Life Safety Plan - Level 1

Actual Load: 51
Capacity: 170
Width: 34"
CONTRACTOR SHALL MAINTAIN A STOCKPILE OF EXTRA EROSION CONTROL MATERIALS AT THE SITE.

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THE CONTRACTOR SHALL MAINTAIN A STOCKPILE OF EXTRA EROSION CONTROL MATERIALS AT THE SITE.
1. All sidewalks/walkways shall conform to the Massachusetts 4/21/2023 100% DD Plans.

2. The contractor shall verify all layout, dimensions, grades, and access aisles.

Slopes shall not exceed 2% across any accessible parking space. Maximum sidewalk/walkway running slope shall be 5.0%. Sidewalk/walkway cross-slope is 1.0% minimum, 2.0% maximum.

In writing prior to beginning work. To Berkshire Design Group. All discrepancies shall be resolved inverts prior to construction; report any discrepancies.
1. NATIVE EXCAVATED MATERIAL THAT MEETS THE SPECIFICATIONS FOR UNDISTURBED OR COMPACTED SUBGRADE.
2. CONTRACTOR MAY UTILIZE PRECAST FLAT TOP SECTION WHERE DEPTH OF DRAIN LINE, TYP.
3. WEEP HOLES SHALL BE 4" SDR35 PVC PIPE 12" LONG PLACED THROUGH EACH WALL OF CATCH BASIN. OUTSIDE END TO BE COVERED WITH 1/4" MESH, UNDISTURBED OR COMPACTED SUBGRADE.

1. CONTRACTOR MAY UTILIZE PRECAST FLAT TOP SECTION WHERE DEPTH OF DRAIN LINE, TYP.
2. CONTRACTOR MAY SUBMIT AN ALTERNATIVE YARD DRAIN FOR REVIEW BY THE CONTRACTOR.
3. ENTIRE PIPE LENGTH SHALL BE FIRMLY SUPPORTED ON BEDDING.

WATER MAIN

DRAIN MANHOLE

2.  SEE PLANS FOR PIPE SIZES.
1.  ALL PVC PIPE SHALL BE SDR35.

FLOW

DRAIN CLEANOUT

NOTES:

1. CONTRACTOR MAY UTILIZE PRECAST FLAT TOP SECTION WHERE DEPTH OF DRAIN LINE, TYP.
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THE SPECIFIED STRUCTURE, IN THE OPINION OF THE ENGINEER.

CONTRACTOR MAY SUBMIT DATA VERIFYING THAT THE PROPOSED DESIGN IS BASED ON THE STORMCEPTOR BRAND STORMWATER TREATMENT CHAMBER, MODEL 450i. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE TREATMENT UNIT, BUT MUST SUBMIT DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE STORMCEPTOR BRAND STORMWATER TREATMENT CHAMBER, MODEL 450i.

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UTILITY COVER & FRAME FOR UTILITY STRUCTURES IN PAVING
GENERAL NOTES

1. ALL CONCRETE CONSTRUCTION TO CONFORM TO THESE NOTES, THE SPECIFICATIONS, THE LATEST EDITION OF ACI 318, AND THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, AND THE MASSACHUSETTS STATE BUILDING CODE, 9TH EDITION.

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3. STRUCTURAL TIMBER SHALL BE VISUALLY STRESS-GRADED LUMBER IN ACCORDANCE WITH THE PROVISIONS OF ASTM D2488.

4. DESIGN ELEVATION FOR GROUNDWATER IS AT ELEVATION 304.35 AS PER GEOTECHNICAL REPORT.

5. NO FOUNDATION CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN SUBGRADE MATERIAL. WATER SHALL NOT BE ALLOWED IN THE FOUNDATION DURING CASTING CONCRETE.

6. SIDE LAPS BETWEEN ADJACENT DECK UNITS SHALL BE FASTENED BY #10 SCREW AT 36 INCHES O/C.

7. PROVIDE FLASHING AND CLOSURE PLATES AT ENDS OF ALL UNITS, AT SLAB OPENINGS, AND AROUND COLUMNS. ALL JOINTS TO BE CLOSED WITH MATERIALS AND TECHNIQUES TO PREVENT WATER ENTERING BUILDING.

8. ALL REINFORCING BARS SHALL BE PROTECTED WITH DIFFERENT COLOR BANDS AS INDICATED ON DRAWINGS.

9. WELDING ELECTRODES SHALL CONFORM TO AWS E70XX ELECTRODES OR AS OTHERWISE REQUIRED BY THE SPECIFICATIONS, OTHERWISE.

10. ALL CONCRETE CONSTRUCTION TO CONFORM TO THESE NOTES, THE SPECIFICATIONS, THE LATEST EDITION OF ACI 318, AND THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, AND THE MASSACHUSETTS STATE BUILDING CODE, 9TH EDITION.

11. REINFORCED MASONRY WALLS SHALL HAVE BOND BEAMS AT EACH FLOOR LEVEL, THE TOP COURSE OF PARAPETS, AND A CURB AT THE OVERHANG.

12. REFER TO STEELWORK SPECIFICATIONS FOR STEELWORK PROTECTION AND COATINGS.

13. ALL CONCRETE FOOTINGS SHALL BE PROTECTED WITH DIFFERENT COLOR BANDS AS INDICATED ON DRAWINGS.

14. EDGE DISTANCE FROM THE CENTER OF A SHEAR CONNECTOR TO THE EDGE OF A STRUCTURAL STEEL BEAM SHALL PREFERABLY BE NOT LESS THAN 2 INCHES.

15. THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY GUYING AND BRACING REQUIRED TO SUPPORT STEELWORK.

16. ALL STEEL CONNECTIONS NOT SPECIFICALLY CALLED OUT AS FULLY DESIGNED ON THE STRUCTURAL DRAWINGS. SEE THE DRAWING HISTORY.

17. ALL ADHESIVE ANCHORS SHALL BE THE HILTI HY 200 SYSTEM OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. SUBSTITUTIONS NOTED.

18. MASONRY BLOCK CELLS CONTAINING VERTICAL REINFORCING SHALL BE GROUTED SOLID. FILLING CELL WITH MORTAR IS NOT PERMITTED.

19. OPENINGS, INCLUDING SEPARATE HORIZONTALLY-STAGGERED OPENINGS, IN NON-LOAD BEARING CMU WALLS TO INTERRUPT NO."
<table>
<thead>
<tr>
<th>Level</th>
<th>Column Location</th>
<th>Column Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level G (N)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roof Level (N)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level 2 (N)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**BASE PLATE DETAIL**

- BASE PLATE SIZE
- ELEVATION

**PROJECT TEAM:**
- Finegold Alexander
- BLW Engineers, Inc.
- Berkshiredesign.com
- Stefura Associates, Inc.

**DRAWING HISTORY:**
- 04.22.23 100% DD

**OWNER:**
- Jones Library

**ADDRESS:**
- Amherst, MA 01002
- 43 Amity Street
- 4 Allen Place
- 311 Great Road
- 63 Pleasant Street, Suite 200

**PROJECT ISSUE DATE:**
- 04.22.23

**PROJECT ISSUE DATE:**
- 04.22.23

**MEP FP ENGINEER:**
- Preliminary not for Architects
NOTE: CONNECTION DESIGN SHALL BE ENGINEERED BY TIMBER PROVIDER. SEE PLANS FOR MEMBER SIZES, BEAM REACTIONS AND ADDITIONAL INFO.

BEAM TO GIRDER INSTALLATION

POST TO BEAM INSTALLATION

GLULAM BEAM

5/16" PLATE SADDLE CONNECTION WITH 5" BEARING

(12) ¾"Ø HILTI HIT HY 270 ANCHOR BOLTS, 6¾" EMBEDMENT

½"Ø THRU BOLT 1' - 7" TYP

MIN EDGE DISTANCE 1 1/2" EDGE OF CMU WALL

GLULAM BEAM PER PLAN

GRID STEEL COLUMN PER SCHEDULE

STEEL BEAM PER PLAN

PERPENDICULAR BEAMS NOT SHOWN FOR CLARITY

CONNECT GLULAM BEAM TO STEEL POST WITH FULLY CONCEALED CONNECTION, ENGINEERED BY TIMBER PROVIDER.

SADDLE CONNECTION DELETED
LEVEL G (E) SLAB 319'-3" LEVEL G (N) 319'-3"
(E) 5" SLAB ON GRADE PER PLAN
(E) COLUMN FOOTING BEYOND FOOTING
*(E) CONDITIONS SHOWN ARE BASED ON DWGS AND HAVE NOT BEEN FIELD VERIFIED. G.C. TO VIF WHERE POSSIBLE
4 10" ± (VIF)
1' - 10" ± LEVEL G (E) SLAB
LEVEL G (N)
(E) 4" BRICK SHELF
1' - 0" (E) FOOTING BEYOND UNDERPINNING
3'-4" ± (VIF)
2' - 2" ± 2" 1/2" PAN JOIST @ 26" O.C.
2" CIDER/FILL & SCREEDS TOPPING
1' - 0" 2 1/2" 5" 4" 2' - 2"

PROJECT #:
DESCRIPTION
DATE
NO.
PROJECT TEAM:
SHEET #:
PROJECT STATUS:
PROJECT ISSUE DATE:
KEY PLAN:
DRAWING HISTORY:
OWNER:
SHEET NAME:
PROJECT INFORMATION:
SEAL:

Finegold Alexander Architects
43 Amity Street
Amherst, MA 01002
(617) 926-9300
www.rseassociates.com

BLW Engineers, Inc.
311 Great Road
Littleton, MA 01460
(978) 486-4301
www.blwengineers.com

Berkshire Design Group
4 Allen Place
Northampton, MA 01060
(413) 582-7000
www.berkshiredesign.com

Stefura Associates, Inc.
77 N. Washington Street
Boston, MA 02114
(617) 723-5164
www.stefura.com

