

To: Friends of Mechanics Hall  
Subject: Renovations of Mechanics Hall  
Date: December 2016

Attached please find the drawings and estimates for the renovation of Mechanics Hall. The estimates have been broken down into four phases:

- Phase 1 – Painting and restoration of the front façade.
- Phase 2a- Renovation of the existing ground floor. This includes new restrooms on the first floor. We have also included electrical, mechanical and plumbing upgrades that will set up infrastructure for future renovations.
- Phase 2b – Renovation of the second floor community space.
- Phase 3 – Demolition of the back and construction of a new addition, including a new egress stair, elevator and kitchen.

The phasing is flexible and as we develop the project could consider a different order to do the work. As we consider the phasing we assumed that you would want to get rentable space up and running early in the project. This will also trigger the need to upgrade the electrical, heating and plumbing systems to support later phases.

In our current planning we have suggested putting the elevator in Phase Three as part of the addition. This may require some negotiation with the Town, because we that will mean that the upstairs will not have an accessible route until the very end of the project.

The estimates are based on industry standard cost data. We have included a summary sheet with a base cost, plus additional costs that should be considered as part of project costs. For example in Phase 2A there is a base cost of:

\$306,177

To this we have added Design Fees, Permits, Contractor costs and a contingency of 20% - which will result in a budget for this phase of \$452,474.

We did not add a multiplier for inflation. Price escalation over time is difficult to estimate for two major reasons. First, at this point, we are not sure when the project will move forward. Second, we can estimate inflation, but given market forces within the construction industry these numbers are subject to change. At this point we would recommend adding 5% to the final-cost each year in the future expect to start a phase.

The drawings we have attached are preliminary. Before any work can progress will have to revisit the scope, engage engineers, and complete the drawings.

## Mechanics Hall Renovation Study Cost Estimates

### Phase 1 (Paint front)

|  |                     | Comments                            |
|--|---------------------|-------------------------------------|
| Base Cost                                  | \$ 15,631.72        | See worksheet                       |
| Design Fees (Architecture and Engineering) | \$ 2,344.76         | 15%                                 |
| Permits                                    | \$ 159.42           | .07% + \$250                        |
| Contingency                                | \$ 3,126.34         | 20%                                 |
| GC OH, Profit and General Conditions       | \$ 3,907.93         | 25% given the small size of the job |
| <b>Total</b>                               | <b>\$ 25,170.17</b> |                                     |

### Phase 2A (Exterior and Level One Renovation)

|  |                      |               |
|--|----------------------|---------------|
| Base Cost                                  | \$ 306,177.59        | See worksheet |
| Design Fees (Architecture and Engineering) | \$ 36,741.31         | 12%           |
| Permits                                    | \$ 2,393.24          | .07% + \$250  |
| Contingency                                | \$ 61,235.52         | 20%           |
| GC OH, Profit and General Conditions       | \$ 45,926.64         | 15%           |
| <b>Total</b>                               | <b>\$ 452,474.30</b> |               |

### Phase 2B (Second Floor Renovation)

|  |                     |               |
|--|---------------------|---------------|
| Base Cost                                  | \$ 45,176.00        | See worksheet |
| Design Fees (Architecture and Engineering) | \$ 5,421.12         | 12%           |
| Permits                                    | \$ 566.23           | .07% + \$250  |
| Contingency                                | \$ 9,035.20         | 20%           |
| GC OH, Profit and General Conditions       | \$ 6,776.40         | 15%           |
| <b>Total</b>                               | <b>\$ 66,974.95</b> |               |

### Phase 3 (Addition)

|  |                        |               |
|--|------------------------|---------------|
| Base Cost                                  | \$ 735,767.52          | See worksheet |
| Design Fees (Architecture and Engineering) | \$ 88,292.10           | 12%           |
| Permits                                    | \$ 51,753.73           | .07% + \$250  |
| Contingency                                | \$ 147,153.50          | 20%           |
| GC OH, Profit and General Conditions       | \$ 110,365.13          | 15%           |
| <b>Total</b>                               | <b>\$ 1,133,331.98</b> |               |

Mechanics Hall PHASE 1 FRONT FACADE UPGRADE

Main St.  
Princeton MA 01541

Data Release : Year 2017

Unit Cost Estimate

| Quantity     | LineNumber   | Line Source | Description   | Crew   | Daily Output | Labor Hours | Unit  | Material    | Labor       | Equipment | Total       | Ext. Mat.   | Ext. Labor  | Ext. Equip. | Ext. Total   | Mat. O&P     | O&P Labor   | O&P Equip.  | O&P Total   | O&P Ext. Mat. | Ext. Labor O&P | Ext. Equip. O&P | O&P Ext. Total | Type | Release   | Data | CCI Location                    | Notes |
|--------------|--------------|-------------|---|--------|--------------|-------------|-------|-------------|-------------|-----------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|---------------|----------------|-----------------|----------------|------|-----------|------|---------------------------------|-------|
| 1            | 022113090020 |             | Topographical survey, conventional, minimum   | A7     | 3.3          | 7.27        | Acre  | \$ 18.23    | \$ 354.00   | \$ 12.57  | \$ 384.80   | \$ 18.23    | \$ 354.00   | \$ 12.57    | \$ 384.80    | \$ 20.25     | \$ 588.00   | \$ 13.77    | \$ 622.02   | \$ 20.25      | \$ 588.00      | \$ 13.77        | \$ 622.02      | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 1            | 022113130300 |             | Boundary & survey markers, lot location and lines, for large quantities, minimum  | A7     | 2            | 12          | Acre  | \$ 32.03    | \$ 582.00   | \$ 20.96  | \$ 634.99   | \$ 32.03    | \$ 582.00   | \$ 20.96    | \$ 634.99    | \$ 35.33     | \$ 972.00   | \$ 22.95    | \$ 1,030.28 | \$ 35.33      | \$ 972.00      | \$ 22.95        | \$ 1,030.28    | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 1            | 022113130800 |             | Boundary & survey markers, property lines, perimeter, cleared land  | A7     | 1000         | 0.02        | L.F.  | \$ 0.06     | \$ 1.16     | \$ 0.04   | \$ 1.26     | \$ 0.06     | \$ 1.16     | \$ 0.04     | \$ 1.26      | \$ 0.07      | \$ 1.94     | \$ 0.05     | \$ 2.06     | \$ 0.07       | \$ 1.94        | \$ 0.05         | \$ 2.06        | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 1            | 023213100020 |             | Subsurface investigation, boring and exploratory drilling, initial field stake out & determination of elevations, for borings | A6     | 1            | 16          | Day   | \$ -        | \$ 726.00   | \$ 41.42  | \$ 767.42   | \$ -        | \$ 726.00   | \$ 41.42    | \$ 767.42    | \$ -         | \$ 1,230.00 | \$ 45.91    | \$ 1,275.91 | \$ -          | \$ 1,230.00    | \$ 45.91        | \$ 1,275.91    | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 1            | 023213100100 |             | Subsurface investigation, boring and exploratory drilling, drawings showing boring details                                    |        | 0            | 0           | Total | \$ -        | \$ 335.00   | \$ -      | \$ 335.00   | \$ -        | \$ 335.00   | \$ -        | \$ 335.00    | \$ -         | \$ 425.00   | \$ -        | \$ 425.00   | \$ -          | \$ 425.00      | \$ -            | \$ 425.00      | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 1            | 023213100200 |             | Subsurface investigation, boring and exploratory drilling, report and recommendations from P.E.                               |        | 0            | 0           | Total | \$ -        | \$ 775.00   | \$ -      | \$ 775.00   | \$ -        | \$ 775.00   | \$ -        | \$ 775.00    | \$ -         | \$ 970.00   | \$ -        | \$ 970.00   | \$ -          | \$ 970.00      | \$ -            | \$ 970.00      | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 1            | 023213100300 |             | Subsurface investigation, boring and exploratory drilling, mobilization and demobilization                                    | B55    | 4            | 4           | Total | \$ -        | \$ 151.20   | \$ 262.47 | \$ 413.67   | \$ -        | \$ 151.20   | \$ 262.47   | \$ 413.67    | \$ -         | \$ 250.80   | \$ 288.42   | \$ 539.22   | \$ -          | \$ 250.80      | \$ 288.42       | \$ 539.22      | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 800          | 099113602400 |             | Paints & coatings, siding, exterior, Texture 1-111 or clapboard, oil base, paint 2 coats, brushwork                           | 2 Pord | 810          | 0.02        | S.F.  | \$ 0.29     | \$ 0.88     | \$ -      | \$ 1.17     | \$ 232.00   | \$ 704.00   | \$ -        | \$ 936.00    | \$ 0.32      | \$ 1.47     | \$ -        | \$ 1.79     | \$ 256.00     | \$ 1,176.00    | \$ -            | \$ 1,432.00    | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 1            | 099113700160 |             | Paints & coatings, exterior doors, flush, both sides, roll & brush, primer, incl. frame & trim                                | 1 Pord | 10           | 0.8         | Ea.   | \$ 4.26     | \$ 35.70    | \$ -      | \$ 39.96    | \$ 4.26     | \$ 35.70    | \$ -        | \$ 39.96     | \$ 4.67      | \$ 59.50    | \$ -        | \$ 64.17    | \$ 4.67       | \$ 59.50       | \$ -            | \$ 64.17       | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 1            | 099113700370 |             | Paints & coatings, exterior doors, panel, both sides, roll & brush, primer + 2 coats, exterior latex, incl. frame & trim      | 1 Pord | 2.5          | 3.2         | Ea.   | \$ 13.70    | \$ 144.20   | \$ -      | \$ 157.90   | \$ 13.70    | \$ 144.20   | \$ -        | \$ 157.90    | \$ 15.06     | \$ 236.60   | \$ -        | \$ 251.66   | \$ 15.06      | \$ 236.60      | \$ -            | \$ 251.66      | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 5            | 099113700570 |             | Paints & coatings, exterior windows, per exterior side, 12 lite, brushwork, primer + 2 coats, exterior latex, based on 15 SF  | 1 Pord | 5            | 1.6         | Ea.   | \$ 2.70     | \$ 72.10    | \$ -      | \$ 74.80    | \$ 13.50    | \$ 360.50   | \$ -        | \$ 374.00    | \$ 2.97      | \$ 118.30   | \$ -        | \$ 121.27   | \$ 14.85      | \$ 591.50      | \$ -            | \$ 606.35      | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 140          | 099113800410 |             | Paints & coatings, trim, exterior, molding, primer + 2 coats exterior latex, brushwork, up to 14" wide                        | 1 Pord | 315          | 0.03        | L.F.  | \$ 0.15     | \$ 1.15     | \$ -      | \$ 1.30     | \$ 21.00    | \$ 161.00   | \$ -        | \$ 182.00    | \$ 0.15      | \$ 1.88     | \$ -        | \$ 2.03     | \$ 21.00      | \$ 263.20      | \$ -            | \$ 284.20      | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 1            | 100000000000 | U           | New sign for Mechanics Hall   |        | 0            | 0           | Ea.   | \$ 5,000.00 | \$ 1,000.00 | \$ 300.00 | \$ 6,300.00 | \$ 5,000.00 | \$ 1,000.00 | \$ 300.00   | \$ 6,300.00  | \$ 5,500.00  | \$ 1,100.00 | \$ 330.00   | \$ 6,930.00 | \$ 5,500.00   | \$ 1,100.00    | \$ 330.00       | \$ 6,930.00    | USER | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 1            | 099103300015 |             | Surface preparation, exterior, doors, per side, excl. frames or trim  |        | 0            | 0           |       | \$ -        | \$ -        | \$ -      | \$ -        | \$ -        | \$ -        | \$ -        | \$ -         | \$ -         | \$ -        | \$ -        | \$ -        | \$ -          | \$ -           | \$ -            | \$ -           | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 5            | 099103300450 |             | Surface preparation, exterior, windows, per side, scrape & sand, wood, 12 lite, excl. trim                                    | 1 Pord | 200          | 0.04        | S.F.  | \$ -        | \$ 1.79     | \$ -      | \$ 1.79     | \$ -        | \$ 8.95     | \$ -        | \$ 8.95      | \$ -         | \$ 2.97     | \$ -        | \$ 2.97     | \$ -          | \$ 14.85       | \$ -            | \$ 14.85       | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| 800          | 099103300730 |             | Surface preparation, exterior, siding, scrape & sand, clapboard, heavy  | 1 Pord | 400          | 0.02        | S.F.  | \$ -        | \$ 0.90     | \$ -      | \$ 0.90     | \$ -        | \$ 720.00   | \$ -        | \$ 720.00    | \$ -         | \$ 1.48     | \$ -        | \$ 1.48     | \$ -          | \$ 1,184.00    | \$ -            | \$ 1,184.00    | OPN  | Year 2017 |      | MASSACHUSETTS / FITCHBURG (014) |       |
| <b>Total</b> |              |             |   |        |              |             |       |             |             |           | \$ 9,889.96 | \$ 5,334.78 | \$ 6,058.71 | \$ 637.46   | \$ 12,030.95 | \$ 12,239.86 | \$ 5,867.23 | \$ 9,063.39 | \$ 701.10   | \$ 15,631.72  |                |                 |                |      |           |      |                                 |       |

