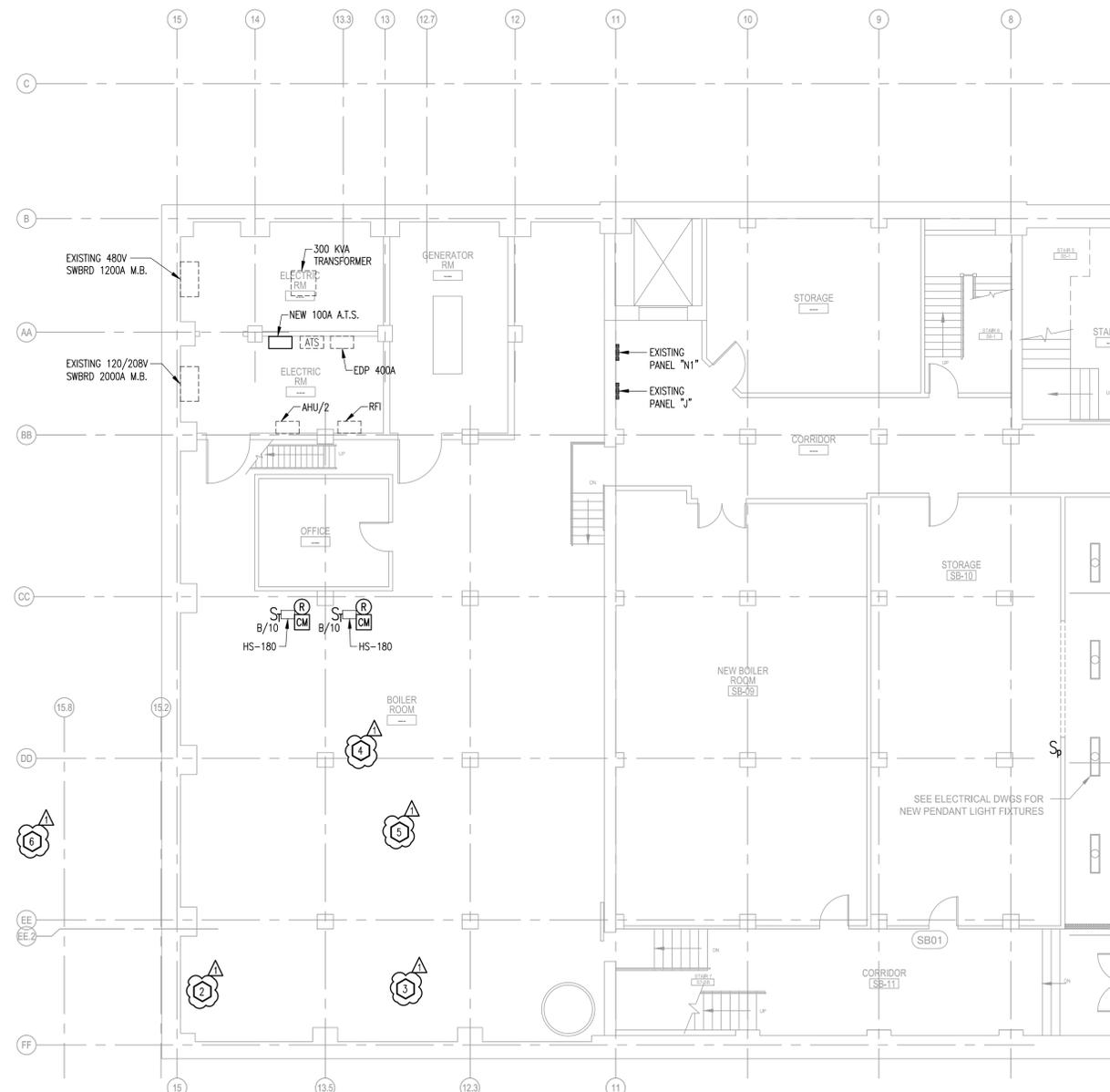
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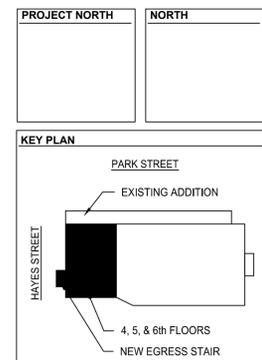



