ADDENDUM No. 5 - February 3, 2016

GENERAL

This addendum modifies, amends, and supplements designated parts of the Contract Documents for the above project and is hereby made part thereof by reference and shall be as binding as though inserted in locations designated hereunder.

It shall be the responsibility of the bidders to notify all subcontractors and suppliers he proposes to use for the various parts of the work for any changes or modifications contained in this addendum. No claim for additional compensation because of lack of knowledge of the contents of this addendum will be considered.

PART 1 GENERAL

1. Please see the updated project schedule (attached).

2. For reference, the current City Telephone provider is:

   Ayacht Technology Solutions
   Sean F. Kennedy, PMP
   Strategic Marketing and Business Development Manager
   skennedy@ayacht.com
   Mobile: +1 (323) 401-9516
   Direct: +1 (978) 558-0167
   Main: +1 (978) 779-7970 – Ext. 1103
   Toll Free: +1 (855) 779-7970 – Ext. 1103
   FAX: +1 (888) 740-4011

   Mailing Address:
   P.O. Box 995
   Bolton, MA 01740

   Office/Shipping Address:
   289 Seven Bridge Road
   Lancaster, MA 01523
   www.ayacht.com

PART 2 SPECIFICATIONS

1. ADDENDUM NO. 4

Page 19, Item 39:
Delete: Item #39

Page 19, Item 40:
Delete: "5. Corridor tackboards."
Insert: "5. Wall Acoustic Tack Panel "Type P-3 (Corridors, Commons)"

Page 20, Item 40, Paragraph J:
Delete: "Corridor Tackboards"
Insert: "Wall Acoustic Tack Panel Type P-3 (Corridors, Commons)"

Page 20, Item 40, Paragraph J.1:
Delete: "glas"
Insert: "glass"

Page 6, Item 14:
Delete: "Page 17, 2.8, A:
Insert: "C." in its entirety."

Page 10. Item 25, at "Page 1, 1.1, B"
Delete "12." in its entirety.

Page 14, Item 29
Delete: "Page 1, 1.2, A:
Insert: "8. 20 oz. zinc coated copper sill flashing glazed into curtain wall framing system."

Page 29, Drawings, Item 12:
Delete: "A" in its entirety

Page 30, Drawings, Item 18:
Delete: "C" in its entirety
Delete: "G" in its entirety.

Attachment: Appendix O
Delete: Appendix O in its entirety
Insert: New Appendix O (attached)
Note: Appendix O is a reference document for general color selections to be used for general selection types, however this will be refined at a later date.

2. SECTION 00 73 00 – SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

Page 11, 13.B.3:
Delete: "Main Street and Boylston Street Route 140"
Insert: "Nelson Place and school parking lot"

Page 17, Roofing and Flashing
Delete: Item 6

3. SECTION 01 10 00 – SUMMARY

Page 2, 1.3, A.1:
Delete: Item a
Insert: "a. Refer to Division 1 requirements for LEED requirements."

4. SECTION 01 23 00 – ALTERNATES

Page 1 1.4.B.2:

Insert AFTER classroom spaces," and all spaces in the project scheduled under the base bid to receive VCT,"

5. SECTION 02 41 17 – BUILDING DEMOLITION

Page 7, 3.5:

Delete: Paragraph D

Insert: "D. Completely remove the building foundation walls and footings at each end of the building, approximately 25 feet on each side of the roadway, and at drainage or utility lines. At the middle section the foundation shall remain."

Page 7, 3.5.E:

Insert at end: "Refer to the existing building plans in Appendix K for location of existing pipe trenches and the asbestos specifications and report. Coordinate the removal of the slab and pipe trench cover with the removal of the asbestos pipe insulation and debris."

6. SECTION 04 20 00 – UNIT MASONRY

Page 16, 2.8, A:

Insert: "One (1) and two (2)-piece" before the word "Concealed".

Page 16, 2.8, A:

Insert "1. Copper (99.5% pure), 20 ounce; 0.0216" thick, conforming to ASTM specification B370, coated both sides with zinc-tin alloy a minimum of 0.0005" thick per side; applied by the hot-dip process. Composition of the alloy shall be approximately 50%zinc and 50% tin with trace elements controlled for durability, corrosion resistance and color. Satin finish.

2. Solder shall conform to ASTM specification B32 and shall be pure in tin or lead-free, high tin. Surfaces to receive soldering should be chemically cleaned and/or mechanically cleaned to produce clean, bright alloy. To ease soldering, a tin-bearing flux may be applied to all surfaces to receive solder."

Page 17, 2.8, B:

Insert "and insulation joint tape" after the words "Concealed through-wall flashing termination membrane".

Page 17, 2.8, D:

Insert "insulation joint tape and washer clip/anchor" after the words "Concealed through-wall flashing".

7. SECTION 05 50 00 – METAL FABRICATIONS

Page 3, 1.3, B

Insert: "13. Hot-dipped galvanized steel lintel/clip assemblies and fasteners at exterior wall openings where indicated on Drawings."

8. SECTION 06 16 00 – SHEATHING

Page 4, 2.2.A:
Insert after "thick", "and 5/8" thick at fire rated walls"

9. SECTION 07 42 43 – COMPOSITE WALL PANELS

Page 1, 1.1, B
A. At note "11" insert "between adjacent insulation assemblies" after "joints".
B. Insert "12. Sealant at thermally broken Z girt fastener penetrations and continuously along horizontal joint.
13. One (1) and two (2)-piece 20 oz. zinc coated copper through wall flashing."

Page 11, 2.9, F:
Insert "1. One (1) and two (2)-piece zinc coated copper through wall flashing: Copper (99.5% pure), 20 ounce; 0.0216" thick, conforming to ASTM specification B370, coated both sides with zinc-tin alloy a minimum of 0.0005" thick per side; applied by the hot-dip process. Composition of the alloy shall be approximately 50%zinc and 50% tin with trace elements controlled for durability, corrosion resistance and color. Satin finish.

2. Solder shall conform to ASTM specification B32 and shall be pure in tin or lead-free, high tin. Surfaces to receive soldering should be chemically cleaned and/or mechanically cleaned to produce clean, bright alloy. To ease soldering, a tin-bearing flux may be applied to all surfaces to receive solder."

Page 11, 2.9, G:
Delete "FR Butyl Flashing" and insert "Concealed through-wall flashing termination membrane and insulation joint tape"

Page 11, 2.9, G:
Insert "3. Concealed through-wall flashing, insulation joint tape edge sealant: Provide sealant compatible with both surfaces to be sealed. Provide letters of compatibility from each manufacturer."

Page 11, 2.9, H, 1:
Delete" For perimeter joints between system and abutting materials" and insert "For horizontal and vertical joints as detailed and noted to receive sealant"

Page 12, 2.9, I, 1:
Delete" For perimeter joints between system and abutting materials" and insert "For horizontal and vertical joints as detailed and noted to receive sealant"

Page 12, 2.9:
Insert "N. One (1) and two (2)-piece zinc coated copper through wall flashing: Copper (99.5% pure), 20 ounce; 0.0216" thick, conforming to ASTM specification B370, coated both sides with zinc-tin alloy a minimum of 0.0005" thick per side; applied by the hot-dip process. Composition of the alloy shall be

approximately 50%zinc and 50% tin with trace elements controlled for durability, corrosion resistance and color. Satin finish.

1. Solder shall conform to ASTM specification B32 and shall be pure in tin or lead-free, high tin. Surfaces to receive soldering should be chemically cleaned and/or mechanically cleaned to produce clean, bright alloy. To ease soldering, a tin-bearing flux may be applied to all surfaces to receive solder."

Page 17, 2.8, B:

Insert "and insulation joint tape" after the words "Concealed through-wall flashing termination membrane".

Page 17, 2.8, D:

Insert "insulation joint tape and washer clip/anchor" after the words "Concealed through-wall flashing".

10. SECTION 07 54 19 – POLYVINYL CHLORIDE (PVC) ROOFING

Page 7, 2.1 A-1

At end of sentence, Delete: "S327 Membrane"

Insert: "G410 Membrane"

Page 8, 2.3B:

At end of sentence, Delete: "Type III"

Insert: "Type II, Grade 1"

Page 14, 3.6:

Delete: Items B and C

Insert: "B. Apply adhesive over the properly installed and prepared substrate surface at a rate according to manufacturer's requirements. The adhesive shall be applied in smooth, even coating with no gaps, globs, puddles or similar inconsistencies. Only an area which can be completely covered in the same day's operations shall be coated with adhesive. Adjacent sheets shall be overlapped 3 inches (75 mm). The amount of membrane that can be coated with adhesive before rolling into substrate will be determined by ambient temperature, humidity and crew. The bonded sheet shall be pressed firmly in place with a minimum 100 lb (45 kg) steel, membrane roller, by rolling in two directions.

C. Notes:

a) The Applicator shall count the amount of pails of adhesive used per area per day to verify conformance to the specified adhesive rate.
b) Do not install when air temperature is within 5° of dew point.
c) No adhesive shall be applied in seam areas."

11. SECTION 07 62 00 – SHEET METAL FLASHING AND TRIM

Page 1, 1.2, B:

Delete "1" in its entirety.

12. SECTION 07 92 00 – JOINT SEALANTS

Page 15,

Insert: "9. Provide joint sealants at all locations indicated on the drawings and noted under 07 92 00, or joint sealants not specifically noted by other divisions. Should there be a conflict where sealants are noted under 07 92 00 and another specific section, this section shall be included in the base cost under 07 92 00."

13. SECTION 08 43 13 – ALUMINUM-FRAMED STOREFRONTS

Page 1, 1.2, B:

Delete notes "7, 8 & 9" in their entirety.

Page 1, 1.2, C:

Delete note "1" in its entirety.

Page 13, 2.12:

Delete "A" in its entirety.

14. SECTION 08 44 13 – GLAZED ALUMINUM CURTAIN WALLS

Page 1, 1.2, A:

Insert "8. .040 aluminum sill flashing with end dams glazed into curtain wall framing system".

Page 10, 2.9:

At "INSULATED SPANDREL PANELS" insert "(synonymous with Insulated Metal Panels & Insulated Composite Panels" after "PANELS".

15. SECTION 08 51 13 – ALUMINUM WINDOWS

Page 1, 1.2, A:

Delete "6." In its entirety.

Insert "6. Exterior perimeter sealant to abutting materials."

Page 1, 1.2:

Delete "B" in its entirety.

Page 2, 1.3:

Delete "I" in its entirety.

Page 2, 1.3:

Insert "O. Section 08 44 13 – Aluminum Curtain Walls: Curtain Wall framing as part of this Trade Contract."

Page 8, 2.2:
Delete "D" in its entirety.
Insert "D. Provide custom extruded aluminum sub-frame / sub-sill with continuous perimeter fastening flange, end dams and snap trim. Finished to match adjacent window construction as selected by the architect."

Page 16, 2.9:
Delete "J" in its entirety.

Page 16, 2.10, A:
Insert "5. Fabricate sub-frame / sub-sill with continuous fastening flange extensions at corners to ensure tight fitting, flush, hairline joints ready to receive transition membrane and sealant. Seal all joints and end dams."

16. SECTION 08 80 00 – GLAZING

Page 1, 1.2:
Insert: "C. Furnish the following items for installation of related sections:
1. Glass panels for railing systems installed by Section 05 50 00 – METAL FABRICATIONS."

Re-letter C to D and D to E

17. SECTION 09 30 13 – CERAMIC TILING

Page 7, 1.13, A.1:
Delete: "5 percent"
Insert: "3 percent"

18. SECTION 09 67 23 – RESINOUS FLOORING

Delete: Entire section
Insert: New section (attached).

19. SECTION 09 84 00 – ACOUSTICAL ROOM COMPONENTS

Page 4, 2.2:
Delete: Paragraph A
Insert: "**A. Wall Acoustic Panel Type P-1** (Cafeteria, Media Center, Music, Platform)
Basis-of-Design: Conwed Designscape/Wall Technology Respond A100 Series Acoustical Panels
1. Construction: Composite core of dimensionally stable rigid fiberglass.
2. Fiberglass Density: 6-7 pcf.
3. Recycled Content: For fiberglass, 52 percent pre-consumer and 5 percent post-consumer recycled content.
4. Core Thickness: 1-1/2 inch.
5. Corners: Square
6. Edge Profile: Half-bevel.
7. Edge Treatment: Resin hardened.

8. Flammability (ASTM E 84): Panel components shall have a Class “A” rating per ASTM E 84.
9. Resistivity to Heat or Cold: R-factor of 4.16 per inch of thickness.
10. Acoustical Performance: Values below are for panels mounted in accordance with ASTM C423 (Type D5 Mounting) and vary by panel thickness and finish.
11. Noise Reduction Coefficient (NRC) for 1-1/2 inch Thickness: 0.95
12. Mounting Type: Aluminum Z-Clip, Z-Bar silicone applied to clips.
13. Panel Finish:
    Fabric wrapped, manufacturer’s standard in color/pattern selected by Architect.
    a. Fabric Facing
        1) General: All fabric shall be in compliance with local and State fire regulations. Flame resistant treatment shall be applied to back of fabric only.
        2) Provide fabric equal to Guilford of Maine, Wellington Contract Fabrics, or Architect approved equal.
            a) Content: 100 percent olefin.
            b) Minimum weight: 17 ounces per linear foot.
            c) Width: 54 inches.
            d) Color and pattern: As selected by the Architect. Assume 6 colors.

B. Wall Acoustic Panel Type P-2 (Gymnasium)

Basis-of-Design: Conwed Designscape/Wall Technology Rebound Panels

1. Construction: Composite core of dimensionally stable rigid fiberglass. Cores laminated with 1/16” thick resilient perforated co-polymer face sheet.
2. Fiberglass Density: 6-7 pcf.
3. Recycled Content: For fiberglass, 52 percent pre-consumer and 5 percent post-consumer recycled content.
4. Core Thickness: 2 inch.
5. Corners: Square
6. Edge Profile: Half-bevel.
7. Edge Treatment: Resin hardened.
8. Flammability (ASTM E 84): Panel components shall have a Class “A” rating per ASTM E 84.
9. Resistivity to Heat or Cold: R-factor of 4.16 per inch of thickness.
10. Acoustical Performance: Values below are for panels mounted in accordance with ASTM C423 (Type D5 Mounting) and vary by panel thickness and finish.
11. Noise Reduction Coefficient (NRC) for 2 inch Thickness: 1.10
12. Mounting Type: Aluminum Z-Clip, Z-Bar silicone applied to clips.
13. Panel Finish:
    Fabric wrapped, manufacturer’s standard in color/pattern selected by Architect.
    a. Fabric Facing
        1) General: All fabric shall be in compliance with local and State fire regulations. Flame resistant treatment shall be applied to back of fabric only.
        2) Provide fabric equal to Guilford of Maine, Wellington Contract Fabrics, or Architect approved equal.
            a) Content: 100 percent olefin.
            b) Minimum weight: 17 ounces per linear foot.

c) Width: 54 inches.
d) Color and pattern: As selected by the Architect. Assume 6 colors.

C. Wall Acoustic Panel Type P-4 (Lobby)
Basis-of-Design: Decoustics Acoustic Wall Panel Type AP

1. Construction: Composite core of dimensionally stable rigid fiberglass.
2. Fiberglass Density: 6-7 pcf.
3. Recycled Content: For fiberglass, 52 percent pre-consumer and 5 percent post-consumer recycled content.
4. Core Thickness: 1/2 inch.
5. Corners: Square
6. Edge Profile: Half-bevel.
7. Edge Treatment: Resin hardened.
8. Flammability (ASTM E 84): Panel components shall have a Class "A" rating per ASTM E 84.
9. Resistivity to Heat or Cold: R-factor of 4.16 per inch of thickness.
10. Acoustical Performance: Values below are for panels mounted in accordance with ASTM C423 (Type D5 Mounting) and vary by panel thickness and finish.
11. Noise Reduction Coefficient (NRC) for 1/2 inch Thickness: 0.55
12. Mounting Type: Adhesive.
13. Panel Finish:
    Fabric wrapped, manufacturer's standard in color/pattern selected by Architect.
    a. Fabric Facing
        1) General: All fabric shall be in compliance with local and State fire regulations. Flame resistant treatment shall be applied to back of fabric only.
        2) Provide fabric equal to Guilford of Maine, Wellington Contract Fabrics, or Architect approved equal.
            a) Content: 100 percent olefin.
            b) Minimum weight: 17 ounces per linear foot.
            c) Width: 54 inches.
            d) Color and pattern: As selected by the Architect. Assume 6 colors."

20. SECTION 09 91 00 – PAINTING

<u>Page 1, 1.2.B. 13:</u>
Delete: "13. Sealing of concrete floors at carpet locations"
<u>Page 12, 3.7:</u>
Delete: Paragraph B.
Insert: "B. Protect all painted surfaces against damage until the painter is complete. CM/Architect to review. Painter to include cost to touch up all painted door jambs."

21. SECTION 09 64 66 – WOOD ATHLETIC FLOORING

<u>Page 5, 2.1 B:</u>
Insert at end: 5. Horner Flooring Co. Dollar Bay, MI

22. SECTION 10 51 13 – METAL LOCKERS

Page 3, Part 1:
Insert: "1.8 EXTRA MATERIALS

A. Upon completion of the Work of this Section, under provisions of Section 01 78 00 - CLOSEOUT SUBMITTALS, deliver to the Owner extra materials for future repairs and maintenance.
   1. Furnish replacement locker doors and hardware for 5 percent of each type and color of locker specified, but not less than one of each type.
   2. Clearly label and package extra materials securely to prevent damage."

Page 5, 2.5.A.4.a:
Delete: "(1) color"
Insert: "(2) colors"

23. SECTION 11 40 00 – FOOD SERVICE EQUIPMENT

Page 20, ITEM #6, Model:
Delete: "AE26 60"
Insert: "LET120"

Page 21, ITEM #7, Model:
Delete: "AWA2479ZXTXC(2C2116)"
Insert: "BHT031L6CF"

Page 21, ITEM #8, Model:
Delete: "AA28 0106"
Insert: "ADT130"

Page 21, ITEM #9, Model:
Delete: "FJAF 0125 TAC 020"
Insert: "BHT015X6CFM"

24. SECTION 11 66 23 – GYMNASIUM EQUIPMENT

Page 3, 2.3 A:
Delete: Item 10
Insert: "10. Mounting: Z clips top and bottom."

25. SECTION 11 66 24 – BASKETBALL GYM EQUIPMENT

Page 2, 2.2 A:
Insert after "Court" "(4) at Side Courts"

Page 2, 2.2 A.1.c:
Item 1) delete: "26'-0" to 28'-0"", insert: "20'-0" to 28'-0""
Item 2) delete: "7'-0"", insert: "5'-6""
Item 3) delete: "11'-9"", insert: "6'-9""
Item 4) delete: "16'-0"", insert: "11'-0""

Page 3, 2.2:
Delete: Paragraph B in its entirety.

26. SECTION 14 24 24 – HOLELESS HYDRAULIC ELEVATORS

Page 10, 2.1, F:
Hoistway Dimension, Delete "6'-11" deep"
Insert "7'-10 ¾"
Insert at end Door to Receiving area to be key operated only

27. SECTION 22 00 00 – PLUMBING

Page 43, 2.23 Storage Tank (WST-1 & 2):
Delete: A. in its entirety
Insert: "A. The SuperStor Ultra Storage Tank shall be manufactured by HTP with an identification of model number SSU-119CB. These storage tanks shall be ETL Listed and constructed with NSF Listed components. The storage tank will have a capacity of 119 gallons. The storage tank will be constructed of 316L stainless steel. The outer tank shell shall be constructed of high density polyethylene plastic with 2" of CFC free polyurethane foam insulation. The storage tank shall be factory assembled. Complete installation instructions shall be furnished with every storage tank as packaged by the manufacturer for shipping."

Page 62, 2.36 Electrical Work:
Delete: A. and the subparagraphs in their entirety
Insert: "A. The Plumbing Subcontractor shall hire a licensed electrician to perform all low voltage and control wiring as required by code as this is not indicated on the electrical drawings. Minimum gauge of all control wiring is 18 AWG and shall be plenum rated. The wiring of the high voltage side is by the electrician and is shown on the electrical drawings. The wiring is mainly for two systems:

1. Wiring of the kitchen CO/FG detector panel to the four (4) detectors in the kitchen and the gas solenoid valve. There shall be a manual reset relay installed between the panel and the gas solenoid valve to ensure that the system in not automatically reset. (See detail 17/P4.3 for wiring detail – all wiring by Electrical Contractor).
2. Wiring of the radon fans. (See detail 1/P4.3 for wiring detail – all wiring by Electrical Contractor)."

28. SECTION 23 00 00 – HVAC

Page 40, 2.20 Centrifugal Pumps:
Delete paragraph D starting with "Provide variable speed drives…" in its entirety and replace with the following:

" D. Provide variable speed drives on all pumps where scheduled or specified herein. Refer to article 2.15 Variable Frequency Drives for additional requirements. Provide H-O-A Nema 1 disconnects on all pumps with variable speed drives or integral drives and provide combination disconnect and motor starter for each pump not having a variable speed or integral speed drive. Coordinate coil voltage with control requirements."

Page 76, 2.37 Automatic Temperature Controls:

Delete the seventh sentence of paragraph A. reading “This shall include but not be limited to 1) front-end work station, 2) network interface, 3) boiler plant (boilers and pumps), 4) IDF and MDF cooling systems.” and replace with the following:

“This shall include but not be limited to 1) front-end work station, 2) network controllers and interface, 3) boiler plant (boilers, pumps, ventilation, CO system), 4) IDF and MDF cooling systems, 5) fin-tube radiation, 6) cabinet unit heaters & unit heaters, 7) Gymnasium system RTU-3 (DX cooling and dehum. disabled if on emergency power) and 7) Cafeteria system RTU-6 (DX cooling and dehum. disabled if on emergency power).”

Page 76, 2.37 Automatic Temperature Controls:

Delete the first sentence of paragraph B. reading “The specified DDC system is based on the most recent generation of products from Automated Logic, American Energy Management or Johnson Controls most current edition.” and replace with the following:

“The specified DDC system is based on the most recent generation of products from the Owners current energy management system Alerton. Substitutions by firms such as Automated Logic, American Energy Management or Johnson Controls shall be allowed however, they must be able to connect to the Owner’s front-end and report alarms. Owner’s front end graphics must be updated to include this building with link to associated systems.”

Page 81, 2.37 Automatic Temperature Controls:

In paragraph K “Auxiliary Control Devices” subparagraph 13 add the following to the end of this sub paragraph: “The MeLink controller for each hood shall be installed per manufacturer’s instructions. The hood manufacturer is not providing a utility cabinet and as such the system controller and VFD drives shall be mounted above the ceiling located with adequate service clearance and the touch pad shall be mounted on each respective hood.”

Page 85, 2.37 Automatic Temperature Controls:

In paragraph M “Sequence of Operation – MAU-1….” there are two (2) kitchen hoods and associated exhaust fans and as such the sequence must include reference to KEF-1 and KEF-2 where EF-1 is noted. In addition the points list must include points reflective of the two kitchen hood fans and KEF-1 and KEF-2.

In sub-paragraph 2 replace “When a hood is enabled, the kitchen hood exhaust fan EF-1 shall start the hood fan and run at a minimum of 30% speed.” with “When either kitchen hood is enabled via the respective hood system exhaust controllers start switch the respective fan KEF-1 or KEF-2 shall start and initially run at a minimum speed setpoint of 40%.

In sub-paragraph 3 replace “The kitchen hood fan EF-1 shall modulate from 30% minimum speed/airflow to its maximum scheduled speed/airflow based on hood smoke & heat detection and control system output with most demanding hood controlling.” with “The respective kitchen hood fan KEF-1 or KEF-2 shall modulate from 40% minimum speed/airflow to its maximum scheduled speed/airflow based on hood smoke & heat detection and control system output.”