MEP FP Engineer
Structural Engineer
Landscape Architect/Civil Engineer

Jones Library - Design Development
1/2" = 1'-0" 1
SECTION
04.22.23 100% DD

1/2" = 1'-0" 2
SECTION

1" = 1'-0" 3
SECTION AT EXISTING

S400
Notes - General Demolition

1. Demolition Drawings have been compiled from the best available information and are not intended to limit the scope of work. It will be assumed that the contractor has inspected the site prior to bidding.
2. Only workman skilled and knowledgeable in their trade shall be employed in the demolition of any work.
3. The contractor is responsible for the proper execution of any affected work prior to the commencement of such work.
4. The contractor shall request clarification from the architect of any dimensional requirements as necessary for the proper execution of the work.
5. Demolition work required. All existing conditions, including furnishings, equipment, etc. to be removed. Reused or saved. Any cuts and penetrations in existing work required to accomplish new work shall be coordinated with the demolition subcontractor. Refer to the drawings and masonry specifications for scope.
6. Prior to demolition, all utilities shall be made safe. Thereafter, remove all electrical, plumbing, fire protection and mechanical equipment and accessories not scheduled or indicated to remain.
7. All material indicated to be removed shall be disposed of in accordance with all applicable codes and laws. Refer to the project specifications for recycling directives. The owner retains the right to claim cooperation with the owner at all times.
8. Provide shoring as required.
9. The scope of work has generally been indicated on the drawings for the contractor’s information. It shall take precedence over scale shown on drawings. The contractor shall take note of the best available information and is responsible for not neglecting any part of the work as indicated.
10. Do not scale drawings. Dimensions shall take precedence over scale shown on drawings. The contractor shall take note of the best available information and is responsible for not neglecting any part of the work as indicated.
11. Clean Up Loose Debris Daily. The work area is to be left ‘Broom Clean’ upon completion of the demolition.
12. Provide all DEP permits, hot work permits and fire watch as required.
13. Conduct all work in a manner giving prime consideration to the protection of the public, protection from the owner's requirements, and orderly performance of the work.
14. The contractor is responsible for the proper execution of any affected work prior to the commencement of such work.
15. Provide Pest Control as required per all local jurisdiction guidelines.
16. Special protection required at Historic Stair: Protect all wall paneling, stair and handrail components, doors, and associated hardware for re-installation.
17. Under no condition shall any existing foundation be undermined or any structural member altered in any way that adversely affects existing construction to remain.
18. Prior to demolition, all utilities shall be made safe. Thereafter, remove all electrical, plumbing, fire protection and mechanical equipment and accessories not scheduled or indicated to remain.
19. Remove Interior Partitions from the level of floor slab to the underside of structure above.
20. Protect Existing Load Bearing Walls to remain from demolition activities.
21. Do not scale drawings. Dimensions shall take precedence over scale shown on drawings. The contractor shall take note of the best available information and is responsible for not neglecting any part of the work as indicated.
22. The contractor is responsible for the proper execution of any affected work prior to the commencement of such work.
23. Carefully remove, salvage and store existing safe door and accompanied hardware for re-installation.
24. Under framing removal, remove all floor finishes, adhesives, mortars and associated hardware for re-installation.
25. Remove existing windows, typical at this stair on all levels.
26. Remove existing floor slab above in its entirety.
27. Excavate as required to accept new foundation and footing work. Refer to structural drawings for extent.
28. At all locations noted for flooring removal, remove all finish materials, adhesives, mortars and associated hardware for re-installation.
29. Refer to applicable specification sections for detail of required repair and restoration for each finish.
30. Prior to demolition, all utilities shall be made safe. Thereafter, remove all electrical, plumbing, fire protection and mechanical equipment and accessories not scheduled or indicated to remain.
31. All material indicated to be removed shall be disposed of in accordance with all applicable codes and laws. Refer to the project specifications for recycling directives. The owner retains the right to claim cooperation with the owner at all times.
32. Do not scale drawings. Dimensions shall take precedence over scale shown on drawings. The contractor shall take note of the best available information and is responsible for not neglecting any part of the work as indicated.
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34. Clean Up Loose Debris Daily. The work area is to be left ‘Broom Clean’ upon completion of the demolition.
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48. The contractor is responsible for the proper execution of any affected work prior to the commencement of such work.
GD26 Remove all miscellaneous metal brackets and anchors that are abandoned and not in use.

GD34 Confirm prior to removal of existing mechanical and electrical systems to be performed after disconnection.

GD5 Do not scale drawings. Dimensions shall take precedence over scale shown on drawings. The contractor shall verify all existing conditions and construction. Review with all trades the extent of disturbance any work which is to remain. Contractor will also protect from damage all existing material to be removed, cut down or dismantled shall be done in such a manner as to maintain cooperation with the owner at all times.

GD9 The contractor shall have sole responsibility for verifying conditions at the project site to provide a safe and orderly performance of the work. All work will be performed in the best workmanship possible in accordance with that trade's best industry standards.

GD10 Remove existing areaway in its entirety including walls, slab, footings, window, and trim. Leave adjacent window, and trim. Leave masonry open at openings free and clear for new slab/roof/wall; and capping or termination of active supplies and systems, or portions of systems to remain.

GD11 For all site demolition scope, see civil drawings.

GD12 Provide all DEP permits, hot work permits and fire watch as required.

GD13 Remove existing guard from the bottom tread to the column.

GD14 Special protection required at historic stair: protect all wall paneling, stair and handrail components, doors, windows, and trim. Typical at this stair on all levels.

GD15 Remove existing masonry wall; preserve crown molding and window jambs.

GD16 Provide pest control as required per all local jurisdiction guidelines.

GD18 All work noted to be removed, cut down or dismantled shall be done in such a manner as to maintain thresholds, sealant, flashings and blocking.

GD19 Provide temporary stabilization, shoring and bracing during commencement of demolition and new work.

GD22 For existing roofs to remain, remove all slate roofing, flashing, gutters, downspouts, snow guards, other and all masonry to remain interlocked with demolition work is to be patched, toothed in by mason and

GD23 Masonry to remain interconnected with demolition work is to be patched, toothed in by mason and

GD27 Excavate as required to accept new foundation and footing work. Refer to structural drawings for extent.

GD28 Masonry to remain interconnected with demolition work is to be patched, toothed in by mason and

GD3 The contractor shall verify all existing conditions and construction. Review with all trades the extent of

GD30 The contractor shall replace existing walks and parking damaged during demolition and construction.

GD34 Confirm prior to removal of existing mechanical and electrical systems to be performed after disconnection.

GD39 Remove interior partitions from the level of floor slab to the underside of structure above.

GD41 Remove existing floor slab, refer to structural drawings.
1 Level 3 Plan

2 Level 4 Plan

Notes - General Plan

- E10 Special Protection Required At Historic Stair: Protect All Wall Paneling, Stair And Handrail Components, Doors, Windows, And Trim, Typical At This Stair On All Levels. Refurbish Any Damaged Trim, Paneling, Or Stair Windows, And Trim, Typical At This Stair On All Levels. Refurbish Any Damaged Trim, Paneling, Or Stair

Notes - Plan

- F1 Infill Slab, Refer To Structural Drawings
- F2 Site Wall, Stairs, Ramp, Or Walk, Refer To Landscape Drawings
- F3 Replace Existing Guard From The Bottom Tread To The Column, Match All Existing Sizes And Profiles
- F4 Prep And Paint All Concrete Surfaces Including Treads, Risers And Landing With Cementitious Paint. Patch
- F5 Infill Louver With Matching Masonry And Grout. Tooth Masonry And Match Existing Coursing. Refer To A305
- F6 Infill Areaway With Masonry. Refer To A305 For Exterior Assemblies
- F7 Refer To Structural Drawings And Specifications For All New Steel.
- F8 New Ramp, Refer To Vertical Circulation Drawings
- F9 Refer To Exterior Elevations And Specifications For The Replacement Of Both Window Sashes At All Existing
- F10 Special Protection Required At Historic Stair: Protect All Wall Paneling, Stair And Handrail Components, Doors, Windows, And Trim, Typical At This Stair On All Levels. Refurbish Any Damaged Trim, Paneling, Or Stair

Graphic Key

- E10 Special Protection Required At Historic Stair: Protect All Wall Paneling, Stair And Handrail Components, Doors, Windows, And Trim, Typical At This Stair On All Levels. Refurbish Any Damaged Trim, Paneling, Or Stair

Notes - Drawings

- G1 Contractor Shall Field Verify All Existing Site, Building, And Utility Conditions And Shall Promptly Notify The
- G2 Coordinate All Removal Work With New Work Required By Structural, Mechanical, Plumbing, Electrical,
- G3 All Indications And Notations On The Drawings Applying To One Area, Component Or Condition Shall Apply To
- G4 Maintain Complete Drainage At All Times During Removal Operations And New Construction. Install And
- G5 Drawings Are Not To Be Scaled. Dimensions Shall Take Precedence Over Scale Shown On Drawings. The
- G6 Infill Existing Openings - See Structural Drawings - New Slab
- G7 Refer To Structural Drawings And Specifications For All New Steel.
- G8 Refer To A305 For Exterior Assemblies And A601 For Interior Partition Types.
- G9 Refer To Exterior Elevations And Specifications For The Replacement Of Both Window Sashes At All Existing
- G10 Refer To Exterior Elevations And Specifications For Exterior Masonry Repair, Patch, And Restoration Work.
- G11 Masonry To Remain Interlocked With The Demo Work Is To Be Patched, Toothed-In By Mason And
- G12 Replace Damaged Or Missing Exterior And Interior Wood Trim, Paneling And Ornaments. Assume 50%
- G13 Refer To Landscape Drawings And Specifications For All New Landscape.
- G14 Contractor Shall Replace Existing Walks Damaged During Demolition And Construction.
- G15 GWB Partitions To Receive A Level 5 Finish, Except At Back-Of-House Spaces Including, But Not Limited To,
- G16 Maintain Complete Drainage At All Times During Removal Operations And New Construction. Install And
- G17 G4 Maintain Complete Drainage At All Times During Removal Operations And New Construction. Install And
- G18 GWB Partitions To Receive A Level 5 Finish, Except At Back-Of-House Spaces Including, But Not Limited To,
- G19 G3 All Indications And Notations On The Drawings Applying To One Area, Component Or Condition Shall Apply To
- G20 G1 Contractor Shall Field Verify All Existing Site, Building, And Utility Conditions And Shall Promptly Notify The
- G21 G5 Drawings Are Not To Be Scaled. Dimensions Shall Take Precedence Over Scale Shown On Drawings. The
- G22 G6 Infill Existing Openings - See Structural Drawings - New Slab
- G23 G7 Refer To Structural Drawings And Specifications For All New Steel.
- G24 Maintain Complete Drainage At All Times During Removal Operations And New Construction. Install And
- G25 G8 Refer To A305 For Exterior Assemblies And A601 For Interior Partition Types.
- G26 G9 Refer To Exterior Elevations And Specifications For The Replacement Of Both Window Sashes At All Existing
- G27 G10 Refer To Exterior Elevations And Specifications For Exterior Masonry Repair, Patch, And Restoration Work.
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- G34 G23 G6 Infill Existing Openings - See Structural Drawings - New Slab
- G35 G24 Maintain Complete Drainage At All Times During Removal Operations And New Construction. Install And
- G36 G25 G8 Refer To A305 For Exterior Assemblies And A601 For Interior Partition Types.
- G37 For Exterior Assemblies
- G38 For Interior Partition Types.
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- G41 For Exterior Assemblies
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- G53 For Exterior Assemblies
- G54 For Interior Partition Types.
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- G56 For Interior Partition Types.
- G57 For Exterior Assemblies
- G58 For Interior Partition Types.
Notes - General Ceiling Plan