BASEMENT POWER & SYSTEMS PLAN
 SCALE: 1/8" = 1'-0"

- SHEET NOTES:**
- 1 DISCONNECT AND REMOVE BACK TO SOURCE POWER CIRCUITS SERVING (4) ABANDONED HVAC UNITS.
 - 2 DISCONNECT AND REMOVE BACK TO SOURCE POWER CIRCUITS SERVING OIL HEATING CIRCULATION EQUIPMENT.
 - 3 DISCONNECT AND REMOVE BACK TO SOURCE POWER CIRCUITS SERVING BOILER FEED PUMPS.
 - 4 DISCONNECT AND REMOVE BACK TO SOURCE POWER CIRCUITS SERVING BOILER WATER TREATMENT SYSTEM.
 - 5 DISCONNECT AND REMOVE BACK TO SOURCE POWER CIRCUITS SERVING BOILER AND ASSOCIATED PUMPS.
 - 6 DISCONNECT AND REMOVE BACK TO SOURCE POWER CIRCUITS SERVING H & V UNIT.
 - 7 WIRE TO BOILER BURNER AND TO THE BOILER CONTROL PANEL.

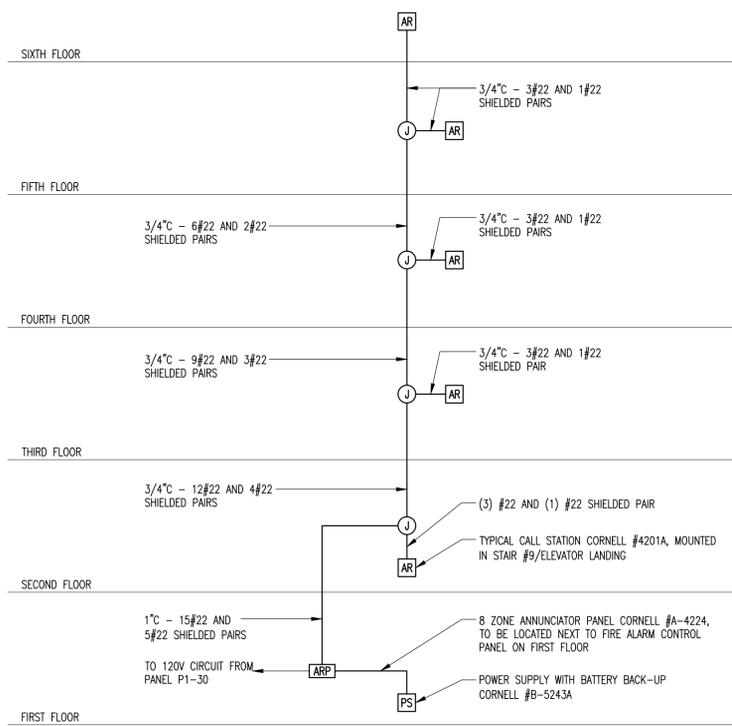


SUB BASEMENT FLOOR POWER & SYSTEMS PLAN
 SCALE: 1/8" = 1'-0"