Mechanics Hall PHASE 2A EXTERIOR AND LEVEL 1 RENOVATION

Main Street  
Princeton MA 01541

Data Release : Year 2017

Unit Cost Lines

| Quantity | LineNumber   | Line Source | SubContracted Ind. | Description  | Crew   | Daily Output | Labor Hours | Unit | Material    | Labor       | Equipment | Total        | Ext. Mat.   | Ext. Labor  | Ext. Equip. | Ext. Total   | Mat. O&P    | Installation O&P | Labor O&P   | Equip. O&P | Total O&P    | Ext. Mat. O&P | Ext. Installation O&P | Ext. Labor O&P | Ext. Equip. O&P | Ext. Total O&P | Labor Type  | Data Release | CCI Location                    | Notes                           |                   |
|----------|--------------|-------------|--------------------|--|--------|--------------|-------------|------|-------------|-------------|-----------|--------------|-------------|-------------|-------------|--------------|-------------|------------------|-------------|------------|--------------|---------------|-----------------------|----------------|-----------------|----------------|-------------|--------------|---------------------------------|---------------------------------|-------------------|
| 2        | 09910330040  |             |                    | Surface preparation, exterior, doors, per side, scrape & sand, wood, detail, excl. frames or trim  | 1 Pord | 496          | 0.02        | S.F. | \$ -        | \$ 0.73     | \$ -      | \$ 0.73      | \$ -        | \$ 1.46     | \$ -        | \$ 1.46      | \$ -        | \$ -             | \$ 1.19     | \$ -       | \$ 1.19      | \$ -          | \$ -                  | \$ 2.38        | \$ -            | \$ 2.38        | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                                 |                   |
| 19       | 099103300450 |             |                    | Surface preparation, exterior, windows, per side, scrape & sand, wood, 12 line, excl. trim   | 1 Pord | 200          | 0.04        | S.F. | \$ -        | \$ 1.79     | \$ -      | \$ 1.79      | \$ -        | \$ 34.01    | \$ -        | \$ 34.01     | \$ -        | \$ -             | \$ 2.97     | \$ -       | \$ 2.97      | \$ -          | \$ -                  | \$ 56.43       | \$ -            | \$ 56.43       | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                                 |                   |
| 1        | 099103300450 | A           |                    | Paints & coatings, siding, exterior, for work over 12&#39; h, from pipe scaffolding, add   |        | 0            |             | S.F. | \$ -        | \$ 0.27     | \$ -      | \$ 0.27      | \$ -        | \$ 5.10     | \$ -        | \$ 5.13      | \$ -        | \$ -             | \$ 0.45     | \$ -       | \$ 0.45      | \$ -          | \$ -                  | \$ 8.46        | \$ -            | \$ 8.55        | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | [Adjusted by 099113608100]      |                   |
| 1600     | 099103300730 |             |                    | Surface preparation, exterior, siding, scrape & sand, clapboard, heavy   | 1 Pord | 400          | 0.02        | S.F. | \$ -        | \$ 0.90     | \$ -      | \$ 0.90      | \$ -        | \$ 1,440.00 | \$ -        | \$ 1,440.00  | \$ -        | \$ -             | \$ 1.48     | \$ -       | \$ 1.48      | \$ -          | \$ -                  | \$ 2,368.00    | \$ -            | \$ 2,368.00    | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                                 |                   |
| 1        | 099103300730 | A           |                    | Paints & coatings, siding, exterior, for work over 12&#39; h, from pipe scaffolding, add   |        | 0            |             | S.F. | \$ -        | \$ 0.14     | \$ -      | \$ 0.14      | \$ -        | \$ 216.00   | \$ -        | \$ 224.00    | \$ -        | \$ -             | \$ 0.22     | \$ -       | \$ 0.22      | \$ -          | \$ -                  | \$ 355.20      | \$ -            | \$ 352.00      | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | [Adjusted by 099113608100]      |                   |
| 1600     | 099113602000 |             |                    | Paints & coatings, siding, exterior, Texture 1-111 or clapboard, oil base, primer coat, spray  | 2 Pord | 4550         | 0           | S.F. | \$ 0.14     | \$ 0.15     | \$ -      | \$ 0.29      | \$ 224.00   | \$ 240.00   | \$ -        | \$ 464.00    | \$ 0.15     | \$ -             | \$ 0.27     | \$ -       | \$ 0.42      | \$ 240.00     | \$ -                  | \$ -           | \$ 432.00       | \$ -           | \$ 672.00   | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |                   |
| 1        | 099113602000 | A           |                    | Paints & coatings, siding, exterior, for work over 12&#39; h, from pipe scaffolding, add   |        | 0            |             | S.F. | \$ -        | \$ 0.02     | \$ -      | \$ 0.02      | \$ -        | \$ 36.00    | \$ -        | \$ 32.00     | \$ -        | \$ -             | \$ 0.04     | \$ -       | \$ 0.04      | \$ -          | \$ -                  | \$ 64.80       | \$ -            | \$ 64.00       | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | [Adjusted by 099113608100]      |                   |
| 1        | 099113602000 | A           |                    | Paints & coatings, doors & windows, exterior, for oil base paint, add  |        | 0            |             | Ea.  | \$ 0.01     | \$ -        | \$ -      | \$ 0.01      | \$ 22.40    | \$ -        | \$ -        | \$ 16.00     | \$ 0.02     | \$ -             | \$ -        | \$ -       | \$ 0.02      | \$ 24.00      | \$ -                  | \$ -           | \$ -            | \$ 32.00       | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | [Adjusted by 099113700590]      |                   |
| 80       | 099113800170 |             |                    | Paints & coatings, trim, exterior, fascia, latex paint, 1 coat coverage, spray, 1' x 6' to 1' x 10'  | 1 Pord | 2100         | 0           | L.F. | \$ 0.05     | \$ 0.17     | \$ -      | \$ 0.22      | \$ 4.00     | \$ 13.60    | \$ -        | \$ 17.60     | \$ 0.06     | \$ -             | \$ 0.28     | \$ -       | \$ 0.34      | \$ 4.80       | \$ -                  | \$ -           | \$ 22.40        | \$ -           | \$ 27.20    | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |                   |
| 1        | 099113800170 | A           |                    | Paints & coatings, siding, exterior, for work over 12&#39; h, from pipe scaffolding, add   |        | 0            |             | S.F. | \$ -        | \$ 0.03     | \$ -      | \$ 0.03      | \$ -        | \$ 2.04     | \$ -        | \$ 2.40      | \$ -        | \$ -             | \$ 0.04     | \$ -       | \$ 0.04      | \$ -          | \$ -                  | \$ 3.36        | \$ -            | \$ 3.20        | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | [Adjusted by 099113608100]      |                   |
| 1        | 099113800170 | A           |                    | Paints & coatings, doors & windows, exterior, for oil base paint, add  |        | 0            |             | Ea.  | \$ 0.01     | \$ -        | \$ -      | \$ 0.01      | \$ 0.40     | \$ -        | \$ -        | \$ 0.80      | \$ 0.01     | \$ -             | \$ -        | \$ -       | \$ 0.01      | \$ 0.48       | \$ -                  | \$ -           | \$ -            | \$ 0.80        | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | [Adjusted by 099113700590]      |                   |
| 80       | 099113800370 |             |                    | Paints & coatings, trim, exterior, molding, up to 14' wide   |        | 0            |             |      | \$ -        | \$ -        | \$ -      | \$ -         | \$ -        | \$ -        | \$ -        | \$ -         | \$ -        | \$ -             | \$ -        | \$ -       | \$ -         | \$ -          | \$ -                  | \$ -           | \$ -            | \$ -           | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                                 |                   |
| 2        | 099113700190 |             |                    | Paints & coatings, exterior doors, flush, both sides, roll & brush, primer + 2 coats, exterior latex, incl. frame & trim                     | 1 Pord | 5            | 1.8         | Ea.  | \$ 13.97    | \$ 72.10    | \$ -      | \$ 86.07     | \$ 27.94    | \$ 144.20   | \$ -        | \$ 172.14    | \$ 15.37    | \$ -             | \$ 118.30   | \$ -       | \$ 133.67    | \$ 30.74      | \$ -                  | \$ 236.60      | \$ -            | \$ 267.34      | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                                 |                   |
| 1        | 099113700190 | A           |                    | Paints & coatings, doors & windows, exterior, for oil base paint, add  |        | 0            |             | Ea.  | \$ 1.40     | \$ -        | \$ -      | \$ 1.40      | \$ 2.79     | \$ -        | \$ -        | \$ 2.80      | \$ 1.54     | \$ -             | \$ -        | \$ -       | \$ 1.54      | \$ 3.07       | \$ -                  | \$ -           | \$ -            | \$ 3.08        | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | [Adjusted by 099113700590]      |                   |
| 19       | 099113700570 |             |                    | Paints & coatings, exterior windows, per exterior side, 12 line, brushwork, primer + 2 coats, exterior latex, based on 15 SF                 | 1 Pord | 5            | 1.6         | Ea.  | \$ 2.70     | \$ 72.10    | \$ -      | \$ 74.80     | \$ 51.30    | \$ 1,369.90 | \$ -        | \$ 1,421.20  | \$ 2.97     | \$ -             | \$ 118.30   | \$ -       | \$ 121.27    | \$ 56.43      | \$ -                  | \$ 2,247.70    | \$ -            | \$ 2,304.13    | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                                 |                   |
| 1        | 099113700570 | A           |                    | Paints & coatings, siding, exterior, for work over 12&#39; h, from pipe scaffolding, add   |        | 0            |             | S.F. | \$ -        | \$ 10.81    | \$ -      | \$ 10.81     | \$ -        | \$ 205.49   | \$ -        | \$ 205.39    | \$ -        | \$ -             | \$ 17.75    | \$ -       | \$ 17.75     | \$ -          | \$ -                  | \$ 337.16      | \$ -            | \$ 337.25      | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | [Adjusted by 099113608100]      |                   |
| 1        | 099113700570 | A           |                    | Paints & coatings, doors & windows, exterior, for oil base paint, add  |        | 0            |             | Ea.  | \$ 0.27     | \$ -        | \$ -      | \$ 0.27      | \$ 5.13     | \$ -        | \$ -        | \$ 5.13      | \$ 0.30     | \$ -             | \$ -        | \$ -       | \$ 0.30      | \$ 5.64       | \$ -                  | \$ -           | \$ -            | \$ 5.70        | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | [Adjusted by 099113700590]      |                   |
| 100      | 09913236630  |             |                    | Paints and protective coatings, epoxy topcoat, sprayed   | 2 Pst  | 2800         | 0.01        | S.F. | \$ 0.24     | \$ 0.27     | \$ -      | \$ 0.51      | \$ 24.00    | \$ 27.00    | \$ -        | \$ 51.00     | \$ 0.27     | \$ -             | \$ 0.48     | \$ -       | \$ 0.75      | \$ 27.00      | \$ -                  | \$ -           | \$ 48.00        | \$ -           | \$ 75.00    | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) | Fire escape paint |
| 1        | 099713236630 | A           |                    | Paints and protective coatings, for spray painting intricate structures above one story, add   |        | 0            |             |      | \$ -        | \$ 0.14     | \$ -      | \$ 0.14      | \$ -        | \$ 13.50    | \$ -        | \$ 14.00     | \$ -        | \$ -             | \$ 0.24     | \$ -       | \$ 0.24      | \$ -          | \$ -                  | \$ 24.00       | \$ -            | \$ 24.00       | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | [Adjusted by 099713237030]      |                   |
| 1200     | 090505101000 |             |                    | Ceiling demolition, plaster, lime and horsehair, on wood lath, remove  | 2 Clab | 700          | 0.02        | S.F. | \$ -        | \$ 0.90     | \$ -      | \$ 0.90      | \$ -        | \$ 1,080.00 | \$ -        | \$ 1,080.00  | \$ -        | \$ -             | \$ 1.51     | \$ -       | \$ 1.51      | \$ -          | \$ -                  | \$ 1,812.00    | \$ -            | \$ 1,812.00    | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                                 |                   |
| 4600     | 090505303000 |             |                    | Walls and partitions demolition, plaster, lime or horsehair, on wood lath  | 1 Clab | 400          | 0.02        | S.F. | \$ -        | \$ 0.80     | \$ -      | \$ 0.80      | \$ -        | \$ 3,680.00 | \$ -        | \$ 3,680.00  | \$ -        | \$ -             | \$ 1.32     | \$ -       | \$ 1.32      | \$ -          | \$ -                  | \$ 6,072.00    | \$ -            | \$ 6,072.00    | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                                 |                   |
| 2000     | 092116333200 |             |                    | Partition wall, interior, standard, taped both sides, installed on & incl. 2" x 4" wood studs, 16' O.C., 8' to 12' high, 5/8" gypsum drywall |        | 0            |             |      | \$ -        | \$ -        | \$ -      | \$ -         | \$ -        | \$ -        | \$ -        | \$ -         | \$ -        | \$ -             | \$ -        | \$ -       | \$ -         | \$ -          | \$ -                  | \$ -           | \$ -            | \$ -           | OPN         | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                                 |                   |
| 5        | 081416092020 |             |                    | Door, wood, architectural, flush, interior, 5 ply particle core, luan face, 1-3/8", 2'-6" x 6'-8"  | 2 Carp | 15           | 1.07        | Ea.  | \$ 95.25    | \$ 56.70    | \$ -      | \$ 151.95    | \$ 476.25   | \$ 283.50   | \$ -        | \$ 759.75    | \$ 105.07   | \$ -             | \$ 94.50    | \$ -       | \$ 199.57    | \$ 525.35     | \$ -                  | \$ -           | \$ 472.50       | \$ -           | \$ 997.85   | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |                   |
| 5        | 087920102240 |             |                    | Door hardware, mortise lockset, passage, lever handle  | 1 Carp | 9            | 0.89        | Ea.  | \$ 160.64   | \$ 44.82    | \$ -      | \$ 205.46    | \$ 803.20   | \$ 224.10   | \$ -        | \$ 1,027.30  | \$ 176.70   | \$ -             | \$ 75.60    | \$ -       | \$ 252.30    | \$ 883.50     | \$ -                  | \$ -           | \$ 378.00       | \$ -           | \$ 1,261.50 | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |                   |
| 2520     | 072129100320 |             |                    | Insulation, polyurethane foam, 2&#39;CF density, 2" thick R13, sprayed   | G2A    | 3000         | 0.01        | S.F. | \$ 0.99     | \$ 0.32     | \$ 0.22   | \$ 1.53      | \$ 2,494.80 | \$ 806.40   | \$ 554.40   | \$ 3,855.60  | \$ 1.08     | \$ -             | \$ 0.57     | \$ 0.25    | \$ 1.90      | \$ 2,721.60   | \$ -                  | \$ -           | \$ 1,436.40     | \$ 630.00      | \$ 4,788.00 | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |                   |
| 200      | 072129100360 |             |                    | Insulation, polyurethane foam, 2&#39;CF density, 6" thick R39, sprayed   | G2A    | 1000         | 0.02        | S.F. | \$ 2.95     | \$ 0.96     | \$ 0.67   | \$ 4.58      | \$ 590.00   | \$ 192.00   | \$ 134.00   | \$ 916.00    | \$ 3.24     | \$ -             | \$ 1.72     | \$ 0.74    | \$ 5.70      | \$ 648.00     | \$ -                  | \$ -           | \$ 344.00       | \$ 148.00      | \$ 1,140.00 | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) | for existing roof |
| 4600     | 099123720240 |             |                    | Paints & coatings, walls & ceilings, interior, concrete, drywall or plaster, latex paint, primer or sealer coat, smooth finish, roller       | 1 Pord | 1350         | 0.01        | S.F. | \$ 0.05     | \$ 0.27     | \$ -      | \$ 0.32      | \$ 230.00   | \$ 1,242.00 | \$ -        | \$ 1,472.00  | \$ 0.06     | \$ -             | \$ 0.43     | \$ -       | \$ 0.49      | \$ 276.00     | \$ -                  | \$ -           | \$ 1,978.00     | \$ -           | \$ 2,254.00 | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |                   |
| 10       | 099123350630 |             |                    | Paints & coatings, interior latex, windows, per interior side, 12 line, brushwork, primer + 2 coats, enamel, based on 15 SF                  | 1 Pord | 5            | 1.6         | Ea.  | \$ 2.71     | \$ 72.10    | \$ -      | \$ 74.81     | \$ 27.10    | \$ 721.00   | \$ -        | \$ 748.10    | \$ 2.97     | \$ -             | \$ 118.30   | \$ -       | \$ 121.27    | \$ 29.70      | \$ -                  | \$ -           | \$ 1,183.00     | \$ -           | \$ 1,212.70 | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |                   |
| 30       | 221316202120 |             |                    | Pipe, cast iron soil, one hub, service weight, 2" diameter, lead and oakum joints 10' O.C., includes clevis hanger assemblies 5' O.C.        | 01     | 63           | 0.25        | L.F. | \$ 20.20    | \$ 11.06    | \$ -      | \$ 31.26     | \$ 606.00   | \$ 331.80   | \$ -        | \$ 937.80    | \$ 22.13    | \$ -             | \$ 18.21    | \$ -       | \$ 40.34     | \$ 663.90     | \$ -                  | \$ -           | \$ 546.30       | \$ -           | \$ 1,210.20 | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |                   |
| 2        | 221316605260 |             |                    | Traps, copper, P trap, standard pattern, 2" pipe size  | 1 Plum | 15           | 0.53        | Ea.  | \$ 116.40   | \$ 25.85    | \$ -      | \$ 142.25    | \$ 232.80   | \$ 51.70    | \$ -        | \$ 284.50    | \$ 127.95   | \$ -             | \$ 42.35    | \$ -       | \$ 170.30    | \$ 255.90     | \$ -                  | \$ -           | \$ 84.70        | \$ -           | \$ 340.60   | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |                   |
| 1        | 2200         | U           |                    | Tight Tank waste water collection  |        | 0            |             | Ea.  | \$ 5,000.00 | \$ 5,000.00 | \$ -      | \$ 10,000.00 | \$ 5,000.00 | \$ 5,000.00 | \$ -        | \$ 10,000.00 | \$ 5,500.00 | \$ -             | \$ 5,500.00 | \$ -       | \$ 11,000.00 | \$ 5,500.00   | \$ -                  | \$ 5,500.00    | \$ -            | \$ 11,000.00   | USER        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                                 |                   |