29. SECTION 27 41 00 – AUDIO-VIDEO COMMUNICATIONS

2.4A

Delete: "21. Linier – FWM18U (1)."
Insert: "Middle Atlantic has the DWR-16-22 (1)."

30. SECTION 27 41 10 – MEDIA DISTRIBUTION SYSTEM

2.6
Insert: "Y. SAFARI MONTAGE one year subscription to K-8 Super Core digital content (Qty.1)."

31. SECTION 28 10 00 – UNIFIED SECURITY SYSTEM

2.6D.6
Insert: "h. EH400-K Single-Door PoE Controller
i. EHR40-K Single-Door PoE Controller with integrated iCLASS Reader
j. EHRP40-K Single-Door PoE Controller and iCLASS Reader"

PART 3 DRAWINGS

1. DRAWING L1.4 – NORTH PLAYGROUND ENLARGEMENT PLAN

A. At exterior stair, add note: "Provide and install painted, galvanized metal handrail and posts at exterior stair, both sides and middle, by 05 50 00 Metal Fabrications. Refer to detail attached with this Addendum.

2. DRAWING A1.1 – PARTITION TYPES, ABBREVIATIONS, SYMBOLS & MATERIAL LEGENDS

A. At Exterior Wall Types, Exterior Wall Type No. E8MP and Exterior Wall Type No. E12MP at note "Composite metal wall panel system assembly" insert "(Metal Panel Type 1)" after "assembly".

3. DRAWING A3.1 – LOWER FLOOR PLAN SECTION C-C

A. At Speech C084: Change 8'-0" M.B. on West Wall to 8'-0" W x 4'-0" H Acoustic Panel
B. At Corridor C070 and C080: Change note: "(35 double tier lockers)" to "(34 double tier lockers)".

4. DRAWING A3.2 – MAIN FLOOR PLAN SECTION A-A

B. At Speech A115: Change 8'-0" M.B. on West Wall to 8'-0" W x 4'-0" H Acoustic Panel.

5. DRAWING A3.4 – MAIN FLOOR PLAN SECTION C-C

A. At Corridor C170 and C180: Change note: "(35 double tier lockers)" to "(34 double tier lockers)".
B. Add Acoustic Panels to Music C182. See Sketch ADD5 A-015.

6. DRAWING A3.5 – UPPER FLOOR PLAN SECTION A-A

A. Add Acoustic Panels to Music A226. See Sketch ADD5 A-015.

7. DRAWING A4.1 – LOWER FLOOR REFLECTED CEILING PLAN - SECTION C-C

A. Missing ceiling heights added in following spaces:

- C065.1 Ceiling height: 8'-6" AFF
- C065.3 Ceiling height: 8'-6" AFF

8. DRAWING A4.2 – MAIN FLOOR REFLECTED CEILING PLAN - SECTION A-A

A. Missing ceiling heights added in following spaces:
- A114.1 Ceiling height: 8'-6" AFF
- A109 Ceiling height: 8'-6" AFF
  Clarified ceiling boundaries

9. DRAWING A4.3 – MAIN FLOOR REFLECTED CEILING PLAN - SECTION B-B

A. Missing ceiling heights added in following spaces:
- B140.1 Ceiling height: 9'-0" AFF
- B141 Corrected Ceiling height from 8'-10" to 9'-0"
- B143.1 Ceiling height: 8'-6" AFF
- B143.2 Ceiling height: 8'-6" AFF
- B134.4 Ceiling height: 8'-0" AFF
- B151.1 Ceiling height: 9'-0" AFF
- B151.2 Ceiling height: 8-6" AFF
  Eliminated ACT in chase south of room B151.2
- B156 Ceiling height: 9'-0" AFF
- B157.1 Ceiling height: 8'-6" AFF
- B134.3 Ceiling height: 8'-6" AFF
- B134.5 Ceiling height: 8'-6" AFF

10. DRAWING A4.4 – MAIN FLOOR REFLECTED CEILING PLAN - SECTION C-C

A. Missing ceiling heights added in following spaces:
- C193.4 Ceiling height: 8'-6" AFF
- C173.4 Ceiling height: 8'-6" AFF
- C183.1 Ceiling height: 8'-6" AFF

11. DRAWING A4.5 – UPPER FLOOR REFLECTED CEILING PLAN - SECTION A-A

A. Missing ceiling heights added in following spaces:
- A218 Ceiling height: 8'-6" AFF
- A228 Ceiling height: 8'-6" AFF
- A217 Ceiling height: 8'-6" AFF
- Stair #1 Ceiling height: 10'-2" AFF

12. DRAWING A5.1 – EXTERIOR ELEVATIONS

A. Add Brick Masonry Veneer Type tag to drawing 1 and 6, see sketch ADD5 A-012

13. DRAWING A5.2 – EXTERIOR ELEVATIONS

A. Add Brick Masonry Veneer Type tag to drawing 3 and 6, see sketch ADD5 A-012

14. DRAWING A6.10 – WALL SECTIONS

A. Revised drawing details B and wall section 42, see sketch ADD5 A-002.

15. DRAWING A6.11 - WALL SECTIONS

A. Detail C delete note "Continuous 4" X 2" X 1/4" Gav. Bent steel roof edge by 04 20 00; typical", insert "Continuous 4" X 2" X 1/4" Galv. bent steel roof edge furnished by 05 50 00, installed by 06 10 00; typical".

16. DRAWING A6.20 – EXTERIOR SECTION DETAILS

A. Detail 12 at detail title "Typical Detail at Thermal Clip" delete "Clip" and insert "Z Girt".

B. Detail 13 at note “Transition membrane and sealant at deflection joint tie-in by 07 27 13; typical” insert “Wall” before “Transition”.

17. DRAWING A6.21 – EXTERIOR SECTION DETAILS

A. Detail 1, 4, 7 & 8 delete note “Zinc coated copper sill flashing with hemmed edge by 08 44 13; typical”, insert “.040 Alum. sill flashing with hemmed edge and end dams by 08 44 13; typical”.

18. DRAWING A6.25 – ROOF DETAILS

A. Details 9 & 10 delete note “Transition membrane with edge sealant at all continuous roof angle splices and voids by 07 54 19; typical” and insert” Roof transition membrane and edge sealant at all continuous roof angle splices/voids by 07 54 19; typical”

B. Details 1 & 3 delete note “Transition membrane and sealant by 07 27 13; typical” and insert “Wall transition membrane and sealant at deflection joint tie-in by 07 27 13; typical”

19. DRAWING A6.27 – ROOF DETAILS

A. Detail 1, delete note “Zinc coated copper sill flashing with hemmed edge by 08 44 13; typical”, insert “.040 Alum. sill flashing with hemmed edge and end dams by 08 44 13; typical”.

B. Detail 3 delete note “Transition membrane, adhesive and sealant at all penetrations through AVB by 07 27 13; typical” and insert “Wall transition membrane, adhesive and sealant at all penetrations through wall AVB by 07 27 13; typical”

C. Detail 7 delete note “Continuous 4” X 2” X 1/4” Gav. Bent steel roof edge by 04 20 00; typical”, insert “Continuous 4” X 2” X 1/4” Galv. bent steel roof edge furnished by 05 50 00, installed by 06 10 00; typical”.

20. DRAWING A6.28 – ROOF DETAILS

A. Detail 2 delete note “Transition membrane and sealant by 07 27 13; typical” and insert “Wall transition membrane and sealant by 07 27 13, typical.”

B. Detail 8, at note “Composite wall panel by 07 42 43” insert “(Metal Panel Type 1)” after “07 42 43”.

C. Detail 8, at note “Corrugated hot dipped galvanized face fastened panels by 07 42 43” insert “(Metal Panel Type 2)” after “07 42 43”.

21. DRAWING A6.32 – EXTERIOR WINDOW TYPES, FIRE-FRAME TYPES, MISC. DETAILS

A. Revised drawing references to W1 and W4, see sketch ADD5 A-004

B. Revised drawing references to W2 and W3, see sketch ADD5 A-004 for similar reference revisions.

22. DRAWING A7.2 – ENLARGED STAIR SECTIONS

A. Add detail references, graphic representation to steel structure as shown by structural and TOS dimensions, see sketch ADD5 A-005.

23. DRAWINGS A8.1, A8.2, A8.3, A8.4, A8.5, A8.8, A8.9, A8.11, A8.12, A8.13

A. For the above drawings: Interior elevations have been coordinated with Mechanical drawings to show locations of thermostats and wall mounted CO2 sensors. See Sketch ADD5-A015 for typical location.

24. DRAWING A10.3 – DOOR SCHEDULE SECTION C-C

A. At Notes, delete Note #6

25. DRAWING A11.1 ROOM FINISH SCHEDULE SECTION A-A

A. At finish key note legend - Wall panels: Change P3 to “Acoustic Tack Panel Type 3”
B. At Telcom A113, Electrical A114 and Emerg Elec A114.1, Electrical A120.1 and Electric A214: Change Floor finish from “Sealed Concrete” to “VCT.”
C. At Team Meeting A129: Change floor finish from “VCT” to “Carpet Tile.”

26. DRAWING A11.2 ROOM FINISH SCHEDULE SECTION B-B

A. At Storage B140.1 and Gym Storage A140.2: Delete Keynote “P3”

27. DRAWING A11.3 ROOM FINISH SCHEDULE SECTION C-C

A. At Corridor C170 and Corridor C180: Add key note “P3”.
B. At Ther Pl C193.2: Change keynote from “P3” to “P5”.
C. At Electrical C183 and Emerg Elec C183.1: Change Floor finish from “Sealed Concrete” to “VCT.”

28. DRAWING A11.4 – LOWER FLOOR FINISH PLAN – SECTION C-C

A. Girls C064, Boys C063: Epoxy paint to be 2 colors, EP-CCO and EP-G

29. DRAWING A11.6 – MAIN FLOOR FINISH PLAN – SECTION B-B

A. Men B142: Revise floor type to EP BB2. Women’s B141: Revise floor type to EP BB1.

30. DRAWING A11.8 – UPPER FLOOR FINISH PLAN – SECTION A-A

A. Girls A228, Boys A227: Epoxy paint to be 2 colors EP CCO and EP-G.

31. DRAWINGS A11.4 THROUGH A11.8

A. Under Alternate #2 refer to attached updated Appendix O for color selection for all corridors.

32. DRAWING P3.1 – GROUND LEVEL ABOVE GRADE PLUMBING PLAN – SECTION C-C

A. Near column line C-20, in the corner of Classroom C091, the 8” Emergency Rain Leader drops in the chase to the outlet. The piping from the Main Level is 6”, therefore change the note for this to read: “6” Emergency Rain Leader up and 8” drop”.
B. In Janitor C088, the Plumbing Contractor can use the RPZ Backflow Preventer with ½” NPCW piped to the hose bib above the mop sink for the soap dispenser connection for hose bib in Janitor C184 above the mop sink. Then, the ½” RPZ Backflow Preventer in Janitor C184 can be removed.

33. DRAWING P3.5 – UPPER LEVEL ABOVE GRADE PLUMBING PLAN – SECTION A-A

A. Near column line B-7, in the corner of Gymnasium B140, two 5” emergency overflow drains combine to a 6” riser. Any horizontal piping installed after these lines join must be pitched at ¼” per foot. Then, the 6” piping can remain as 6”.

34. DRAWING P4.5 – PLUMBING SCHEDULES

A. Replace the Hot Water Storage Tank Schedule with the schedule shown on ADD-5/P-001.
B. Add Plumbing Note #26 to read: “Refer to drawing H6.2 Boiler Plant Piping & Control Diagram for BMS Control System points/nodes associated with the Plumbing Systems.

Coordinate with HVAC Contractor and their ATC Subcontractor for interfacing and mounting of these controls in or onto the plumbing equipment shown."

35. DRAWING H3.3 – Main Level HVAC Ductwork Plan – SECTION B-B

A. Refer to ADD-5/H-002.
B. Refer to ADD-5/H-003.

36. DRAWING H3.8 – HVAC Roof Plan – SECTION B-B

A. Refer to ADD-5/H-002.

37. DRAWING H6.1 – HVAC Controls

A. Relabel the hood connected to DEF-1 from "Dryer Hood" to "Dishwasher Hood".

38. DRAWING H6.2 – HVAC Controls

A. Refer to ADD-5/H-001.

39. DRAWING H7.1 – HVAC Controls

A. In the Gas Fired Boiler Schedule replace note #5 regarding minimum boiler flow with the following #5 Provide disconnect switch.
B. In the Diffuser, Register & Grille Schedule under RG-6 add note #6.
C. In the Fan Coil Schedule add the following to note #1: "Provide disconnect switch."
D. In the Air Cooled Condensing Unit Schedule add the following to note #1: "Provide disconnect switch."

40. DRAWING E9.1 – LIGHTING FIXTURE SCHEDULE

A. Light fixture type "D", add note to read as such; "Wired via DALI driver".
B. Light fixture type "DP84" and "DP132", revise manufacturer to "INSIGHT".
C. Two entries for light fixture type "U" have been listed. Delete light fixture type "U – 2'x4' Prismatic Fixture". Light fixture type "U – 2'x4' Troffer" to remain.

41. DRAWING E9.7 – ELECTRICAL PANEL SCHEDULES

A. Panel P1B, Revise note to read as such; "Provide GFCI circuit breakers for circuits 6, 13, 20 and as noted."
B. Panel P1B, revise circuit breaker size to 20A-2Pole for circuit P1B-34,36.

42. DRAWING E9.8 – ELECTRICAL PANEL SCHEDULES

A. Panel SLBC, revise circuit breaker size to 110A-3Pole for circuit SLBC-1,3,5.

43. DRAWING E9.9 – ELECTRICAL PANEL SCHEDULES

A. Panel SP1B2, Revise note to read as such; "Provide GFCI circuit breakers for circuits 8, 10, 11, 15, 23, 25, 27 and as noted."

PART 4 TRADE CONTRACTORS QUESTIONS AND RESPONSES

QUESTION	RESPONSE
QUESTION 13 1.) We would like to obtain colored elevation drawings for purposes of estimating the quantity of each type of brick 1-5. The brick are not the same prices, so carrying one amount will not work. As there are notation symbols all over the drawings, sometimes, there is confusion and not clear delineation of where one brick stops and another starts. 2.) Please confirm that Sections 04 41 00 Stone and 04 41 14 Salvaged Stone Wall with Cap are not part of the Masonry Filed Sub-Bid. There is no reference to them in Section 04 20 00. Boulder work and rock scrambles, etc. are not part of the mason's work and would be part of the site contractor or landscape contractor's work as Site Improvements.	1) Please review the elevations as clarified under addenda # 4, the pattern is fairly clear on reviewing 2) please reference question 1' response in addenda # 4
QUESTION 14 FILED SUB-BID SECTION 070002 ROOFING AND FLASHING 1) SECTION 007300 - SUPPLEMENTARY INSTRUCTIONS TO BIDDERS 13. Trade Specific Scopes of work – Roofing and Flashing Item#6: Remove Snow as necessary to continue and complete work without delay due to weather. The removal of snow necessary to complete our work is impossible to determine so in fairness to all bidders an allowance should be provided for bidders to include with the bids. 2) Please issue an addendum clarifying the intent of the contract documents. Item#18: Roofer shall take appropriate measure to protect roof during and after installation. We presume that the roof protection is for our own workers only. Please issue an addendum clarifying the intent of the contract documents if our understanding is incorrect. 3) SECTION 075419 – POLYVINYL-CHLORIDE (PVC) ROOFING 075419 – 1.2 SUMMARY - A1. Fully Adhered polyvinyl chloride (PVC) sheet roofing system… 075419 – 2.1 MANUFACTURERS - A1. Fully Adhered Roofing: Sika … 075419 – 3.6 FULLY ADHERED INSTALLATION – MEMBRANE 075419 – 2.1 MANUFACTUERS – A.1 Sarnafil S327 Membrane (Note: S327 membrane – Typical mechanically-fastened sheet, G410 membrane is the typical Fully Adhered sheet) 075419 – 3.6 FULLY ADHERED INSTALLATION – B. 12 inch on center @ ½ sheets (36 inch width sheets or 18 inches on center @ seams 60 inch width full sheets. 075419 – 3.6 FULLY ADHERED INSTALLATION – C. Apply membrane and mechanical attachment devices… The above paragraphs are calling for a Fully Adhered roof system which typically uses 10 foot wide roof sheets but the description and installation paragraphs describe a mechanically-fastened roof system with 6 foot field sheets and 3 foot ½ sheets. We presume that this a Fully Adhered roof system and not mechanically-fastened as described. Please issue an addendum clarifying the intent of the contract documents if our understanding is incorrect. . 4) 075419 – 1.14 WARRANTY 077100 – 1.10 WARRANTY Due to the lack of adequate time and resources during the bid process; it is not possible for us to confirm with each of the specified manufacturer's, that the specified roof system types, the material components to be applied and the application methods to be employed on this project meet the specified warranty requirements. In consideration of this and the project design professionals expertise and design responsibility; we must we must rely on the assumption that the specific roof system type, the material components to be applied and the application methods to be employed on this project are	1) CM response, snow removal addressed in this addenda 2) CM response, assumptions are correct 3) Addressed in this addenda 4) The contract requirements are as published 5) The contract requirements are as published 6) CM response, assumptions are correct 7-10) addressed in addenda 4 and 5

QUESTION	RESPONSE
specified because they do in fact meet the specified warranty criteria. Also, we as roofing contractors are not in a position to dictate to the specified manufacturer's what their warranty coverage's, terms and conditions need to be for a specific project. Nor do we have adequate time and resources during the bid process to review each of the specified manufacturer's warranties and compare their coverage's, terms and conditions to those required by the project specification. As such warranty coverage for this project will be determined by the specified manufacturer for the product(s) specified. Warranty terms and conditions will be as stipulated per the manufacturer's standard warranty, as published at the time of this bid. Please issue an addendum identifying which of the specified manufacturer's (if any) has confirmed that their system, products or application as specified will not meet the specified warranty criteria. In the absence of our receiving this addendum our bid pricing must be based on providing the specified roof system, material components and application methods and the specified manufacturer's standard warranty, as published at the time of this bid for the specified roof system, material components and application methods. 5) 075419 – 2.2 SYSTEM DESCRIPTION – C. Performance Requirements 077100 – 1.7 QUALITY ASSURANCE Due to our lack of expertise in roof system design, as well as the lack of adequate time and resources during the bid process; it is not possible for us to confirm that the specified roof system types, the material components to be applied and the application methods to be employed on this project meet the specified performance criteria or state and local building codes. In consideration of this and the project design professionals expertise and design responsibility; we must rely on the assumption that the specific roof system types, the material components to be applied and the application methods to be employed on this project are specified because they do in fact meet the specified performance criteria environmental criteria, state and local building codes. Please issue an addendum identifying which of the specified manufacturer's (if any) has confirmed that their system, products or application as specified will not meet the specified performance/environmental criteria or state and local building codes. In the absence of our receiving this addendum our bid pricing must be based on providing the specified roof system, material components and application methods. . 6) 075419 – 3.9 PROTECTION A. Provide special protection…Contractor is responsible to restore to original condition, or replace, work and roofing materials damaged by work of other trades. 007300 – General requirements Item#38: All subcontractors shall take precautions against damaging the work of other trades including roofing…costs for repairs shall be borne by the offending subcontractor(s). We interpret this specification requirement to intend that the Roofing Trade Contractor protect the membrane from its work only and to repair or clean the membrane damaged or soiled by its work only based on the above item#38. We believe this intent is reasonably inferred because it is the fundamental obligation of all Trade Contractors and/or subcontractors to respect and protect surrounding or adjoining work from potential damage during the performance of their work and to be responsible for damages caused by them. Also, pursuant to the General Conditions included within the contract documents, the Construction Manager shall be responsible to take all reasonable precautions for the prevention of damage to all the Work and all materials and equipment to be incorporated therein. As such, we would expect that the Construction Manager will require that all other Trade Contractors and/or subcontractors provide work platforms and/or traffic protection as required to perform their work and will hold them responsible to restore to original condition, or replace work and roofing materials damaged by them. Please issue an addendum clarifying the intent of the contract documents if	

QUESTION	RESPONSE
our understanding is incorrect. 7) SECTION 076200 SHEET METAL FLASHING AND TRIM 076200 - 1.2 SUMMARY – B. Furnish the following items for installation under related sections. 1. Aluminum head flashing…and two-piece aluminum counterflashing (piece#1) furnished for installation under Section 074243. 074243 – 2.9 ACCESSORIES – F. Flashing including but not limited…Aluminum sheet, minimum 0.040inch…finished to match adjacent panels. 8) Architectural drawing details: Typical head detail 2, 3, 9/A6.21 - Concealed zinc Coated copper through wall flashing with continuous hook strip by 074243 typical 9) Architectural drawing details: Typical Two (2) piece through wall flashing detail 2/A6.26, 1, 3, 4/A6.27 – Two (2) piece concealed zinc coated copper through wall flashing by 074243 supply roofer with piece 2 (counterflashing) for installation; typical. The above section 076200 calls for furnishing aluminum head flashing and 2-piece aluminum counterflashing to 074243 for installation by them but the typical architectural head details lists ZCC through wall flashing by . 074243 and the typical 2-piece counterflashing to be supplied by section 074243 for installation by roofer. Please identify the locations where section 076200 is to supply the aluminum head flashings and 2-piece flashing to section 074243 for installation by them. Please issue an addendum clarifying the intent of the contract documents. 10) ARCHITECTURAL DRAWINGS Roof Details @ parapet 5/A6.25 and 6/A5.26 – Rigid wall insulation behind plywood and PVC roof membrane. We believe that the rigid wall insulation behind the exterior grade plywood and PVC roof membrane flashing shown at these details is by section 074243. The typical roof to wall details at the composite walls indicate “3-inch rigid wall insulation at composite wall panel by 074243 typical”. Please issue an addendum clarifying the intent of the contract documents if our understanding is incorrect. In the interest of ensuring a competitive and responsible bid process and to avoid conflicts that could result in increased costs; we respectfully request that an addendum be issued to clarify the intent of the contract documents as requested and/or for those items where our interpretation differs from yours.	
QUESTION 15 Section 076200 1.2-B-i tells us to provide aluminum head and aluminum piece #1 of the 2 piece counterflash to the panel contractor for him to install. The head details on A6.21 and counterfiash detail on 2 A 6.26 indicate that not only is this product zinc copper that the panel contractor is furnishing and installing (as he should) but per note on 2-A 6.26 the panel contractor is in fact supplying the roofer with the counterfiash portion. Please clarify.	1) addressed in addenda 4 and 5
QUESTION 16 As a prequalified FSB for Painting, we request clarification on the following: 1) Can you please share the full list of prequalified bidders for each trade and the estimated budget for each? 2) Section 09 91 00.1.2.B.13 states that this section is responsible for "Sealing of concrete slabs at carpet locations." Please clarify if this is part of the scope of work for this particular project.	1) Please refer to the City’s Bidding site, and the budgeted cost of the painters trade was published w/ the RFQ for painting 2) item 13 deleted w/ this addenda 3) Addressed in this addenda 4) Yes, label as specified