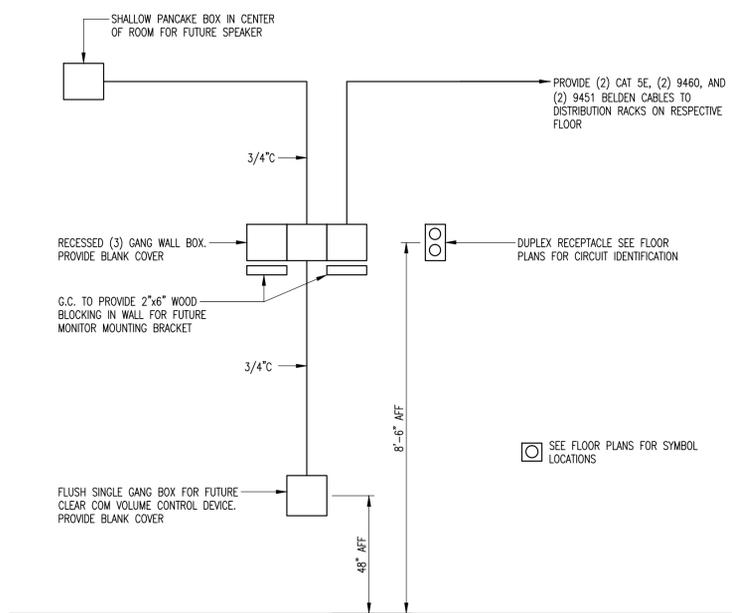


REVISIONS:
 Δ ADDENDUM #1 REVISED 09/13/13

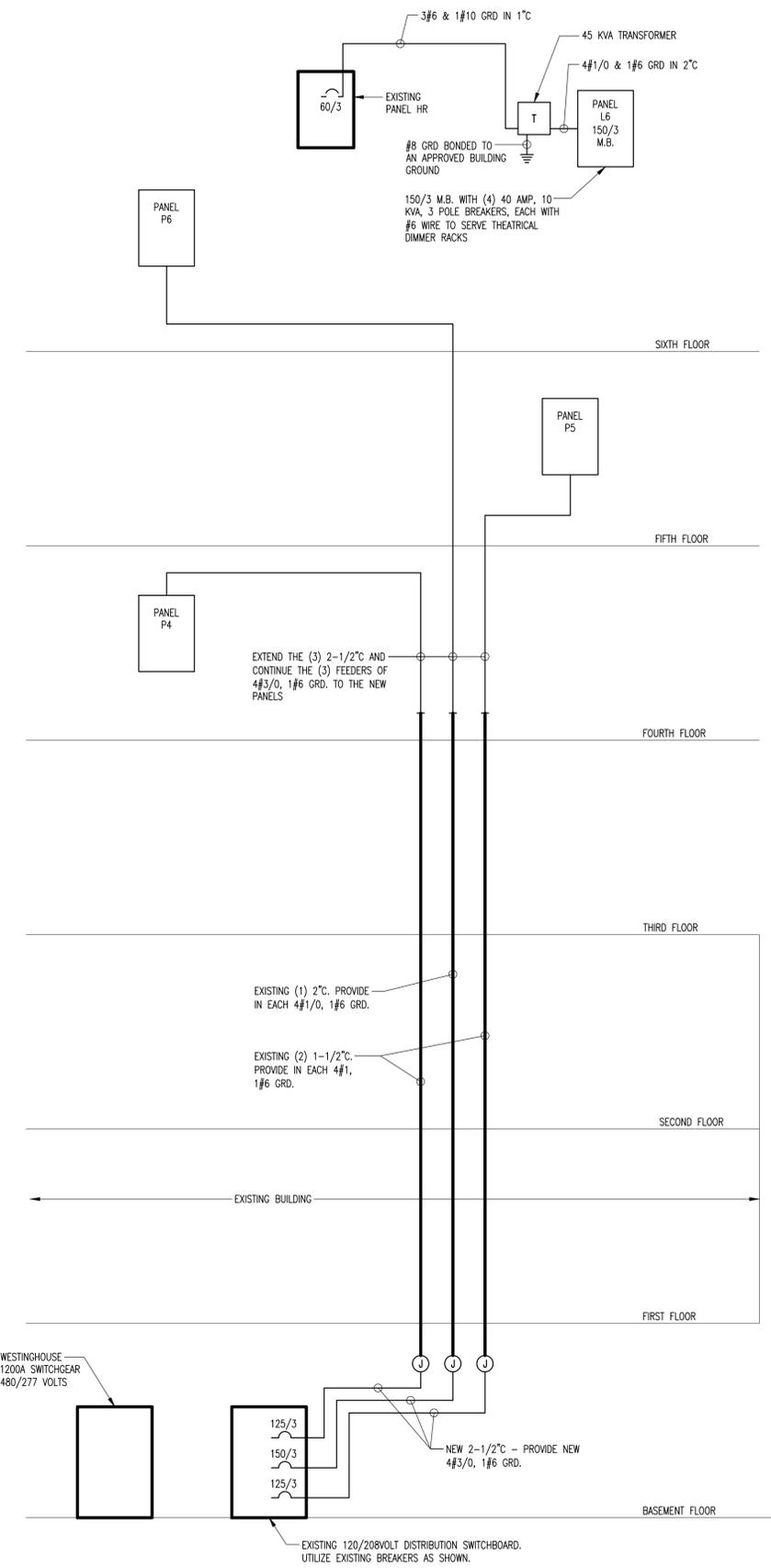
BASEMENT & SUB BASEMENT POWER/SYSTEMS PLAN
 DATE: AUGUST 12, 2013
 NCA JOB NO.: 1046.30
 DRAWING NO.: **E-200**