Building - Existing and Addition

GWB - Gypsum Ceiling

ACT (Acoustical Ceiling Tile - 2 x 2)

GWB - Gypsum Ceiling

Accoustic Panelized Ceiling

Square Supply Diffuser

Wall Mounted Fire Alarm

Pendent on Drop Ceiling

Smoke Detector

Roller Shades

Circular Accoustic Canopy

1. Existing
2. Addition

Notes - General Ceiling Plan

RCP - Graphic Key

- Acoustical Ceiling Tile - 2 x 2
- Gypsum Ceiling
- Accoustic Panelized Ceiling
- Square Supply Diffuser
- Wall Mounted Fire Alarm
- Pendent on Drop Ceiling
- Smoke Detector
- Roller Shades
- Circular Accoustic Canopy

Level 2 Reflected Ceiling Plan
Notes - General Exterior Elevation

1. Replace All Existing Upper, Lower, and Fixed Window Sashes with Matching Wood Window Sashes with New Sealant
2. Synthetic Slate Roof, Match Existing Coursing, Types At All Existing Roofs
3. Mason Re-Point All Cracked or Deteriorated Masonry and Mortar. Tooth In All New or Replacement Masonry.
4. Waterproofer To Remove 100% of Existing Sealant at the Perimeter of All Masonry Openings and Replace
5. Perform A Final Exterior Masonry Wash-Down After All Masonry Restoration Work is Complete.
6. Remove Soiling from 100% of Brick and Stone Masonry Using Specified Method of Low-Pressure Water
7. Re-Poining of Fieldstone Walls
8. Take Salvaged Bricks From On-Site Stockpile, Clean Brick, and Re-Install
9. Roof Level (N)
10. Roof Level (E)

Notes - Exterior Elevation

1. Exterior Elevation - South
2. Exterior Elevation - North
Notes - General Exterior Elevation
1. GE1 Remove All Exterior Signs, Hangers, Fasteners, Supports, Anchors, Pipes, and Miscellaneous Fittings.
2. GE2 Restore Or Replace All Exterior Wood Trim, Match Existing Species, Profiles, and Finish. Assume 50%
3. GE3 Mason Re-Point All Cracked Or Deteriorated Masonry And Mortar. Tooth In All New Or Replacement Masonry.
4. GE4 Brick Infill At Existing Openings. Tooth In Brick At Opening Edges. Use Existing Brick Salvaged From
5. GE5 Replace Any Damaged Trim, Masonry, Or Other Surfaces Having Holes Or Losses Resulting From Removal Of
7. GE7 Waterproofer To Remove 100% Of Existing Sealant At The Perimeter Of All Masonry Openings And Replace
8. GE8 Replace All Existing Upper, Lower, And Fixed Window Sashes With Matching Wood Window Sashes With
9. GE9 All Flashing, Gutters, Downspouts, And Snow Hooks On The Existing Building Are Copper. All Flashing,
10. GE10 Replace All Existing Flashing, Gutters, Downspouts, And Snow Hooks
11. GE11 Refer To A603 For Exterior Glazing Types And Schedules
12. Notes - Exterior Elevation
13. Notes - General Exterior Elevation
18 Lobby 115 - West Elev.
17 Lobby 115 - East Elev.
16 Adult Fiction 108 - South Elev.
15 Adult Fiction 108 - East Elev.
14 Adult Fiction 108 - North Elev.
13 Adult Fiction 108 - West Elev.
12 Head of Collections 110 - North Elev.
11 Head of Collections 110 - West Elev.
10 Head of Collections 110 - South Elev.
9 Head of Collections 110 - East Elev.
8 Quiet/Group Study Rm. 111 - South Elev.
7 Quiet/Group Study Rm. 111 - East Elev.
6 Quiet/Group Study Rm. 111 - North Elev.
5 Quiet/Group Study Rm. 111 - West Elev.
4 Quiet/Group Study Rm. 112 - South Elev.
3 Quiet/Group Study Rm. 112 - East Elev.
2 Quiet/Group Study Rm. 112 - North Elev.
1 Quiet/Group Study Rm. 112 - West Elev.
Overall Stair Width 8'-0" 1'-0"

9 Eq. T @ 11" Ea.

8'-2"

2 Eq. T @ 11" Ea.

1'-10"

9'-2"

1' - 10"

10 Eq. T @ 11" Ea.

9' - 3"

6 Eq. T @ 11" Ea.

5' - 6"

8'-0"

1' - 6"

4' - 0"

8'-0"

1' - 6"

4' - 0"

6 Eq. T @ 11" Ea.

5' - 0"

6"
Notes - General Bathroom

1. All inlets to supply all required services and connections, including plumbing, to be provided by others.
2. All plumbing fixtures, valves, and other equipment shall be located in accordance with local codes and regulations.
3. All plumbing systems shall be designed and installed in accordance with the latest edition of the International Plumbing Code.
4. All plumbing systems shall be tested for leakage and pressure according to the requirements of the International Plumbing Code.
5. All plumbing systems shall be inspected and approved by the appropriate authority having jurisdiction.
6. All plumbing systems shall be maintained and repaired as required to ensure compliance with the International Plumbing Code.

Notes - Accessory Schedule & Mounting Heights

1. All accessories and mounting heights shall be installed in accordance with the manufacturer's instructions.
2. All accessories and mounting heights shall be tested for strength and durability according to the manufacturer's specifications.
3. All accessories and mounting heights shall be inspected and approved by the appropriate authority having jurisdiction.
4. All accessories and mounting heights shall be maintained and repaired as required to ensure compliance with the International Plumbing Code.
Wall Base As Sched.

Flooring As Sched.

1-1/2" P.Lam Apron

3/4" Plywood

Con. Shim Blocking

Pre-Finished Heavy Duty Brackets, See Interior Elevs. For Spacing - Typ.

Cont. Primed 3x2x1/2 Stl. Angle Counter Support

Provide Cont. In-Wall FRT Blocking For Counter Supports - Typ.

Provide Grommets & Wire Mgmt. Tray

P-Lam Counter and 4" High Backsplash

Reference Elevation 5C

A506

5C

12' - 4"

A506

5B

4"

1' - 6"

A506

1' - 9"

A506

14" 4"

100.00°

3"

A506

5/8" Plywood, Typ.

Wood Finish and Stain to Match Existing Millwork, Typ.

Continuous Blocking, Typ.

Vertical Plywood Support, 18" O.C

3'-6" O.C. Max.

30" Counter Height

6' - 8"

A506

6' - 8"

2' - 1"

4' - 0"

A506

2' - 1"

4' - 0"

34" Counter Height

3' - 6" O.C. Max.

6
<table>
<thead>
<tr>
<th>Interior Storefront</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>1/4&quot; = 1'-0&quot;</td>
</tr>
<tr>
<td>B</td>
<td>2' - 6&quot;</td>
</tr>
<tr>
<td>C</td>
<td>3' - 6&quot;</td>
</tr>
<tr>
<td>D</td>
<td>4' - 2&quot;</td>
</tr>
<tr>
<td>E</td>
<td>7' - 0&quot;</td>
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<tr>
<td>F</td>
<td>9' - 0&quot;</td>
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<td>G</td>
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<td>H</td>
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<tr>
<td>I</td>
<td>7' - 0&quot;</td>
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<td>J</td>
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<td>T</td>
<td>7' - 0&quot;</td>
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<td>U</td>
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<td>V</td>
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<tr>
<td>X</td>
<td>7' - 0&quot;</td>
</tr>
<tr>
<td>Y</td>
<td>9' - 0&quot;</td>
</tr>
<tr>
<td>Z</td>
<td>3' - 0&quot;</td>
</tr>
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**Key Plan:**
- 1/4" = 1'-0"

**Drawings:**
- A604

**Project Information:**
- Finegold Alexander Architects
- Acoustical Consultant: Acentech
- Code Consultant: Hastings Consulting, Inc.
- Interior Design: Berkshire Design Group
- Landscape Architect/Civil Engineer: BLW Engineers, Inc.
- MEP FP Engineer: RSE Associates, Inc.
- Structural Engineer: RSE Associates, Inc.
- Specifications Consultant: Finegold Alexander Architects
- OWNER: Cambridge, MA 02138
- (617) 499-8000
- 33 Moulton Street
- 311 Great Road
- BLW Engineers, Inc.
- 63 Pleasant Street, Suite 200
- RSE Associates, Inc.
- Waterford, MA 01746
- (781) 639-8339
- www.hastings-consulting.com
- www.stefura.com
- www.berkshiredesign.com
- www.blwengineers.com