QUESTION	RESPONSE
3) Please clarify the intent of section 099100.3.7.B. If the FSB for painting is expected to protect all finished surfaces from damages by other trades until the architect conducts a final review of all work, how is the FSB for Painting expected to follow these guidelines? Without an issued allowance for labor hours for repair of damage to painted surfaces by other trades, it is nearly impossible for the FSB for Painting to apply the appropriate cost for this scope of work. 4) Please clarify whether Section 09 91 23.1.3 is indeed part of the scope for this project.	
QUESTION 17 Please review the items below and address accordingly. 1) The window model that is specified in the window specification section 085113 is the 3902 series, by Efco Corp. The window details that are shown in the architectural drawings is 325 series, by Efco Corp. The glass make up of 1 5/16" overall thickness will not fit in the 3902 series. It will fit in the 325 series. We need to either switch out the window series or change the make up of the insulated glass. Please advise. 2) On architectural sheet A6.32, the window detail bubbles on window types W1, W2 and W3 are incorrect. They direct us to locations within the drawings that do not show window details. Please advise. 3) The air barrier membrane that is specified in the aluminum window specifications and the aluminum storefront specifications is Aluma-GRIP 701, by Carlisle. The air barrier membrane that is specified in the aluminum curtainwall specifications is Tremco Proglaze ETA. These are two totally different products. Can you confirm if they should all be one product or the other, or if you actually want two different products. 4) In specification section 084413, 2.5 D, the formed aluminum flashing is to be made of .040" material. As per section 084413, 2.13 A, the formed aluminum flashing is to be made of .060" material. Can you please confirm which is correct? 5) In specification section 084413, 2.7, the door hardware reads as follows: This can be interpreted in different ways. We read it as, the door hardware will be furnished by another contractor to this filed sub trade contractor, for installation onto the doors and frames. Can you please confirm that this is correct?	1) All reference to air barrier membrane in 08 43 13 – Storefront will be deleted in ADD5. Storefront is interior there is no need for air barrier membrane. 2) In ADD4 the window barrier membrane was clarified to be transition membrane Tremco Proglaze ETA type. 3) All reference to air barrier membrane in 08 43 13 – Storefront will be deleted in ADD5. Storefront is interior there is no need for air barrier membrane. In ADD4 the window barrier membrane was clarified to be transition membrane Tremco Proglaze ETA type. 4) Flashing is specified as .040, and is to be used as typical, 084413, 2.13 A, is for aluminum panning (that believe is not typically used on this project)
QUESTION 18 SECTION 075419 – POLYVINYL-CHLORIDE (PVC) ROOFING SECTION 077100 – ROOF SPECIALTIES 075419 – 1.14 WARRANTY 077200 – 1.9 WARRANTY 1.15 Warranty 3. Applicator shall supply Owner with a separate 5 year workmanship warranty. The industry standard is to provide a two (2) year workmanship warranty to run concurrent with the membrane manufacturer's roof system warranty. If Roofing Subcontractors are required to provide in excess of the industry standard, it will most likely restrict the number of Roofing Subcontractors willing or able to submit a bid for this project. Is it truly the intent of the contract documents to require the Roofing Subcontractors to provide a Five (5) year workmanship warranty? In the interest of ensuring a competitive and responsible bid process and to avoid conflicts that could result in increased costs; we respectfully request that an addendum be issued to clarify the intent of the contract documents as requested and/or for those items where our interpretation differs from yours.	Addressed in addenda #4
QUESTION 19 07 54 19 Can you please confirm that the HVAC sub is resonsible for hoisting the large RTU curbs to the roof and setting/installing and the roofer is only to install the small fan curbs.	HVAC is responsible for hoisting and setting curbs and equipment under their section
QUESTION 20 Here is a RFI on the HVAC Are 2 guides required on each side of the expansion loops and flex	The guides are required as shown on the drawings. The number and location of guides corresponds to the expansion joint

QUESTION	RESPONSE
connectors per detail on H-5.1? Standard practice is to have only 1 guide on each side.	manufacturers recommendations
QUESTION 21 07 00 01 Detail 21/a6.5/21 calls out waterproofing below grade. There is no waterproofing spec provided for this product. The butuminous damproofing spec calls out damproofing over ext foundation walls below grade. Should referenced detail be waterproofing or dampproofing	Addressed in addenda #4
QUESTION 22 I just noticed an issue with the acoustic roof deck. Page 075419-1 Paragraph 1.2/A/2/a instructs the roofer to furnish and install insulation in the deck flutes. Page 053100-7 Paragraph 3.04/H instructs that section to install the same item. However, both 053100 and S3.9 specify either Type BCA (1-1/2") or Type NCA (3") deck. Both profiles have a perforated liner panel installed at the factory, along with the insulation batts. Could this be clarified, please?	Type NCA is not used on this project, therefore there is no requirements,, the cellular deck as noted comes pre-insulated
QUESTION 23 We are bidding on the Resilient Flooring and the Ceramic Tiling for this project and have a few questions that need clarifying please. 1) Under the Ceramic Tiling spec 09 30 13 1.7.C.1 it calls for Extra Stock of 3%. In section 1.13 Extra Materials it calls for 5%. Which is correct? Under the Resilient Tile Flooring: 2) Alternate #2 states: Section:012300 Alternates, page 1,1.4 B. ALTERNATE 2 – Linoleum Flooring at Classrooms and Corridors a) Base bid: Provide vinyl composition tile flooring as indicated on the Drawings and as specified in Section 09 65 19 – Resilient Tile Flooring. b) Alternate number 2: In lieu of vinyl composition tile flooring provide linoleum tile at classroom spaces and sheet linoleum at corridors as indicated on the Drawings and specified in Section 09 65 43 – LINOLEUM FLOORING. Please clarify: a) Based on alternate #2, the classrooms would be Linoleum Tile. Does that mean just the Classrooms or are other rooms like OBSERV, THER PL and the STORAGE areas to remain as VCT or changed to Lino Tile as well for the Alternate#2? b) Are all Main Corridors to be sheet linoleum in lieu of VCT or just the Corridors connecting the Classrooms? c) Are Corridors with one color Sheet Linoleum and the Classroom areas would be one color Linoleum Tile? 3) We are assuming that the Sheet Linoleum in B145 (Cafeteria) and B150 (Lobby) is in the Base Bid and remains, not part of Addendum #2? 4) A129(Team Meeting)-Finish Schedule call for VCT, but the finish plan A11.5 shows CPT-5. What product would be carried? 5) C183(Electrical)-Finish Schedule call for Concrete Sealed, but the finish plan shows VCT. What product would be carried?	1) clarified in this addenda 2) Clarified in this addenda and other question responses 3) Correct, these remain as base bid linoleum, as shown, specified 4) CPT-5, clarified in this addenda 5)VCT (Lino under alternate) clarified in this addenda
QUESTION 24 Resilient Flooring: 1) Appendix O –Finish List dated 1/26/2016 on page 1 reference "Modular Linoleum Alternate G" to be used in "Corridors". Alternate #2 calls for "Sheet Linoleum" to be used in Corridors. 1) Please clarify if under Alternate #2 Corridors are Sheet Goods or Tiles? 2) If Sheet Linoleum, what color or pattern is to be used? 2) Ceramic Tiling: Appendix O – Finish List pages 3 and 4 reference "Glazed Ceramic Cove Base Alternate at Tile". What Alternate number is this under? Is this an Alternate for CT base in lieu of Vinyl Base in the Corridors? Is this an Alternate for Epoxy Base in Toilets? The Finish List now calls for all the Ceramic Tile Walls to be a 50/50 mix of two colors. Is this correct for Corridors as well as Toilets? The Corridor Elevations show areas of "ACCENT TILES" in shaded walls.	1) Appendix O is published as a reference for color patterns, Alternate # 2 is to substitute linoleum tile for VCT throughout, except at the main corridors, where sheet linoleum should be used. Color patterns shall be similar to the vct, so referenced in appendix O 2) Appendix O is published as a reference for color patterns, there is no ceramic tile base on the project

QUESTION	RESPONSE
Are we to ignore these notes and figure ALL walls with 50/50 mix? Please revise Elevations. The Glazed Bullnose is a different Accent color per the List. Is this just the top of the wall tile or is this Accent Bullnose carried around the Tack boards and Marker boards? Are the outside corners and bottom of the wall tile to be Bullnose to match one of the fields colors? If so which color? How about the 2"x6" Bullnose at the Stair walls. What color will these be? We need some clarification as to wall tile elevations as these tile colors are different price groups and the trim pieces are very different in price.	
QUESTION 25 Neither the architectural plans nor the plumbing plans show any roof drainage at the canopies. Please provide drainage plans for the canopies.	There are no roof drains at the exterior canopies
QUESTION 26 090006 Resilient Flooring 093013 Ceramic Tiling RFI 1) Addendum 4 added section 030510 Concrete Moisture Vapor Reduction Admixture. Per the unit pricing we are to carry a square foot price for section 096103. Since a concrete additive has been added to the project will this unit pricing be deleted as well as section 096102 water vapor emission control? If not, should a total moisture mitigation price be included in our bid price or is it just a square foot price to add/deduct if needed? Admixture's cannot be tested for moisture and only adhesion bond test. How will it be determined if moisture mitigation will be needed? 2) Within appendix O for some of the glazed ceramic cove base it says "alternate at tile" what alternate should this be added in for ceramic and deducted within the resilient bid? Is this cove base alternate only at corridors and/or toilet rooms?	1) Cost is to be carried by 09 61 02 as the established unit cost basis, and use will be determined at a later date under change order based on the cost per sf multiplied by the area actually used. No value is carried under the base bid. 2) Appendix O is published as a reference for color patterns, there is no ceramic tile base on the project
QUESTION 27 In reference to Section 00 73 00-25, HVAC, Par. 14, considering all the variables associated with any construction project it is impossible to determine prior to the bid if any project schedule will be met. Therefore please review and answer the following RFI questions. 1.) Please confirm if the owner is going to allow the permanent heating system to be used for the purpose of temporary heating during construction, yes or no? See attached Section 00 73 00 2.) If the answer to question one is yes, will all bidders be required to carry supplemental duct cleaning of the entire HVAC system? 3.) Who is responsible for all fuel and electrical costs associated with operating the permanent HVAC system for temporary heat? 4.) Will bidders be required to include a dedicated 24/7 watch for the purpose of temporary heat? If yes, who will pay for the costs of this 24/7 watch?	1) Yes 2) Temporary filter media is to be used 3) The Owner 4) No
QUESTION 28 (ADDENDUM#4) FILED SUB-BID SECTION 070002 ROOFING AND FLASHING (Pg.11) ITEM#26. SECTION 075419 – POLYVINYL-CHLORIDE (PVC) ROOFING (INSERT) 075419 – 1.2, A: #10. Transition membrane and sealant at voids in roof air vapor barrier, expansion locations and roof edge angle splice voids. (INSERT) 075419-2.5, D: Membrane Transition Flashing: 1. Preformed Silicone-Sealant Extrusion/Transition Strip System: 2. Sealants and primers as recommended by transition flashing manufacturer… We believe that the above Silicone Transition strip system was mistakenly inserted into in wrong section. The following details clearly indicate that the Transition membrane and sealant is by 072713 Typical. Referenced details – (ADD4/A-006, 13/A6.20, 1&3/A6.26, 3/A6.27).	The transition membrane was not mistakenly inserted into the wrong section. The roof air/vapor barrier membrane (AVB) typically cannot span gaps and does not have the elasticity to allow for relative movement of systems due to thermal and moisture variations and creep. Most likely the roof AVB will be installed prior to the wall AVB. Typically wall and roof AVB cannot be installed onto silicone transition membrane but silicone transition membrane can be installed onto both materials. Details 9 & 10 on A6.25 have the (roof) transition

QUESTION	RESPONSE
	membrane installed onto both membranes. In order for the roofing to progress without waiting for 07 27 13 the decision was made to include (roof) transition AVB in the roofing spec. Addendum 5 will include language in the details to identify the roofing transition membrane vs the wall transition membrane.
QUESTION 29 SUBMITTAL SUBSTITUTION REQUEST -Versico's Versiflex PVC	Response directly back to the man'f- Additional information on alternate warranty is requested
QUESTION 30 The information regarding the hoistway dimensions for the North Elevator/front and rear elevator (section 14 24 24 of the spec) conflicts with the information from the drawings (drawing A7.3). The drawings show that the North Elevator has clear hoistway dimensions 8'4" wide by 7'10 3/4" deep, which seem to be the accurate dimensions as a front and rear opening car would not fit in the dimensions show in the spec (8'4" by 6'11"). Please note there is no conflict with the South Elevator dimensions. Please confirm hoistway dimensions for the North Car (E2).	The Drawings are correct, clarified in this addenda
QUESTION 31 The Plumbing specifications and drawings have conflicting information as to ELECTRICAL/CONTROL WIRING owned by the Plumbing contractor . Can anyone tell me what drawing/spec pages in the Plumbing drawings clearly show what wiring , High or Low Voltage and the actual Equipment that needs it . There is vague and conflicting information About Wiring of CO and FG detection systems as well as Wiring of Radon Fans. A clear schedule of the Equipment , who owns low or high voltage , who provides said equipment and to what termination points , This information clearly marked on one drawing in the Plumbing Drawings would allow for a fair and more accurate Bid.	Please see revised Electrical Work specification in this addendum. The high voltage wiring is shown on the electrical drawings currently (kitchen power on drawing E2.9 and power for radon fans on E4.7 and E4.8). The low voltage wiring is not shown on the electrical drawings. Refer to detail 1.P4.3 for wiring of the Radon Fans in the Radon Vent Termination Details. Refer to detail 17/P4.3 for the Wiring Diagram for Commercial Kitchens. The Plumbing Contractor needs to hire the Electrical Contractor to perform all low voltage wiring. Note that the kitchen device locations are shown on the plumbing drawings, namely detail 1/P4.3. Controls are by the HVAC Contractor and are shown on the HVAC drawings, namely drawing H6.2, Boiler Plant Piping & Control Diagram.
QUESTION 32 1) During the estimation process we found that the zinc coated copper through wall flashing is 4 times the price of stainless steel. 2) In addition the zinc coated copper through wall flashing shown in details 4, 9 and 11 on A6.20 appear to be one piece with a termination bar, 3) however Section 2.8 B-D of the masonry specifications call for a self-sealing and adhering flexible concealed flashing with a hemmed stainless steel drip edge. 4) To reduce material costs and promote ease of installation, we would like to utilize the specified flexible flashing/drip edge option in place of the zinc coated copper flashing. Please clarify the desired material(s) for the mason's the thru-wall flashing.	1) Bid as specified 2) Only detail 9/A6.20 shows the termination bar detail, at the brick shelf 3)see detail 11/A6.20, termination membrane 4) for bidding, bid as specified (Commissioning agent had not endorsed flexible membranes)
QUESTION 33 We are one of the filed sub bidders on the referenced project and require further clarification on the following items. Please examine the list of joints below and confirm which caulk joints should be included by Section 079200 Joint Sealants. 1. Chair rails to wall joints 2. Stair stringers – top to drywall 3. Perimeter of access panels in drywall 4. Perimeter of access panels in masonry	Questions appear to be boilerplate, and believe in general to be covered in the contract set, w/ later specific questions by others picked up in addenda

QUESTION	RESPONSE
5. Masonry to drywall joints 6. Case work to drywall 7. Case work to masonry 8. Masonry to concrete joints 9. Concrete to drywall joints 10. Masonry wall to drywall ceiling joint 11. Water coolers to masonry wall joints 12. Mirror and bathroom fixtures to drywall joints 13. Wood sills to drywall 14. Wood sills to masonry 15. Metal lockers to drywall 16. Metal lockers to masonry 17. Corner guards to masonry 18. Corner guards to drywall 19. Wainscot to drywall 20. Tile to metal frames 21. Perimeter of metal lockers to adjacent surfaces	
QUESTION 34 1) Section 09 00 06: Addendum 4 adds specification 03 05 10, would this eliminate the required Unit Pricing as listed in section 01 22 00. 2) Section 09 00 06: Can the architect please clarify Alternate No. 2; Drawing A11.1, Note 1 states the following: "Alternate #2: Substitute Linoleum Tile for VCT". Specification section 01 23 00 states: "In lieu of vinyl composition tile flooring provide linoleum tile at classrooms spaces and sheet linoleum at corridors as indicated on the drawings and specified in Section…". Addendum 4, BlueLine Design color matrix Page 1 DESCRIPTION & PRODUCT columns call for "Modular Linoleum" & "Marmoleum Modular" respectively (Modular is Tile). These all contradict one another, please indicate what is the appropriate alternate to carry. 3) Section 09 00 06: Addendum 4, BlueLine Design matrix, page 1, bottom row "Modular Linoleum Alternate G" indicates in column 2 "at corridors", the same product on pages 2 & 3 does not indicate "at corridors" (or classrooms), is there to be a single random linoleum tile pattern for ALL the corridors and the tiles on pages 2 & 3 for the classrooms. 4) Section 09 00 06: If corridors under Alternate 2 are to be sheet linoleum: Addendum 4, BlueLine Design color matrix indicates a pattern for the Linoleum substitution under Alternate 2, please supply a drawing of these as it is necessary to determine waste and layout, this is not something that can be accurately bid without a definitive design being supplied so that all bidders are bidding the same thing and not a verbal interpretation of a pattern.	1) No, this does not eliminate unit pricing spec't carried under 09 00 09/09 61 03, see clarification question 28 2) Clarified in this addenda 3) Appendix O is a reference for finishes, discrepancies addressed in this addenda 4) Corridor pattern w/ Linoleum alternate to be addressed in this addenda
QUESTION 35 Please confirm that Filed Sub-Bid Section 08 00 08 owns both furnishing and installation of the glass railing for this project. Specification section 05 50 00 2.3A/B states that the metal fabrications supplier has to "Furnish all required fasteners for installation of glass panels furnished by Section 08 80 00 – Glazing". The 08 80 00 section does not list the glass railing under the 1.2 Summary of Work section. Also, please provide the type of glass required at hese locations.	Addressed in this addenda
QUESTION 36 Plumbing Question. Are cleanouts required on the radon underslab piping ?The Plumbing Below Grade drawings are showing Cleanouts on the Radon Gas UnderSlab piping , We have never installed cleanouts on this to date. There are 26 locations shown.	As noted, the system is clearly specified, in the plumbing scope and the cleanouts noted on the drawings, Yes this is in the plumbing scope
QUESTION 37 The Bid Documents call for the resilient flooring contract to supply and install moisture mitigation. The Bid Form has a SF unit price of $4.50 SF for Moisture Mitigation. Addendum #4 calls for a concrete add mixture for moisture mitigation. Question: 1) Is the resilient flooring contractor to INCLUDE moisture mitigation in the	See similar questions and responses

QUESTION	RESPONSE
base bid? 2) Just a unit cost of 4.50 SF, nothing in base bid? 3) Or will a moisture mitigation add mixture be used.	
QUESTION 38 Electrical -Which company currently has the "Shore Tel " Phone System contract/provider/or maintenance agreement with the City. I am having trouble finding someone to quote us on this part of the bid and would like to ask the current company already servicing Worcester Public Schools for a quote.	Current vendor information is provided in this addenda

PART 5 ATTACHMENTS

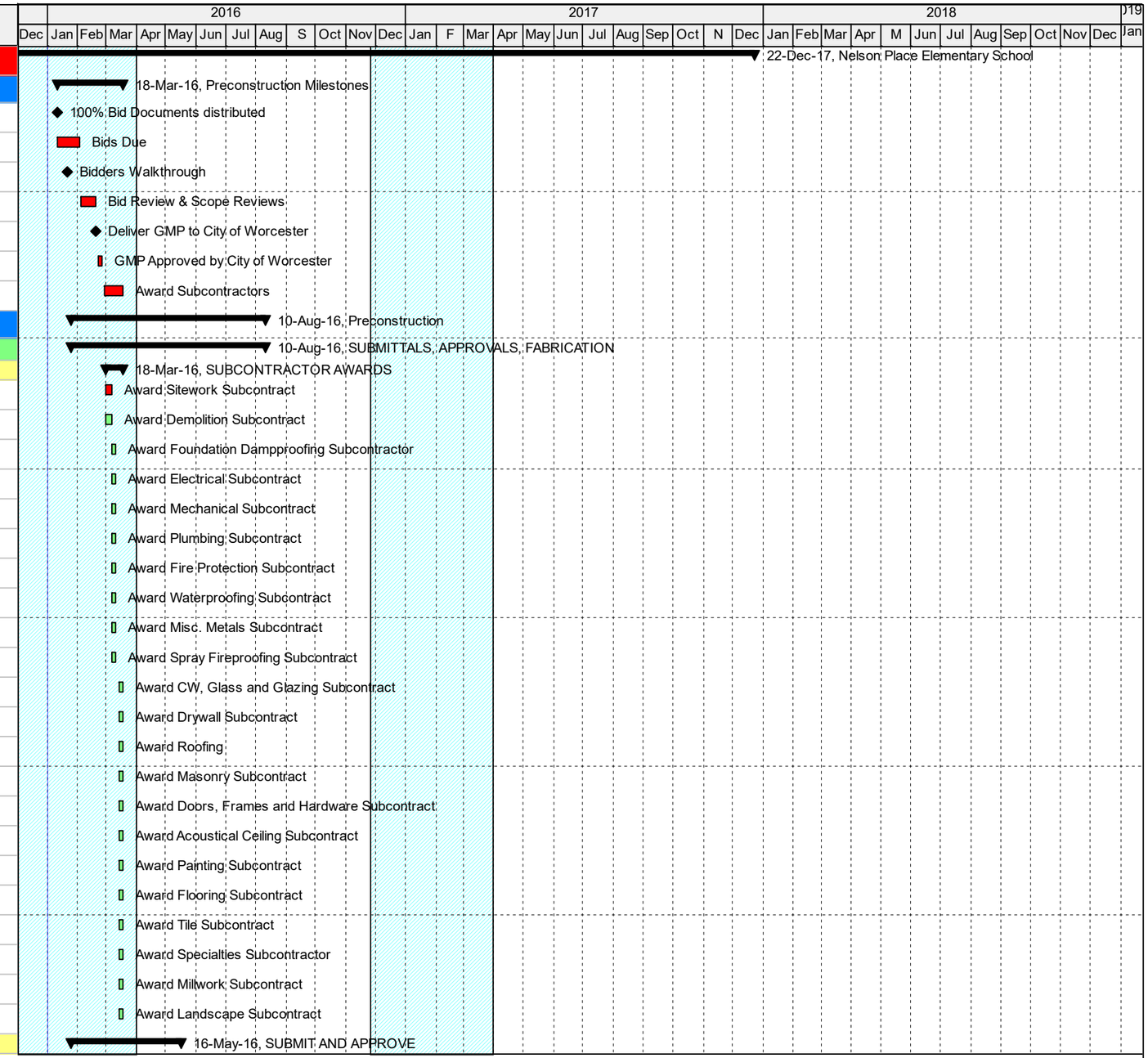
DOCUMENTS:
1. Updated Project Schedule

SPECIFICATIONS:
1. Specification Section 09 67 23 – Resinous Flooring
2. Appendix O

SKETCHES:
1. ADD-5/A-001 – Detail 9 on Sheet A6.20 Revision
2. ADD-5/A-002 – Slab Edge Detail At Firewall
3. ADD-5/A-003 – Detail 10 on Sheet A6.17 Revision
4. ADD-5/A-004 – Revised Window Type Elevation
5. ADD-5/A-005 – Revised Stair Section
6. ADD-5/A-006 – Detail A on Sheet A6.10 Revision
7. ADD-5/A-007 – Detail 1 on Sheet A6.22 Revision
8. ADD-5/A-008 – Detail 5 on Sheet A6.27 Revision
9. ADD-5/A-009 – Detail 5 on Sheet A6.25 Revision
10. ADD-5/A-010 – Detail 8 on Sheet A6.21 Revision
11. ADD-5/A-011 – Detail 9 on Sheet A6.21 Revision
12. ADD-5/A-012 – Exterior Elevations Brick Color Clarification
13. ADD-5/A-013 – Detail 4 on Sheet A6.22 Revision
14. ADD-5/A-014 – Detail 2 on Sheet As.22 Revision
15. ADD-5/A-015 – Music Classroom Elevations
16. ADD-5/A-016 – Stair Sections
17. ADD-5/A-017 – Detail 12 on Sheet A6.13 Revision
18. ADD-5/K-001 – Refrigeration Updates
19. ADD-5/P-001 – Hot Water Storage Tank Schedule
20. ADD-5/H-001 – Enlarged Mechanical Room Plan
21. ADD-5/H-002 – Main Level Partial HVAC Plan
22. ADD-5/H-003 – Kitchen Hood Exhaust System
23. ADD-5/SKE-005 – Electrical – Kitchen Plan