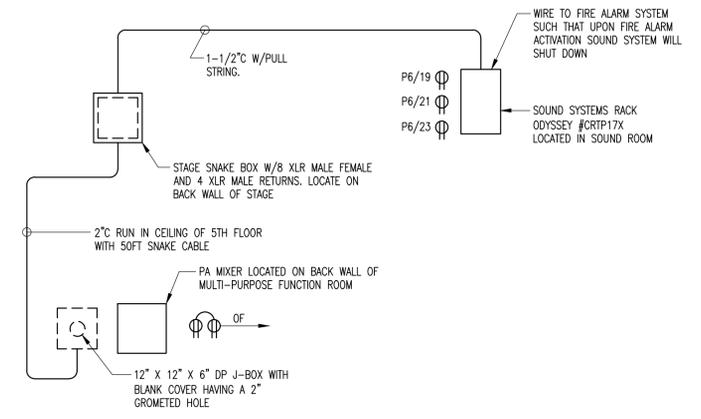
AREA OF REFUGE SCHEMATIC
NTS



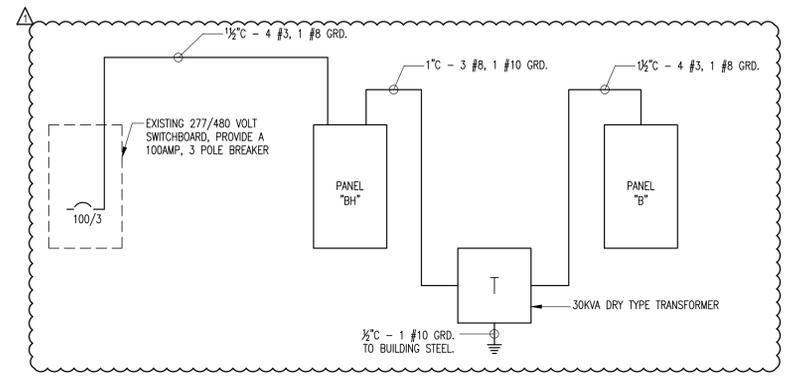
TYPICAL COM/VIDEO (CLEARCOM) OUTLET
NTS



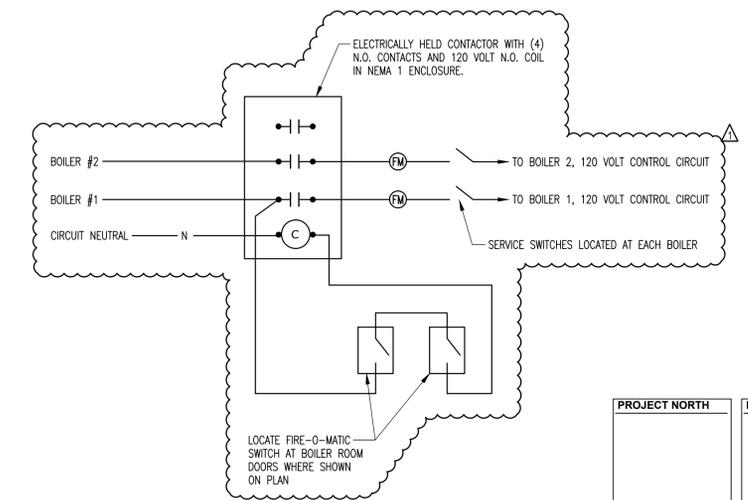
POWER DISTRIBUTION SCHEMATIC
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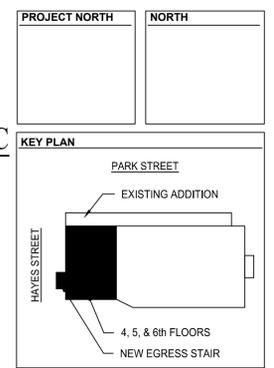
SOUND SYSTEM WIRING DIAGRAM
NTS



FEEDER DIAGRAM FOR PANELS "BH" AND "B"
NTS



BOILER EMERG. SHUTDOWN SCHEMATIC
NTS



NCA
NORTHEAST COLLABORATIVE ARCHITECTS
333 Westminster Street - 4th Floor
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855A Waterman Ave.
East Providence, RI 02914
v 401.438.2071