**Project Status:**
- PRELIMINARY CONSTRUCTION
- 100% Design Development
- May 3, 2023
### General Finish Notes

1. All C0080 in public facing areas to be Level 3 Finish.
2. For use in J.A.C.
### Schedule - Signage

<table>
<thead>
<tr>
<th>Area</th>
<th>Sign</th>
<th>Font Style</th>
<th>Letter Size</th>
<th>Material</th>
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<tr>
<td>STAIR 1</td>
<td>Staff Room Sign</td>
<td>3/4&quot; Whitney</td>
<td>5/8&quot;</td>
<td>Acrylic with Raised</td>
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<tr>
<td></td>
<td></td>
<td>Semibold</td>
<td>Letters</td>
<td>Letters</td>
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<tr>
<td></td>
<td>Typical Restroom Sign</td>
<td>5/8&quot; Whitney</td>
<td>3/4&quot;</td>
<td>Acrylic with Raised</td>
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<tr>
<td></td>
<td></td>
<td>Semibold</td>
<td>Letters</td>
<td>Letters</td>
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<tr>
<td></td>
<td>Exterior Door Mounted</td>
<td>3/8&quot; Whitney</td>
<td>5/8&quot;</td>
<td>Acrylic with Raised</td>
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<tr>
<td></td>
<td>Mechanical Room Sign</td>
<td>Semibold</td>
<td>Letters</td>
<td>Letters</td>
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<tr>
<td></td>
<td>Typical Room Sign</td>
<td>3/8&quot; Whitney</td>
<td>3/4&quot;</td>
<td>Acrylic with Raised</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Semibold</td>
<td>Letters</td>
<td>Letters</td>
</tr>
<tr>
<td></td>
<td>STAFF ROOM</td>
<td>3/16&quot; Acrylic</td>
<td>1/32&quot;</td>
<td>Raised Letters</td>
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<tr>
<td></td>
<td></td>
<td>Thickness</td>
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</tbody>
</table>

### Notes:

- Signage to be installed on latch side
- Inclusive Restroom
- Staff WC
- Main Entrance
- Corridor
- Elev. Control Room
- Elev.
- Inclusive Restroom
- Elev. Control Room
- Elev.
- Corridor
1. Pendant and upright sprinkler heads shall be quick response, brass/chrome finish, 2" orifice, 5.6K factor.

2. Temperature ratings of the sprinkler heads shall be in accordance with NFPA-13.

3. All new sprinkler heads, piping and fittings shall be UL listed and FM approved, and shall be rated at 175 PSI working pressure. Sprinkler heads shall be by Viking, Tyco, Reliable, or approved equal.

4. All above ground piping 1-inch shall be Schedule 40 black steel with threaded fittings. All above ground piping larger than 1-inch shall be Schedule 10 or 40 black steel with grooved or threaded fittings. All dry piping shall be Schedule 10 or 40 hot dipped galvanized with galvanized fittings. CPVC tube and fittings are approved for use in light hazard areas per manufacturer’s specifications.

5. The contractor shall be responsible for cutting and patching all ceilings and walls as required for installation of sprinkler systems. All ceilings and walls shall be patched to the owner’s satisfaction.

6. All hangers shall be supported from the building structure. All hangers and rods shall be hot dipped galvanized. Band type hangers shall be used for sizes 3-inch and smaller. Clevis type hangers shall be used for pipe sizes 4-inch and larger. Rods sizes shall conform to NFPA-13 requirements.

7. All sprinkler work shall be tested in accordance with NFPA 13 latest accepted edition. The test shall be witnessed by the local fire department, the owner representative, the owner’s insurance authority. The contractor shall provide the equipment, coordination and notification of all applicable authorities for the sprinkler piping test.

8. All fire protection systems and equipment shall be by Viking, Grinnell or Victaulic.

9. All watertight sleeves, and fire rated sleeves shall be by Linkseal. All sleeves shall be galvanized steel for outdoor or underground applications, and black steel for indoor applications.

10. All sprinkler systems shall be designed, installed in accordance with NFPA-13 latest accepted edition.

All sprinkler heads shall be located in the center of the ceiling tiles where tiles are used. Coordinate with architectural plans, for all ceiling types and conditions, and other trades.

The flow test data listed shall not be used by the sprinkler contractor and the sprinkler contractor shall perform a new hydrant flow test to obtain current flow and pressure data. The sprinkler contractor shall use his newly obtained flow and pressure data to perform his hydraulic calculations for the sprinkler systems design. The hydrant flow test shall be performed in accordance with NFPA-13. The sprinkler contractor shall provide all labor, materials, equipment, pay all fees and perform all coordination with the local water authorities in order to perform the hydrant flow test.
MAKE 1" CONNECTION TO 1" BRANCH TEE OUTLET BRANCH LINE. SEE PLANS FOR SIZES.

1" RISER NIPPLE. PROVIDE SUPPORT ATTACHED TO BUILDING STRUCTURE IF LENGTH EXCEED 2'-0".


CEILING UPRIGHT SPRINKLER 1" OUTLET TEE FITTING.
1" OUTLET TEE FITTING SHALL NOT BE ALLOWED.

HEAVY DUTY UNDERGROUND PIPE WITH O-RING GASKET.

TIE RODS, DRESSER COUPLING SHALL BE RESTRAINED W/ GRIP-TYPE FLANGES AND RODS.
MECHANICAL JOINT RESTRAINT SHALL BE EQUAL TO EBAA IRON MEGALUG SERIES.

NOTES:
1. INCOMING WATER SERVICE INSTALLATION SHALL CONFORM TO ALL LOCAL & STATE REGULATIONS.
2. COORDINATE LOCATION WITH LOCAL WATER AUTHORITY AND SITE UTILITIES PLAN.

UNDERGROUND FIRE PROTECTION MAIN SHALL BE PROVIDED WITH RETAINER FLANGES AND TIE RODS SUPPORTS, IN ACCORDANCE WITH NFPA-24.

6" FIRE PROTECTION MAIN THRU FLOOR. PROVIDE WATER TIGHT SEAL.
6" RETAINER FLANGE WITH TIE ROD SUPPORTS, PER NFPA-24.

GALVANIZED PIPE SUPPORT, SECURED TO FLOOR.

6" DOUBLE CHECK VALVE ASSEMBLY
6" OS&Y VALVE WITH TAMPER SWITCH (TYP.)

FLOOR 6" BUTTERFLY VALVE WITH TAMPER SWITCH

4" CHECK VALVE PIPE TO 4" FIRE DEPARTMENT CONNECTION, OUTSIDE.

AND ON BOTH SIDES OF FLOOR SLAB TYPICAL FLEXIBLE COUPLINGS ON EACH FLOOR

VANE TYPE FLOW SWITCH PRESSURE GAUGE CHECK VALVE

SPRINKLER MAIN TO FLOOR ZONE SPRINKLERS SEE PLANS FOR SIZES AND LOCATIONS

TYPICAL STAIR LANDING 6" SPRINKLER RISER
2" SPRINKLER DRAIN RISER BUTTERFLY VALVE WITH TAMPER SWITCH AT EVERY FLOOR

TYPICAL FIRE RATED SLEEVE WITH DRAIN/TEST VALVE, SIGHT GLASS AND 1/2" COMBINATION INSPECTORS TEST & DRAIN ASSEMBLY

CORROSION RESISTANT ORIFICE EXPOSED IN STAIR THRU WALL SECTION WALL OR FLOOR

NOTE:
1. INSTALL LINK-SEAL ON BOTH ENDS OF THE CORE DRILLED OPENING.

FRONT THRU FLOOR SECTION

PIPe BOLT (TYP.) LINK-SEAL LINK (TYP.)

PRESSURE RELIEF VALVE
DEMOLITION NOTES:

1. EXISTING SPRINKLERS, PIPING, HANGERS AND HARDWARE TO BE REMOVED.
2. EXISTING RISER, VALVES, PRE-ACTION SYSTEM AND COMPONENTS TO BE REMOVED BACK TO THE POINT OF ENTRY INTO THE BUILDING.
LEVEL 1 - DEMOLITION

EXISTING SPRINKLERS, PIPING, HANGERS AND HARDWARE TO BE REMOVED.

EXISTING FIRE DEPT. CONNECTION, ELECTRIC BELL, WATER MOTOR GONG TO BE REMOVED.
Level 2 - Demolition

EXISTING SPRINKLERS, PIPING, HANGERS AND HARDWARE TO BE REMOVED.

DATE NO.

PROJECT TEAM:

SHEET #:

PROJECT STATUS:

PROJECT ISSUE DATE:

KEY PLAN:

DRAWING HISTORY:

OWNER:

RSE Associates, Inc.

BLW Engineers, Inc.

Jones Library - Design Development

FPD103
EXISTING SPRINKLERS, PIPING, HANGERS AND HARDWARE TO BE REMOVED.
PLUMBING CONTRACTOR SHALL RECOGNIZE THAT THE BUILDING MIGHT REMAIN OCCUPIED THROUGHOUT WORKING ON EXISTING SYSTEMS.

PLUMBING CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER/OWNER ON SHUTDOWN TIME WHEN

ALL EXISTING PLUMBING PIPING TO BE REMOVED SHALL BE CAPPED AT A POINT NEAREST ACTIVE MAIN, OR

not For

Preliminary

ALL ITEMS TO BE RE-USED SHALL BE CAREFULLY REMOVED FREE OF DAMAGE AND STORED IN A SECURE

2.

PRIOR TO COMMENCING DEMOLITION WORK. ALL WORK SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF

1.

MASSACHUSETTS BUILDING CODE, AND HEALTH REGULATIONS AND BE PERFORMED IN SUCH A MANNER AS

FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS AND THEIR RELATION TO THE NEW WORK AND

PROPOSED, SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING. FAILURE OF THE CONTRACTOR TO

THE FIELD. ALL POINTS OF CONNECTION TO EXISTING SYSTEMS SHALL BE DETERMINED IN THE FIELD BY

PLUMBING CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS UPON COMPLETION OF THE PROJECT.
NOTES: REMOVAL SHALL INCLUDE, BUT NOT LIMITED TO, FITTINGS, VALVES, SUPPORTS, INSULATION & ACCESSORIES. PIPING SHALL BE SAFELY DISCONNECTED FROM EQUIPMENT/FIXTURE, PRIOR TO REMOVAL.