Unit Cost Total \$ 10,792.27 \$ 10,822.11 \$ 17,360.80 \$ 688.40 \$ 28,870.11 \$ 5,959.89 \$ - \$ 6,116.52 \$ 0.99 \$ 12,077.40 \$ 11,896.11 \$ - \$ 26,013.39 \$ 778.00 \$ 38,691.91

Data Release : Year 2017

Assembly Cost Lines

| Quantity | LineNumber   | Line Source | SubContracted Ind. | Description   | Crew | Daily Output | Labor Hours | Unit   | Material | Labor | Equipment | Total        | Ext. Mat. | Ext. Labor | Ext. Equip. | Ext. Total   | Mat. O&P     | Installation O&P | Labor O&P | Equip. O&P | Total O&P    | Ext. Mat. O&P | Ext. Installation O&P | Ext. Labor O&P | Ext. Equip. O&P | Ext. Total O&P | Labor Type | Data Release | CCI Location                    | Notes   |
|----------|--------------|-------------|--------------------|---|------|--------------|-------------|--------|----------|-------|-----------|--------------|-----------|------------|-------------|--------------|--------------|------------------|-----------|------------|--------------|---------------|-----------------------|----------------|-----------------|----------------|------------|--------------|---------------------------------|---|
| 2        | D2010922240  |             |                    | Bathroom, lavatory & water closet, 1 wall plumbing, share common plumbing wall"                                       |      | 0            | 0           | Ea.    | \$ -     | \$ -  | \$ -      | \$ 4,039.54  | \$ -      | \$ -       | \$ -        | \$ 4,039.54  | \$ 3,308.15  | \$ 3,411.80      | \$ -      | \$ -       | \$ 6,719.95  | \$ 6,616.30   | \$ 6,823.60           | \$ -           | \$ -            | \$ 13,439.90   | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 100      | D20908101880 |             |                    | Copper tubing, hard temper, solder, type M, 3/4" diameter   |      | 0            | 0           | L.F.   | \$ -     | \$ -  | \$ -      | \$ 8.94      | \$ -      | \$ -       | \$ -        | \$ 8.94      | \$ 4.46      | \$ 8.09          | \$ -      | \$ -       | \$ 12.55     | \$ 446.00     | \$ 809.00             | \$ -           | \$ -            | \$ 1,255.00    | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 1        | D20202401860 |             |                    | Electric water heater, commercial, 100c F rise, 80 gal, 12 KW 49 GPH  |      | 0            | 0           | Ea.    | \$ -     | \$ -  | \$ -      | \$ 11,188.23 | \$ -      | \$ -       | \$ -        | \$ 11,188.23 | \$ 11,434.20 | \$ 1,357.50      | \$ -      | \$ -       | \$ 12,791.70 | \$ 11,434.20  | \$ 1,357.50           | \$ -           | \$ -            | \$ 12,791.70   | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 1        | D5000000000  | U           |                    | Electrical Panel and Source   |      | 0            | 0           | Ea.    | \$ -     | \$ -  | \$ -      | \$ 15,000.00 | \$ -      | \$ -       | \$ -        | \$ 15,000.00 | \$ 8,250.00  | \$ 8,250.00      | \$ -      | \$ -       | \$ 16,500.00 | \$ 8,250.00   | \$ 8,250.00           | \$ -           | \$ -            | \$ 16,500.00   | USER       | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 2400     | D50201300240 |             |                    | Wall switches, 1.2 per 1000 SF  |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 0.21      | \$ -      | \$ -       | \$ -        | \$ 0.21      | \$ 0.07      | \$ 0.22          | \$ -      | \$ -       | \$ 0.29      | \$ 168.00     | \$ 528.00             | \$ -           | \$ -            | \$ 696.00      | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 2400     | D50201100280 |             |                    | Receptacles incl plate, box, conduit, wire, 4 per 1000 SF, 5 watts per SF   |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 1.41      | \$ -      | \$ -       | \$ -        | \$ 1.41      | \$ 0.52      | \$ 1.52          | \$ -      | \$ -       | \$ 2.04      | \$ 1,248.00   | \$ 3,648.00           | \$ -           | \$ -            | \$ 4,896.00    | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 2400     | D50202160280 |             |                    | Incandescent fixtures recess mounted, type A, 3 watt per SF, 24 FC, 18 fixtures per 1000 SF                           |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 5.21      | \$ -      | \$ -       | \$ -        | \$ 5.21      | \$ 3.00      | \$ 4.08          | \$ -      | \$ -       | \$ 7.08      | \$ 7,200.00   | \$ 9,792.00           | \$ -           | \$ -            | \$ 16,992.00   | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 1200     | D50202080520 |             |                    | Fluorescent fixtures, type A, 8 fixtures per 400 SF   |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 7.17      | \$ -      | \$ -       | \$ -        | \$ 7.17      | \$ 3.46      | \$ 6.55          | \$ -      | \$ -       | \$ 10.01     | \$ 4,152.00   | \$ 7,860.00           | \$ -           | \$ -            | \$ 12,012.00   | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 1200     | D50303100400 |             |                    | Telephone systems, underfloor duct, poke thru fittings, low density   |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 1.72      | \$ -      | \$ -       | \$ -        | \$ 1.72      | \$ 1.18      | \$ 1.05          | \$ -      | \$ -       | \$ 2.23      | \$ 1,416.00   | \$ 1,260.00           | \$ -           | \$ -            | \$ 2,676.00    | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 16       | D50309200104 |             |                    | Internet wiring, 16 drops   |      | 0            | 0           | M.S.F. | \$ -     | \$ -  | \$ -      | \$ 125.00    | \$ -      | \$ -       | \$ -        | \$ 125.00    | \$ 257.00    | \$ 845.88        | \$ -      | \$ -       | \$ 1,102.88  | \$ 17,646.08  | \$ 2,646.91           | \$ -           | \$ -            | \$ 20,292.99   | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 4000     | D30105202040 |             |                    | Commercial building heating system, fin tube radiation, forced hot water, 100,000 SF, 1mil CF, total 3 floors         |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 3.35      | \$ -      | \$ -       | \$ -        | \$ 3.35      | \$ 2.12      | \$ 2.32          | \$ -      | \$ -       | \$ 4.44      | \$ 8,480.00   | \$ 9,280.00           | \$ -           | \$ -            | \$ 17,760.00   | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | Heating existing building level 1 and 2, and new addition basement, level 1 and level 2 |
| 4000     | D30201103320 |             |                    | Heating systems, CI boiler, gas, fin tube radiation, 544 MBH, 7,250 SF bldg   |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 11.69     | \$ -      | \$ -       | \$ -        | \$ 11.69     | \$ 7.70      | \$ 7.69          | \$ -      | \$ -       | \$ 15.39     | \$ 30,800.00  | \$ 30,760.00          | \$ -           | \$ -            | \$ 61,560.00   | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 1200     | D40104100580 |             |                    | Wet pipe sprinkler systems, steel, light hazard, 1 floor, 2000 SF   |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 8.38      | \$ -      | \$ -       | \$ -        | \$ 8.38      | \$ 8.38      | \$ 3.97          | \$ -      | \$ -       | \$ 12.35     | \$ 10,056.00  | \$ 4,764.00           | \$ -           | \$ -            | \$ 14,820.00   | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 1200     | D40104100700 |             |                    | Wet pipe sprinkler systems, steel, light hazard, each additional floor, 2000 SF                                       |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 2.38      | \$ -      | \$ -       | \$ -        | \$ 2.38      | \$ 1.25      | \$ 2.06          | \$ -      | \$ -       | \$ 3.31      | \$ 1,500.00   | \$ 2,472.00           | \$ -           | \$ -            | \$ 3,972.00    | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 1200     | D40104100700 |             |                    | Wet pipe sprinkler systems, steel, light hazard, each additional floor, 2000 SF                                       |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 2.38      | \$ -      | \$ -       | \$ -        | \$ 2.38      | \$ 1.25      | \$ 2.06          | \$ -      | \$ -       | \$ 3.31      | \$ 1,500.00   | \$ 2,472.00           | \$ -           | \$ -            | \$ 3,972.00    | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 1        | D40203100560 |             |                    | Wet standpipe risers, class I, steel, black, sch 40, 4" diam pipe, 1 floor  |      | 0            | 0           | Floor  | \$ -     | \$ -  | \$ -      | \$ 7,011.98  | \$ -      | \$ -       | \$ -        | \$ 7,011.98  | \$ 5,620.20  | \$ 3,122.25      | \$ -      | \$ -       | \$ 8,742.45  | \$ 5,620.20   | \$ 3,122.25           | \$ -           | \$ -            | \$ 8,742.45    | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 1        | D40203100580 |             |                    | Wet standpipe risers, class I, steel, black, sch 40, 4" diam pipe, additional floors                                  |      | 0            | 0           | Floor  | \$ -     | \$ -  | \$ -      | \$ 1,894.59  | \$ -      | \$ -       | \$ -        | \$ 1,894.59  | \$ 1,429.28  | \$ 966.54        | \$ -      | \$ -       | \$ 2,395.82  | \$ 1,429.28   | \$ 966.54             | \$ -           | \$ -            | \$ 2,395.82    | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 1        | D40203100580 |             |                    | Wet standpipe risers, class I, steel, black, sch 40, 4" diam pipe, additional floors                                  |      | 0            | 0           | Floor  | \$ -     | \$ -  | \$ -      | \$ 1,894.59  | \$ -      | \$ -       | \$ -        | \$ 1,894.59  | \$ 1,429.28  | \$ 966.54        | \$ -      | \$ -       | \$ 2,395.82  | \$ 1,429.28   | \$ 966.54             | \$ -           | \$ -            | \$ 2,395.82    | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 1        | D4000000000  | U           |                    | Pump to compensate for potential lack in pressure from well for sprinkler system.                                     |      | 0            | 0           | Ea.    | \$ -     | \$ -  | \$ -      | \$ 15,000.00 | \$ -      | \$ -       | \$ -        | \$ 15,000.00 | \$ 11,000.00 | \$ 5,500.00      | \$ -      | \$ -       | \$ 16,500.00 | \$ 11,000.00  | \$ 5,500.00           | \$ -           | \$ -            | \$ 16,500.00   | USER       | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 19       | 09000000000  | U           |                    | Storm windows   |      | 0            | 0           | Ea.    | \$ -     | \$ -  | \$ -      | \$ 240.00    | \$ -      | \$ -       | \$ -        | \$ 240.00    | \$ 232.00    | \$ 232.00        | \$ -      | \$ -       | \$ 464.00    | \$ 4,408.00   | \$ 4,408.00           | \$ -           | \$ -            | \$ 8,816.00    | USER       | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 0        | D50309100450 |             |                    | Communication and alarm systems, fire detection, addressable, 12 detectors, includes outlets, boxes, conduit and wire |      | 0            | 0           | Ea.    | \$ -     | \$ -  | \$ -      | \$ 8,551.08  | \$ -      | \$ -       | \$ -        | \$ 8,551.08  | \$ 5,275.00  | \$ 6,167.88      | \$ -      | \$ -       | \$ 11,442.88 | \$ -          | \$ -                  | \$ -           | \$ -            | \$ 15,000.00   | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |
| 0        | D50309100458 |             |                    | Fire alarm control panel, 8 zone, excluding wire and conduit  |      | 0            | 0           | Ea.    | \$ -     | \$ -  | \$ -      | \$ 1,569.94  | \$ -      | \$ -       | \$ -        | \$ 1,569.94  | \$ 945.00    | \$ 1,158.05      | \$ -      | \$ -       | \$ 2,103.05  | \$ -          | \$ -                  | \$ -           | \$ -            | \$ 10,000.00   | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |   |

**Assembly Cost Total** \$ 66,567.79 \$ - \$ - \$ - \$ 170,510.47 \$ 49,213.50 \$ 32,018.05 \$ - \$ - \$ 81,231.55 \$ 134,799.34 \$ 107,686.34 \$ - \$ - \$ 267,485.68  
**Grand Total** \$ 77,360.06 \$ 10,822.11 \$ 17,360.80 \$ 688.40 \$ 199,380.58 \$ 55,173.39 \$ 32,018.05 \$ 6,116.52 \$ 0.99 \$ 93,308.95 \$ 146,695.45 \$ 107,686.34 \$ 26,013.39 \$ 778.00 \$ 306,177.59