END OF ADDENDUM #5

Activity ID	Activity Name	Original Duration	Start	Finish
Nelson Place Elementary School		595d	01-Aug-15 A	22-Dec-17
Preconstruction Milestones		49d	11-Jan-16	18-Mar-16
10130	100% Bid Documents distributed	0d		11-Jan-16
10150	Bids Due	17d	12-Jan-16	03-Feb-16
10140	Bidders Walkthrough	0d		21-Jan-16
10160	Bid Review & Scope Reviews	12d	04-Feb-16	19-Feb-16
10170	Deliver GMP to City of Worcester	0d		19-Feb-16
10180	GMP Approved by City of Worcester	5d	22-Feb-16	26-Feb-16
10120	Award Subcontractors	15d	29-Feb-16	18-Mar-16
Preconstruction		140d	25-Jan-16	10-Aug-16
SUBMITTALS, APPROVALS, FABRICATION		139d	25-Jan-16	10-Aug-16
SUBCONTRACTOR AWARDS		14d	01-Mar-16	18-Mar-16
P1000	Award Sitework Subcontract	5d	01-Mar-16	07-Mar-16
P1775	Award Demolition Subcontract	5d	01-Mar-16	07-Mar-16
P1250	Award Foundation Dampproofing Subcontractor	5d	07-Mar-16	11-Mar-16
P1350	Award Electrical Subcontract	5d	07-Mar-16	11-Mar-16
P1400	Award Mechanical Subcontract	5d	07-Mar-16	11-Mar-16
P1500	Award Plumbing Subcontract	5d	07-Mar-16	11-Mar-16
P1600	Award Fire Protection Subcontract	5d	07-Mar-16	11-Mar-16
P1750	Award Waterproofing Subcontract	5d	07-Mar-16	11-Mar-16
P2100	Award Misc. Metals Subcontract	5d	07-Mar-16	11-Mar-16
P2650	Award Spray Fireproofing Subcontract	5d	07-Mar-16	11-Mar-16
P1275	Award CW, Glass and Glazing Subcontract	5d	14-Mar-16	18-Mar-16
P1650	Award Drywall Subcontract	5d	14-Mar-16	18-Mar-16
P1700	Award Roofing	5d	14-Mar-16	18-Mar-16
P1800	Award Masonry Subcontract	5d	14-Mar-16	18-Mar-16
P2200	Award Doors, Frames and Hardware Subcontract	5d	14-Mar-16	18-Mar-16
P2350	Award Acoustical Ceiling Subcontract	5d	14-Mar-16	18-Mar-16
P2400	Award Painting Subcontract	5d	14-Mar-16	18-Mar-16
P2450	Award Flooring Subcontract	5d	14-Mar-16	18-Mar-16
P2500	Award Tile Subcontract	5d	14-Mar-16	18-Mar-16
P2600	Award Specialties Subcontractor	5d	14-Mar-16	18-Mar-16
P2690	Award Millwork Subcontract	5d	14-Mar-16	18-Mar-16
P2700	Award Landscape Subcontract	5d	14-Mar-16	18-Mar-16
SUBMIT AND APPROVE		79d	25-Jan-16	16-May-16



Remaining Level of Effort
Summary
Actual Work
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Milestone

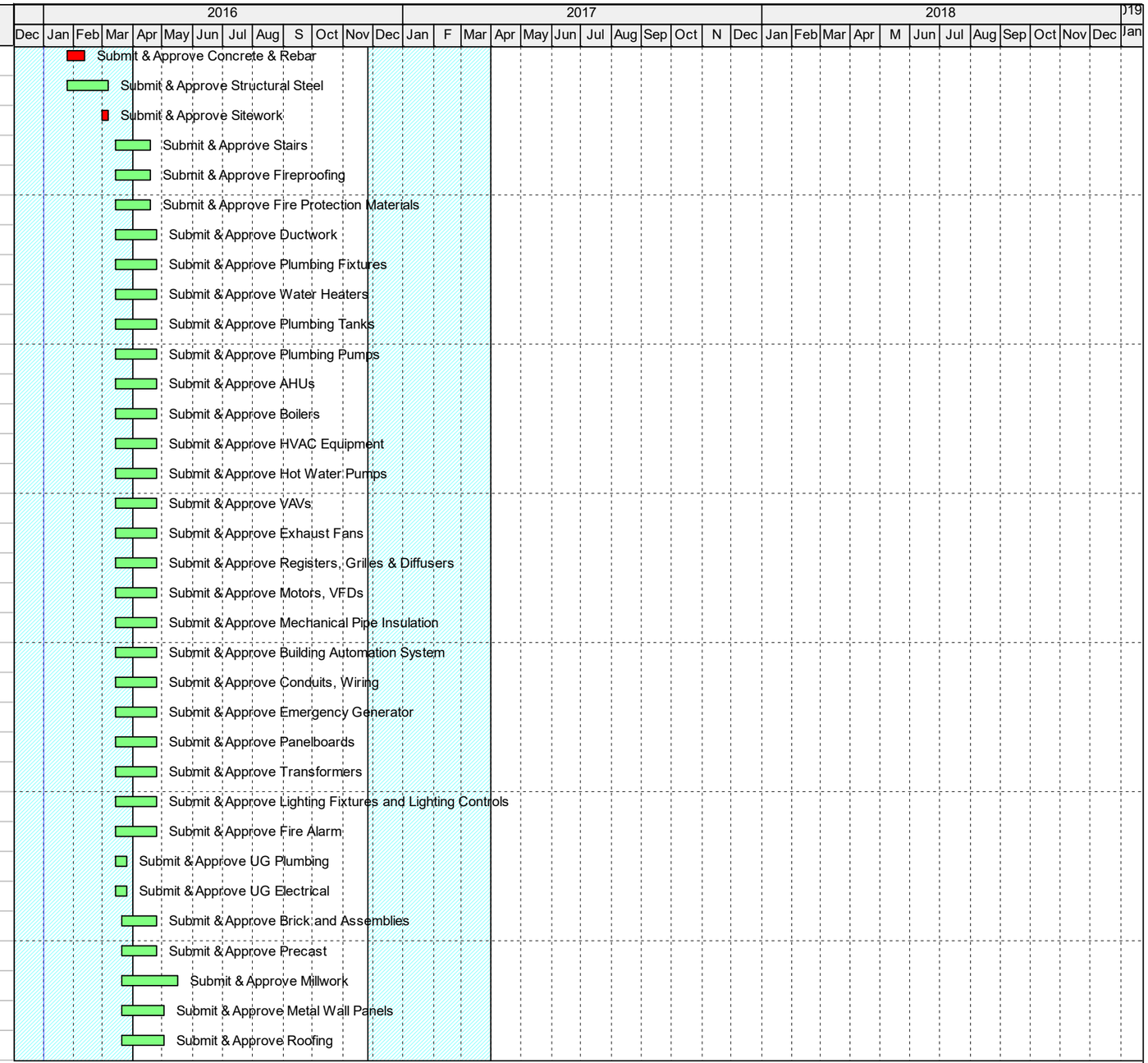
Nelson Place Elementary School

Preliminary Project Schedule

03-Feb-16

FONTAINE BROS., INC.

Activity ID	Activity Name	Original Duration	Start	Finish
S1100	Submit & Approve Concrete & Rebar	15d	25-Jan-16	12-Feb-16
S1200	Submit & Approve Structural Steel	30d	25-Jan-16	07-Mar-16
S1000	Submit & Approve Sitework	5d	01-Mar-16	07-Mar-16
S5100	Submit & Approve Stairs	25d	14-Mar-16	18-Apr-16
S7400	Submit & Approve Fireproofing	25d	14-Mar-16	18-Apr-16
S9010	Submit & Approve Fire Protection Materials	25d	14-Mar-16	18-Apr-16
S9045	Submit & Approve Ductwork	30d	14-Mar-16	25-Apr-16
S9050	Submit & Approve Plumbing Fixtures	30d	14-Mar-16	25-Apr-16
S9060	Submit & Approve Water Heaters	30d	14-Mar-16	25-Apr-16
S9070	Submit & Approve Plumbing Tanks	30d	14-Mar-16	25-Apr-16
S9080	Submit & Approve Plumbing Pumps	30d	14-Mar-16	25-Apr-16
S9090	Submit & Approve AHUs	30d	14-Mar-16	25-Apr-16
S9110	Submit & Approve Boilers	30d	14-Mar-16	25-Apr-16
S9120	Submit & Approve HVAC Equipment	30d	14-Mar-16	25-Apr-16
S9130	Submit & Approve Hot Water Pumps	30d	14-Mar-16	25-Apr-16
S9240	Submit & Approve VAVs	30d	14-Mar-16	25-Apr-16
S9250	Submit & Approve Exhaust Fans	30d	14-Mar-16	25-Apr-16
S9270	Submit & Approve Registers, Grilles & Diffusers	30d	14-Mar-16	25-Apr-16
S9300	Submit & Approve Motors, VFDs	30d	14-Mar-16	25-Apr-16
S9330	Submit & Approve Mechanical Pipe Insulation	30d	14-Mar-16	25-Apr-16
S9370	Submit & Approve Building Automation System	30d	14-Mar-16	25-Apr-16
S9390	Submit & Approve Conduits, Wiring	30d	14-Mar-16	25-Apr-16
S9400	Submit & Approve Emergency Generator	30d	14-Mar-16	25-Apr-16
S9420	Submit & Approve Panelboards	30d	14-Mar-16	25-Apr-16
S9430	Submit & Approve Transformers	30d	14-Mar-16	25-Apr-16
S9440	Submit & Approve Lighting Fixtures and Lighting Controls	30d	14-Mar-16	25-Apr-16
S9450	Submit & Approve Fire Alarm	30d	14-Mar-16	25-Apr-16
S9470	Submit & Approve UG Plumbing	10d	14-Mar-16	25-Mar-16
S9480	Submit & Approve UG Electrical	10d	14-Mar-16	25-Mar-16
S4010	Submit & Approve Brick and Assemblies	25d	21-Mar-16	25-Apr-16
S4020	Submit & Approve Precast	25d	21-Mar-16	25-Apr-16
S6000	Submit & Approve Millwork	40d	21-Mar-16	16-May-16
S7200	Submit & Approve Metal Wall Panels	30d	21-Mar-16	02-May-16
S7300	Submit & Approve Roofing	30d	21-Mar-16	02-May-16



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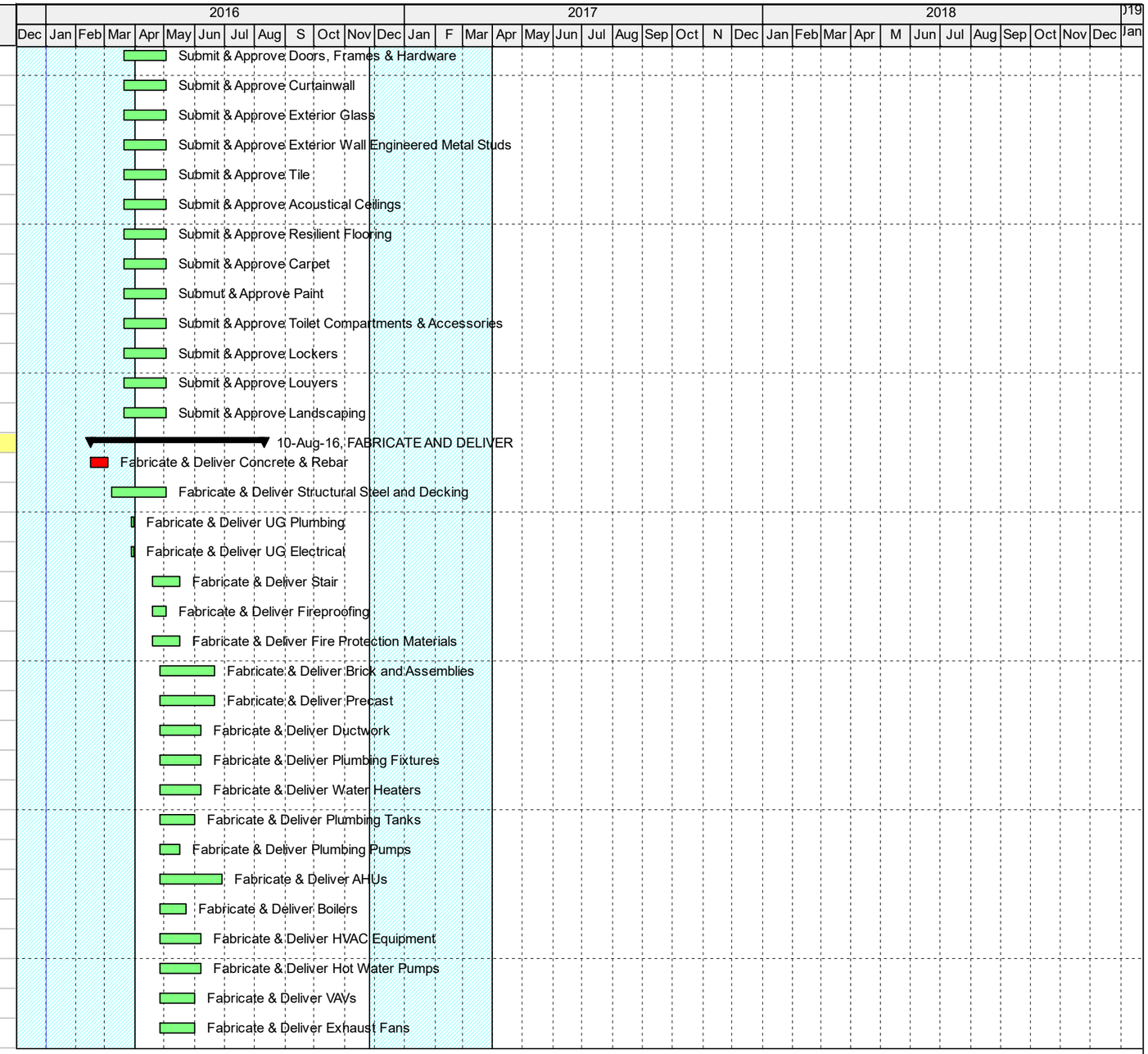
FONTAINE BROS., INC.

Activity ID	Activity Name	Original Duration	Start	Finish
S8000	Submit & Approve Doors, Frames & Hardware	30d	21-Mar-16	02-May-16
S8090	Submit & Approve Curtainwall	30d	21-Mar-16	02-May-16
S8110	Submit & Approve Exterior Glass	30d	21-Mar-16	02-May-16
S8140	Submit & Approve Exterior Wall Engineered Metal Studs	30d	21-Mar-16	02-May-16
S8150	Submit & Approve Tile	30d	21-Mar-16	02-May-16
S8160	Submit & Approve Acoustical Ceilings	30d	21-Mar-16	02-May-16
S8181	Submit & Approve Resilient Flooring	30d	21-Mar-16	02-May-16
S8190	Submit & Approve Carpet	30d	21-Mar-16	02-May-16
S8210	Submut & Approve Paint	30d	21-Mar-16	02-May-16
S8250	Submit & Approve Toilet Compartments & Accessories	30d	21-Mar-16	02-May-16
S8280	Submit & Approve Lockers	30d	21-Mar-16	02-May-16
S8310	Submit & Approve Louvers	30d	21-Mar-16	02-May-16
S9460	Submit & Approve Landscaping	30d	21-Mar-16	02-May-16
FABRICATE AND DELIVER		**124d**	**16-Feb-16**	**10-Aug-16**
F3910	Fabricate & Deliver Concrete & Rebar	14d	16-Feb-16	04-Mar-16
F5000	Fabricate & Deliver Structural Steel and Decking	40d	08-Mar-16	03-May-16
F3900	Fabricate & Deliver UG Plumbing	4d	28-Mar-16	31-Mar-16
F9470	Fabricate & Deliver UG Electrical	4d	28-Mar-16	31-Mar-16
F5100	Fabricate & Deliver Stair	20d	19-Apr-16	16-May-16
F7400	Fabricate & Deliver Fireproofing	10d	19-Apr-16	02-May-16
F9010	Fabricate & Deliver Fire Protection Materials	20d	19-Apr-16	16-May-16
F4010	Fabricate & Deliver Brick and Assemblies	40d	26-Apr-16	21-Jun-16
F4020	Fabricate & Deliver Precast	40d	26-Apr-16	21-Jun-16
F9047	Fabricate & Deliver Ductwork	30d	26-Apr-16	07-Jun-16
F9050	Fabricate & Deliver Plumbing Fixtures	30d	26-Apr-16	07-Jun-16
F9060	Fabricate & Deliver Water Heaters	30d	26-Apr-16	07-Jun-16
F9070	Fabricate & Deliver Plumbing Tanks	25d	26-Apr-16	31-May-16
F9080	Fabricate & Deliver Plumbing Pumps	15d	26-Apr-16	16-May-16
F9090	Fabricate & Deliver AHUs	45d	26-Apr-16	28-Jun-16
F9110	Fabricate & Deliver Boilers	20d	26-Apr-16	23-May-16
F9120	Fabricate & Deliver HVAC Equipment	30d	26-Apr-16	07-Jun-16
F9130	Fabricate & Deliver Hot Water Pumps	30d	26-Apr-16	07-Jun-16
F9240	Fabricate & Deliver VAVs	25d	26-Apr-16	31-May-16
F9250	Fabricate & Deliver Exhaust Fans	25d	26-Apr-16	31-May-16



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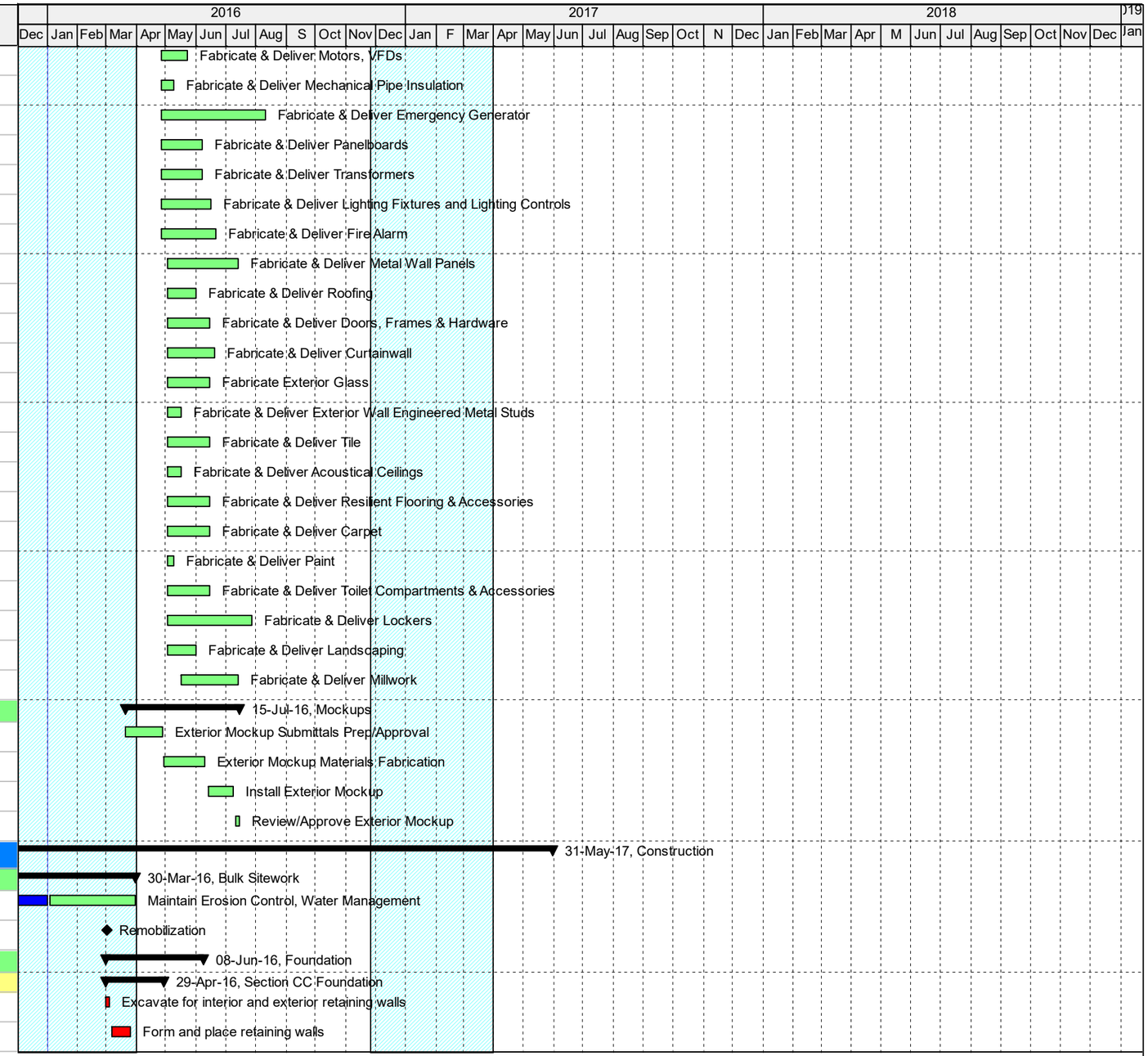
FONTAINE BROS., INC.