1. ALL EXISTING PIPING SHALL BE FIELD VERIFIED.
2. PLUMBING FIXTURE SHALL BE SAFELY DISCONNECTED FROM UTILITY PIPING PRIOR TO REMOVAL. REMOVAL SHALL BE COORDINATED WITH OTHER TRADES, WHERE REQUIRED.
3. PLUMBING CONTRACTOR SHALL COMPLETE ALL REQUIRED DEMOLITION WORK IN ORDER TO ACCOMMODATE NEW ARCHITECTURAL LAYOUT.
4. PLUMBING DEMOLITION SCOPE OF WORK SHALL BE COORDINATED WITH ARCHITECTURAL PLANS.
5. EXISTING WASTE PIPING SHALL BE RODDED, FLUSHED AND CLEANED TO ACHIEVE FULL FLOW, PRIOR TO CONNECTION TO NEW WASTE PIPING.
6. PIPING TO BE REMOVED SHALL BE REMOVED ENTIRELY AND CAPPED AT NEAREST ACTIVE PIPING MAIN.
7. REMOVE AND REPLACE ALL BALANCING VALVE STATIONS.
COMPLETED DEMOLITION WORK TO ACCOMMODATE NEW ARCHITECTURAL LAYOUT.

NOTES:
- REMOVAL SHALL INCLUDE, BUT NOT LIMITED TO, FITTINGS, VALVES, SUPPORTS, INSULATION & ACCESSORIES. PIPING SHALL BE SAFELY DISCONNECTED FROM EQUIPMENT/FIXTURE, PRIOR TO REMOVAL.
- ALL EXISTING PIPING SHALL BE FIELD VERIFIED.
- PLUMBING FIXTURES SHALL BE SAFELY DISCONNECTED FROM UTILITY PIPING PRIOR TO REMOVAL. REMOVAL SHALL BE COORDINATED WITH OTHER TRADES, WHERE REQUIRED.
- PLUMBING CONTRACTOR SHALL COMPLETE ALL REQUIRED DEMOLITION WORK IN ORDER TO ACCOMMODATE NEW ARCHITECTURAL LAYOUT.
- PLUMBING DEMOLITION SCOPE OF WORK SHALL BE COORDINATED WITH ARCHITECTURAL PLANS.
- EXISTING WASTE PIPING SHALL BE RODDED, FLUSHED AND CLEANED TO ACHIEVE FULL FLOW, PRIOR TO CONNECTION TO NEW WASTE PIPING.
- PIPING TO BE REMOVED SHALL BE REMOVED ENTIRELY AND CAPPED AT NEAREST ACTIVE PIPING MAIN.
- REMOVE AND REPLACE ALL BALANCING VALVE STATIONS.

PROJECT #:

DRAWING DEMOLITION KEYNOTES

TAG NO.

DESCRIPTION

REMOVE EX. LAVATORY, HB, ACCESSORIES & ASSOCIATED CW, HW, SAN & V PIPING IN ITS ENTIRETY. CAP PIPING AT WALL FOR FUTURE CONNECTION.

REMOVE EX. W.C., ACCESSORIES & ASSOCIATED CW, SAN & V PIPING IN ITS ENTIRETY. CAP PIPING AT WALL FOR FUTURE CONNECTION.

REMOVE EX. SINK, ACCESSORIES & ASSOCIATED CW, HW, SAN & V PIPING IN ITS ENTIRETY. CAP PIPING AT WALL FOR FUTURE CONNECTION.

REMOVE EX. UR., ACCESSORIES & ASSOCIATED CW, SAN & V PIPING IN ITS ENTIRETY. ALL PIPING SHALL BE REMOVED ENTIRELY AND CAPPED AT NEAREST ACTIVE MAIN.

REMOVE EX. WATER HEATER AND RELATED ACCESSORIES LOCATED ABOVE CEILING. CAP PIPING FOR FUTURE CONNECTION.

REMOVE EX. FD AND ASSOCIATED PIPING.

REMOVE EX. JANITOR SINK, ACCESSORIES & ASSOCIATED CW, HW, SAN & V PIPING IN ITS ENTIRETY. CAP PIPING AT WALL FOR FUTURE CONNECTION.

REMOVE EX. SHOWER, ACCESSORIES & ASSOCIATED CW, HW, SAN & V PIPING IN ITS ENTIRETY. CAP PIPING AT WALL FOR FUTURE CONNECTION.
Third Floor - Demolition

STAIR
BE
H
J
K
M
P
S
V
X
BB
CC
DD
EE
FF
GG

SCALE: 1/8"=1'-0"
4"VTR. V SHALL RUN THRU ATTIC, PRIOR TO ROOF PENETRATION. PROVIDE SUPPORT, AS REQUIRED.

1. LOCATION OF ALL ROOF DRAINS SHALL BE COORDINATED W/ ARCHITECTURAL PLANS.
2. VTR SHALL BE LOCATED MINIMUM 25'-0" FROM FRESH AIR INTAKE, OR AS CLOSE AS 10'-0" AND 2'-0" ABOVE FRESH AIR INTAKE.
3. PROVIDE BACKWATER VALVE ON ROOF DRAINS' OUTLETS SERVICING LOWER ROOF AREAS.
### PIPE SCHEDULE

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Location</th>
<th>Capacity</th>
<th>Voltage</th>
<th>Phase</th>
<th>Hz</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>GIANT VCC-20ULS</td>
<td>(AS STANDARD)</td>
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<tr>
<td>TERM-1 ALUX-1200</td>
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### AIR FILTER SCHEDULE

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<th>Voltage</th>
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<th>Hz</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>TERM-1 ALUX-1200</td>
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### DUCT INSULATION TABLE

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<tr>
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<th>Phase</th>
<th>Hz</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>TERM-1 ALUX-1200</td>
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### DUCTLESS SPLIT AIR CONDITIONING SCHEDULE

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<th>Hz</th>
<th>Remarks</th>
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### ELECTRIC UNIT HEATER SCHEDULE

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<th>Hz</th>
<th>Remarks</th>
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<tr>
<td>TERM-1 ALUX-1200</td>
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</tr>
</tbody>
</table>

### ELECTRIC SCHEDULE

<table>
<thead>
<tr>
<th>Model No.</th>
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<th>Voltage</th>
<th>Phase</th>
<th>Hz</th>
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</tr>
</thead>
<tbody>
<tr>
<td>TERM-1 ALUX-1200</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

### ROOFTOP ENERGY RECOVERY VENTILATOR SCHEDULE

<table>
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<tr>
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### HVAC POWER EQUIPMENT SCHEDULE

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### ELECTRIC CAPACITY AIR DATA

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<thead>
<tr>
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</table>
### VRF Fan Coil Unit Schedule

**Garden Level**

<table>
<thead>
<tr>
<th>Tag No.</th>
<th>LOCATION(S)</th>
<th>MODEL No.</th>
<th>TYPE</th>
<th>INPUT</th>
<th>HP</th>
<th>SPEED</th>
<th>BTU/H</th>
<th>EER</th>
<th>SEER</th>
<th>SHARE</th>
<th>MODEL No.</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>FC-16-1</td>
<td>DAIKIN</td>
<td>FXSQ-48</td>
<td>--CEILING CONCEALED</td>
<td>1/2</td>
<td>12</td>
<td>208 1</td>
<td>15</td>
<td>1,600</td>
<td>2.8</td>
<td>34</td>
<td>R410A</td>
<td>--CEILING CONCEALED</td>
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**Level 1**

<table>
<thead>
<tr>
<th>Tag No.</th>
<th>LOCATION(S)</th>
<th>MODEL No.</th>
<th>TYPE</th>
<th>INPUT</th>
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<th>SPEED</th>
<th>BTU/H</th>
<th>EER</th>
<th>SEER</th>
<th>SHARE</th>
<th>MODEL No.</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>FC-11-G</td>
<td>DAIKIN 54</td>
<td>FXSQ-18</td>
<td>--CEILING CONCEALED</td>
<td>1/2</td>
<td>12</td>
<td>208 1</td>
<td>15</td>
<td>1,200</td>
<td>20</td>
<td>34</td>
<td>R410A</td>
<td>--CEILING CONCEALED</td>
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<tr>
<td>FC-12-G</td>
<td>DAIKIN 48</td>
<td>FXSQ-24</td>
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<td>12</td>
<td>208 1</td>
<td>15</td>
<td>800</td>
<td>1.4</td>
<td>16.7</td>
<td>R410A</td>
<td>--CEILING CONCEALED</td>
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<tr>
<td>FC-13-G</td>
<td>DAIKIN 20</td>
<td>FXSQ-05</td>
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<td>208 1</td>
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<td>280</td>
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<td>--CEILING CONCEALED</td>
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<tr>
<td>FC-14-G</td>
<td>DAIKIN 15</td>
<td>FXSQ-09</td>
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<td>208 1</td>
<td>15</td>
<td>320</td>
<td>0.6</td>
<td>6.8</td>
<td>R410A</td>
<td>--CEILING CONCEALED</td>
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**Level 2**

<table>
<thead>
<tr>
<th>Tag No.</th>
<th>LOCATION(S)</th>
<th>MODEL No.</th>
<th>TYPE</th>
<th>INPUT</th>
<th>HP</th>
<th>SPEED</th>
<th>BTU/H</th>
<th>EER</th>
<th>SEER</th>
<th>SHARE</th>
<th>MODEL No.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FC-15-G</td>
<td>DAIKIN 0.2</td>
<td>FXSQ-12</td>
<td>--CEILING CONCEALED</td>
<td>1/2</td>
<td>12</td>
<td>208 1</td>
<td>15</td>
<td>400</td>
<td>0.7</td>
<td>9.4</td>
<td>R410A</td>
<td>--CEILING CONCEALED</td>
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</table>

**Level 3**

<table>
<thead>
<tr>
<th>Tag No.</th>
<th>LOCATION(S)</th>
<th>MODEL No.</th>
<th>TYPE</th>
<th>INPUT</th>
<th>HP</th>
<th>SPEED</th>
<th>BTU/H</th>
<th>EER</th>
<th>SEER</th>
<th>SHARE</th>
<th>MODEL No.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FC-16-G</td>
<td>DAIKIN 0.2</td>
<td>FXSQ-18</td>
<td>--CEILING CONCEALED</td>
<td>1/2</td>
<td>12</td>
<td>208 1</td>
<td>15</td>
<td>600</td>
<td>1.3</td>
<td>13.9</td>
<td>R410A</td>
<td>--CEILING CONCEALED</td>
</tr>
<tr>
<td>FC-17-G</td>
<td>DAIKIN 0.2</td>
<td>FXSQ-30</td>
<td>--CEILING CONCEALED</td>
<td>1/2</td>
<td>12</td>
<td>208 1</td>
<td>15</td>
<td>1,000</td>
<td>1.5</td>
<td>22</td>
<td>R410A</td>
<td>--CEILING CONCEALED</td>
</tr>
</tbody>
</table>

**Remarks**

- All in-door fan coils based on cooling: EAT: 80°F DB/67°F WB; LAT: 55°F DB/55°F WB. Heating: 70°F EAT; 90°F LAT.
1. **Roof Fan Detail**
   - Use fasteners 12" O.C.
   - Connect with sheetmetal screws and seal.
   - Provide additional roof flashings.
   - Top 1/4" galvanized insect screen.
   - Secure to roof with (2) S.S. bolts & nuts.
   - Min. 3" wide S.S. band clamp.
   - Min. 2" into wood nailer on new supply duct.
   - Insulation to be installed with a pitch to avoid collection of water/snow.