Mechanics Hall PHASE 2B RENOVATION OF LEVEL 2

Main St.  
Princeton MA 01541

Data Release :Year 2017

Assembly Cost Estimate

| Quantity     | Assembly Number | Line S | SubCo | Description  | Unit | Material O&P | Installation O&P | Total O&P | Ext. Material O&P   | Ext. Installation O&P | Ext. Total O&P      | Labor Type | Data Release | CCI Location                    | Notes |
|--------------|-----------------|--------|-------|--|------|--------------|------------------|-----------|---------------------|-----------------------|---------------------|------------|--------------|---------------------------------|-------|
| 1300         | C10101280700    |        |       | Gypsum board, 1 face only, exterior sheathing, fire resistant, 5/8"                        | S.F. | \$ 0.38      | \$ 0.69          | \$ 1.07   | \$ 494.00           | \$ 897.00             | \$ 1,391.00         | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |       |
| 1300         | C30102300140    |        |       | Painting, interior on plaster and drywall, walls & ceilings, roller work, primer & 2 coats | S.F. | \$ 0.21      | \$ 0.76          | \$ 0.97   | \$ 273.00           | \$ 988.00             | \$ 1,261.00         | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |       |
| 400          | C30102352060    |        |       | Painting, wood trim, to 6" wide, enamel, primer & 2 coats                                  | L.F. | \$ 0.22      | \$ 0.90          | \$ 1.12   | \$ 88.00            | \$ 360.00             | \$ 448.00           | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |       |
| 1200         | D50202140400    |        |       | Incandescent fixtures recess mounted, 100 FC, type A, 34 fixtures per 400 SF               | S.F. | \$ 13.70     | \$ 18.43         | \$ 32.13  | \$ 16,440.00        | \$ 22,116.00          | \$ 38,556.00        | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |       |
| 4            | D60000000000    | U      |       | Large low velocity ceiling fans  | Ea.  | \$ 660.00    | \$ 220.00        | \$ 880.00 | \$ 2,640.00         | \$ 880.00             | \$ 3,520.00         | USER       | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |       |
| <b>Total</b> |                 |        |       |  |      |              |                  |           | <b>\$ 19,935.00</b> | <b>\$ 25,241.00</b>   | <b>\$ 45,176.00</b> |            |              |                                 |       |

Mechanics Hall PHASE 3 NEW ADDITION

Main Street  
Princeton MA 01541

Data Release : Year 2017

Unit Cost Lines

| Quantity               | LineNumber   | Line Source | SubContracted Ind. | Description                          | Crew | Daily Output | Labor Hours | Unit | Material | Labor       | Equipment   | Total              | Ext. Mat.   | Ext. Labor         | Ext. Equip.        | Ext. Total         | Mat. O&P    | Installation O&P | Labor O&P          | Equip. O&P         | Total O&P          | Ext. Mat. O&P | Ext. Installation O&P | Ext. Labor O&P     | Ext. Equip. O&P    | Ext. Total O&P     | Labor Type | Data Release | CCI Location                    | Notes |  |  |  |  |  |  |  |  |  |
|------------------------|--------------|-------------|--------------------|--------------------------------------|------|--------------|-------------|------|----------|-------------|-------------|--------------------|-------------|--------------------|--------------------|--------------------|-------------|------------------|--------------------|--------------------|--------------------|---------------|-----------------------|--------------------|--------------------|--------------------|------------|--------------|---------------------------------|-------|--|--|--|--|--|--|--|--|--|
| 1                      | 011111111111 | U           |                    | Demolition of existing rear addition |      | 0            | 0           | Ea.  | \$ -     | \$ 2,500.00 | \$ 3,840.00 | \$ 6,340.00        | \$ -        | \$ 2,500.00        | \$ 3,840.00        | \$ 6,340.00        | \$ -        | \$ -             | \$ 4,100.00        | \$ 4,216.00        | \$ 8,316.00        | \$ -          | \$ -                  | \$ 4,100.00        | \$ 4,216.00        | \$ 8,316.00        | USER       | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |       |  |  |  |  |  |  |  |  |  |
| <b>Unit Cost Total</b> |              |             |                    |                                      |      |              |             |      |          |             |             | <b>\$ 6,340.00</b> | <b>\$ -</b> | <b>\$ 2,500.00</b> | <b>\$ 3,840.00</b> | <b>\$ 6,340.00</b> | <b>\$ -</b> | <b>\$ -</b>      | <b>\$ 4,100.00</b> | <b>\$ 4,216.00</b> | <b>\$ 8,316.00</b> | <b>\$ -</b>   | <b>\$ -</b>           | <b>\$ 4,100.00</b> | <b>\$ 4,216.00</b> | <b>\$ 8,316.00</b> |            |              |                                 |       |  |  |  |  |  |  |  |  |  |

Data Release : Year 2017

Assembly Cost Lines

| Quantity | LineNumber   | Line Source | SubContracted Ind. | Description  | Crew | Daily Output | Labor Hours | Unit   | Material | Labor | Equipment | Total         | Ext. Mat. | Ext. Labor | Ext. Equip. | Ext. Total    | Mat. O&P     | Installation O&P | Labor O&P   | Equip. O&P | Total O&P     | Ext. Mat. O&P | Ext. Installation O&P | Ext. Labor O&P | Ext. Equip. O&P | Ext. Total O&P | Labor Type   | Data Release                    | CCI Location                    | Notes  |                                |
|----------|--------------|-------------|--------------------|--|------|--------------|-------------|--------|----------|-------|-----------|---------------|-----------|------------|-------------|---------------|--------------|------------------|-------------|------------|---------------|---------------|-----------------------|----------------|-----------------|----------------|--------------|---------------------------------|---------------------------------|--|--------------------------------|
| 112      | A10101102700 |             |                    | Strip footing, concrete, reinforced, load 11.1 KLF, soil bearing capacity 6 KSF, 12" deep x 24" wide                         |      | 0            | 0           | L.F.   | \$ -     | \$ -  | \$ -      | \$ 38.61      | \$ -      | \$ -       | \$ -        | \$ 38.61      | \$ 24.83     | \$ 35.02         | \$ -        | \$ -       | \$ 59.85      | \$ 2,780.96   | \$ 3,922.24           | \$ -           | \$ -            | \$ 6,703.20    | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |  |                                |
| 75       | A10103103100 |             |                    | Foundation underdrain, outside and inside, PVC, 6" diameter  |      | 0            | 0           | L.F.   | \$ -     | \$ -  | \$ -      | \$ 16.10      | \$ -      | \$ -       | \$ -        | \$ 16.10      | \$ 10.18     | \$ 11.18         | \$ -        | \$ -       | \$ 21.36      | \$ 763.50     | \$ 838.50             | \$ -           | \$ -            | \$ 1,602.00    | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |  |                                |
| 75       | A10103201000 |             |                    | Foundation waterproofing, bituminous, 1 coat, 4" high  |      | 0            | 0           | L.F.   | \$ -     | \$ -  | \$ -      | \$ 3.60       | \$ -      | \$ -       | \$ -        | \$ 3.60       | \$ 270.00    | \$ 0.82          | \$ 5.15     | \$ -       | \$ 5.97       | \$ 61.50      | \$ 386.25             | \$ -           | \$ -            | \$ 447.75      | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |  |                                |
| 650      | A10301202240 |             |                    | Slab on grade, 4" thick, non industrial, reinforced  |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 3.97       | \$ -      | \$ -       | \$ -        | \$ 3.97       | \$ 2,580.50  | \$ 2.05          | \$ 3.40     | \$ -       | \$ 5.45       | \$ 1,332.50   | \$ 2,210.00           | \$ -           | \$ -            | \$ 3,542.50    | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |  |                                |
| 500      | A20101102280 |             |                    | Excavate and fill, 1000 SF 8' deep, sand, gravel, or common earth, on site storage   |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 5.05       | \$ -      | \$ -       | \$ -        | \$ 5.05       | \$ -         | \$ 6.29          | \$ -        | \$ -       | \$ 6.29       | \$ -          | \$ 3,145.00           | \$ -           | \$ -            | \$ 3,145.00    | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) | For new addition foundation - excludes retaining walls and site work |                                |
| 1300     | B20101116100 |             |                    | Concrete block (CMU) wall, regular weight, 75% solid, 6 x 8 x 16, 2000 PSI, reinforced, vertical #4@48", grouted             |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 8.21       | \$ -      | \$ -       | \$ -        | \$ 8.21       | \$ 10,673.00 | \$ 3.28          | \$ 8.78     | \$ -       | \$ -          | \$ 12.06      | \$ 4,264.00           | \$ 11,414.00   | \$ -            | \$ -           | \$ 15,678.00 | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 1280     | B10102642500 |             |                    | Wood beam and joist floor, 10"x16" girder, 5"x12" beam, 2x6 joists @ 16", 15x20 bay, 40 PSF LL, 58 PSF total load            |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 12.56      | \$ -      | \$ -       | \$ -        | \$ 12.56      | \$ 16,076.80 | \$ 10.37         | \$ 5.20     | \$ -       | \$ -          | \$ 15.57      | \$ 13,273.60          | \$ 6,656.00    | \$ -            | \$ -           | \$ 19,929.60 | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      | First and Second floor framing |
| 650      | B10201023750 |             |                    | Wood roof, flat rafter, 2" x 10", 16" O.C.   |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 2.80       | \$ -      | \$ -       | \$ -        | \$ 2.80       | \$ 1,820.00  | \$ 1.72          | \$ 2.05     | \$ -       | \$ -          | \$ 3.77       | \$ 1,118.00           | \$ 1,332.50    | \$ -            | \$ -           | \$ 2,450.50  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 60       | B10201022900 |             |                    | Wood roof, flat rafter, 2" x 6", 12" O.C.  |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 2.36       | \$ -      | \$ -       | \$ -        | \$ 2.36       | \$ 141.60    | \$ 1.28          | \$ 1.99     | \$ -       | \$ -          | \$ 3.27       | \$ 76.80              | \$ 119.40      | \$ -            | \$ -           | \$ 196.20    | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 1300     | B20101484950 |             |                    | Wood siding, 2"x6" studs 16"OC, insulated wall, 8" fiber cement siding   |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 10.97      | \$ -      | \$ -       | \$ -        | \$ 10.97      | \$ 14,261.00 | \$ 4.35          | \$ 12.19    | \$ -       | \$ -          | \$ 16.54      | \$ 5,655.00           | \$ 15,847.00   | \$ -            | \$ -           | \$ 21,502.00 | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 13       | B20201023100 |             |                    | Windows, wood, double hung, insulated glass, 2'-6" x 4'-6"   |      | 0            | 0           | Ea.    | \$ -     | \$ -  | \$ -      | \$ 399.02     | \$ -      | \$ -       | \$ -        | \$ 399.02     | \$ 5,187.26  | \$ 243.67        | \$ 299.64   | \$ -       | \$ -          | \$ 543.31     | \$ 3,167.71           | \$ 3,895.32    | \$ -            | \$ -           | \$ 7,063.03  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 1        | B20301107100 |             |                    | Door, aluminum & glass, with transom, full vision, hardware, 3'-0" x 10'-0" opening  |      | 0            | 0           | Opng   | \$ -     | \$ -  | \$ -      | \$ 3,675.13   | \$ -      | \$ -       | \$ -        | \$ 3,675.13   | \$ 2,930.53  | \$ 1,804.65      | \$ -        | \$ -       | \$ 4,735.18   | \$ 2,930.53   | \$ 1,804.65           | \$ -           | \$ -            | \$ 4,735.18    | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |  |                                |
| 2        | B20302203350 |             |                    | Door, steel 18 gauge, hollow metal, 1 door with frame, no label, 2'-6" x 7'-0" opening                                       |      | 0            | 0           | Opng   | \$ -     | \$ -  | \$ -      | \$ 1,548.18   | \$ -      | \$ -       | \$ -        | \$ 1,548.18   | \$ 3,096.36  | \$ 1,453.73      | \$ 389.53   | \$ -       | \$ -          | \$ 1,843.26   | \$ 2,907.46           | \$ 779.06      | \$ -            | \$ -           | \$ 3,686.52  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 650      | B30101202000 |             |                    | Roofing, single ply membrane, EPDM, 45mls, fully adhered   |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 1.75       | \$ -      | \$ -       | \$ -        | \$ 1.75       | \$ 1,137.50  | \$ 1.23          | \$ 1.11     | \$ -       | \$ -          | \$ 2.34       | \$ 799.50             | \$ 721.50      | \$ -            | \$ -           | \$ 1,521.00  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 650      | B30102202050 |             |                    | Insulation, rigid, roof deck, extruded polystyrene, 25 PSI compressive strength, 4" thick, R20                               |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 3.21       | \$ -      | \$ -       | \$ -        | \$ 3.21       | \$ 2,086.50  | \$ 3.16          | \$ 0.64     | \$ -       | \$ -          | \$ 3.80       | \$ 2,054.00           | \$ 416.00      | \$ -            | \$ -           | \$ 2,470.00  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 24       | B30104102200 |             |                    | Base flashing, sheet metal, galvanized, 20 ga, 24 ga galv reglet, 24 ga galv counter flashing                                |      | 0            | 0           | L.F.   | \$ -     | \$ -  | \$ -      | \$ 35.14      | \$ -      | \$ -       | \$ -        | \$ 35.14      | \$ 843.36    | \$ 12.59         | \$ 39.87    | \$ -       | \$ -          | \$ 52.46      | \$ 302.16             | \$ 956.88      | \$ -            | \$ -           | \$ 1,259.04  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 90       | B30104202700 |             |                    | Roof edges, sheet metal, galvanized, 20 ga, 4" base  |      | 0            | 0           | L.F.   | \$ -     | \$ -  | \$ -      | \$ 23.69      | \$ -      | \$ -       | \$ -        | \$ 23.69      | \$ 17.58     | \$ 13.11         | \$ -        | \$ -       | \$ 30.69      | \$ 1,582.20   | \$ 1,719.90           | \$ -           | \$ -            | \$ 2,762.10    | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |  |                                |
| 60       | B30106200100 |             |                    | Downspout, aluminum, rectangular, 2" x 3", embossed mill finish, .020" thick   |      | 0            | 0           | L.F.   | \$ -     | \$ -  | \$ -      | \$ 3.27       | \$ -      | \$ -       | \$ -        | \$ 3.27       | \$ 196.20    | \$ 1.19          | \$ 3.65     | \$ -       | \$ -          | \$ 4.84       | \$ 71.40              | \$ 219.00      | \$ -            | \$ -           | \$ 290.40    | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 1240     | C10101241200 |             |                    | Wood partition, 5/8" fire rated gypsum board face, none base 2" x 4" @ 16" OC framing, same opposite face, 0 insul           |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 3.64       | \$ -      | \$ -       | \$ -        | \$ 3.64       | \$ 4,513.60  | \$ 1.31          | \$ 4.13     | \$ -       | \$ -          | \$ 5.44       | \$ 1,624.40           | \$ 5,121.20    | \$ -            | \$ -           | \$ 6,745.60  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 3        | C10201141020 |             |                    | Metal door/metal frame, flush-hollow core, 20 ga full panel, 3'-0" x 7'-0", butt weld frame, 8-3/4"                          |      | 0            | 0           | Ea.    | \$ -     | \$ -  | \$ -      | \$ 1,091.69   | \$ -      | \$ -       | \$ -        | \$ 1,091.69   | \$ 3,275.07  | \$ 846.95        | \$ 533.25   | \$ -       | \$ -          | \$ 1,380.20   | \$ 2,540.85           | \$ 1,599.75    | \$ -            | \$ -           | \$ 4,140.60  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 4        | C10201205000 |             |                    | Wood door/wood frame, solid core/flush type, birch face, 3'-0" x 7'-0", pine frame, 3-5/8"                                   |      | 0            | 0           | Ea.    | \$ -     | \$ -  | \$ -      | \$ 545.18     | \$ -      | \$ -       | \$ -        | \$ 545.18     | \$ 2,180.72  | \$ 392.37        | \$ 309.15   | \$ -       | \$ -          | \$ 701.52     | \$ 1,569.48           | \$ 1,236.60    | \$ -            | \$ -           | \$ 2,806.08  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 4        | C10203100160 |             |                    | Hinges, full mortise, average frequency, steel base, 4-1/2" x 4-1/2" USP   |      | 0            | 0           | Ea.    | \$ -     | \$ -  | \$ -      | \$ 18.90      | \$ -      | \$ -       | \$ -        | \$ 18.90      | \$ 75.60     | \$ 21.05         | \$ -        | \$ -       | \$ 21.05      | \$ 84.20      | \$ -                  | \$ -           | \$ 84.20        | OPN            | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                                 |  |                                |
| 2        | C20101100740 |             |                    | Stairs, steel, pan tread for conc in-fill, picket rail, 16 risers w/ landing   |      | 0            | 0           | Flight | \$ -     | \$ -  | \$ -      | \$ 14,112.35  | \$ -      | \$ -       | \$ -        | \$ 14,112.35  | \$ 28,224.70 | \$ 13,972.20     | \$ 2,433.75 | \$ -       | \$ -          | \$ 16,405.95  | \$ 27,944.40          | \$ 4,867.50    | \$ -            | \$ -           | \$ 32,811.90 | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 7900     | C30102300060 |             |                    | Painting, interior on plaster and drywall, brushwork, primer & 1 coat  |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 0.66       | \$ -      | \$ -       | \$ -        | \$ 0.66       | \$ 5,214.00  | \$ 0.13          | \$ 0.88     | \$ -       | \$ -          | \$ 1.01       | \$ 1,027.00           | \$ 6,952.00    | \$ -            | \$ -           | \$ 7,979.00  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 1920     | C30102300120 |             |                    | Painting, interior on plaster and drywall, walls & ceilings, roller work, primer & 1 coat                                    |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 0.47       | \$ -      | \$ -       | \$ -        | \$ 0.47       | \$ 902.40    | \$ 0.13          | \$ 0.58     | \$ -       | \$ -          | \$ 0.71       | \$ 249.60             | \$ 1,113.60    | \$ -            | \$ -           | \$ 1,363.20  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 1070     | C30102352040 |             |                    | Painting, wood trim, to 6" wide, enamel, primer & 1 coat   |      | 0            | 0           | L.F.   | \$ -     | \$ -  | \$ -      | \$ 0.56       | \$ -      | \$ -       | \$ -        | \$ 0.56       | \$ 599.20    | \$ 0.44          | \$ 0.72     | \$ -       | \$ -          | \$ 1.16       | \$ 470.80             | \$ 770.40      | \$ -            | \$ -           | \$ 1,241.20  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 650      | C30204100620 |             |                    | Concrete topping, granolithic concrete, 1" thick   |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 4.11       | \$ -      | \$ -       | \$ -        | \$ 4.11       | \$ 2,671.50  | \$ 0.73          | \$ 5.46     | \$ -       | \$ -          | \$ 6.19       | \$ 474.50             | \$ 3,549.00    | \$ -            | \$ -           | \$ 4,023.50  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 1100     | C30204102160 |             |                    | Oak strip, sanded and finished, minimum  |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 7.60       | \$ -      | \$ -       | \$ -        | \$ 7.60       | \$ 8,360.00  | \$ 4.54          | \$ 5.82     | \$ -       | \$ -          | \$ 10.36      | \$ 4,994.00           | \$ 6,402.00    | \$ -            | \$ -           | \$ 11,396.00 | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 1100     | C30204102360 |             |                    | Underlayment, plywood, 5/8" thick  |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 1.90       | \$ -      | \$ -       | \$ -        | \$ 1.90       | \$ 2,090.00  | \$ 1.45          | \$ 1.07     | \$ -       | \$ -          | \$ 2.42       | \$ 1,595.00           | \$ 1,067.00    | \$ -            | \$ -           | \$ 2,662.00  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 1900     | C30301105100 |             |                    | Gypsum board ceilings, 5/8" fire rated gypsum board, painted and textured finish, 1" x 3" wood, 16" OC furring, wood support |      | 0            | 0           | S.F.   | \$ -     | \$ -  | \$ -      | \$ 3.44       | \$ -      | \$ -       | \$ -        | \$ 3.44       | \$ 6,536.00  | \$ 0.94          | \$ 4.29     | \$ -       | \$ -          | \$ 5.23       | \$ 1,786.00           | \$ 8,151.00    | \$ -            | \$ -           | \$ 9,937.00  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 1        | D10101101400 |             |                    | Hydraulic, passenger elevator, 1500 lb, 5 floors, 100 FPM  |      | 0            | 0           | Ea.    | \$ -     | \$ -  | \$ -      | \$ 105,296.50 | \$ -      | \$ -       | \$ -        | \$ 105,296.50 | \$ 85,500.00 | \$ 45,262.50     | \$ -        | \$ -       | \$ 130,762.50 | \$ 85,500.00  | \$ 45,262.50          | \$ -           | \$ -            | \$ 130,762.50  | OPN          | Year 2017                       | MASSACHUSETTS / FITCHBURG (014) |  |                                |
| 1        | D20104102120 |             |                    | Kitchen sink w/trim, countertop, steel, enameled, 24" x 21" single bowl  |      | 0            | 0           | Ea.    | \$ -     | \$ -  | \$ -      | \$ 1,220.46   | \$ -      | \$ -       | \$ -        | \$ 1,220.46   | \$ 1,220.46  | \$ 852.72        | \$ 733.05   | \$ -       | \$ -          | \$ 1,585.77   | \$ 852.72             | \$ 733.05      | \$ -            | \$ -           | \$ 1,585.77  | OPN                             | Year 2017                       | MASSACHUSETTS / FITCHBURG (014)                                      |                                |
| 80       | D20908101220 |             |                    | Copper tubing, hard temper, solder, type K, 1/2" diameter  |      | 0            | 0           | L.F.   | \$ -     | \$ -  | \$ -      | \$ 9.42       | \$ -      | \$ -       | \$ -        |               |              |                  |             |            |               |               |                       |                |                 |                |              |                                 |                                 |  |                                |