Structural Engineers
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North Providence, RI 02804
v 401.724.1771

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18 Short Road
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v 401.397.2730

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v 401.438.7733

Fire Protection Engineers
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117 Metro Center Blvd., Suite 1002
Warwick, RI 02886
v 401.736.8992

THE VETS

VETERAN'S MEMORIAL AUDITORIUM - PHASE III

83 PARK STREET
PROVIDENCE, RHODE ISLAND

REVISIONS:
▲ ADDENDUM #1 REVISED 09/13/13

SCHEMATICS

DATE: AUGUST 12, 2013
NCA JOB NO.: 1046.30
DRAWING NO.: E-301



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 v 401.397.2730

Electrical Engineers
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 50 Office Parkway
 East Providence, RI 02914
 v 401.438.7733

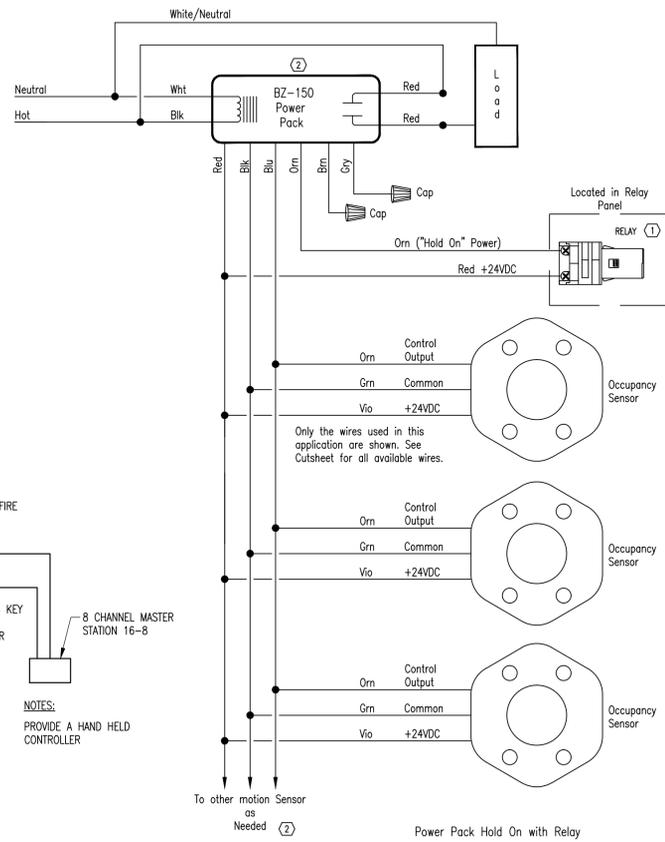
Fire Protection Engineers
 Hughes Associates, Inc.
 117 Metro Center Blvd., Suite 1002
 Warwick, RI 02886
 v 401.736.8992

THE VETS VETERAN'S MEMORIAL AUDITORIUM - PHASE III
 83 PARK STREET
 PROVIDENCE, RHODE ISLAND

REVISIONS:
 ▲ ADDENDUM #1 REVISED 09/13/13

SCHEMATICS
 DATE: AUGUST 12, 2013
 NCA JOB NO.: 1046.30
 DRAWING NO.: **E-302**

Typical wiring from Power Packs to Motion Sensors
 (Lights are held on during day by Scheduled Relay)



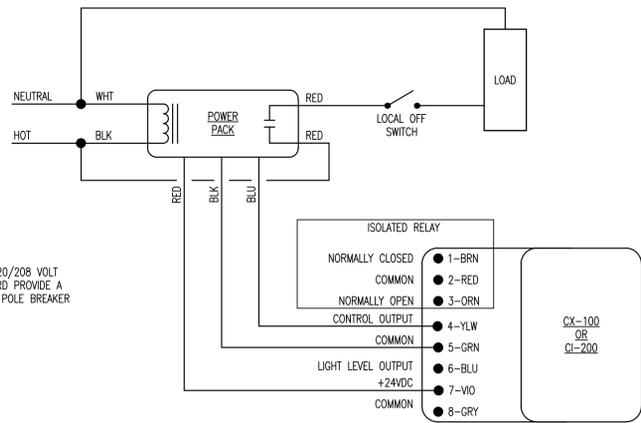
- Notes:**
- (1) Relay shall be assigned to a Schedule to keep Motion Sensors from turning lights off during "Occupied" hours. Relay on "Holds" lights on. Relay off allows full Sensor control of the lights.
 - (2) BZ-150 Power Packs have 225mA @ 24VDC available for Motion Sensors.