2. **Gooseneck Detail**
   - Connect with sheetmetal screws and seal.
   - Provide additional roof flashings.
   - Top 1/4" galvanized insect screen.
   - Secure to roof with (2) S.S. bolts & nuts.
   - Min. 3" wide S.S. band clamp.
   - Min. 2" into wood nailer on new supply duct.
   - Insulation to be installed with a pitch to avoid collection of water/snow.

3. **Plenum at Louver Detail**
   - Connect with sheetmetal screws and seal.
   - Provide additional roof flashings.
   - Top 1/4" galvanized insect screen.
   - Secure to roof with (2) S.S. bolts & nuts.
   - Min. 3" wide S.S. band clamp.
   - Min. 2" into wood nailer on new supply duct.
   - Insulation to be installed with a pitch to avoid collection of water/snow.

4. **Transfer Duct Detail**
   - Connect with sheetmetal screws and seal.
   - Provide additional roof flashings.
   - Top 1/4" galvanized insect screen.
   - Secure to roof with (2) S.S. bolts & nuts.
   - Min. 3" wide S.S. band clamp.
   - Min. 2" into wood nailer on new supply duct.
   - Insulation to be installed with a pitch to avoid collection of water/snow.

5. **Inline Ceiling Exhaust Detail**
   - Connect with sheetmetal screws and seal.
   - Provide additional roof flashings.
   - Top 1/4" galvanized insect screen.
   - Secure to roof with (2) S.S. bolts & nuts.
   - Min. 3" wide S.S. band clamp.
   - Min. 2" into wood nailer on new supply duct.
   - Insulation to be installed with a pitch to avoid collection of water/snow.

6. **Equipment Support Detail**
   - Connect with sheetmetal screws and seal.
   - Provide additional roof flashings.
   - Top 1/4" galvanized insect screen.
   - Secure to roof with (2) S.S. bolts & nuts.
   - Min. 3" wide S.S. band clamp.
   - Min. 2" into wood nailer on new supply duct.
   - Insulation to be installed with a pitch to avoid collection of water/snow.

7. **Duct Roof Penetration Detail**
   - Connect with sheetmetal screws and seal.
   - Provide additional roof flashings.
   - Top 1/4" galvanized insect screen.
   - Secure to roof with (2) S.S. bolts & nuts.
   - Min. 3" wide S.S. band clamp.
   - Min. 2" into wood nailer on new supply duct.
   - Insulation to be installed with a pitch to avoid collection of water/snow.

8. **Roof Ductwork Support/Insulation Detail**
   - Connect with sheetmetal screws and seal.
   - Provide additional roof flashings.
   - Top 1/4" galvanized insect screen.
   - Secure to roof with (2) S.S. bolts & nuts.
   - Min. 3" wide S.S. band clamp.
   - Min. 2" into wood nailer on new supply duct.
   - Insulation to be installed with a pitch to avoid collection of water/snow.
CONTROLLER AND THE BUILDING MANAGEMENT SYSTEM. THE SEQUENCE LISTED BELOW SHALL BE REVERSIBLE.

UPON SENSING A HIGH LIMIT SPACE TEMPERATURE (ADJUSTABLE) OR A LOW LIMIT SPACE TEMPERATURE, THE UNIT'S SUPPLY FAN SHALL BE ENERGIZED AND OPERATE CONTINUOUSLY. THE UNIT SHALL OPERATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT 75°F (ADJUSTABLE).

A DUCT MOUNTED PRESSURE SENSOR, LOCATED IN THE SUPPLY AIR DUCTWORK, SHALL MODULATE THE SPEED OF THE SUPPLY THROUGH THE VARIABLE FREQUENCY DRIVE (VFD) TO MAINTAIN A CONSTANT SUPPLY AIR DUCT STATIC PRESSURE SETTING. THE EXHAUST FAN SPEED SHALL BE MODULATED THROUGH THE ECM MOTOR TO MAINTAIN THE PROPORTIONAL AIR FLOW OF THE SUPPLY FAN.

DEFROST CONTROL SHALL BE PROVIDED THROUGH THE UNIT'S CONTROLS. DEFROST CONTROL - THE ENERGY WHEEL VFD SPEED SHALL DECREASE IF THE EXHAUST AIR TEMPERATURE (DOWNSTREAM OF THE EXHAUST HEAT WHEEL) IS LESS THAN 40 DEGREES. IF THE HEAT WHEEL VFD IS AT MINIMUM SPEED AND THE EXHAUST TEMPERATURE IS STILL AT OR BELOW 40 DEGREES THE BYPASS DAMPERS SHALL MODULATE OPEN TO BYPASS THE HEAT WHEEL.

THE FOLLOWING "LOW TEMPERATURE" SEQUENCE WHICH SHALL LAST FOR 15 MINUTES:

THE UNIT'S SUPPLY FAN SHALL BE DE-ENERGIZED; COOLING SHALL BE LOCKED OUT. HEATING SHALL OPERATE TO MAINTAIN THE SPACE AIR TEMPERATURE. WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 25 DEGREES, THE UNIT SHALL STARTUP IN THE 100 PERCENT CLOSED POSITION; AND THE VAV MOTOR OPERATED DAMPERS SHALL BE CLOSED.

THE ENERGY RECOVERY UNIT SUPPLY AND RETURN FANS SHALL BE DE-ENERGIZED; THE OUTDOOR AIR AND EXHAUST AIR DAMPERS SHALL BE STILL AT OR BELOW 40 DEGREES THE BYPASS DAMPERS SHALL MODULATE OPEN TO BYPASS THE HEAT WHEEL.

IF THE EXHAUST AIR ENTHALPY IS HIGHER THAN THE OUTDOOR TEMPERATURE, UPON A CALL FOR COOLING, THE ENERGY RECOVERY WHEEL SHALL BE ENERGIZED AND OPERATE CONTINUOUSLY.

THE ENERGY RECOVERY UNIT SHALL BE CONTROLLED THROUGH THE BMS SYSTEM PER THE FOLLOWING SCHEDULE. THE SEQUENCE LISTED BELOW SHALL BE REVERSIBLE.

THE UNIT'S SUPPLY FAN SHALL BE ENERGIZED AND OPERATE CONTINUOUSLY. FOR  HEATING FROM THE SPACE TEMPERATURE SENSOR, HEATING OPERATION SHALL ENERGIZE TO MAINTAIN THE SPACE AIR TEMPERATURE SETPOINT OF 55°F (ADJUSTABLE). FOR  COOLING FROM THE THERMOSTAT, COOLING OPERATION SHALL ENERGIZE TO MAINTAIN THE SPACE

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HD102

PROJECT INFORMATION:

DEMO & REMOVE EXISTING FAN COILS,

DEMO & REMOVE EXHAUST FAN,

DUCTWORK AND CONTROLS

CONTROLS (TYPICAL)

www.stefura.com

77 N. Washington Street

(617) 723-5164

www.berkshiredesign.com

4 Allen Place

Landscape Architect/Civil Engineer

www.rseassociates.com

63 Pleasant Street, Suite 200

RSE Associates, Inc.

Structural Engineer

Watertown, MA 02472

Owner:

Architects

Finegold Alexander

Jones Library - Design Development

15 Lake Street

Watertown, MA 02472

11/1/2002

HD102

Berkshire Design Group

MEP FP Engineer

6 Lake Street

Lansing, MA 02442

617-668-3000

HD102

DEMO & REMOVE EXISTING FINNED

DIFFUSERS AND REGISTERS TO BE

LEVEL 3 DEMOLITION

DRAWING HISTORY:

ALL HWS,R, CHWS,R, & DTWS,R PIPING

1/8"=1'-0"

100% DD

PROJECT #:

Amherst, MA 01002

43 Amity Street
Level 3 Demolition

- 6" Ø UP & DN
- HWS & HWR DN & UP
- (E) TOILET EXH
- ROOF VENT

Level 4 Demolition

- 20"x12" EXH. DN
- 6" Ø CHWS & CHWR DN
- 6" Ø HWS & HWR DN
- (E) AC
- (E) HC
- (E) RR
- DUCTWORK, DIFFUSERS AND REGISTERS TO BE REMOVED
- DEMO & REMOVE EXISTING HEATING COIL, PIPING AND CONTROLS

DEMO & REMOVE EXISTING EXHAUST SYSTEM
LOUVER TO REMAIN. BLANK OFF WITH INSULATED SHEET METAL

ALL HWS,R, CHWS,R, & DTWS,R PIPING TO BE DEMOLISHED AND REMOVED (TYPICAL)
NOTES:

1. MAIN LEVEL
   - LIGHT POLE ANGLED (NOTE 2)
   - FOOTING 12" DIA. (MIN.) CONC.
   - FORM 6" RIGID GALV. STL. PIPE OR STEEL CONDUIT (NOTE 3)
   - COMPACTED SAND (NOTE 4)
   - PRECAST PAD
   - FINISHED GRADE 10' TO BE REMOVED
   - GROUND GRID, #1/0 CENTER 24" MIN
   - METALLIC CORE WARNING TAPE, FULL LENGTH OF DUCT BANK TO READ 24" MIN
   - VEHICLE POSTS (BOLLARDS) SHALL BE 4" GALVANIZED STEEL PIPE MINIMUM, FILLED WITH 6" RIGID GALV. STL. PIPE OR STEEL CONDUIT (NOTE 2)