| Quantity                   | LineNumber   | Line Source | SubContracted Ind. | Description   | Crew | Daily Output | Labor Hours | Unit | Material | Labor | Equipment | Total         | Ext. Mat. | Ext. Labor  | Ext. Equip. | Ext. Total    | Mat. O&P      | Installation O&P | Labor O&P   | Equip. O&P  | Total O&P     | Ext. Mat. O&P | Ext. Installation O&P | Ext. Labor O&P | Ext. Equip. O&P | Ext. Total O&P | Labor Type | Data Release | CCI Location                    | Notes                         |
|----------------------------|--------------|-------------|--------------------|---|------|--------------|-------------|------|----------|-------|-----------|---------------|-----------|-------------|-------------|---------------|---------------|------------------|-------------|-------------|---------------|---------------|-----------------------|----------------|-----------------|----------------|------------|--------------|---------------------------------|-------------------------------|
| 0.5                        | G20409901006 |             |                    | 60,000 SF 2-story Office Bldg Stormwater Management   |      |              | 0           | Ea.  | \$ -     | \$ -  | \$ -      | \$ 242,910.40 | \$ -      | \$ -        | \$ -        | \$ 121,455.20 | \$ 230,736.50 | \$ 53,915.40     | \$ -        | \$ -        | \$ 284,651.90 | \$ 115,368.25 | \$ 26,957.70          | \$ -           | \$ -            | \$ 142,325.95  | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                               |
| 0.25                       | G20409901014 |             |                    | 60,000 SF 2-story Office Bldg Basic Landscaping   |      |              | 0           | Ea.  | \$ -     | \$ -  | \$ -      | \$ 86,393.80  | \$ -      | \$ -        | \$ -        | \$ 21,598.45  | \$ 65,254.50  | \$ 41,580.70     | \$ -        | \$ -        | \$ 106,835.20 | \$ 16,313.63  | \$ 10,395.18          | \$ -           | \$ -            | \$ 26,708.81   | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                               |
| 26                         | A10101102900 |             |                    | Strip footing, concrete, reinforced, load 6.8 KLF, soil bearing capacity 3 KSF, 12" deep x 32" wide |      |              | 0           | L.F. | \$ -     | \$ -  | \$ -      | \$ 32.87      | \$ -      | \$ -        | \$ -        | \$ 854.62     | \$ 18.13      | \$ 27.26         | \$ -        | \$ -        | \$ 45.39      | \$ 471.38     | \$ 708.76             | \$ -           | \$ -            | \$ 1,180.14    | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | Retaining Walls               |
| 26                         | A10103101000 |             |                    | Foundation underdrain, outside only, PVC, 4" diameter   |      |              | 0           | L.F. | \$ -     | \$ -  | \$ -      | \$ 7.84       | \$ -      | \$ -        | \$ -        | \$ 203.84     | \$ 5.06       | \$ 5.03          | \$ -        | \$ -        | \$ 10.09      | \$ 131.56     | \$ 130.78             | \$ -           | \$ -            | \$ 262.34      | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | Drainage for retaining walls. |
| 26                         | A10101053200 |             |                    | Foundation wall, CIP, 6' wall height, pumped, 111 CY/LF, 4.95 PLF, 6" thick                         |      |              | 0           | L.F. | \$ -     | \$ -  | \$ -      | \$ 70.54      | \$ -      | \$ -        | \$ -        | \$ 1,834.04   | \$ 22.25      | \$ 83.36         | \$ -        | \$ -        | \$ 105.61     | \$ 578.50     | \$ 2,167.36           | \$ -           | \$ -            | \$ 2,745.86    | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) | Retaining wall                |
| 500                        | D40104100530 |             |                    | Wet pipe sprinkler systems, steel, light hazard, 1 floor, 500 SF                                    |      |              | 0           | S.F. | \$ -     | \$ -  | \$ -      | \$ 5.36       | \$ -      | \$ -        | \$ -        | \$ 2,680.00   | \$ 5.88       | \$ 5.89          | \$ -        | \$ -        | \$ 11.77      | \$ 2,940.00   | \$ 2,945.00           | \$ -           | \$ -            | \$ 5,885.00    | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                               |
| 500                        | D40104100660 |             |                    | Wet pipe sprinkler systems, steel, light hazard, each additional floor, 500 SF                      |      |              | 0           | S.F. | \$ -     | \$ -  | \$ -      | \$ 2.58       | \$ -      | \$ -        | \$ -        | \$ 1,290.00   | \$ 1.22       | \$ 2.44          | \$ -        | \$ -        | \$ 3.66       | \$ 610.00     | \$ 1,220.00           | \$ -           | \$ -            | \$ 1,830.00    | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                               |
| 1500                       | D50201150200 |             |                    | Receptacle systems, underfloor duct, 5' on center, low density                                      |      |              | 0           | S.F. | \$ -     | \$ -  | \$ -      | \$ 8.55       | \$ -      | \$ -        | \$ -        | \$ 12,825.00  | \$ 7.50       | \$ 2.87          | \$ -        | \$ -        | \$ 10.37      | \$ 11,250.00  | \$ 4,305.00           | \$ -           | \$ -            | \$ 15,555.00   | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                               |
| 1500                       | D50201300200 |             |                    | Wall switches, 1.0 per 1000 SF  |      |              | 0           | S.F. | \$ -     | \$ -  | \$ -      | \$ 0.18       | \$ -      | \$ -        | \$ -        | \$ 270.00     | \$ 0.05       | \$ 0.21          | \$ -        | \$ -        | \$ 0.26       | \$ 75.00      | \$ 315.00             | \$ -           | \$ -            | \$ 390.00      | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                               |
| 1500                       | D50202140440 |             |                    | Incandescent fixtures recess mounted, 100 FC, type A, 49 fixtures per 600 SF                        |      |              | 0           | S.F. | \$ -     | \$ -  | \$ -      | \$ 23.18      | \$ -      | \$ -        | \$ -        | \$ 34,770.00  | \$ 13.30      | \$ 18.13         | \$ -        | \$ -        | \$ 31.43      | \$ 19,950.00  | \$ 27,195.00          | \$ -           | \$ -            | \$ 47,145.00   | OPN        | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                               |
| 300                        | G20000000000 | U           |                    | Fill for parking.   |      |              | 0           | C.Y. | \$ -     | \$ -  | \$ -      | \$ 40.00      | \$ -      | \$ -        | \$ -        | \$ 12,000.00  | \$ 33.00      | \$ 11.00         | \$ -        | \$ -        | \$ 44.00      | \$ 9,900.00   | \$ 3,300.00           | \$ -           | \$ -            | \$ 13,200.00   | USER       | Year 2017    | MASSACHUSETTS / FITCHBURG (014) |                               |
| <b>Assembly Cost Total</b> |              |             |                    |   |      |              |             |      |          |       |           | \$ 631,341.69 | \$ -      | \$ -        | \$ -        | \$ 572,014.26 | \$ 491,116.98 | \$ 286,772.31    | \$ -        | \$ -        | \$ 777,889.29 | \$ 418,334.40 | \$ 309,117.12         | \$ -           | \$ -            | \$ 727,451.52  |            |              |                                 |                               |
| <b>Grant Total</b>         |              |             |                    |   |      |              |             |      |          |       |           | \$ 637,681.69 | \$ -      | \$ 2,500.00 | \$ 3,840.00 | \$ 578,354.26 | \$ 491,116.98 | \$ 286,772.31    | \$ 4,100.00 | \$ 4,216.00 | \$ 786,205.29 | \$ 418,334.40 | \$ 309,117.12         | \$ 4,100.00    | \$ 4,216.00     | \$ 735,767.52  |            |              |                                 |                               |