POWER PACK HOLD ON WITH RELAY

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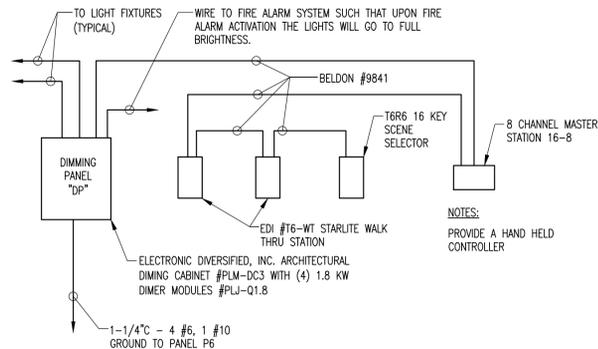
8-WIRE OCCUPANCY SENSOR STANDARD SCHEMATIC

NTS



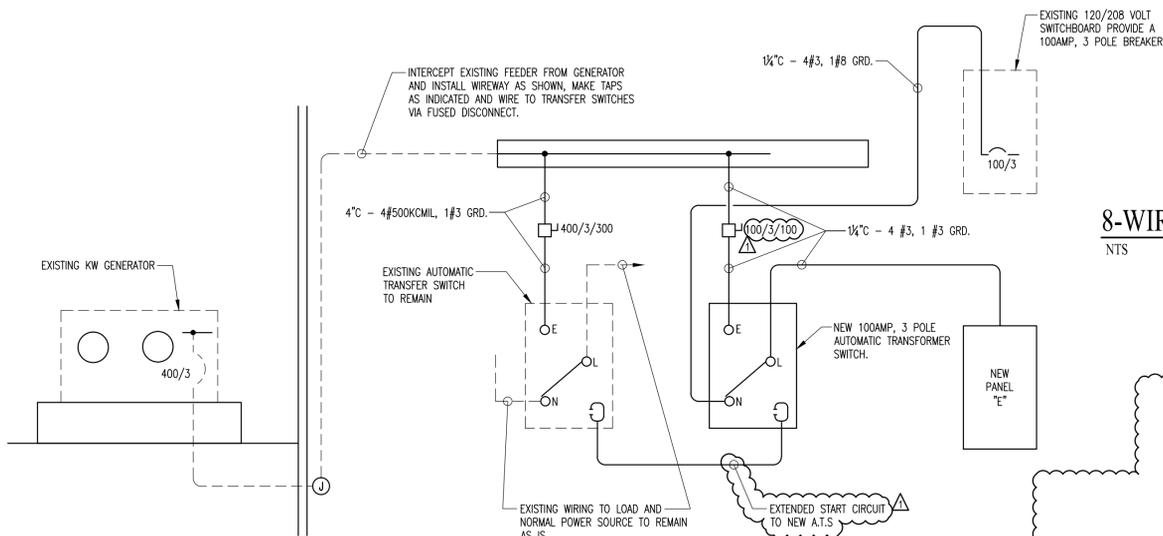
SIXTH FLOOR MULTIPURPOSE BANQUET HALL DIMMING SYSTEM

NTS



NEW LIFE SAFETY WIRING SCHEMATIC

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FIRE ALARM SCHEMATIC - 3RD FLOOR

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FIRE ALARM KEY NOTES

- (1) INTERCEPT EXISTING SUPPLY AND RETURN INITIATING DEVICE CIRCUIT THAT PRESENTLY SERVES EACH FLOOR.
- (2) EXTEND THE NEW NOTIFICATION CIRCUITS AND CONNECT TO THE EXISTING NOTIFICATION CIRCUIT THAT PRESENTLY SERVES EACH FLOOR.
- (3) PROVIDE WIRING TYPE AS REQUIRED FOR THE SIMPLEX DEVICES AS DIRECTED BY THE MANUFACTURERS REPRESENTATIVE.
- (4) FOR EXACT QUANTITY OF DEVICES SEE POWER & SYSTEMS FLOOR PLANS.