Activity ID	Activity Name	Original Duration	Start	Finish
F9300	Fabricate & Deliver Motors, VFDs	20d	26-Apr-16	23-May-16
F9330	Fabricate & Deliver Mechanical Pipe Insulation	10d	26-Apr-16	09-May-16
F9400	Fabricate & Deliver Emergency Generator	75d	26-Apr-16	10-Aug-16
F9420	Fabricate & Deliver Panelboards	30d	26-Apr-16	07-Jun-16
F9430	Fabricate & Deliver Transformers	30d	26-Apr-16	07-Jun-16
F9440	Fabricate & Deliver Lighting Fixtures and Lighting Controls	37d	26-Apr-16	16-Jun-16
F9450	Fabricate & Deliver Fire Alarm	40d	26-Apr-16	21-Jun-16
F7200	Fabricate & Deliver Metal Wall Panels	50d	03-May-16	13-Jul-16
F7300	Fabricate & Deliver Roofing	20d	03-May-16	31-May-16
F8000	Fabricate & Deliver Doors, Frames & Hardware	30d	03-May-16	14-Jun-16
F8090	Fabricate & Deliver Curtainwall	34d	03-May-16	20-Jun-16
F8110	Fabricate Exterior Glass	30d	03-May-16	14-Jun-16
F8140	Fabricate & Deliver Exterior Wall Engineered Metal Studs	10d	03-May-16	16-May-16
F8150	Fabricate & Deliver Tile	30d	03-May-16	14-Jun-16
F8160	Fabricate & Deliver Acoustical Ceilings	10d	03-May-16	16-May-16
F8181	Fabricate & Deliver Resilient Flooring & Accessories	30d	03-May-16	14-Jun-16
F8190	Fabricate & Deliver Carpet	30d	03-May-16	14-Jun-16
F8210	Fabricate & Deliver Paint	5d	03-May-16	09-May-16
F8250	Fabricate & Deliver Toilet Compartments & Accessories	30d	03-May-16	14-Jun-16
F8280	Fabricate & Deliver Lockers	60d	03-May-16	27-Jul-16
F9460	Fabricate & Deliver Landscaping	20d	03-May-16	31-May-16
F6000	Fabricate & Deliver Millwork	40d	17-May-16	13-Jul-16
Mockups		82d	21-Mar-16	15-Jul-16
M1000	Exterior Mockup Submittals Prep/Approval	28d	21-Mar-16	28-Apr-16
M1010	Exterior Mockup Materials Fabrication	30d	29-Apr-16	10-Jun-16
M1020	Install Exterior Mockup	19d	13-Jun-16	08-Jul-16
M1030	Review/Approve Exterior Mockup	5d	11-Jul-16	15-Jul-16
Construction		448d	01-Aug-15 A	31-May-17
Bulk Sitework		127d	01-Aug-15 A	30-Mar-16
13820	Maintain Erosion Control, Water Management	125d	01-Aug-15 A	30-Mar-16
11340	Remobilization	0d		01-Mar-16
Foundation		70d	01-Mar-16	08-Jun-16
Section CC Foundation		43d	01-Mar-16	29-Apr-16
11350	Excavate for interior and exterior retaining walls	4d	01-Mar-16	04-Mar-16
11360	Form and place retaining walls	15d	07-Mar-16	25-Mar-16



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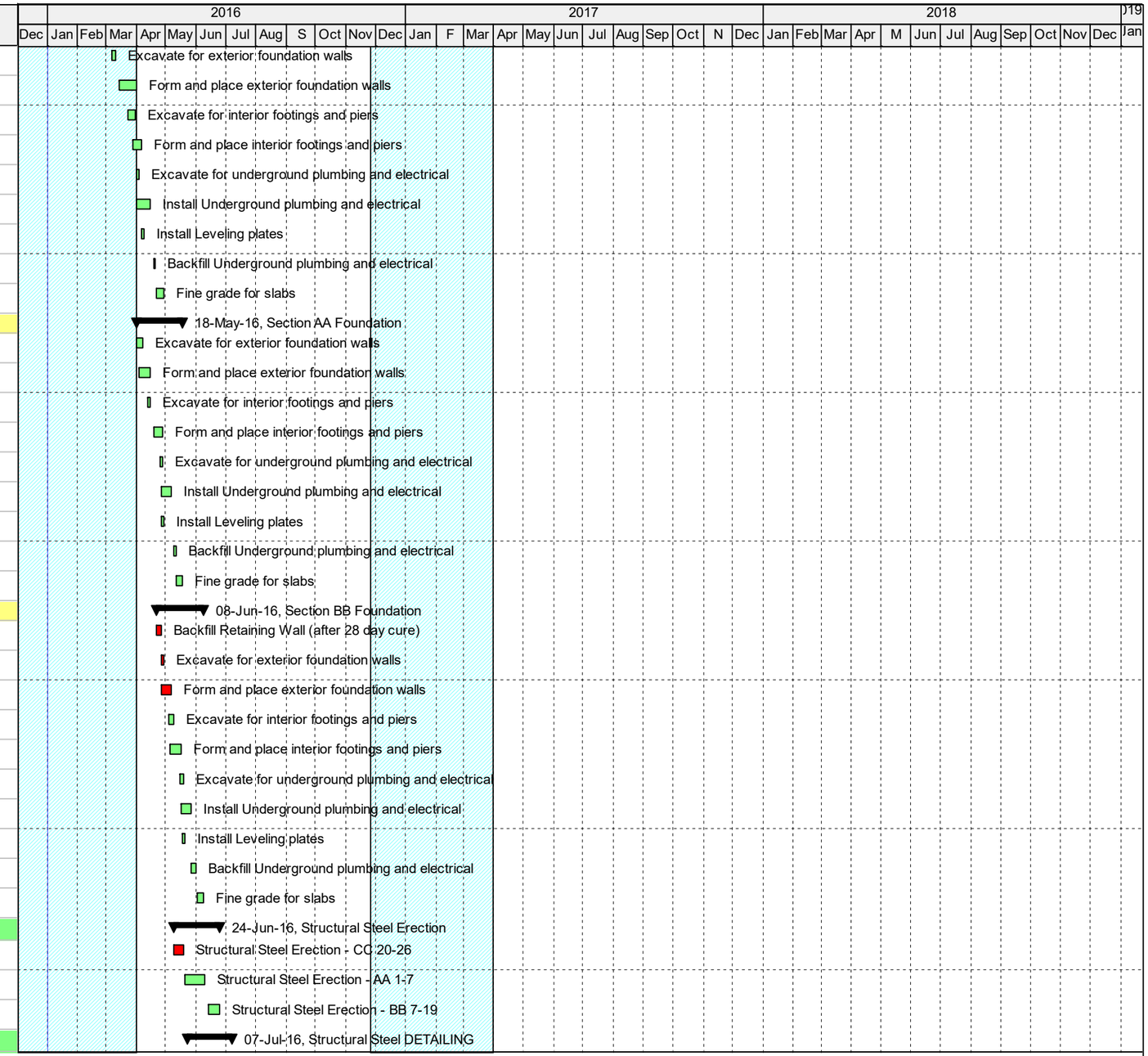
FONTAINE BROS., INC.

Activity ID	Activity Name	Original Duration	Start	Finish
11370	Excavate for exterior foundation walls	5d	07-Mar-16	11-Mar-16
11380	Form and place exterior foundation walls	15d	14-Mar-16	01-Apr-16
11390	Excavate for interior footings and piers	7d	23-Mar-16	31-Mar-16
11400	Form and place interior footings and piers	8d	28-Mar-16	06-Apr-16
11420	Excavate for underground plumbing and electrical	2d	01-Apr-16	04-Apr-16
11430	Install Underground plumbing and electrical	11d	01-Apr-16	15-Apr-16
11410	Install Leveling plates	3d	06-Apr-16	08-Apr-16
11440	Backfill Underground plumbing and electrical	2d	19-Apr-16	20-Apr-16
11450	Fine grade for slabs	7d	21-Apr-16	29-Apr-16
Section AA Foundation		33d	01-Apr-16	18-May-16
28900	Excavate for exterior foundation walls	5d	01-Apr-16	07-Apr-16
28910	Form and place exterior foundation walls	10d	04-Apr-16	15-Apr-16
28920	Excavate for interior footings and piers	3d	13-Apr-16	15-Apr-16
28930	Form and place interior footings and piers	7d	19-Apr-16	27-Apr-16
28950	Excavate for underground plumbing and electrical	4d	25-Apr-16	28-Apr-16
28960	Install Underground plumbing and electrical	9d	26-Apr-16	06-May-16
28940	Install Leveling plates	3d	27-Apr-16	29-Apr-16
28970	Backfill Underground plumbing and electrical	3d	09-May-16	11-May-16
28980	Fine grade for slabs	5d	12-May-16	18-May-16
Section BB Foundation		33d	22-Apr-16	08-Jun-16
29080	Backfill Retaining Wall (after 28 day cure)	3d	22-Apr-16	26-Apr-16
28990	Excavate for exterior foundation walls	4d	26-Apr-16	29-Apr-16
29000	Form and place exterior foundation walls	8d	27-Apr-16	06-May-16
29010	Excavate for interior footings and piers	4d	04-May-16	09-May-16
29020	Form and place interior footings and piers	9d	05-May-16	17-May-16
29040	Excavate for underground plumbing and electrical	4d	16-May-16	19-May-16
29050	Install Underground plumbing and electrical	9d	17-May-16	27-May-16
29030	Install Leveling plates	3d	18-May-16	20-May-16
29060	Backfill Underground plumbing and electrical	3d	27-May-16	01-Jun-16
29070	Fine grade for slabs	5d	02-Jun-16	08-Jun-16
Structural Steel Erection		34d	09-May-16	24-Jun-16
11570	Structural Steel Erection - CC 20-26	9d	09-May-16	19-May-16
11580	Structural Steel Erection - AA 1-7	15d	20-May-16	10-Jun-16
11590	Structural Steel Erection - BB 7-19	10d	13-Jun-16	24-Jun-16
Structural Steel DETAILING		32d	23-May-16	07-Jul-16



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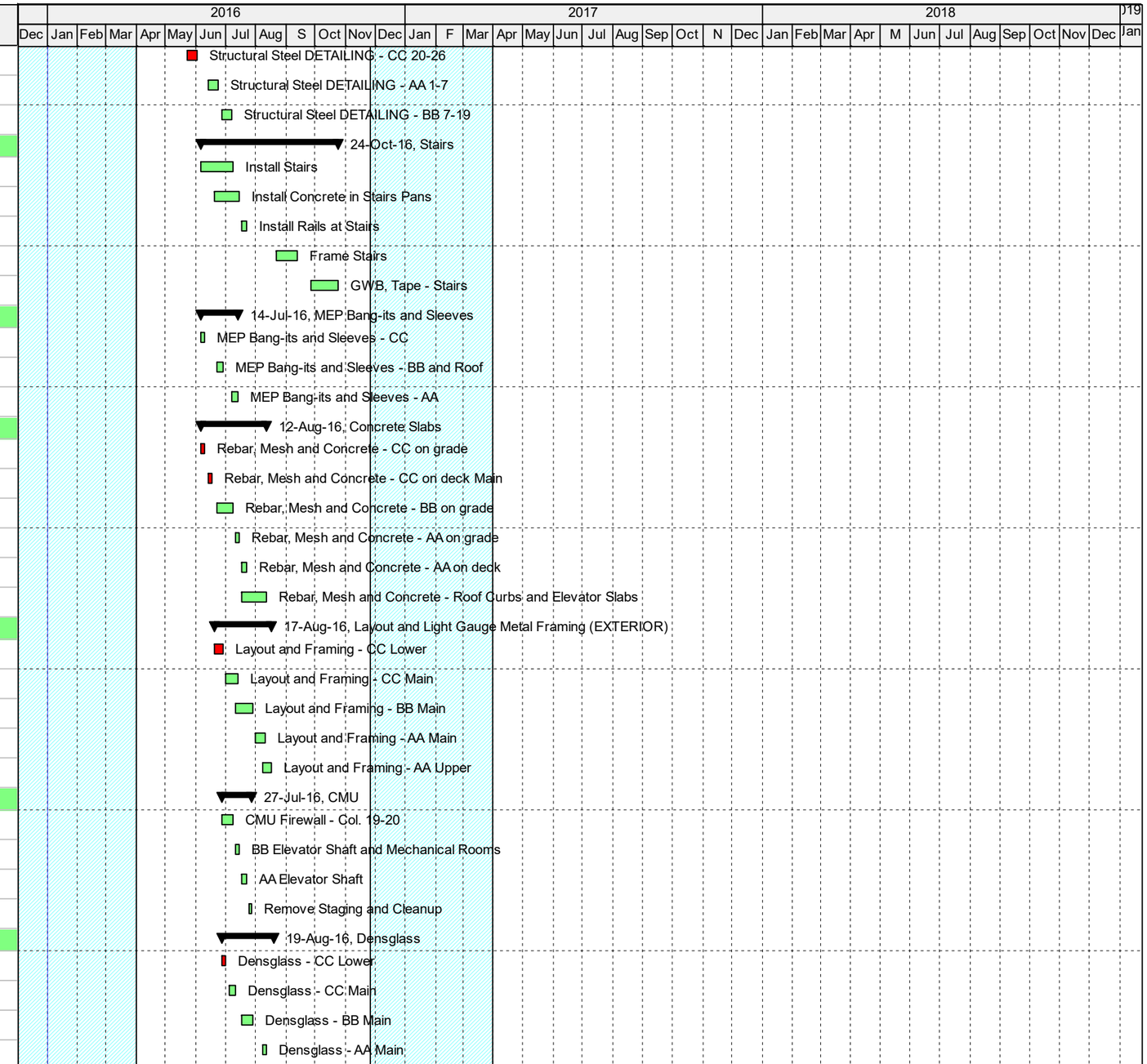
FONTAINE BROS., INC.

Activity ID	Activity Name	Original Duration	Start	Finish
12810	Structural Steel DETAILING - CC 20-26	8d	23-May-16	02-Jun-16
12820	Structural Steel DETAILING - AA 1-7	9d	13-Jun-16	23-Jun-16
12830	Structural Steel DETAILING - BB 7-19	8d	27-Jun-16	07-Jul-16
Stairs		99d	06-Jun-16	24-Oct-16
11840	Install Stairs	24d	06-Jun-16	08-Jul-16
21680	Install Concrete in Stairs Pans	19d	20-Jun-16	15-Jul-16
21720	Install Rails at Stairs	5d	18-Jul-16	22-Jul-16
21760	Frame Stairs	15d	22-Aug-16	12-Sep-16
21800	GWB, Tape - Stairs	20d	27-Sep-16	24-Oct-16
MEP Bang-its and Sleeves		28d	06-Jun-16	14-Jul-16
13150	MEP Bang-its and Sleeves - CC	5d	06-Jun-16	10-Jun-16
13160	MEP Bang-its and Sleeves - BB and Roof	5d	23-Jun-16	29-Jun-16
13170	MEP Bang-its and Sleeves - AA	5d	08-Jul-16	14-Jul-16
Concrete Slabs		49d	06-Jun-16	12-Aug-16
12980	Rebar, Mesh and Concrete - CC on grade	5d	06-Jun-16	10-Jun-16
12990	Rebar, Mesh and Concrete - CC on deck Main	5d	13-Jun-16	17-Jun-16
13000	Rebar, Mesh and Concrete - BB on grade	11d	23-Jun-16	08-Jul-16
26330	Rebar, Mesh and Concrete - AA on grade	5d	11-Jul-16	15-Jul-16
26340	Rebar, Mesh and Concrete - AA on deck	5d	18-Jul-16	22-Jul-16
26350	Rebar, Mesh and Concrete - Roof Curbs and Elevator Slabs	20d	18-Jul-16	12-Aug-16
Layout and Light Gauge Metal Framing (EXTERIOR)		42d	20-Jun-16	17-Aug-16
13500	Layout and Framing - CC Lower	8d	20-Jun-16	29-Jun-16
13510	Layout and Framing - CC Main	8d	01-Jul-16	13-Jul-16
13520	Layout and Framing - BB Main	15d	11-Jul-16	29-Jul-16
24160	Layout and Framing - AA Main	8d	01-Aug-16	10-Aug-16
24170	Layout and Framing - AA Upper	8d	08-Aug-16	17-Aug-16
CMU		22d	27-Jun-16	27-Jul-16
26360	CMU Firewall - Col. 19-20	9d	27-Jun-16	08-Jul-16
26370	BB Elevator Shaft and Mechanical Rooms	5d	11-Jul-16	15-Jul-16
26450	AA Elevator Shaft	5d	18-Jul-16	22-Jul-16
26460	Remove Staging and Cleanup	3d	25-Jul-16	27-Jul-16
Densglass		39d	27-Jun-16	19-Aug-16
13990	Densglass - CC Lower	5d	27-Jun-16	01-Jul-16
14000	Densglass - CC Main	5d	05-Jul-16	11-Jul-16
14010	Densglass - BB Main	10d	18-Jul-16	29-Jul-16
24180	Densglass - AA Main	5d	08-Aug-16	12-Aug-16



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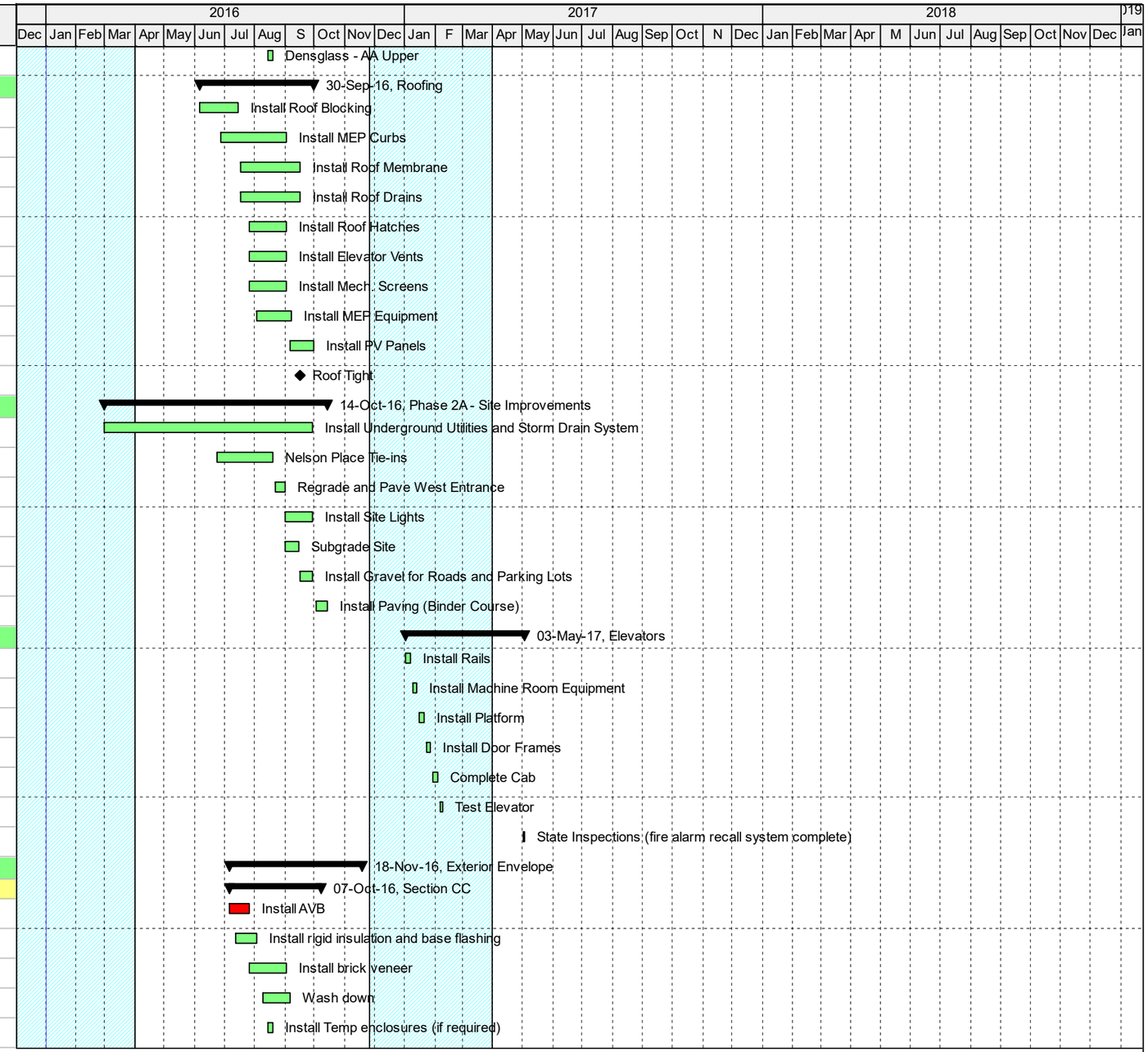
Activity ID	Activity Name	Original Duration	Start	Finish
24190	Densglass - AA Upper	5d	15-Aug-16	19-Aug-16
Roofing		83d	06-Jun-16	30-Sep-16
14020	Install Roof Blocking	29d	06-Jun-16	15-Jul-16
14040	Install MEP Curbs	49d	27-Jun-16	02-Sep-16
14030	Install Roof Membrane	44d	18-Jul-16	16-Sep-16
14050	Install Roof Drains	44d	18-Jul-16	16-Sep-16
14080	Install Roof Hatches	28d	27-Jul-16	02-Sep-16
14090	Install Elevator Vents	28d	27-Jul-16	02-Sep-16
14100	Install Mech. Screens	28d	27-Jul-16	02-Sep-16
14060	Install MEP Equipment	25d	03-Aug-16	07-Sep-16
14110	Install PV Panels	19d	06-Sep-16	30-Sep-16
14070	Roof Tight	0d		16-Sep-16
Phase 2A - Site Improvements		160d	01-Mar-16	14-Oct-16
11250	Install Underground Utilities and Storm Drain System	149d	01-Mar-16	29-Sep-16
11300	Nelson Place Tie-ins	40d	24-Jun-16	19-Aug-16
11310	Regrade and Pave West Entrance	9d	22-Aug-16	01-Sep-16
11260	Install Site Lights	20d	01-Sep-16	29-Sep-16
11270	Subgrade Site	10d	01-Sep-16	15-Sep-16
11280	Install Gravel for Roads and Parking Lots	10d	16-Sep-16	29-Sep-16
11290	Install Paving (Binder Course)	10d	03-Oct-16	14-Oct-16
Elevators		88d	02-Jan-17	03-May-17
14560	Install Rails	5d	02-Jan-17	06-Jan-17
14570	Install Machine Room Equipment	5d	09-Jan-17	13-Jan-17
14580	Install Platform	5d	16-Jan-17	20-Jan-17
14590	Install Door Frames	5d	23-Jan-17	27-Jan-17
14600	Complete Cab	5d	30-Jan-17	03-Feb-17
14640	Test Elevator	3d	06-Feb-17	08-Feb-17
14650	State Inspections (fire alarm recall system complete)	2d	02-May-17	03-May-17
Exterior Envelope		97d	06-Jul-16	18-Nov-16
Section CC		67d	06-Jul-16	07-Oct-16
24250	Install AVB	15d	06-Jul-16	26-Jul-16
24410	Install rigid insulation and base flashing	16d	13-Jul-16	03-Aug-16
24420	Install brick veneer	28d	27-Jul-16	02-Sep-16
24440	Wash down	19d	10-Aug-16	06-Sep-16
29260	Install Temp enclosures (if required)	5d	15-Aug-16	19-Aug-16



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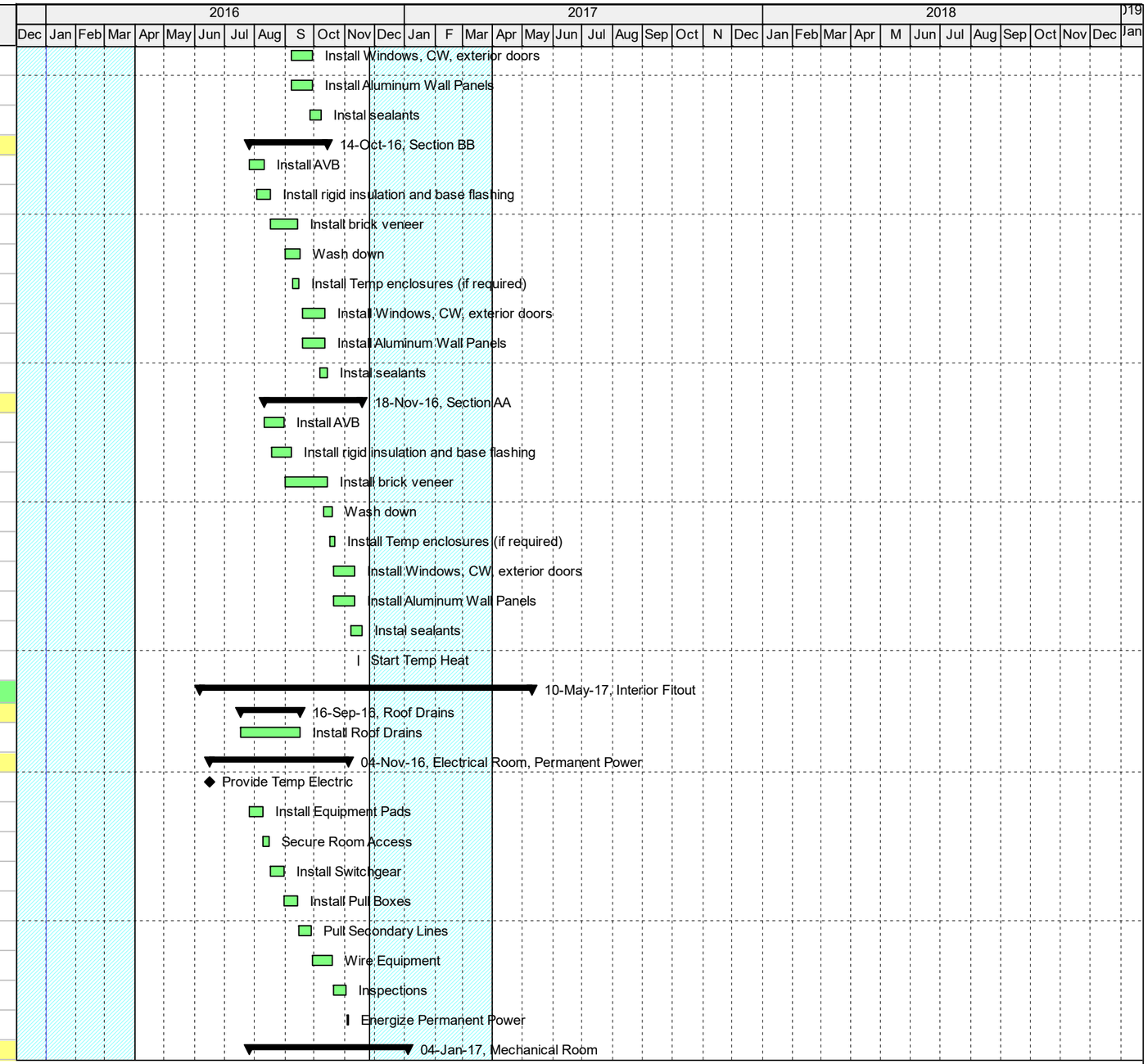
FONTAINE BROS., INC.