# Mechanics Hall

## Preliminary Renovation Drawings



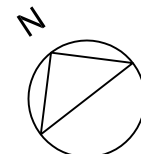
- Drawing List
- A001 Code Drawings
  - A101 Site Plan
  - A102 Basement Plan
  - A103 First Floor Plan
  - A104 Second Floor Plan
  - A105 Roof Plan
  - A201 Elevations
  - A202 Elevations
  - A203 Elevations
  - A301 Sections
  - A302 Sections

GENERAL NOTES:

1. DIMENSIONS OF EXISTING TO REMAIN SCOPE TO BE VERIFIED IN FIELD.
2. WRITTEN DIMENSIONS AND NOTES TAKE PRECEDENT OVER SCALED DRAWINGS.
3. DIMENSIONS TO LOCATE PARTITIONS ARE GIVEN TYPICALLY TO THE FINISHED FACE.
4. NEW PARTITIONS AND SURFACES THAT ARE SHOWN TO ALIGN WITH EXISTING SURFACES ARE TO BE ALIGNED AND FINISHED SMOOTH & FLUSH.
5. FURNITURE AND EQUIPMENT SHOWN DASHED IS N.I.C AND SHOWN FOR COORDINATION PURPOSES ONLY.
6. SITE CONDITIONS TAKE PRECEDENCE OVER ALL NOTES AND DRAWINGS

LEGEND:

- NEW DOOR
- EXISTING DOOR
- NEW WALL
- EXISTING WALL

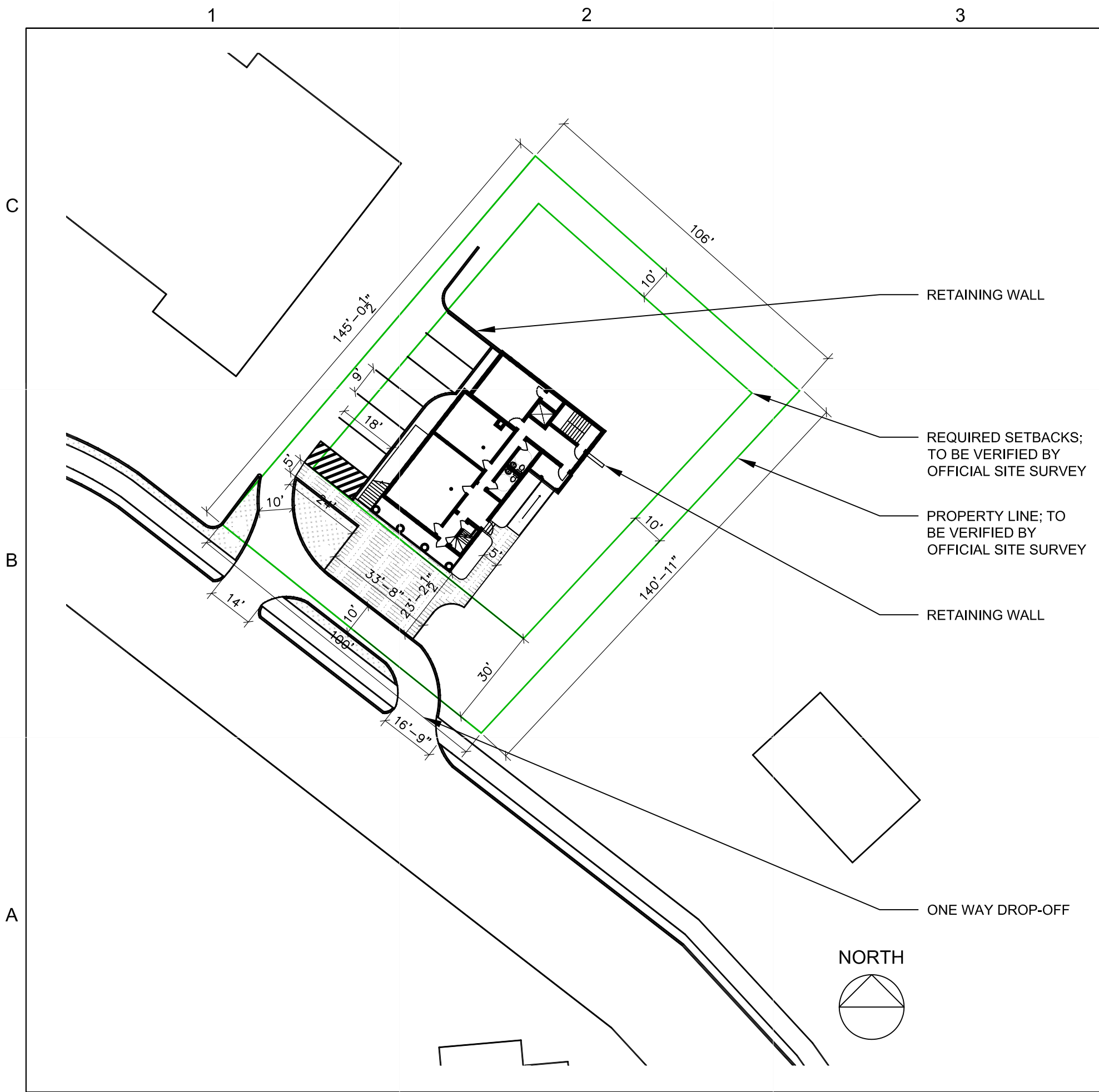


PRELIMINARY DRAWINGS.  
NOT FOR CONSTRUCTION.

Mechanics Hall  
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Friends of Mechanics Hall

meander  
Studio  
collaborative design

|                             |
|-----------------------------|
| Project Name: MECHANICSHALL |
| Project Number:             |
| Date: 12/20/2016            |
| Scale: 1/16"=1'0"           |
| Drawing Number              |
| Cover                       |



- GENERAL NOTES:
1. DIMENSIONS OF EXISTING TO REMAIN SCOPE TO BE VERIFIED IN FIELD.
  2. WRITTEN DIMENSIONS AND NOTES TAKE PRECEDENT OVER SCALED DRAWINGS.
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  6. SITE CONDITIONS TAKE PRECEDENCE OVER ALL NOTES AND DRAWINGS

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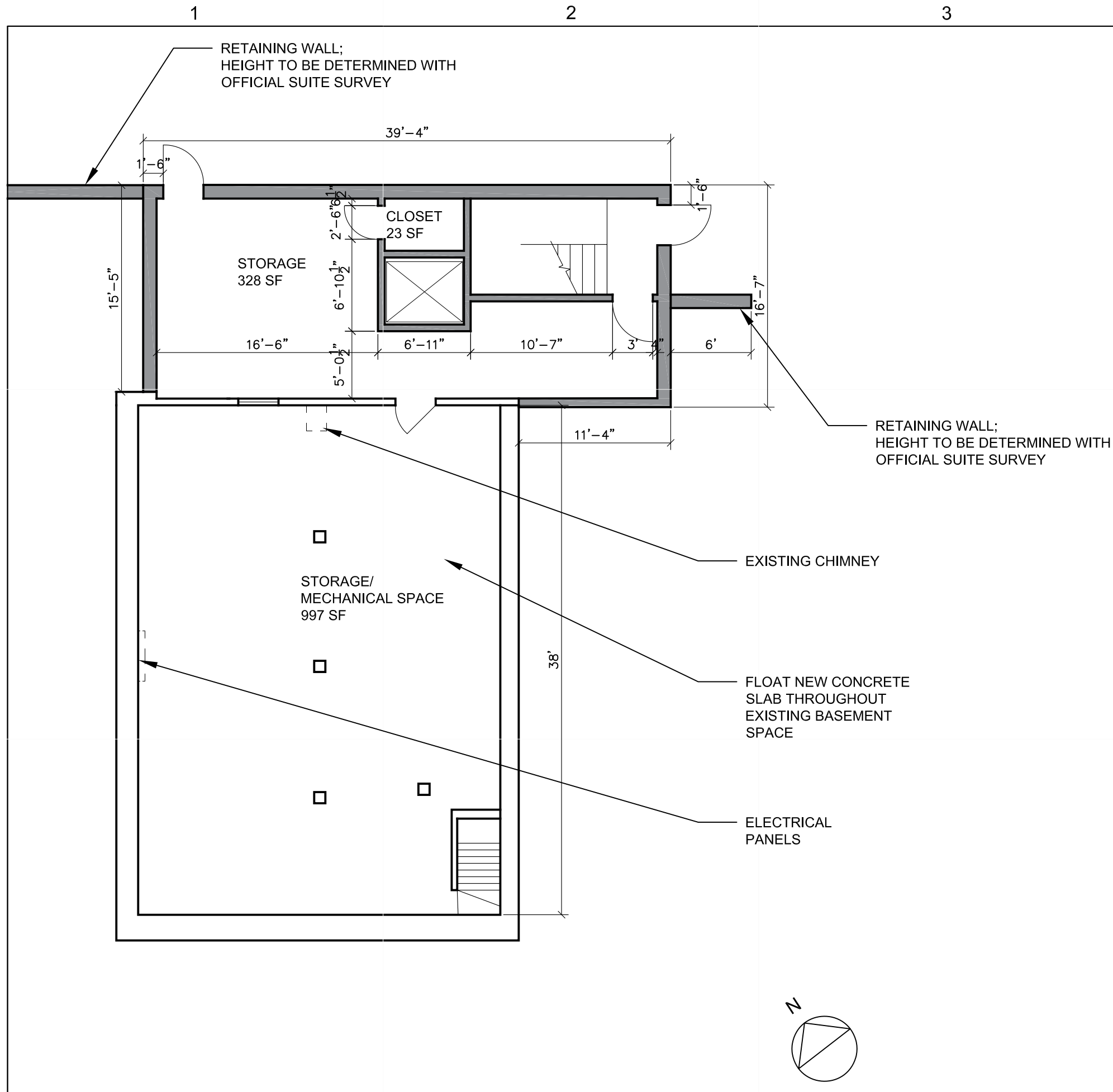
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
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| Project Name: MECHANICSHALL |
| Project Number:             |
| Date: 1/20/2016             |
| Scale: 1/32"=1'0"           |
| Drawing Number:             |

PRELIMINARY DRAWINGS.  
 NOT FOR CONSTRUCTION.

**A101**  
 SITE PLAN



- GENERAL NOTES:
1. DIMENSIONS OF EXISTING TO REMAIN SCOPE TO BE VERIFIED IN FIELD.
  2. WRITTEN DIMENSIONS AND NOTES TAKE PRECEDENT OVER SCALED DRAWINGS.
  3. DIMENSIONS TO LOCATE PARTITIONS ARE GIVEN TYPICALLY TO THE FINISHED FACE.
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  5. FURNITURE AND EQUIPMENT SHOWN DASHED IS N.I.C AND SHOWN FOR COORDINATION PURPOSES ONLY.
  6. SITE CONDITIONS TAKE PRECEDENCE OVER ALL NOTES AND DRAWINGS

- LEGEND:
-  NEW DOOR
  -  EXISTING DOOR
  -  NEW WALL
  -  EXISTING WALL

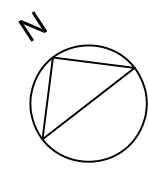
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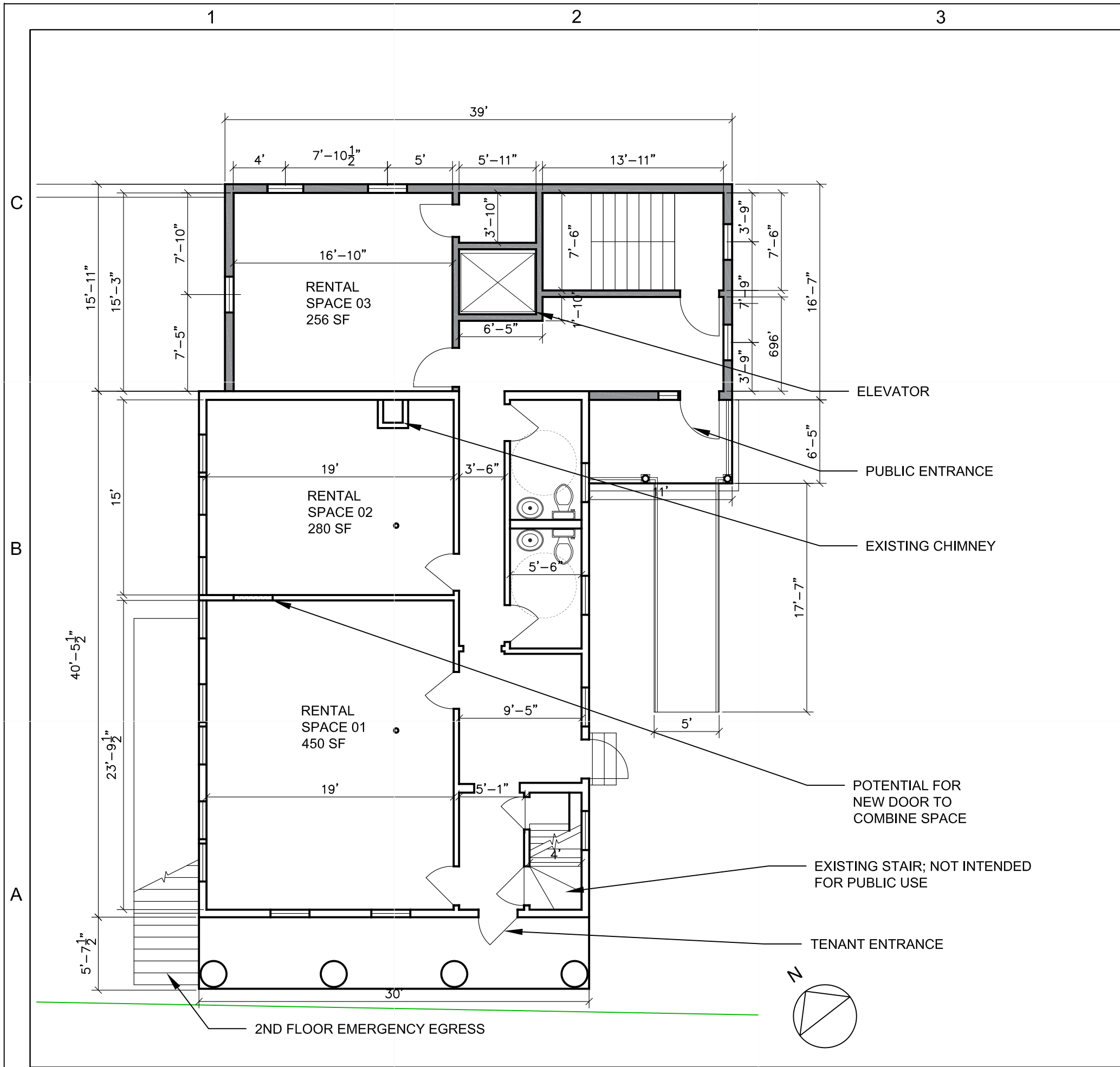
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Project Name: MECHANICSHALL  
Project Number:  
Date: 1/22/2016  
Scale: 1/8"=1'-0"

PRELIMINARY DRAWINGS.  
NOT FOR CONSTRUCTION.