2. LOWER LEVEL
   - PAINTED STEEL PIPE
   - 108"
   - 54" (NOTE 1)
   - 21" (NOTE 3)
   - 9' - 0" MIN. (NOTE 5)
   - 12" DIA. (MIN.) CONC. (NOTE 3)
   - 4" PVC CONDUIT FOR COMM SERVICE
   - GROUNDING LUG
   - ANCHOR BOLTS AND BOLT CIRCLE
   - SHIELD DV CONCRETE SHIELD DV CONCRETE SHIELD DV CONCRETE
   - GROUNDING BUSHINGS PER NATIONAL ELECTRICAL CODE
   - PROVIDE GROUNDING BUSHINGS PER NATIONAL ELECTRICAL CODE
   - GROUNDING BUSHINGS PER NATIONAL ELECTRICAL CODE

3. EXCAVATION, SANDBED
   - APPROXIMATE LOCATION OF MAIN SANDBED 120/208V FOR PORTABLE GENERATOR 1600AMP DUAL BREAKER STATION , 3/4"x10' GROUND #6 AWG BARE COPPER GROUNDING BUSHINGS PER NATIONAL ELECTRICAL CODE

4. TELECOMMUNICATIONS ROOM
   - PVC CONDUIT
   - APPROXIMATE LOCATION OF MAIN TELECOMMUNICATIONS ROOM
   - TELECOMMUNICATIONS ROOM

5. SITE LIGHTING SYSTEM DETAIL
   - SITE LIGHTING UNDERGROUND 1"
   - SITE LIGHTING UNDERGROUND 1"
   - SITE LIGHTING UNDERGROUND 1"

6. SITE LIGHTING SYSTEM DETAIL
   - SITE LIGHTING UNDERGROUND 1"
   - SITE LIGHTING UNDERGROUND 1"
   - SITE LIGHTING UNDERGROUND 1"

7. SITE LIGHTING SYSTEM DETAIL
   - SITE LIGHTING UNDERGROUND 1"
   - SITE LIGHTING UNDERGROUND 1"
   - SITE LIGHTING UNDERGROUND 1"
NOTES:

1. ALL SWITCHGEAR AND PANELBOARDS SHALL BE SERIES RATED. THE SUBMITTING SWITCHGEAR MANUFACTURER AND ELECTRICAL CONTRACTOR SHALL SUBMIT BEFORE FINAL APPROVAL A SHORT CIRCUIT ANALYSIS FOR THE PROPOSED EQUIPMENT BASED ON THE AIC RATING FOR THE PADMOUNT TRANSFORMER PROVIDED BY THE UTILITY COMPANY.

2. UTILITY COMPANY SHALL PROVIDE BUSHING CURRENT TRANSFORMER FOR PAD-MOUNTED SERVICE METERING IN ACCORDANCE WITH UTILITY COMPANY STANDARD. NEW METER SOCKET SHALL BE MOUNTED ON THE SECONDARY VOLTAGE COMPARTMENT OF THE PAD-MOUNTED TRANSFORMER. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS WITH UTILITY PRIOR TO INSTALLATION. PAD, GROUNDING, PRIMARY CONDUIT, AND SECONDARY CONDUCTORS BY ELECTRICAL CONTRACTOR. ALL FINAL CONNECTIONS AT TRANSFORMER BY UTILITY. UTILITY COMPANY SHALL BE NATIONAL GRID.

3. ELECTRICAL CONTRACTOR SHALL REFER TO FEEDER TAG SCHEDULES.

4. ELECTRICAL CONTRACTOR SHALL GROUND AS IN ACCORDANCE WITH NEC ARTICLE 250 AS AMENDED BY THE STATE ELECTRICAL CODE.

5. MAIN SWITCHBOARD 'MDP' RATED 1600 AMP, 120/208 VOLT, 3-PHASE, 4-WIRE, 65 KAIC, PROVIDED WITH THE FOLLOWING CHARACTERISTICS:
   - INTEGRATED SURGE PROTECTION DEVICE ON THE LOAD SIDE OF THE SERVICE ENTRANCE MAIN IN SWITCHBOARD.
   - ARC ENERGY REDUCTION IN ACCORDANCE WITH NEC ARTICLE 240.87.

6. SERVICE PULL SECTION WITH MAIN BREAKER.

7. COORDINATE EXACT FEEDER REQUIREMENTS WITH ELEVATOR MANUFACTURER.

8. DISCONNECT SWITCH WIRED IN SERIES REQUIRED AT TOP OF SHAFT IN ACCORDANCE WITH MASSACHUSETTS ELEVATOR CODE.

9. PHOTO VOLTAIC SOLAR PANELS BY OWNERS VENDOR. COORDINATE/CONFIRM ALL REQUIREMENTS PRIOR TO ROUGH-IN.

10. ELECTRICAL CONTRACTOR SHALL PROVIDE PAD-MOUNTED DUAL BREAKER STATION FOR ROLL-UP GENERATOR CONNECTION, PROVIDE WITH (2) KIRK KEY DOOR INTERLOCKS, MAIN CIRCUIT BREAKER AND SURGE PROTECTION DEVICE, BY TRYSTAR INC. MODEL NO. DBDS-163P-LLM-JK2PS OR EQUAL. COORDINATE EXACT LOCATION IN FIELD PRIOR TO INSTALLATION.

# (2) 4" CONDUITS FOR FUTURE PV SYSTEM. COORDINATE EXACT LOCATION AND ROUTING WITH OWNER PRIOR TO ROUGH-IN. PROVIDE SECUREMENT OF PV CONDUITS AT REGULAR INTERVALS PER FM GLOBAL.
**Riser Diagrams**

**Drawing History:**
- 100% DD

**Project Status:**
- 04.21.2023

**Project Issue Date:**
- P0269.00

**Project #:**
- Amherst, MA 01002
  - 43 Amity Street

**Description:**

1. **120V**
   - Provided by Electrical Contractor in all network closets (MDF and IDF).
   - Electrical Contractor shall refer to floor plans for exact number of devices.
   - Electrical Contractor shall provide (1) #18 AWG 4-twisted pair (8-conductor) overall shielded cable by Belden Catalogue Numbers.
   - Electrical Contractor shall provide (1) HDI-ADA-ROC10 for each area station (HDI-ADA-100A).
   - Electrical Contractor shall provide (1) HDI-ADA-ARC (relay card) for each area station (HDI-ADA-100A).
   - 120V Power Connection and Dedicated Phone Line Back to Main Comm Backboard.

2. **For (2) Utility Providers**
   - Provide (2) 24" W x 24" H x 8" D non-metallic enclosure (NEMA 3R) from common terminal block to access utility company.
   - Blocks access to service utility company. Confirm exact requirements with Utility Co. Enclosure shall be (3) #20A 20-Amp Circuit Breaker.
   - Structural Elements 5'-0" Max Spacing.

3. **TV**
   - Provide (2) 24" W x 24" H x 8" D non-metallic enclosure (NEMA 3R) from common terminal block to access utility company.
   - Blocks access to service utility company. Confirm exact requirements with Utility Co. Enclosure shall be (3) #20A 20-Amp Circuit Breaker.
   - Structural Elements 5'-0" Max Spacing.

4. **Elevator**
   - Provide (1) 20A 20-Amp Circuit Breaker at the lobby.
   - Elevators shown in this Riser is intended to show an entire low voltage system including; CATV, Phone, Internet, etc. The system shall consist of conduit wire and terminations.
   - All electrical work shall be coordinated with the owner and service providers.

5. **WAP**
   - Provide (2) 6 Pair Armored Fiber 50/125 OHM cable (coordinate exact requirements with Verizon) & (1) RG11 Cable.
   - Pullwire between each MDF/IDF, provide conduit sleeves between floors.
   - Provision 120V Power Connection and Dedicated Phone Line Back to Main Comm Backboard.

6. **RG6 Cables**
   - RG-6 for runs up to 150'-0".
   - RG-11 for runs over 150'-0".
   - 15' Service Loop Should Be Left On Networking Closet End.
   - 120V Power Connection and Dedicated Phone Line Back to Main Comm Backboard.

7. **J-Hooks**
   - Provide J-Hooks above common area ceilings for cable management.
   - J-Hooks shall be spaced per manufacturer's recommendations and code requirements.
   - Provide (1) CAT6 Cable Terminated on RJ45 Jack from each camera location to MDF room. Cameras and terminations by low voltage contractor.
   - Provide (1) CAT6 Cable from each device location to nearest networking closet. 10' of coiled cable shall be provided at each wireless access point for probable relocation. Wireless access points provided and made available at each wireless access point.
   - Provide (1) CATV Outlet and Cover Plate. Provide Device Box & 3/4" Conduit to Above Ceiling with (1) RG6 Cable from each device to nearest networking closet or unit CTA. Provide CATV Jack and Cover Plate.

8. **Low Voltage Work Shown**
   - Low Voltage work shown in this riser is intended to show an entire low voltage system including; CATV, Phone, Internet, etc. The system shall consist of conduit wire and terminations.
   - RJ45 Jacks, see floor plans for exact quantity and locations.
   - Each device to nearest networking closet. Provide (2) RJ45 Jacks and cover plate. Terminate CAT6 Cables on "F" connector, see floor plans for exact quantity and locations.

9. **Terminals**
   - Connectors provided by electrical contractor in all network closets (MDF and IDF).
   - CATV outlets and cover plate. Provide device box & 3/4" conduit to above ceiling with (1) RG6 Cable from each device to nearest networking closet or unit CTA. Provide CATV Jack and Cover Plate.
   - Provide device box & 3/4" conduit to above ceiling with (1) RG6 Cable from each device to nearest networking closet or unit CTA. Provide CATV Jack and Cover Plate.