Activity ID	Activity Name	Original Duration	Start	Finish
24460	Install Windows, CW, exterior doors	17d	07-Sep-16	29-Sep-16
24470	Install Aluminum Wall Panels	17d	07-Sep-16	29-Sep-16
24480	Instal sealants	10d	26-Sep-16	07-Oct-16
Section BB		57d	27-Jul-16	14-Oct-16
29090	Install AVB	11d	27-Jul-16	10-Aug-16
29100	Install rigid insulation and base flashing	11d	03-Aug-16	17-Aug-16
29110	Install brick veneer	19d	17-Aug-16	13-Sep-16
29120	Wash down	11d	01-Sep-16	16-Sep-16
29270	Install Temp enclosures (if required)	5d	09-Sep-16	15-Sep-16
29130	Install Windows, CW, exterior doors	17d	19-Sep-16	11-Oct-16
29140	Install Aluminum Wall Panels	17d	19-Sep-16	11-Oct-16
29150	Instal sealants	7d	06-Oct-16	14-Oct-16
Section AA		71d	11-Aug-16	18-Nov-16
29160	Install AVB	15d	11-Aug-16	31-Aug-16
29170	Install rigid insulation and base flashing	14d	18-Aug-16	07-Sep-16
29180	Install brick veneer	31d	01-Sep-16	14-Oct-16
29190	Wash down	8d	10-Oct-16	19-Oct-16
29230	Install Temp enclosures (if required)	5d	17-Oct-16	21-Oct-16
29200	Install Windows, CW, exterior doors	17d	20-Oct-16	11-Nov-16
29210	Install Aluminum Wall Panels	17d	20-Oct-16	11-Nov-16
29220	Instal sealants	10d	07-Nov-16	18-Nov-16
29240	Start Temp Heat	1d	15-Nov-16	15-Nov-16
Interior Fitout		240d	06-Jun-16	10-May-17
Roof Drains		44d	18-Jul-16	16-Sep-16
24430	Install Roof Drains	44d	18-Jul-16	16-Sep-16
Electrical Room, Permanent Power		99d	16-Jun-16	04-Nov-16
14350	Provide Temp Electric	0d		16-Jun-16
14360	Install Equipment Pads	10d	27-Jul-16	09-Aug-16
14370	Secure Room Access	5d	10-Aug-16	16-Aug-16
14380	Install Switchgear	10d	17-Aug-16	30-Aug-16
14390	Install Pull Boxes	10d	31-Aug-16	14-Sep-16
14400	Pull Secondary Lines	10d	15-Sep-16	28-Sep-16
14410	Wire Equipment	15d	29-Sep-16	19-Oct-16
14420	Inspections	10d	20-Oct-16	02-Nov-16
14430	Energize Permanent Power	1d	04-Nov-16	04-Nov-16
Mechanical Room		114d	27-Jul-16	04-Jan-17



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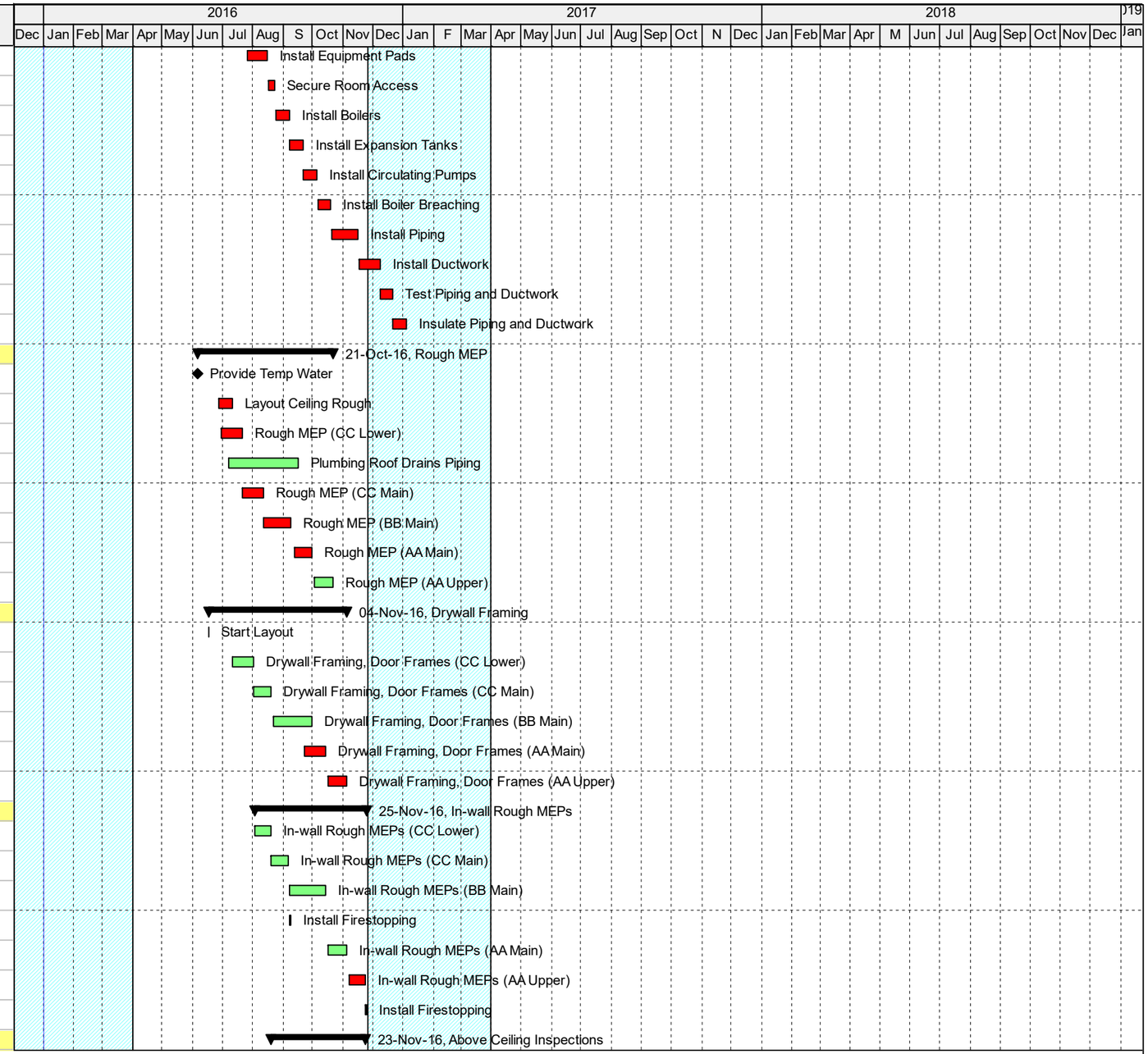
FONTAINE BROS., INC.

Activity ID	Activity Name	Original Duration	Start	Finish
26390	Install Equipment Pads	15d	27-Jul-16	16-Aug-16
26400	Secure Room Access	5d	17-Aug-16	23-Aug-16
26410	Install Boilers	10d	24-Aug-16	07-Sep-16
26420	Install Expansion Tanks	10d	08-Sep-16	21-Sep-16
26430	Install Circulating Pumps	10d	22-Sep-16	05-Oct-16
26440	Install Boiler Breaching	10d	06-Oct-16	19-Oct-16
26470	Install Piping	20d	20-Oct-16	16-Nov-16
26480	Install Ductwork	15d	17-Nov-16	08-Dec-16
26490	Test Piping and Ductwork	9d	09-Dec-16	21-Dec-16
26500	Insulate Piping and Ductwork	10d	22-Dec-16	04-Jan-17
Rough MEP		98d	06-Jun-16	21-Oct-16
12080	Provide Temp Water	0d		06-Jun-16
12070	Layout Ceiling Rough	10d	27-Jun-16	11-Jul-16
24200	Rough MEP (CC Lower)	15d	30-Jun-16	21-Jul-16
12090	Plumbing Roof Drains Piping	50d	08-Jul-16	16-Sep-16
24210	Rough MEP (CC Main)	15d	22-Jul-16	11-Aug-16
24220	Rough MEP (BB Main)	20d	12-Aug-16	09-Sep-16
24230	Rough MEP (AA Main)	15d	12-Sep-16	30-Sep-16
24240	Rough MEP (AA Upper)	15d	03-Oct-16	21-Oct-16
Drywall Framing		99d	17-Jun-16	04-Nov-16
24450	Start Layout	1d	17-Jun-16	17-Jun-16
24260	Drywall Framing, Door Frames (CC Lower)	17d	11-Jul-16	02-Aug-16
24270	Drywall Framing, Door Frames (CC Main)	14d	02-Aug-16	19-Aug-16
24280	Drywall Framing, Door Frames (BB Main)	29d	22-Aug-16	30-Sep-16
24290	Drywall Framing, Door Frames (AA Main)	16d	23-Sep-16	14-Oct-16
24300	Drywall Framing, Door Frames (AA Upper)	15d	17-Oct-16	04-Nov-16
In-wall Rough MEPs		81d	03-Aug-16	25-Nov-16
24310	In-wall Rough MEPs (CC Lower)	13d	03-Aug-16	19-Aug-16
24320	In-wall Rough MEPs (CC Main)	12d	19-Aug-16	06-Sep-16
24330	In-wall Rough MEPs (BB Main)	28d	07-Sep-16	14-Oct-16
24490	Install Firestopping	3d	07-Sep-16	09-Sep-16
24340	In-wall Rough MEPs (AA Main)	15d	17-Oct-16	04-Nov-16
24350	In-wall Rough MEPs (AA Upper)	13d	07-Nov-16	23-Nov-16
29250	Install Firestopping	2d	23-Nov-16	25-Nov-16
Above Ceiling Inspections		68d	19-Aug-16	23-Nov-16



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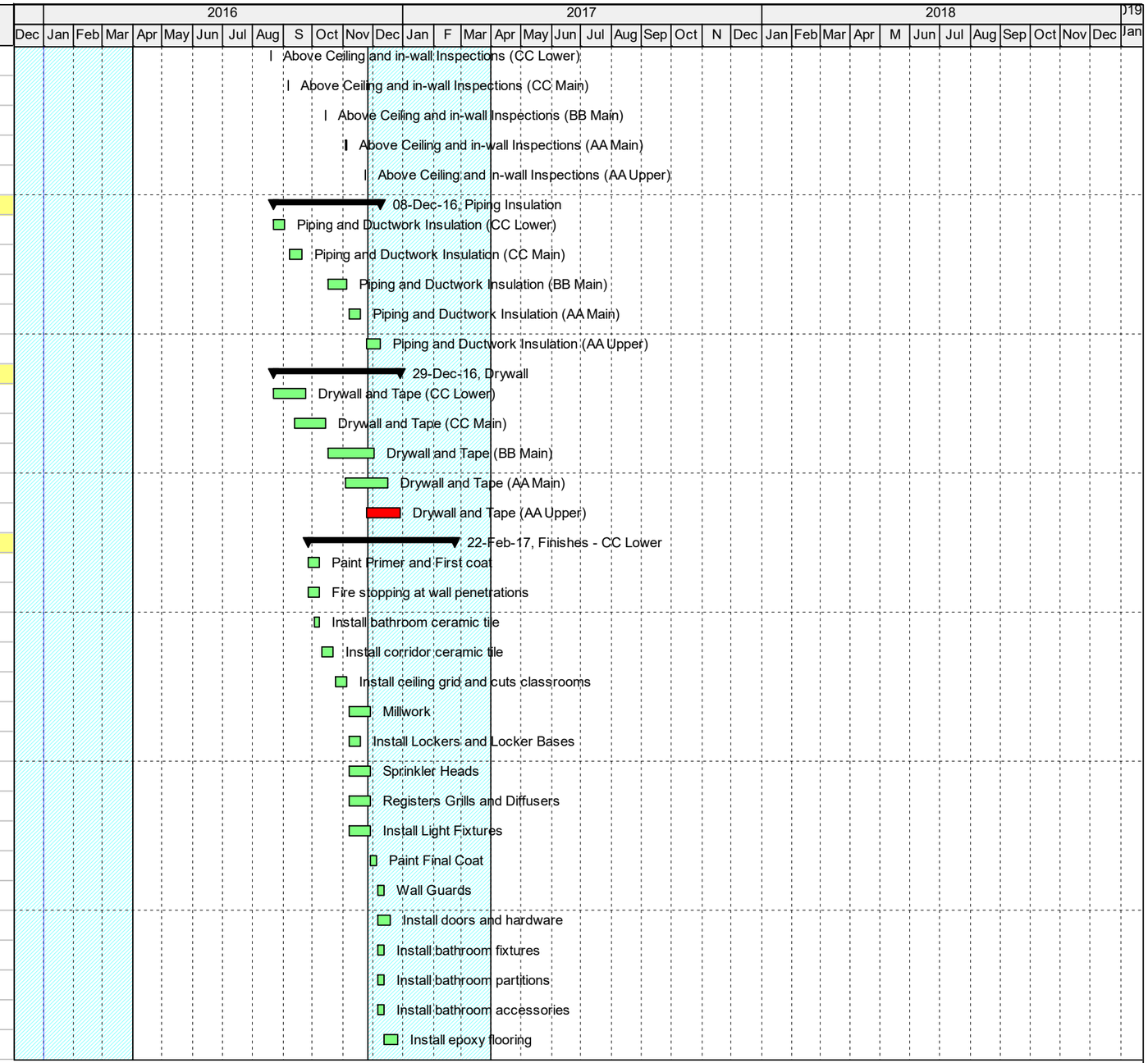
Activity ID	Activity Name	Original Duration	Start	Finish
25300	Above Ceiling and in-wall Inspections (CC Lower)	1d	19-Aug-16	19-Aug-16
25310	Above Ceiling and in-wall Inspections (CC Main)	1d	06-Sep-16	06-Sep-16
25320	Above Ceiling and in-wall Inspections (BB Main)	1d	14-Oct-16	14-Oct-16
25330	Above Ceiling and in-wall Inspections (AA Main)	1d	04-Nov-16	04-Nov-16
25340	Above Ceiling and in-wall Inspections (AA Upper)	1d	23-Nov-16	23-Nov-16
Piping Insulation		**77d**	**22-Aug-16**	**08-Dec-16**
27220	Piping and Ductwork Insulation (CC Lower)	10d	22-Aug-16	02-Sep-16
27230	Piping and Ductwork Insulation (CC Main)	10d	07-Sep-16	20-Sep-16
27240	Piping and Ductwork Insulation (BB Main)	15d	17-Oct-16	04-Nov-16
27250	Piping and Ductwork Insulation (AA Main)	10d	07-Nov-16	18-Nov-16
27260	Piping and Ductwork Insulation (AA Upper)	10d	25-Nov-16	08-Dec-16
Drywall		**92d**	**22-Aug-16**	**29-Dec-16**
24360	Drywall and Tape (CC Lower)	24d	22-Aug-16	23-Sep-16
24370	Drywall and Tape (CC Main)	25d	12-Sep-16	14-Oct-16
24380	Drywall and Tape (BB Main)	34d	17-Oct-16	02-Dec-16
24390	Drywall and Tape (AA Main)	30d	04-Nov-16	16-Dec-16
24400	Drywall and Tape (AA Upper)	25d	25-Nov-16	29-Dec-16
Finishes - CC Lower		**107d**	**26-Sep-16**	**22-Feb-17**
FIN1000	Paint Primer and First coat	10d	26-Sep-16	07-Oct-16
FIN1010	Fire stopping at wall penetrations	10d	26-Sep-16	07-Oct-16
FIN1020	Install bathroom ceramic tile	5d	03-Oct-16	07-Oct-16
FIN1030	Install corridor ceramic tile	10d	10-Oct-16	21-Oct-16
FIN1040	Install ceiling grid and cuts classrooms	10d	24-Oct-16	04-Nov-16
FIN1050	Millwork	15d	07-Nov-16	28-Nov-16
FIN1060	Install Lockers and Locker Bases	10d	07-Nov-16	18-Nov-16
FIN1070	Sprinkler Heads	15d	07-Nov-16	28-Nov-16
FIN1080	Registers Grills and Diffusers	15d	07-Nov-16	28-Nov-16
FIN1090	Install Light Fixtures	15d	07-Nov-16	28-Nov-16
FIN1100	Paint Final Coat	5d	29-Nov-16	05-Dec-16
FIN1120	Wall Guards	5d	06-Dec-16	12-Dec-16
FIN1130	Install doors and hardware	10d	06-Dec-16	19-Dec-16
FIN1140	Install bathroom fixtures	5d	06-Dec-16	12-Dec-16
FIN1150	Install bathroom partitions	5d	06-Dec-16	12-Dec-16
FIN1160	Install bathroom accessories	5d	06-Dec-16	12-Dec-16
FIN1170	Install epoxy flooring	10d	13-Dec-16	26-Dec-16



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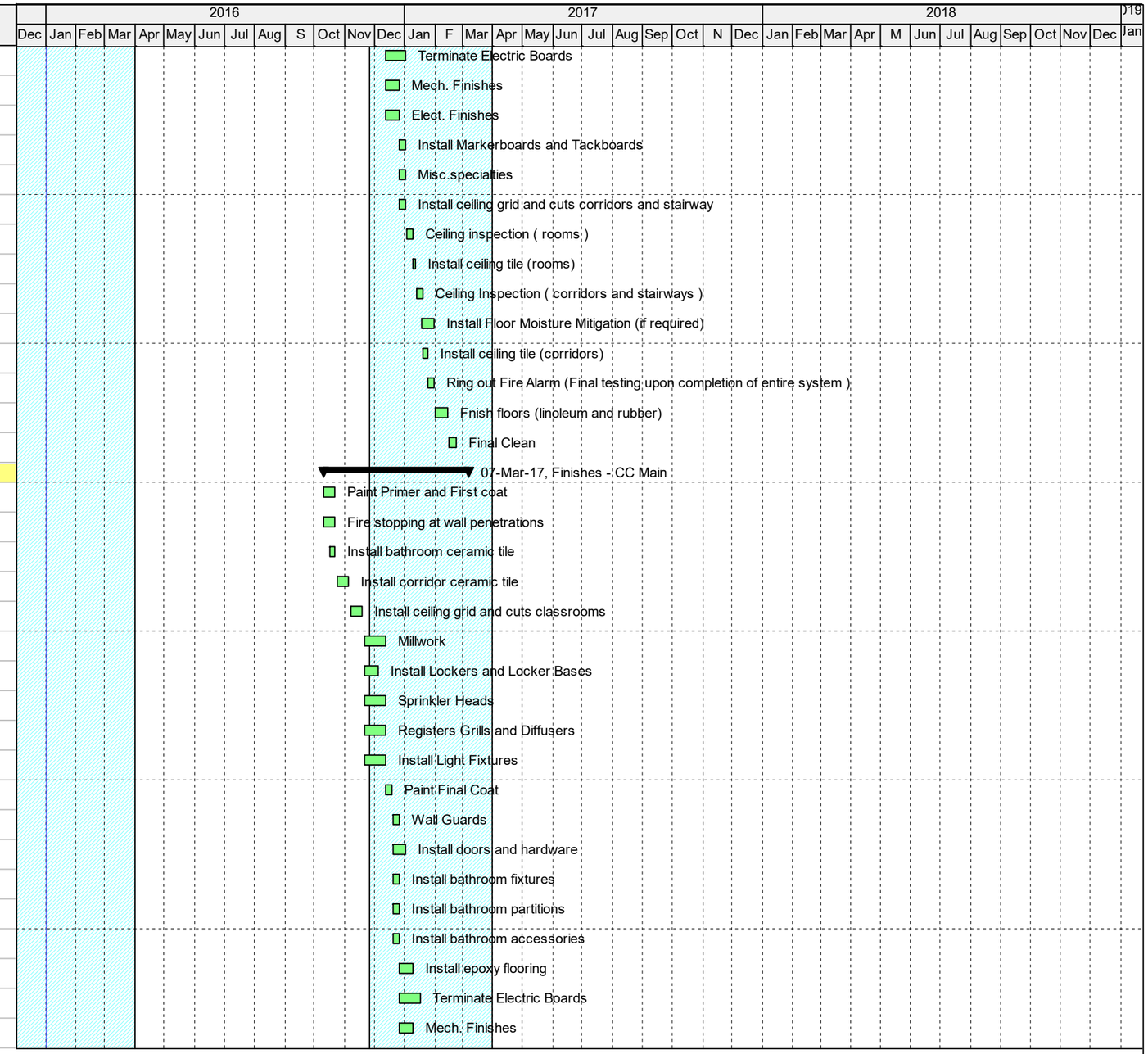
Activity ID	Activity Name	Original Duration	Start	Finish
FIN1180	Terminate Electric Boards	15d	13-Dec-16	02-Jan-17
FIN1190	Mech. Finishes	10d	13-Dec-16	26-Dec-16
FIN1200	Elect. Finishes	10d	13-Dec-16	26-Dec-16
FIN1110	Install Markerboards and Tackboards	5d	27-Dec-16	02-Jan-17
FIN1210	Misc.specialties	5d	27-Dec-16	02-Jan-17
FIN1220	Install ceiling grid and cuts corridors and stairway	5d	27-Dec-16	02-Jan-17
FIN1230	Ceiling inspection (rooms)	5d	03-Jan-17	09-Jan-17
FIN1240	Install ceiling tile (rooms)	3d	10-Jan-17	12-Jan-17
FIN1250	Ceiling Inspection (corridors and stairways)	5d	13-Jan-17	19-Jan-17
FIN2500	Install Floor Moisture Mitigation (if required)	10d	18-Jan-17	31-Jan-17
FIN1260	Install ceiling tile (corridors)	3d	20-Jan-17	24-Jan-17
FIN1270	Ring out Fire Alarm (Final testing upon completion of entire system)	5d	25-Jan-17	31-Jan-17
FIN2450	Fnish floors (linoleum and rubber)	10d	01-Feb-17	14-Feb-17
FIN1280	Final Clean	5d	15-Feb-17	22-Feb-17
Finishes - CC Main		106d	10-Oct-16	07-Mar-17
FIN1290	Paint Primer and First coat	10d	10-Oct-16	21-Oct-16
FIN1300	Fire stopping at wall penetrations	10d	10-Oct-16	21-Oct-16
FIN1310	Install bathroom ceramic tile	5d	17-Oct-16	21-Oct-16
FIN1320	Install corridor ceramic tile	10d	24-Oct-16	04-Nov-16
FIN1330	Install ceiling grid and cuts classrooms	10d	07-Nov-16	18-Nov-16
FIN1340	Millwork	15d	21-Nov-16	12-Dec-16
FIN1350	Install Lockers and Locker Bases	10d	21-Nov-16	05-Dec-16
FIN1360	Sprinkler Heads	15d	21-Nov-16	12-Dec-16
FIN1370	Registers Grills and Diffusers	15d	21-Nov-16	12-Dec-16
FIN1380	Install Light Fixtures	15d	21-Nov-16	12-Dec-16
FIN1390	Paint Final Coat	5d	13-Dec-16	19-Dec-16
FIN1410	Wall Guards	5d	20-Dec-16	26-Dec-16
FIN1420	Install doors and hardware	10d	20-Dec-16	02-Jan-17
FIN1430	Install bathroom fixtures	5d	20-Dec-16	26-Dec-16
FIN1440	Install bathroom partitions	5d	20-Dec-16	26-Dec-16
FIN1450	Install bathroom accessories	5d	20-Dec-16	26-Dec-16
FIN1460	Install epoxy flooring	10d	27-Dec-16	09-Jan-17
FIN1470	Terminate Electric Boards	15d	27-Dec-16	16-Jan-17
FIN1480	Mech. Finishes	10d	27-Dec-16	09-Jan-17