Drawing Number  
**A102**  
BASEMENT FLOOR PLAN









**GENERAL NOTES:**

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6. SITE CONDITIONS TAKE PRECEDENCE OVER ALL NOTES AND DRAWINGS

**LEGEND:**

-  NEW DOOR
-  EXISTING DOOR
-  NEW WALL
-  EXISTING WALL

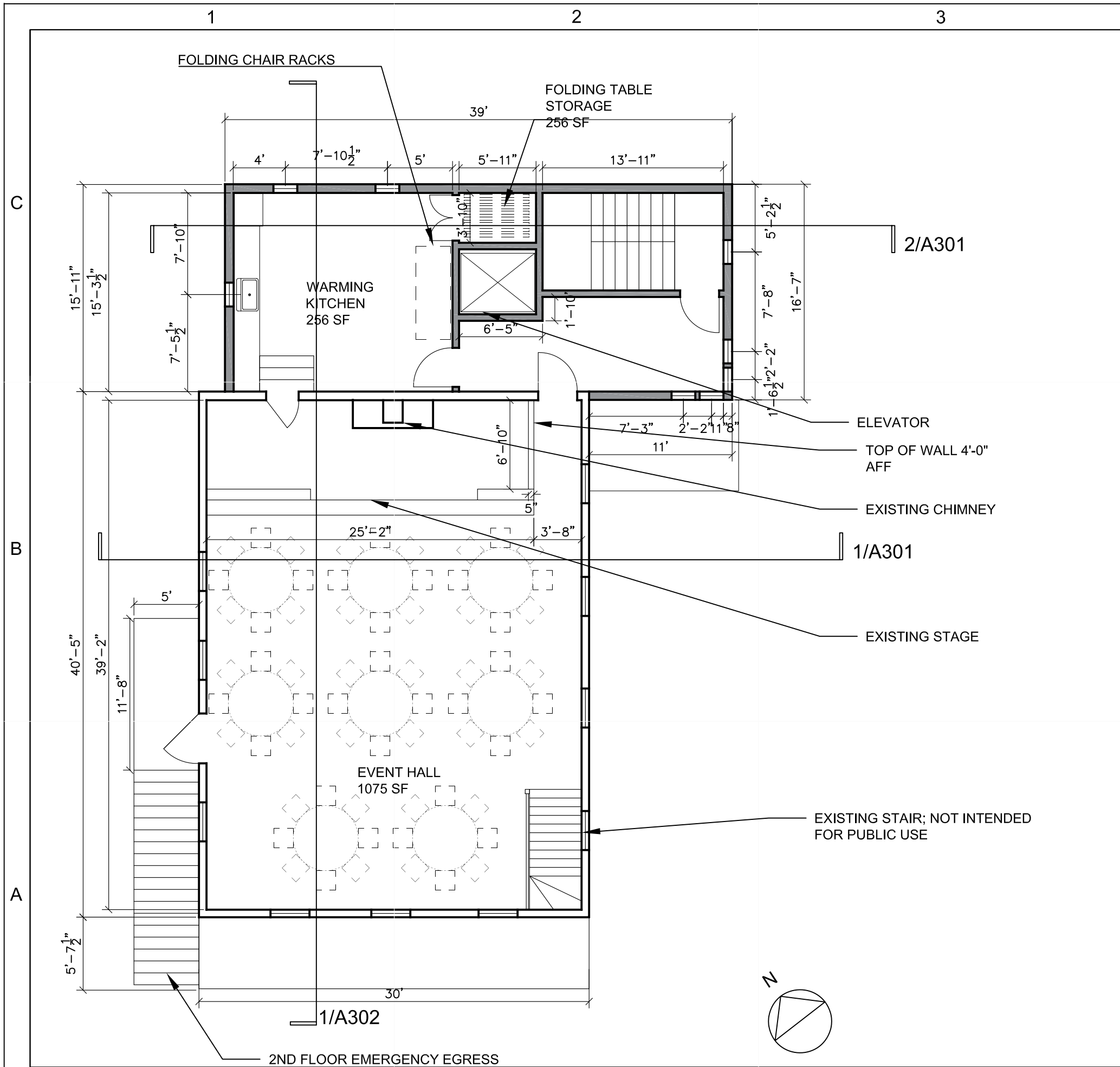
**PRELIMINARY DRAWINGS.  
NOT FOR CONSTRUCTION.**

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Project Name: MECHANICSHALL  
Project Number:  
Date: 12/20/2016  
Scale: 1/8"=1'-0"  
Drawing Number:





**A103**  
FIRST FLOOR PLAN



**GENERAL NOTES:**

1. DIMENSIONS OF EXISTING TO REMAIN SCOPE TO BE VERIFIED IN FIELD.
2. WRITTEN DIMENSIONS AND NOTES TAKE PRECEDENCE OVER SCALED DRAWINGS.
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5. FURNITURE AND EQUIPMENT SHOWN DASHED IS N.I.C AND SHOWN FOR COORDINATION PURPOSES ONLY.
6. SITE CONDITIONS TAKE PRECEDENCE OVER ALL NOTES AND DRAWINGS

**LEGEND:**

-  NEW DOOR
-  EXISTING DOOR
-  NEW WALL
-  EXISTING WALL

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Project Name: MECHANICSHALL  
 Project Number:  
 Date: 1/22/2016  
 Scale: 1/8"=1'-0"  
 Drawing Number

**PRELIMINARY DRAWINGS.  
 NOT FOR CONSTRUCTION.**

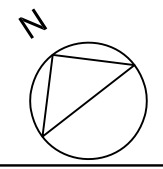
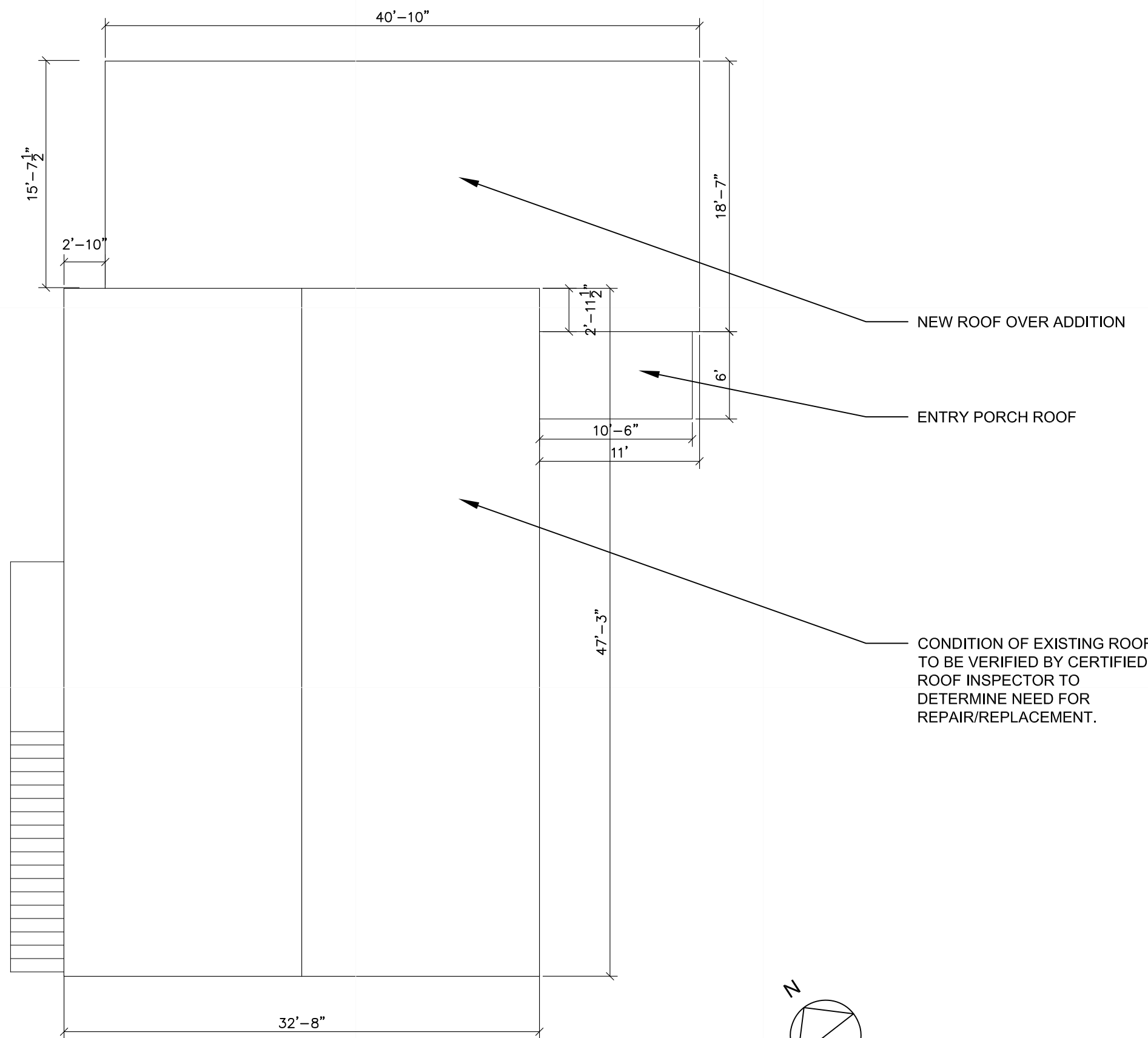
**A104**  
 SECOND FLOOR PLAN

1

2

3

4



- GENERAL NOTES:
1. DIMENSIONS OF EXISTING TO REMAIN SCOPE TO BE VERIFIED IN FIELD.
  2. WRITTEN DIMENSIONS AND NOTES TAKE PRECEDENT OVER SCALED DRAWINGS.
  3. DIMENSIONS TO LOCATE PARTITIONS ARE GIVEN TYPICALLY TO THE FINISHED FACE.
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  5. FURNITURE AND EQUIPMENT SHOWN DASHED IS N.I.C AND SHOWN FOR COORDINATION PURPOSES ONLY.
  6. SITE CONDITIONS TAKE PRECEDENCE OVER ALL NOTES AND DRAWINGS

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Project Name: MECHANICSHALL  
 Project Number: PROJECTNUMBER  
 Date: 12/20/2016  
 Scale: 1/8"=1'-0"

PRELIMINARY DRAWINGS.  
 NOT FOR CONSTRUCTION.

Drawing Number  
**A105**  
 ROOF PLAN

1

2

3

4

C



**1** SOUTHWEST ELEVATION.

SCALE:  $\frac{1}{8}'' = 1'-0''$

B

A

PRELIMINARY DRAWINGS.  
NOT FOR CONSTRUCTION.



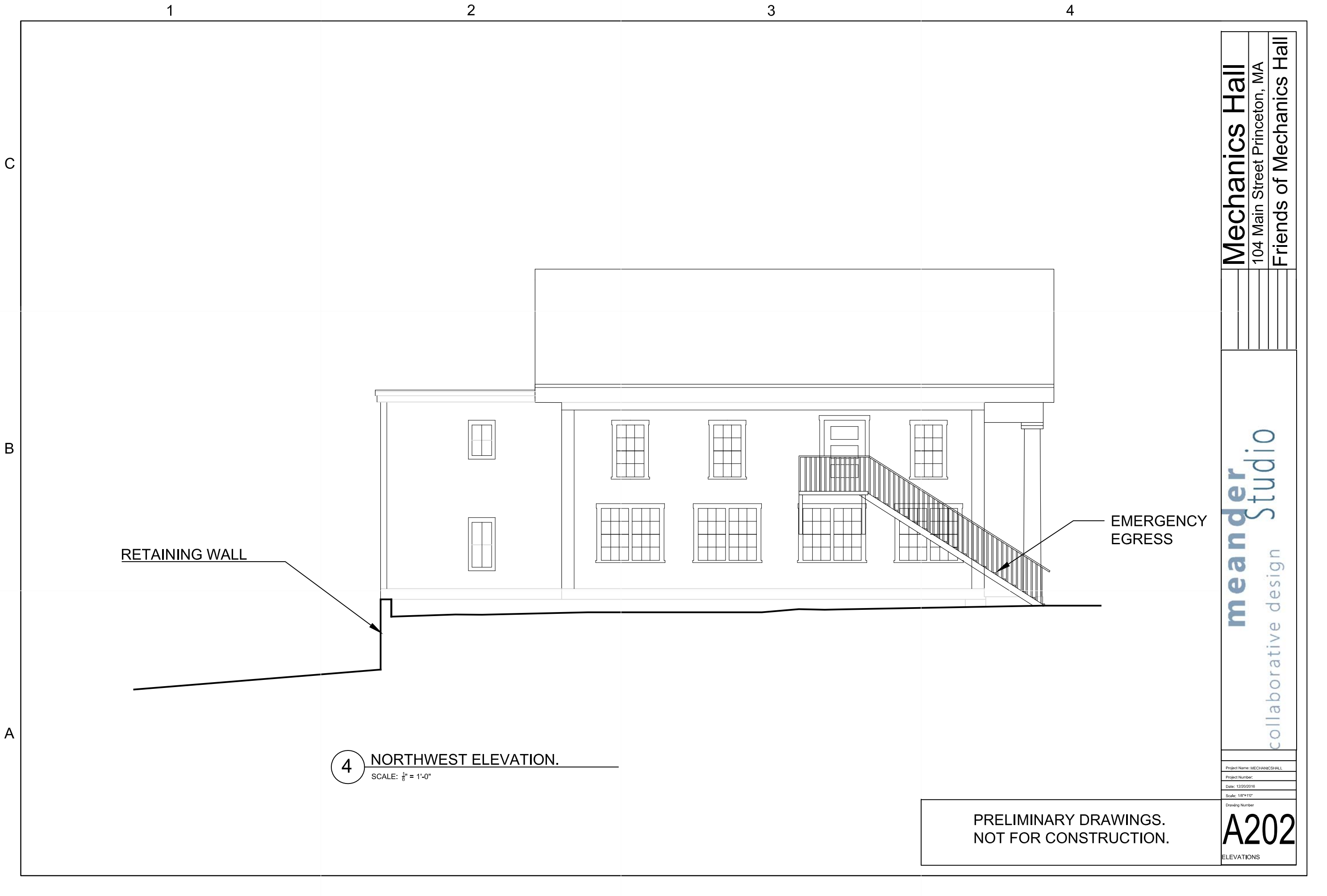
**2** SOUTHEAST ELEVATION.