10. **Components**
    - RJ45 jack, see floor plans for exact quantity and locations.
    - Each device to nearest networking closet. Provide (2) RJ45 Jacks and cover plate. Terminate CAT6 Cables on "F" connector, see floor plans for exact quantity and locations.
    - Component shall make all terminations (unless noted otherwise) and test all cables in accordance with EIA and TIA.
LIGHTING FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>FIXTURE TYPE</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER AND CATALOG NUMBER</th>
<th>LIGHT SOURCE</th>
<th>VOLTAGE</th>
<th>LUMENS</th>
<th>TEMP.</th>
<th>WATTAGE</th>
<th>TYPE</th>
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<tbody>
<tr>
<td>4' LED SURFACE MOUNTED STRIP</td>
<td>4SNLED-LD5-30SL-LN-UNV-L835-CD1-U</td>
<td>METALUX</td>
<td>LED</td>
<td>120</td>
<td>3077</td>
<td>3500</td>
<td>21</td>
<td>LED</td>
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<tr>
<td>EXTERIOR LED WALL PACK, EMERGENCY BATTERY PACK</td>
<td>SLW-15-4K-BL-EM</td>
<td>BARRON LIGHTING</td>
<td>LED</td>
<td>120</td>
<td>1500</td>
<td>4000</td>
<td>32</td>
<td>LED</td>
</tr>
<tr>
<td>4' LED STAIRWELL FIXTURE, EMERGENCY BATTERY AND OCCUPANCY SENSOR FOR STEP UP DIMMING</td>
<td>SLF4L52835HIA-EM/10W-OCCSS-SBR-10-D-SD50-120V</td>
<td>HE WILLIAMS</td>
<td>LED</td>
<td>120</td>
<td>5200</td>
<td>3500</td>
<td>37</td>
<td>LED</td>
</tr>
</tbody>
</table>

LIGHTING FIXTURE NOTES:
1. ALL RECESSED FIXTURE TRIMS TO BE PAINTED TO MATCH CEILING.
2. PROVIDE A COMPLETE AND OPERABLE SYSTEM INCLUDING ALL NECESSARY MOUNTING HARDWARE, POWER FEEDS, WIRING CONNECTIONS, DRIVERS, AND CONTROL INTERFACES.
3. PAINT ALL FLANGES INSTALLED IN DRYWALL TO MATCH ADJACENT CEILING FINISH. FLANGES SHALL BE REMOVED FROM CEILING PRIOR TO PAINTING, OR RAZOR CUT AFTER PAINTING TO ALLOW FOR REMOVAL OF THE TRIM FROM THE CEILING.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE DIMMABLE LED REPLACEMENT LAMPS, LAMP COLOR TEMPERATURE 2700K, AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM.
1. SERVICE GROUNDING SYSTEM DETAIL
   - SUPPORT ALL CABLE CLIPS TO PANEL OR PANEL BRACKETS TO KEYPads.
   - WHERE CONDUIT CONNECTIONS ARE REQUIRED, USE FITTINGS WITH EMBOSSED CONDUIT CLAMP, SIZE 3/4" G486-4301 TYPE DX CPLG
   - BAR IN EACH SERVICE SWITCH
   - USE CONDUIT CLAMP, SIZE 5" MIN, AS REQUIRED (TYP)
   - BAR IN EACH SERVICE SWITCH
   - USE CONDUIT CLAMP, SIZE 5" MIN, AS REQUIRED (TYP)

2. CONDUIT MOUNTING DETAIL
   - FED M.L.O. OR M.C.B.
   - NEUTRAL LINK
   - DISTRIBUTION FEEDERS, NEUTRAL AND GROUND SAME CONDUCTOR
   - BONDING JUMPER WITH 250KCM AS REQUIRED (TYP)
   - PLASTIC END CAPS (TYP)
   - CONDUIT CLAMP, SIZE 1" CHAMFER AS REQUIRED (TYP)
   - CONDUIT CLAMP, SIZE 1" CHAMFER AS REQUIRED (TYP)

3. TYPICAL PANELBOARDS/BRANCH CIRCUIT WIRING DETAIL
   - ONE-LINE DIAGRAM FOR DETAILS
   - PANEL FEEDER FOR N.E.S.
   - MANHOLE
   - DUCT LINE ENTRANCE AT CONCRETE STRUCTURE OR MANHOLE
   - CONDUIT CLAMP, SIZE 1" CHAMFER AS REQUIRED (TYP)
   - BAR IN EACH SERVICE SWITCH
   - USE CONDUIT CLAMP, SIZE 5" MIN, AS REQUIRED (TYP)
   - BAR IN EACH SERVICE SWITCH
   - USE CONDUIT CLAMP, SIZE 5" MIN, AS REQUIRED (TYP)

4. TWO SPEED EXHAUST FAN WIRING DETAIL
   - 1/2" (MIN) FULL PLASTIC END CAPS (TYP)
   - 1" CHAMFER AS REQUIRED (TYP)
   - 1/2" (MIN) FULL PLASTIC END CAPS (TYP)
   - 1" CHAMFER AS REQUIRED (TYP)
   - 12" LOAD CENTER OR DISTRIBUTOR BOARD
   - ELECTRICAL ENCASEMENT FOR OUTSIDE MOUNTED EQUIPMENT
   - ELECTRICAL ENCASEMENT FOR OUTSIDE MOUNTED EQUIPMENT

5. ELEVATOR MACHINE ROOM, PIT & SHAFT DETAILS
   - 1/2" (MIN) FULL PLASTIC END CAPS (TYP)
   - 1" CHAMFER AS REQUIRED (TYP)
   - 1/2" (MIN) FULL PLASTIC END CAPS (TYP)
   - 1" CHAMFER AS REQUIRED (TYP)
   - 12" LOAD CENTER OR DISTRIBUTOR BOARD
   - ELECTRICAL ENCASEMENT FOR OUTSIDE MOUNTED EQUIPMENT
   - ELECTRICAL ENCASEMENT FOR OUTSIDE MOUNTED EQUIPMENT
NOTES:
1. PRIOR TO BID, ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL ASPECTS OF THE EXISTING ELECTRICAL SYSTEMS. CONTRACTOR BID SHALL INCLUDE ALL WORK NECESSARY TO FULLY REMOVE ALL EXISTING ELECTRICAL DEVICES, WIRING AND SERVICE. REFER TO DRAWING E001 FOR DEMOLITION SUBSCRIPTS.
2. EXACT QUANTITY OF ELECTRICAL ITEMS MAY DIFFER IN FIELD. THIS PLAN IS TO INDICATE SCOPE OF DEMOLITION AND GENERAL AMOUNT OF ITEM'S TO BE REMOVED.
3. ALL ITEMS TO BE REMOVED SHALL BE DISPOSED OFF SITE IN A LEGAL MANNER.
4. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND MAKE SAFE ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH MECHANICAL EQUIPMENT TO BE REMOVED BY MECHANICAL CONTRACTOR.
ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT (INCLUDING DISCONNECTS, STARTERS, JUNCTION BOXES, WIREWAYS, WIRING AND APPURTENANCES) ASSOCIATED WITH HVAC EQUIPMENT INDICATED FOR REMOVAL. REFER TO MECHANICAL PLANS FOR DETAILS.
POWER ROOF NOTES:

1. ALL CONDUIT ON ROOF SHALL BE GALVANIZED RIGID STEEL. THE LAST 18”-30” OF THE CONDUIT RUN TO EACH MOTOR SHALL BE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT.

2. ALL SUPPORTS FOR EQUIPMENT (ELECTRICAL) AND RECEIPTABLES SHALL BE BY E.C. UNISTRUT SHALL BE FIBERGLASS OR GALVANIZED RIGID STEEL. ALL HARDWARE SHALL BE STAINLESS STEEL.

3. E.C. SHALL UTILIZE ROOF CURBS FOR ALL ROOF PENETRATIONS. ROOF IS NEW.
1. Fire Alarm System:
   - All fire alarm wires and cables shall be UL listed for fire alarm use.
   - Provide and install (5) addressable control module devices.
   - Provide and install a supervised exterior rotating beacon 24 volts DC with a red lens. The beacon shall measure over five (5) volts DC and 0.5 amperes at 120 volts.
   - Provide LED type remote annunciator, positioned as shown on the drawings. The annunciator shall be flush mounted.

2. Sample Tubing:
   - Sampling tubes shall have red LED indicating lights and stainless steel faceplate. Duct smoke detectors shall be addressable photoelectric type. Complete with remote test stations and sampling tubing.

3. Fire Alarm Terminal Cabinet:
   - Fire alarm terminal cabinet shall provide remote power with built-in battery charger connected to any 120-volt AC supply.

4. Booster Panel:
   - Booster panel shall provide remote power with built-in battery charger connected to any 120-volt AC supply.

5. Addressable Loop:
   - Monitor modules shall be provided to monitor and connect conventional initiating devices onto the addressable loop.

6. Fire Alarm Device Labeling:
   - Typical fire alarm device labeling detail shall be provided.

7. Elevator Machine Room, Pit & Shaft Details:
   - Elevator machine room, pit & shaft details shall be provided.

8. Duct Smoke Detector Mounting:
   - Typical duct smoke detector mounting detail shall be provided.

9. Elevator Smoke Curtain/Banner Detail:
   - Elevator smoke curtain/banner detail shall be provided.

10. Elevator Recall Wiring Detail:
    - Elevator recall wiring detail shall be provided.

11. Elevator Machine Room, Pit & Shaft Details:
    - Elevator machine room, pit & shaft details shall be provided.

12. Typical Fire Alarm Device Labeling Detail:
    - Typical fire alarm device labeling detail shall be provided.

13. Device Mounting Height Detail:
    - Device mounting height detail shall be provided.
New Existing Structure to Remain
FIRE ALARM ROOF NOTES:

1. DUCT MOUNTED SMOKE DETECTORS SHALL BE PROVIDED BY E.C., INSTALLED BY M.C., WIRED BY E.C. ALL DUCT MOUNTED SMOKE DETECTORS SHALL HAVE REMOTE TEST STATION AND LED ON THE FLOOR BELOW, GROUP BY AREA AND INSTALL IN A CORRIDOR OR OTHER COMMON AREA. ALL TEST STATIONS SHALL BE PERMANENTLY LABELED WITH UNIT SERVED. "HRU-1 DUCT MOUNTED SMOKE DETECTOR". LABEL SHALL BE RED PLASTIC WITH 1/8" TALL (WHITE) LETTERS.