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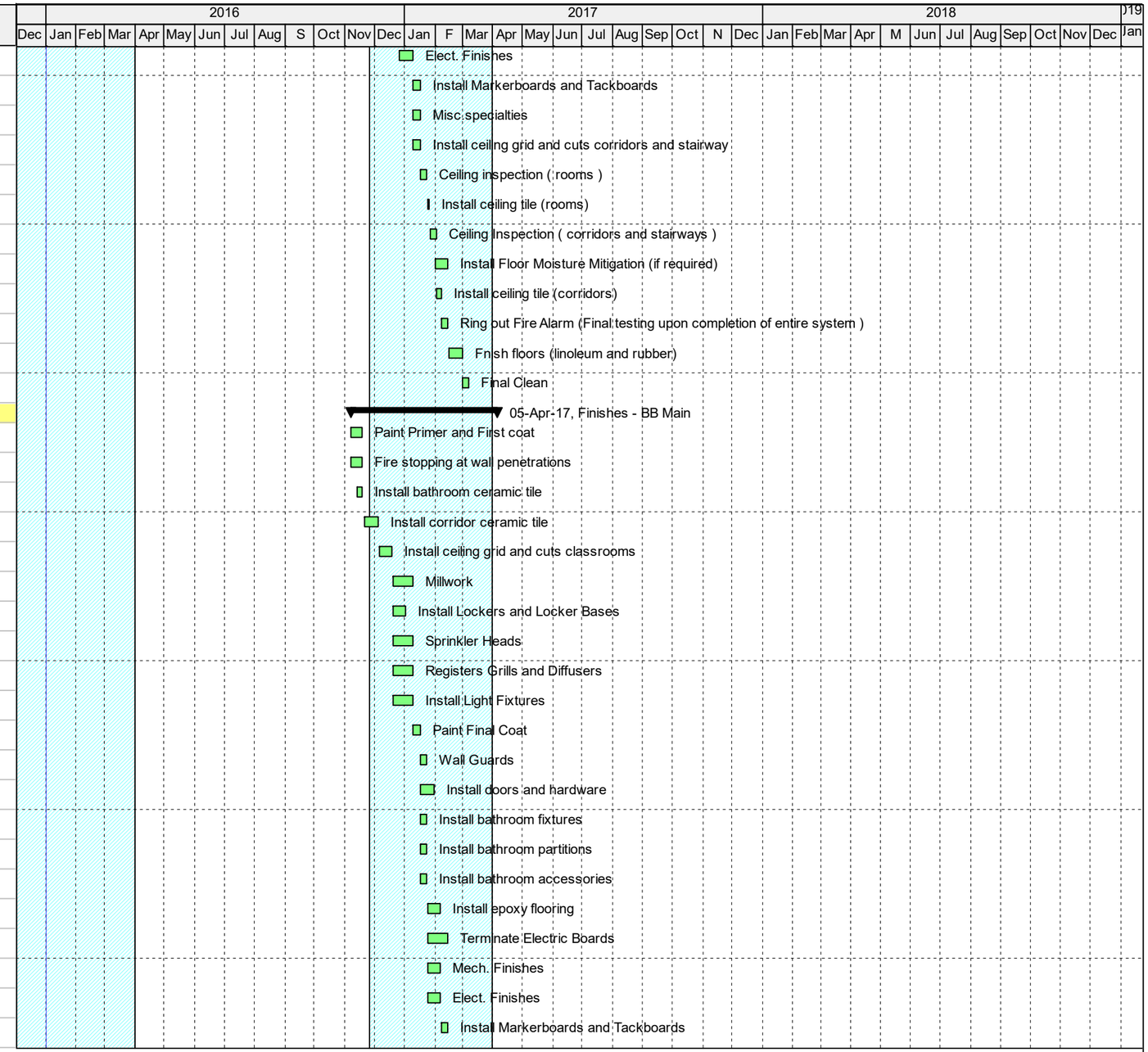
FIN1490	Elect. Finishes	10d	27-Dec-16	09-Jan-17
FIN1400	Install Markerboards and Tackboards	5d	10-Jan-17	16-Jan-17
FIN1500	Misc.specialties	5d	10-Jan-17	16-Jan-17
FIN1510	Install ceiling grid and cuts corridors and stairway	5d	10-Jan-17	16-Jan-17
FIN1520	Ceiling inspection (rooms)	5d	17-Jan-17	23-Jan-17
FIN1530	Install ceiling tile (rooms)	3d	24-Jan-17	26-Jan-17
FIN1540	Ceiling Inspection (corridors and stairways)	5d	27-Jan-17	02-Feb-17
FIN2510	Install Floor Moisture Mitigation (if required)	10d	01-Feb-17	14-Feb-17
FIN1550	Install ceiling tile (corridors)	3d	03-Feb-17	07-Feb-17
FIN1560	Ring out Fire Alarm (Final testing upon completion of entire system)	5d	08-Feb-17	14-Feb-17
FIN2460	Fnish floors (linoleum and rubber)	10d	15-Feb-17	28-Feb-17
FIN1570	Final Clean	5d	01-Mar-17	07-Mar-17
Finishes - BB Main		107d	07-Nov-16	05-Apr-17
FIN1580	Paint Primer and First coat	10d	07-Nov-16	18-Nov-16
FIN1590	Fire stopping at wall penetrations	10d	07-Nov-16	18-Nov-16
FIN1600	Install bathroom ceramic tile	5d	14-Nov-16	18-Nov-16
FIN1610	Install corridor ceramic tile	10d	21-Nov-16	05-Dec-16
FIN1620	Install ceiling grid and cuts classrooms	10d	06-Dec-16	19-Dec-16
FIN1630	Millwork	15d	20-Dec-16	09-Jan-17
FIN1640	Install Lockers and Locker Bases	10d	20-Dec-16	02-Jan-17
FIN1650	Sprinkler Heads	15d	20-Dec-16	09-Jan-17
FIN1660	Registers Grills and Diffusers	15d	20-Dec-16	09-Jan-17
FIN1670	Install Light Fixtures	15d	20-Dec-16	09-Jan-17
FIN1680	Paint Final Coat	5d	10-Jan-17	16-Jan-17
FIN1700	Wall Guards	5d	17-Jan-17	23-Jan-17
FIN1710	Install doors and hardware	10d	17-Jan-17	30-Jan-17
FIN1720	Install bathroom fixtures	5d	17-Jan-17	23-Jan-17
FIN1730	Install bathroom partitions	5d	17-Jan-17	23-Jan-17
FIN1740	Install bathroom accessories	5d	17-Jan-17	23-Jan-17
FIN1750	Install epoxy flooring	10d	24-Jan-17	06-Feb-17
FIN1760	Terminate Electric Boards	15d	24-Jan-17	13-Feb-17
FIN1770	Mech. Finishes	10d	24-Jan-17	06-Feb-17
FIN1780	Elect. Finishes	10d	24-Jan-17	06-Feb-17
FIN1690	Install Markerboards and Tackboards	5d	07-Feb-17	13-Feb-17



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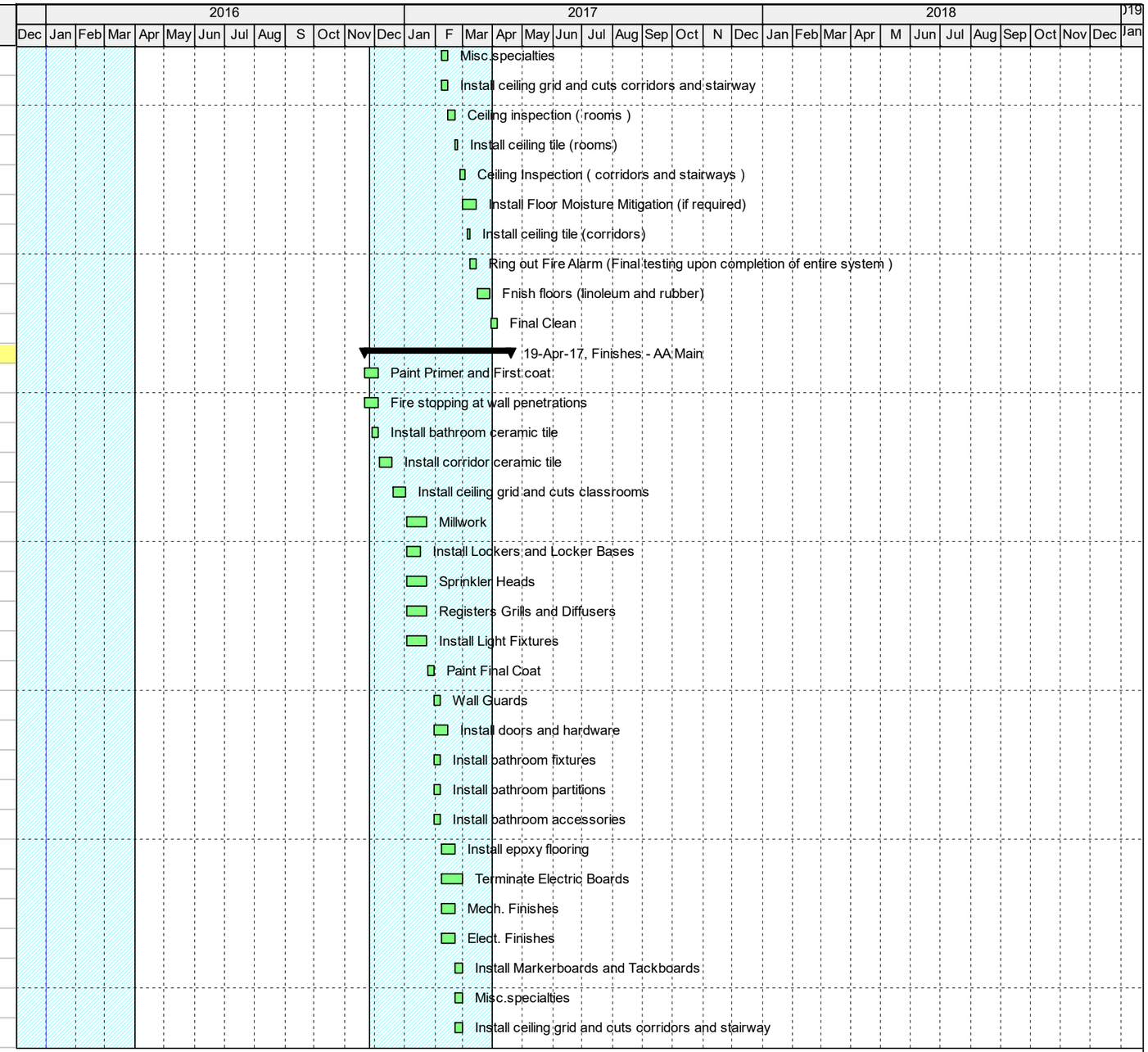
Activity ID	Activity Name	Original Duration	Start	Finish
FIN1790	Misc.specialties	5d	07-Feb-17	13-Feb-17
FIN1800	Install ceiling grid and cuts corridors and stairway	5d	07-Feb-17	13-Feb-17
FIN1810	Ceiling inspection (rooms)	5d	14-Feb-17	21-Feb-17
FIN1820	Install ceiling tile (rooms)	3d	22-Feb-17	24-Feb-17
FIN1830	Ceiling Inspection (corridors and stairways)	5d	27-Feb-17	03-Mar-17
FIN2520	Install Floor Moisture Mitigation (if required)	10d	01-Mar-17	14-Mar-17
FIN1840	Install ceiling tile (corridors)	3d	06-Mar-17	08-Mar-17
FIN1850	Ring out Fire Alarm (Final testing upon completion of entire system)	5d	09-Mar-17	15-Mar-17
FIN2470	Fnish floors (linoleum and rubber)	10d	16-Mar-17	29-Mar-17
FIN1860	Final Clean	5d	30-Mar-17	05-Apr-17
Finishes - AA Main		**107d**	**21-Nov-16**	**19-Apr-17**
FIN1870	Paint Primer and First coat	10d	21-Nov-16	05-Dec-16
FIN1880	Fire stopping at wall penetrations	10d	21-Nov-16	05-Dec-16
FIN1890	Install bathroom ceramic tile	5d	29-Nov-16	05-Dec-16
FIN1900	Install corridor ceramic tile	10d	06-Dec-16	19-Dec-16
FIN1910	Install ceiling grid and cuts classrooms	10d	20-Dec-16	02-Jan-17
FIN1920	Millwork	15d	03-Jan-17	23-Jan-17
FIN1930	Install Lockers and Locker Bases	10d	03-Jan-17	16-Jan-17
FIN1940	Sprinkler Heads	15d	03-Jan-17	23-Jan-17
FIN1950	Registers Grills and Diffusers	15d	03-Jan-17	23-Jan-17
FIN1960	Install Light Fixtures	15d	03-Jan-17	23-Jan-17
FIN1970	Paint Final Coat	5d	24-Jan-17	30-Jan-17
FIN1990	Wall Guards	5d	31-Jan-17	06-Feb-17
FIN2000	Install doors and hardware	10d	31-Jan-17	13-Feb-17
FIN2010	Install bathroom fixtures	5d	31-Jan-17	06-Feb-17
FIN2020	Install bathroom partitions	5d	31-Jan-17	06-Feb-17
FIN2030	Install bathroom accessories	5d	31-Jan-17	06-Feb-17
FIN2040	Install epoxy flooring	10d	07-Feb-17	21-Feb-17
FIN2050	Terminate Electric Boards	15d	07-Feb-17	28-Feb-17
FIN2060	Mech. Finishes	10d	07-Feb-17	21-Feb-17
FIN2070	Elect. Finishes	10d	07-Feb-17	21-Feb-17
FIN1980	Install Markerboards and Tackboards	5d	22-Feb-17	28-Feb-17
FIN2080	Misc.specialties	5d	22-Feb-17	28-Feb-17
FIN2090	Install ceiling grid and cuts corridors and stairway	5d	22-Feb-17	28-Feb-17



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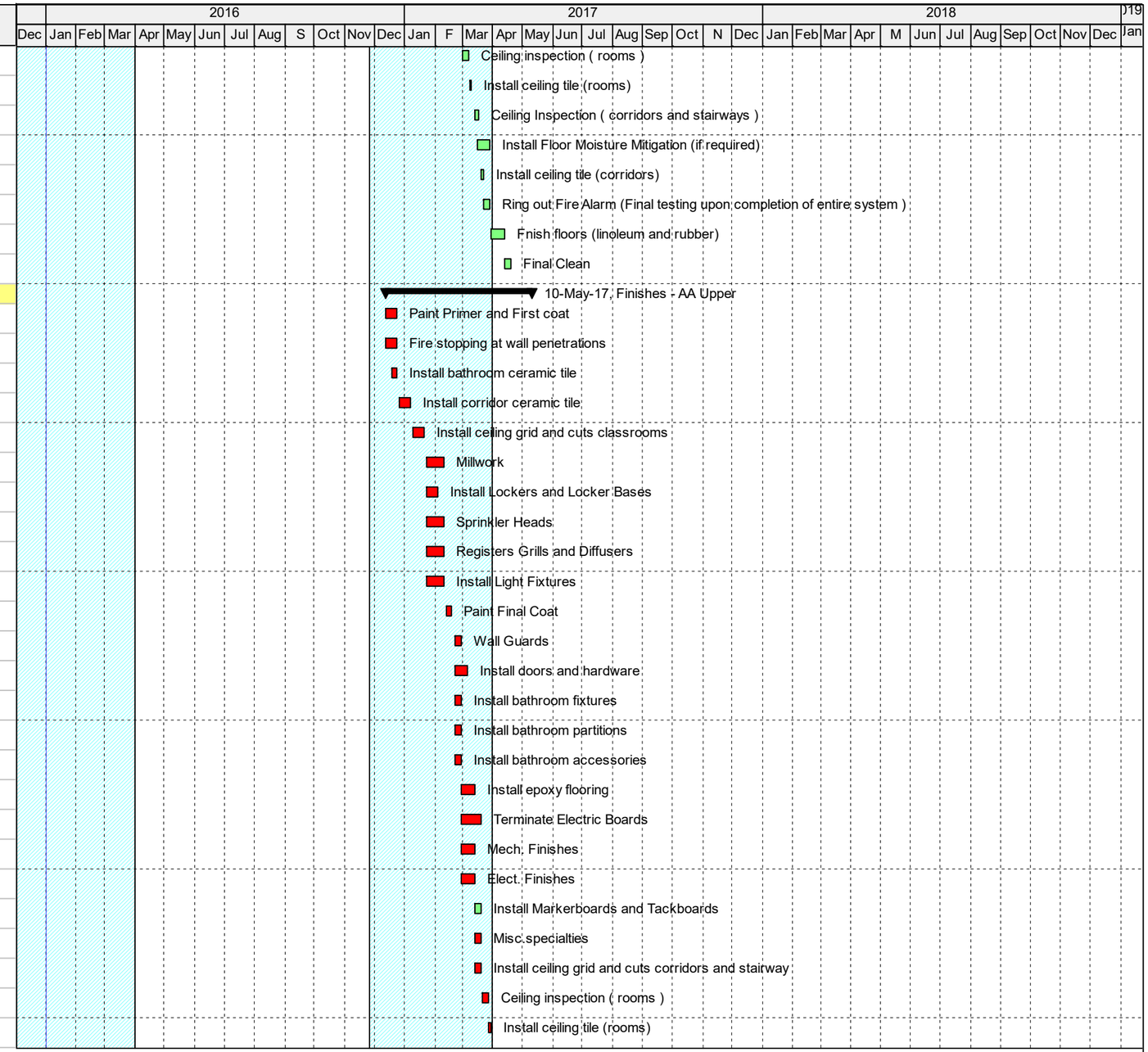
Activity ID	Activity Name	Original Duration	Start	Finish
FIN2100	Ceiling inspection (rooms)	5d	01-Mar-17	07-Mar-17
FIN2110	Install ceiling tile (rooms)	3d	08-Mar-17	10-Mar-17
FIN2120	Ceiling Inspection (corridors and stairways)	5d	13-Mar-17	17-Mar-17
FIN2530	Install Floor Moisture Mitigation (if required)	10d	16-Mar-17	29-Mar-17
FIN2130	Install ceiling tile (corridors)	3d	20-Mar-17	22-Mar-17
FIN2140	Ring out Fire Alarm (Final testing upon completion of entire system)	5d	23-Mar-17	29-Mar-17
FIN2480	Fnish floors (linoleum and rubber)	10d	30-Mar-17	12-Apr-17
FIN2150	Final Clean	5d	13-Apr-17	19-Apr-17
Finishes - AA Upper		108d	12-Dec-16	10-May-17
FIN2160	Paint Primer and First coat	10d	12-Dec-16	23-Dec-16
FIN2170	Fire stopping at wall penetrations	10d	12-Dec-16	23-Dec-16
FIN2180	Install bathroom ceramic tile	5d	19-Dec-16	23-Dec-16
FIN2190	Install corridor ceramic tile	10d	26-Dec-16	06-Jan-17
FIN2200	Install ceiling grid and cuts classrooms	10d	09-Jan-17	20-Jan-17
FIN2210	Millwork	15d	23-Jan-17	10-Feb-17
FIN2220	Install Lockers and Locker Bases	10d	23-Jan-17	03-Feb-17
FIN2230	Sprinkler Heads	15d	23-Jan-17	10-Feb-17
FIN2240	Registers Grills and Diffusers	15d	23-Jan-17	10-Feb-17
FIN2250	Install Light Fixtures	15d	23-Jan-17	10-Feb-17
FIN2260	Paint Final Coat	5d	13-Feb-17	17-Feb-17
FIN2280	Wall Guards	5d	21-Feb-17	27-Feb-17
FIN2290	Install doors and hardware	10d	21-Feb-17	06-Mar-17
FIN2300	Install bathroom fixtures	5d	21-Feb-17	27-Feb-17
FIN2310	Install bathroom partitions	5d	21-Feb-17	27-Feb-17
FIN2320	Install bathroom accessories	5d	21-Feb-17	27-Feb-17
FIN2330	Install epoxy flooring	10d	28-Feb-17	13-Mar-17
FIN2340	Terminate Electric Boards	15d	28-Feb-17	20-Mar-17
FIN2350	Mech. Finishes	10d	28-Feb-17	13-Mar-17
FIN2360	Elect. Finishes	10d	28-Feb-17	13-Mar-17
FIN2270	Install Markerboards and Tackboards	5d	14-Mar-17	20-Mar-17
FIN2370	Misc.specialties	5d	14-Mar-17	20-Mar-17
FIN2380	Install ceiling grid and cuts corridors and stairway	5d	14-Mar-17	20-Mar-17
FIN2390	Ceiling inspection (rooms)	5d	21-Mar-17	27-Mar-17
FIN2400	Install ceiling tile (rooms)	3d	28-Mar-17	30-Mar-17