SCALE:  $\frac{1}{8}'' = 1'-0''$

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Project Name: MECHANICSHALL  
Project Number:  
Date: DATE  
Scale: 1/8"=1'-0"  
Drawing Number:  
**A201**  
ELEVATIONS



RETAINING WALL

EMERGENCY  
EGRESS

**4** NORTHWEST ELEVATION.  
SCALE:  $\frac{1}{8}'' = 1'-0''$

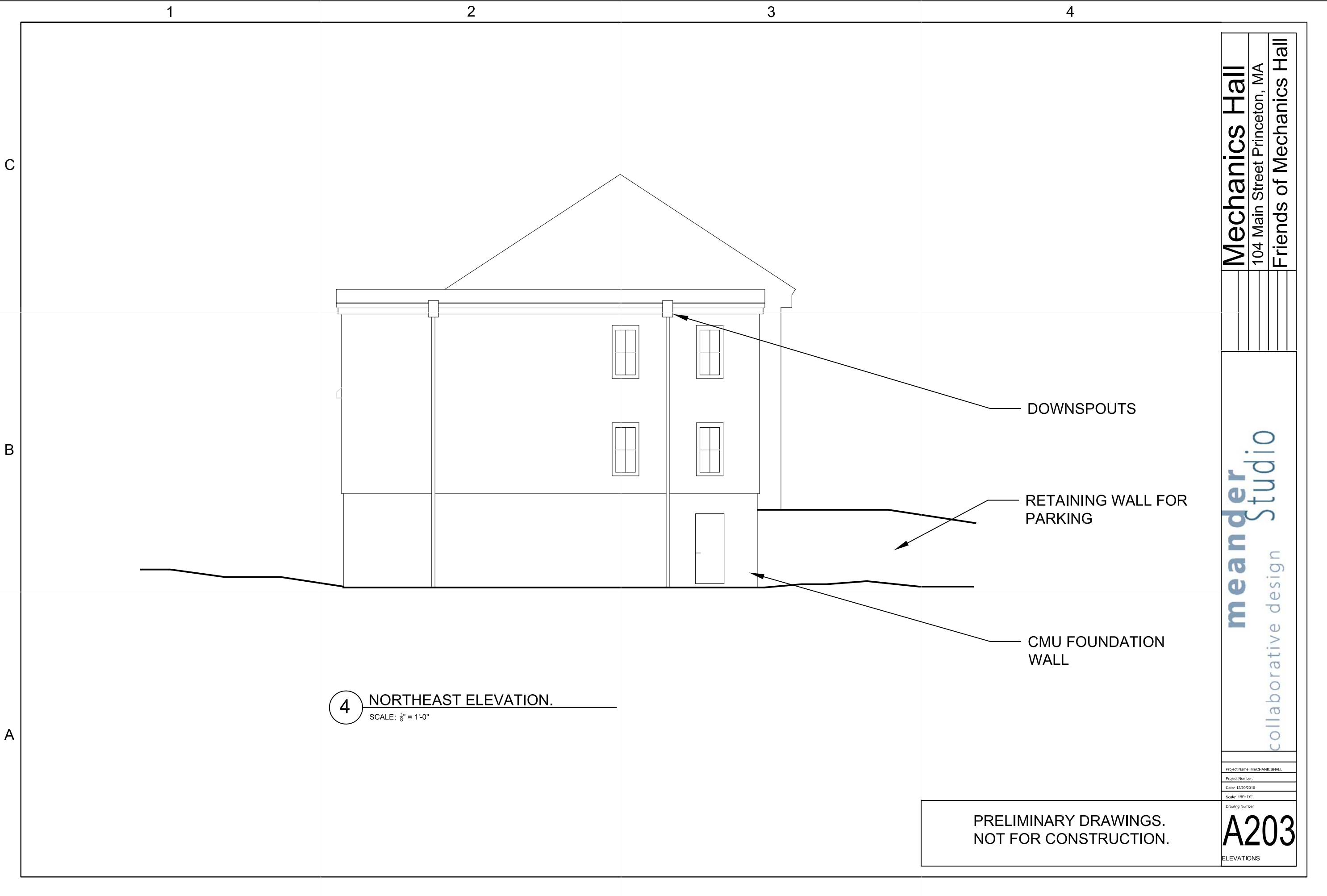
PRELIMINARY DRAWINGS.  
NOT FOR CONSTRUCTION.

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Project Name: MECHANICSHALL  
Project Number:  
Date: 12/20/2016  
Scale: 1/8"=1'-0"  
Drawing Number  
**A202**  
ELEVATIONS





**4** NORTHEAST ELEVATION.  
 SCALE:  $\frac{1}{8}" = 1'-0"$

DOWNSPOUTS

RETAINING WALL FOR PARKING

CMU FOUNDATION WALL

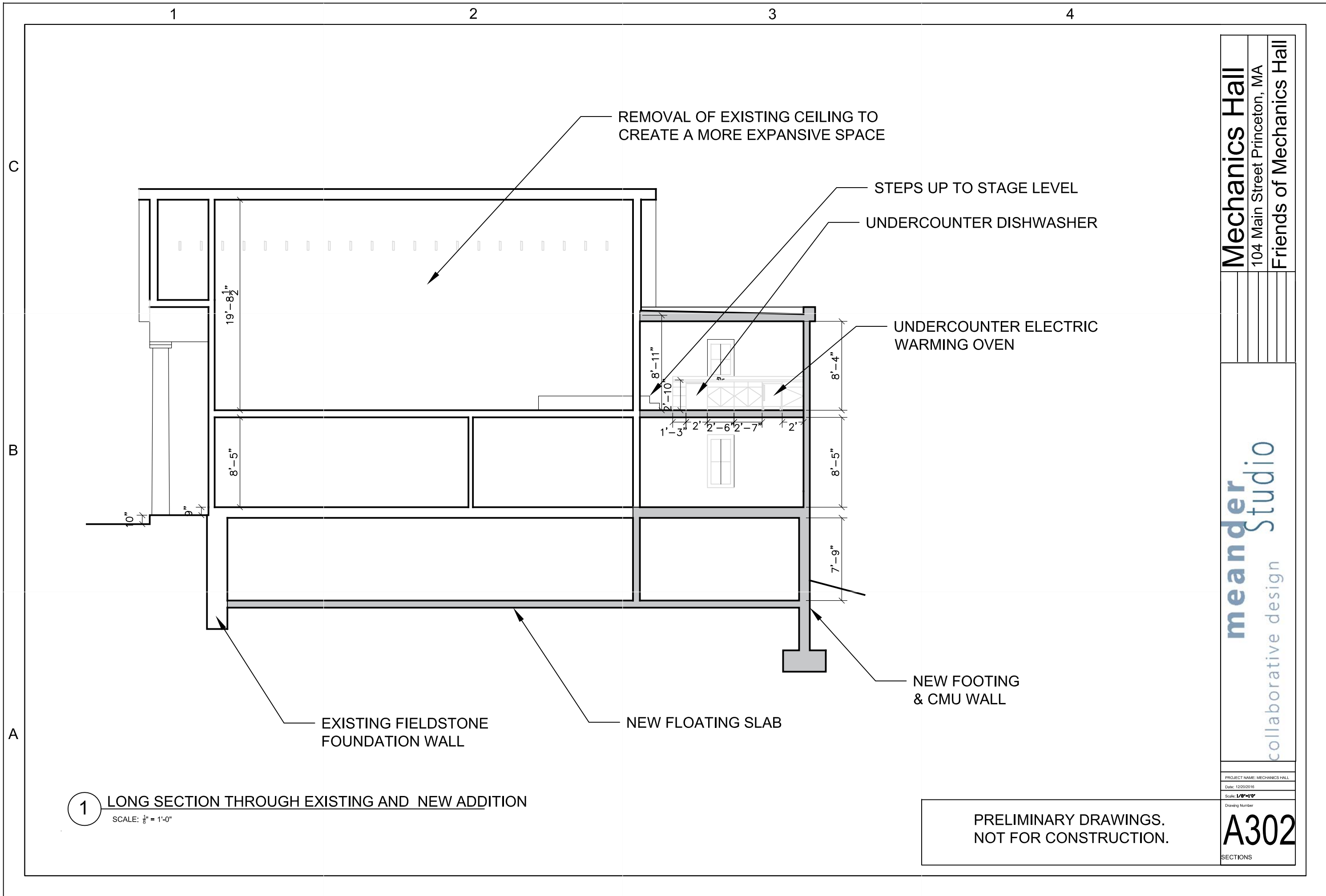
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 NOT FOR CONSTRUCTION.

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 Project Number:  
 Date: 12/20/2016  
 Scale: 1/8"=1'0"

Drawing Number  
**A203**  
 ELEVATIONS



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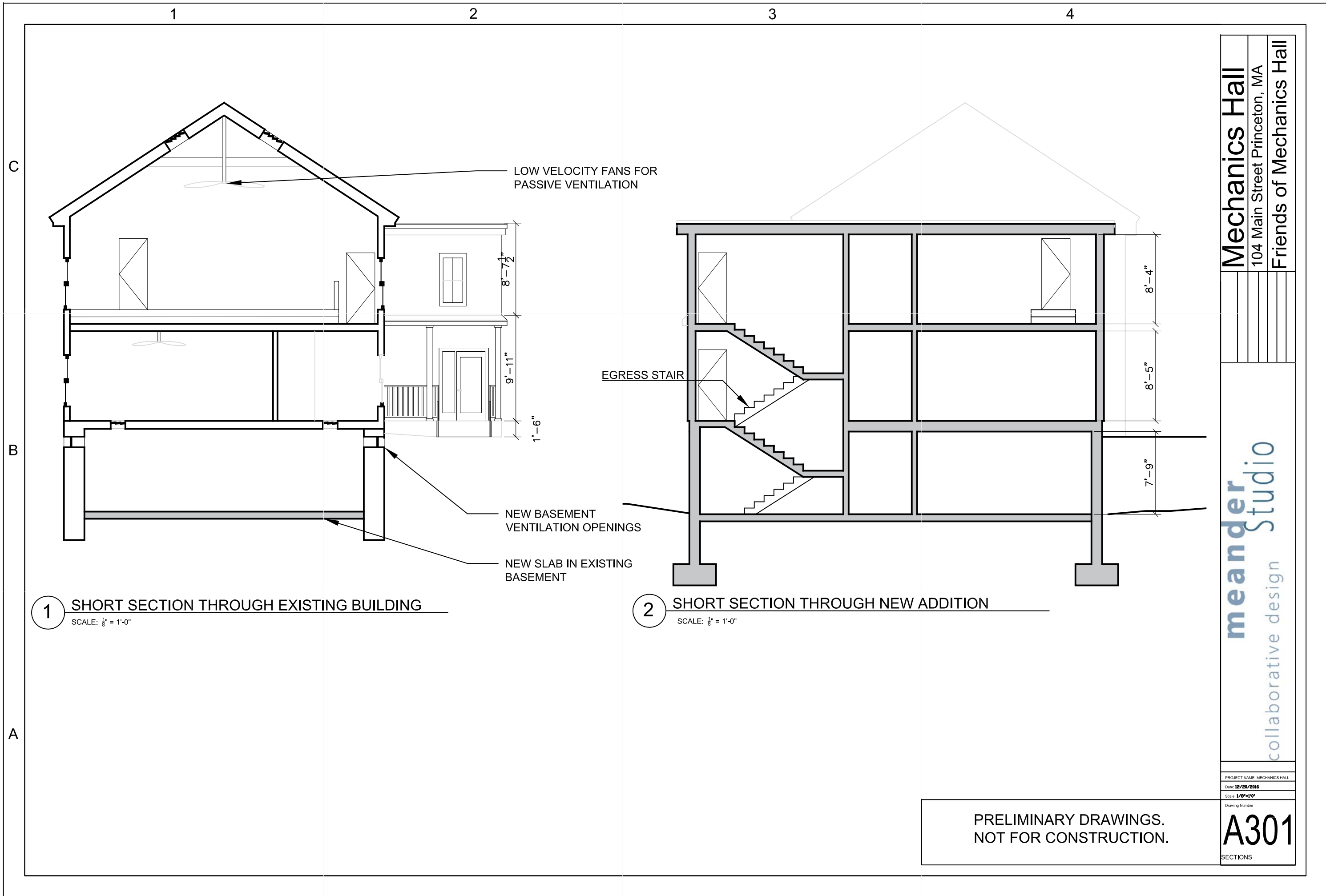
**meander**  
 Studio  
 collaborative design

PROJECT NAME: MECHANICS HALL  
 Date: 12/20/2016  
 Scale: 1/8" = 1'-0"  
 Drawing Number

**A302**  
 SECTIONS

**1** LONG SECTION THROUGH EXISTING AND NEW ADDITION  
 SCALE: 1/8" = 1'-0"

PRELIMINARY DRAWINGS.  
 NOT FOR CONSTRUCTION.



**1** SHORT SECTION THROUGH EXISTING BUILDING  
SCALE: 1/8" = 1'-0"

**2** SHORT SECTION THROUGH NEW ADDITION  
SCALE: 1/8" = 1'-0"

PRELIMINARY DRAWINGS.  
NOT FOR CONSTRUCTION.

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PROJECT NAME: MECHANICS HALL  
Date: 12/20/2016  
Scale: 1/8" = 1'-0"  
Drawing Number  
**A301**  
SECTIONS