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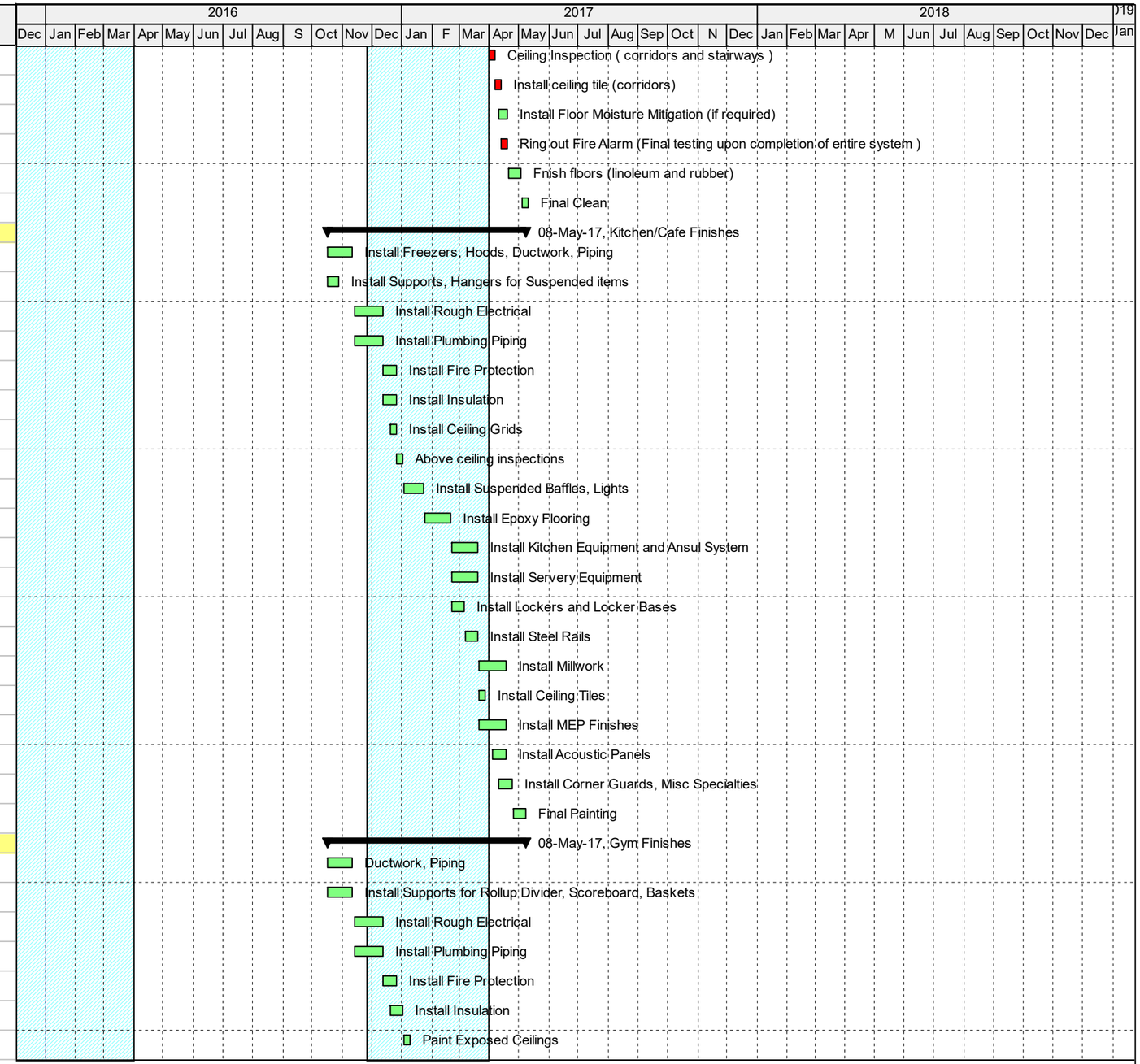
Activity ID	Activity Name	Original Duration	Start	Finish
FIN2410	Ceiling Inspection (corridors and stairways)	5d	31-Mar-17	06-Apr-17
FIN2420	Install ceiling tile (corridors)	3d	07-Apr-17	12-Apr-17
FIN2540	Install Floor Moisture Mitigation (if required)	8d	10-Apr-17	19-Apr-17
FIN2430	Ring out Fire Alarm (Final testing upon completion of entire system)	5d	13-Apr-17	19-Apr-17
FIN2490	Finish floors (linoleum and rubber)	10d	20-Apr-17	03-May-17
FIN2440	Final Clean	5d	04-May-17	10-May-17
Kitchen/Cafe Finishes		145d	17-Oct-16	08-May-17
28210	Install Freezers, Hoods, Ductwork, Piping	20d	17-Oct-16	11-Nov-16
28240	Install Supports, Hangers for Suspended items	10d	17-Oct-16	28-Oct-16
28220	Install Rough Electrical	20d	14-Nov-16	12-Dec-16
28360	Install Plumbing Piping	20d	14-Nov-16	12-Dec-16
28230	Install Fire Protection	10d	13-Dec-16	26-Dec-16
28390	Install Insulation	10d	13-Dec-16	26-Dec-16
28380	Install Ceiling Grids	5d	20-Dec-16	26-Dec-16
28250	Above ceiling inspections	5d	27-Dec-16	02-Jan-17
28270	Install Suspended Baffles, Lights	15d	03-Jan-17	23-Jan-17
28280	Install Epoxy Flooring	20d	24-Jan-17	20-Feb-17
28290	Install Kitchen Equipment and Ansul System	20d	21-Feb-17	20-Mar-17
28300	Install Servery Equipment	20d	21-Feb-17	20-Mar-17
28370	Install Lockers and Locker Bases	10d	21-Feb-17	06-Mar-17
28310	Install Steel Rails	10d	07-Mar-17	20-Mar-17
28320	Install Millwork	20d	21-Mar-17	17-Apr-17
28400	Install Ceiling Tiles	5d	21-Mar-17	27-Mar-17
28560	Install MEP Finishes	20d	21-Mar-17	17-Apr-17
28330	Install Acoustic Panels	10d	04-Apr-17	17-Apr-17
28340	Install Corner Guards, Misc Specialties	10d	11-Apr-17	24-Apr-17
28350	Final Painting	10d	25-Apr-17	08-May-17
Gym Finishes		145d	17-Oct-16	08-May-17
28470	Ductwork, Piping	20d	17-Oct-16	11-Nov-16
28500	Install Supports for Rollup Divider, Scoreboard, Baskets	20d	17-Oct-16	11-Nov-16
28480	Install Rough Electrical	20d	14-Nov-16	12-Dec-16
28620	Install Plumbing Piping	20d	14-Nov-16	12-Dec-16
28490	Install Fire Protection	10d	13-Dec-16	26-Dec-16
28510	Install Insulation	10d	20-Dec-16	02-Jan-17
28520	Paint Exposed Ceilings	5d	03-Jan-17	09-Jan-17



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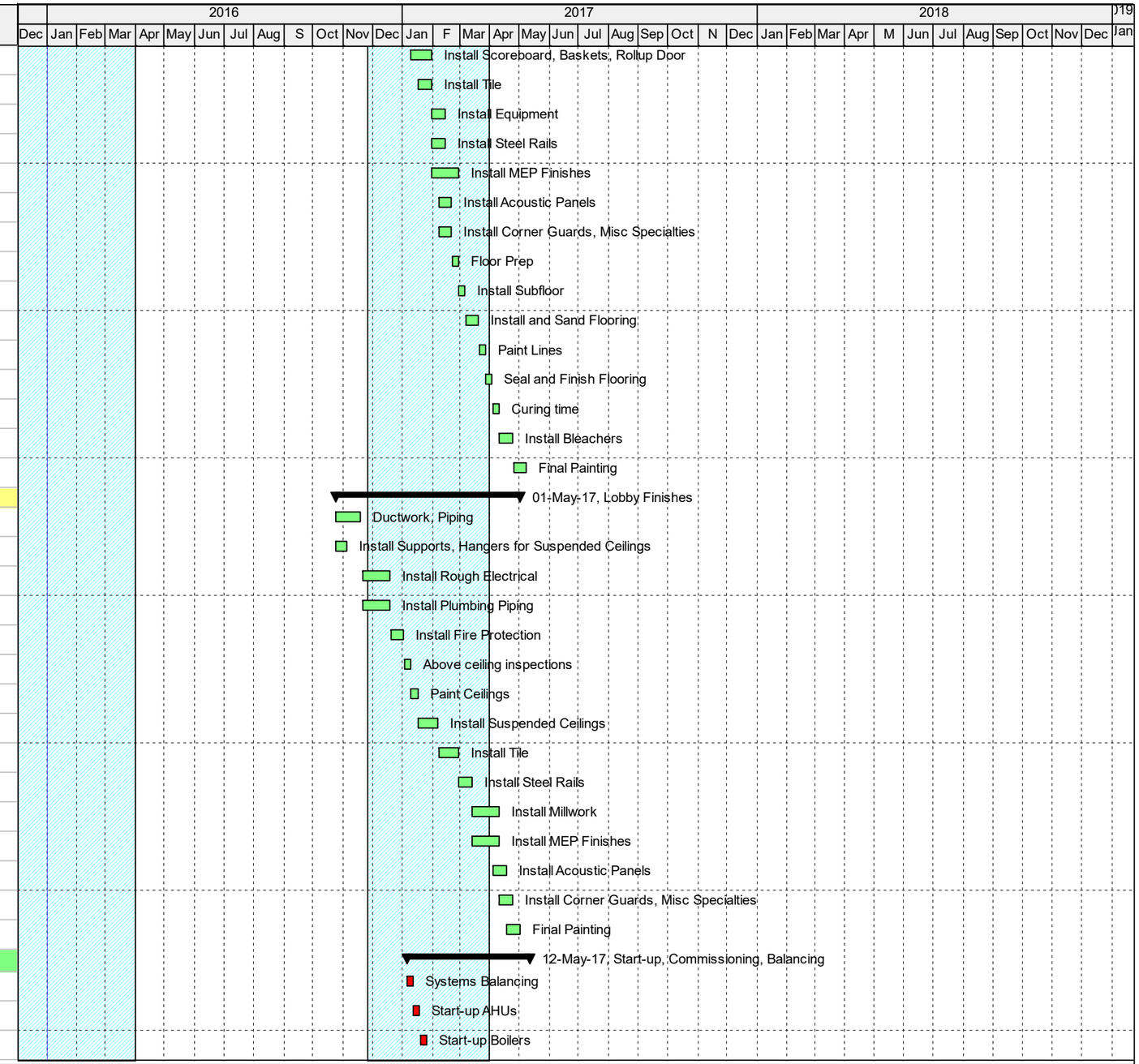
FONTAINE BROS., INC.

Activity ID	Activity Name	Original Duration	Start	Finish
28530	Install Scoreboard, Baskets, Rollup Door	15d	10-Jan-17	30-Jan-17
28540	Install Tile	10d	17-Jan-17	30-Jan-17
28550	Install Equipment	10d	31-Jan-17	13-Feb-17
28570	Install Steel Rails	10d	31-Jan-17	13-Feb-17
28700	Install MEP Finishes	20d	31-Jan-17	27-Feb-17
28590	Install Acoustic Panels	10d	07-Feb-17	20-Feb-17
28600	Install Corner Guards, Misc Specialties	10d	07-Feb-17	20-Feb-17
28630	Floor Prep	5d	21-Feb-17	27-Feb-17
28640	Install Subfloor	5d	28-Feb-17	06-Mar-17
28650	Install and Sand Flooring	10d	07-Mar-17	20-Mar-17
28660	Paint Lines	5d	21-Mar-17	27-Mar-17
28670	Seal and Finish Flooring	5d	28-Mar-17	03-Apr-17
28680	Curing time	5d	04-Apr-17	10-Apr-17
28690	Install Bleachers	10d	11-Apr-17	24-Apr-17
28610	Final Painting	10d	25-Apr-17	08-May-17
Lobby Finishes		135d	24-Oct-16	01-May-17
28710	Ductwork, Piping	20d	24-Oct-16	18-Nov-16
28740	Install Supports, Hangers for Suspended Ceilings	10d	24-Oct-16	04-Nov-16
28720	Install Rough Electrical	20d	21-Nov-16	19-Dec-16
28860	Install Plumbing Piping	20d	21-Nov-16	19-Dec-16
28730	Install Fire Protection	10d	20-Dec-16	02-Jan-17
28750	Above ceiling inspections	5d	03-Jan-17	09-Jan-17
28760	Paint Ceilings	5d	10-Jan-17	16-Jan-17
28770	Install Suspended Ceilings	15d	17-Jan-17	06-Feb-17
28780	Install Tile	15d	07-Feb-17	27-Feb-17
28810	Install Steel Rails	10d	28-Feb-17	13-Mar-17
28820	Install Millwork	20d	14-Mar-17	10-Apr-17
28870	Install MEP Finishes	20d	14-Mar-17	10-Apr-17
28830	Install Acoustic Panels	10d	04-Apr-17	17-Apr-17
28840	Install Corner Guards, Misc Specialties	10d	11-Apr-17	24-Apr-17
28850	Final Painting	10d	18-Apr-17	01-May-17
Start-up, Commissioning, Balancing		92d	05-Jan-17	12-May-17
22880	Systems Balancing	5d	05-Jan-17	11-Jan-17
22890	Start-up AHUs	5d	12-Jan-17	18-Jan-17
22900	Start-up Boilers	5d	19-Jan-17	25-Jan-17



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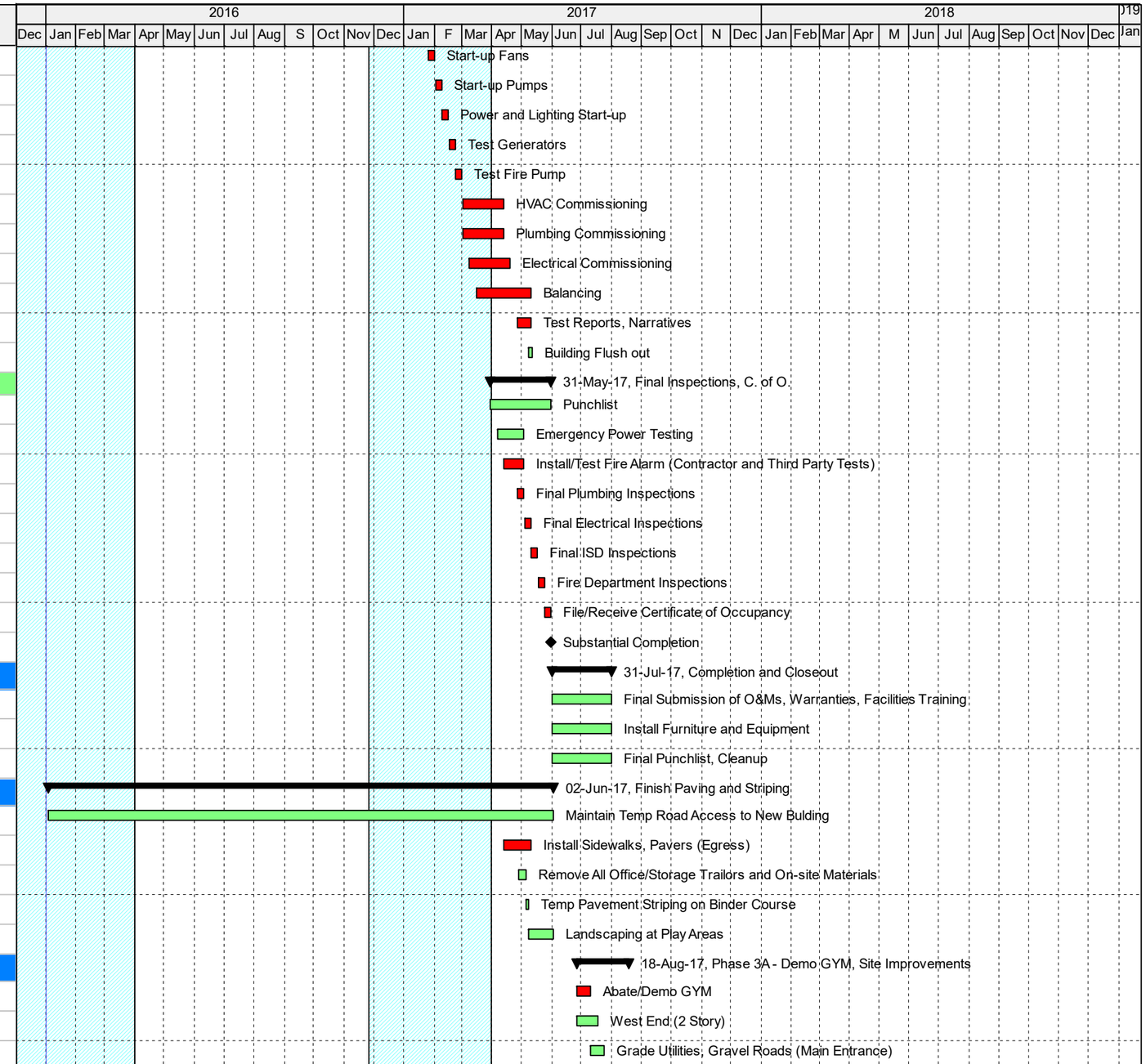
FONTAINE BROS., INC.

Activity ID	Activity Name	Original Duration	Start	Finish
22910	Start-up Fans	5d	26-Jan-17	01-Feb-17
22920	Start-up Pumps	5d	02-Feb-17	08-Feb-17
22930	Power and Lighting Start-up	5d	09-Feb-17	15-Feb-17
22940	Test Generators	5d	16-Feb-17	22-Feb-17
22950	Test Fire Pump	5d	23-Feb-17	01-Mar-17
22960	HVAC Commissioning	30d	02-Mar-17	12-Apr-17
22970	Plumbing Commissioning	30d	02-Mar-17	12-Apr-17
22980	Electrical Commissioning	30d	09-Mar-17	19-Apr-17
22990	Balancing	40d	16-Mar-17	10-May-17
23000	Test Reports, Narratives	10d	27-Apr-17	10-May-17
23010	Building Flush out	5d	08-May-17	12-May-17
Final Inspections, C. of O.		45d	30-Mar-17	31-May-17
22860	Punchlist	44d	30-Mar-17	30-May-17
28200	Emergency Power Testing	20d	06-Apr-17	03-May-17
22750	Install/Test Fire Alarm (Contractor and Third Party Tests)	15d	13-Apr-17	03-May-17
22760	Final Plumbing Inspections	5d	27-Apr-17	03-May-17
22770	Final Electrical Inspections	5d	04-May-17	10-May-17
22780	Final ISD Inspections	5d	11-May-17	17-May-17
22790	Fire Department Inspections	5d	18-May-17	24-May-17
22800	File/Receive Certificate of Occupancy	5d	25-May-17	31-May-17
22810	Substantial Completion	0d		31-May-17
Completion and Closeout		43d	01-Jun-17	31-Jul-17
11070	Final Submission of O&Ms, Warranties, Facilities Training	43d	01-Jun-17	31-Jul-17
11230	Install Furniture and Equipment	43d	01-Jun-17	31-Jul-17
22830	Final Punchlist, Cleanup	43d	01-Jun-17	31-Jul-17
Finish Paving and Striping		365d	04-Jan-16	02-Jun-17
12395	Maintain Temp Road Access to New Bulding	365d	04-Jan-16	02-Jun-17
12555	Install Sidewalks, Pavers (Egress)	20d	13-Apr-17	10-May-17
12525	Remove All Office/Storage Trailors and On-site Materials	6d	28-Apr-17	05-May-17
12535	Temp Pavement Striping on Binder Course	3d	06-May-17	08-May-17
12545	Landscaping at Play Areas	20d	08-May-17	02-Jun-17
Phase 3A - Demo GYM, Site Improvements		40d	26-Jun-17	18-Aug-17
12375	Abate/Demo GYM	11d	26-Jun-17*	10-Jul-17
12385	West End (2 Story)	16d	26-Jun-17	17-Jul-17
12405	Grade Utilities, Gravel Roads (Main Entrance)	11d	10-Jul-17	24-Jul-17



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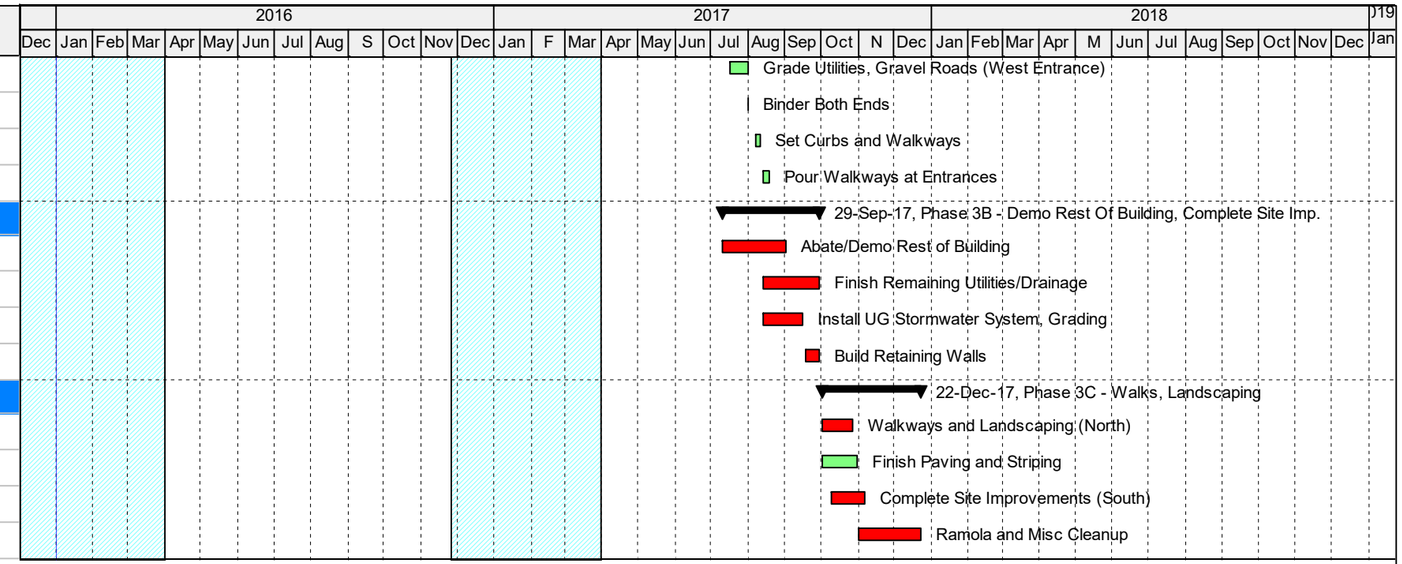
03-Feb-16

FONTAINE BROS., INC.

Activity ID	Activity Name	Original Duration	Start	Finish
12415	Grade Utilities, Gravel Roads (West Entrance)	11d	17-Jul-17	31-Jul-17
12425	Binder Both Ends	1d	01-Aug-17	01-Aug-17
12435	Set Curbs and Walkways	5d	07-Aug-17	11-Aug-17
12445	Pour Walkways at Entrances	5d	14-Aug-17	18-Aug-17
Phase 3B - Demo Rest Of Building, Complete Site Imp		60d	10-Jul-17	29-Sep-17
12455	Abate/Demo Rest of Building	40d	10-Jul-17	01-Sep-17
12465	Finish Remaining Utilities/Drainage	35d	14-Aug-17	29-Sep-17
12475	Install UG Stormwater System, Grading	25d	14-Aug-17	15-Sep-17
12485	Build Retaining Walls	10d	18-Sep-17	29-Sep-17
Phase 3C - Walks, Landscaping		60d	02-Oct-17	22-Dec-17
12495	Walkways and Landscaping (North)	20d	02-Oct-17	27-Oct-17
12565	Finish Paving and Striping	22d	02-Oct-17	31-Oct-17
12505	Complete Site Improvements (South)	21d	09-Oct-17	06-Nov-17
12515	Ramola and Misc Cleanup	38d	01-Nov-17	22-Dec-17



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FONTAINE BROS., INC.

Section 09 67 23

RESINOUS FLOORING

PART 1 - GENERAL

1.1 SUMMARY

A. Apply multilayered resinous, waterproof and slip resistant, flooring systems, with anti-microbial additive and an integral base turned up at walls, bases, pipe sleeves and equipment pads where indicated on Drawings.

1. Provide subsequent flooring system touch-up and repairs as required to provide a complete seamless molded waterproof system.

B. Alternates: Special attention is called to the fact that it shall be the responsibility of the Construction Manager, Trade Contractors and all subcontractors to thoroughly examine all the alternates and evaluate for themselves as to whether or not these alternates in any way affect their respective section. In the event that the Construction Manager, Trade Contractor or subcontractor feels that any alternate(s) do reflect a cost difference, additional or a deduction in his bid proposal, then he shall so stipulate this sum and/or sums under the proper alternate(s) as provided for the bid proposals. Failure to do so will in no way relieve the hereinbefore stated Construction Manager, Trade Contractor or subcontractors of their responsibilities regardless of what alternate(s) is selected. No extra cost will be charged to the Owner. Refer to Section 01 23 00 - ALTERNATES for the list and description of Alternates.

1.2 RELATED REQUIREMENTS

A. Section 01 18 13 - SUSTAINABLE DESIGN REPORTING: Special administrative and procedure requirements related to the Owner's *LEED v4, LEED for Building Design and Construction*, *LEED BD+C: Schools* rating system certificate goals of energy conservation and efficiency, indoor air quality, and natural resource efficiency.

B. Section 01 60 00 - PRODUCT REQUIREMENTS: Listing of VOC requirements for adhesives, cleaning/maintenance materials, paints, coatings, and sealants.

C. Section 01 74 19 - CONSTRUCTION WASTE MANAGEMENT: Procedural and administrative requirements for construction recycling.

D. Section 01 81 19 – INDOOR AIR QUALITY REQUIREMENTS.

E. Section 03 30 00 - CAST-IN-PLACE CONCRETE: Concrete substrate, curbs and equipment pads.

F. Section 04 20 00 - UNIT MASONRY: Masonry partitions and walls.

G. Section 07 92 00 - JOINT SEALANTS: Requirements for sealants and backing materials.

H. Section 09 05 06 - COMMON WORK RESULTS FOR FLOORING: General preparation and testing requirements of flooring substrate.

I. Section 09 61 03 – WATER VAPOR EMISSION CONTROL FOR FLOORING.

J. Division 22 - PLUMBING: "floor-flange" type floor drains.

1.3 REFERENCES

A. Referenced Standards: Comply with applicable requirements of the following standards and those others referenced in this Section, under the provisions of Section 01 42 00 - REFERENCES. The standards referenced herein are included to establish recognized minimum quality only. Where these standards conflict with other specified requirements, the most restrictive requirements shall govern. Equivalent quality and testing standards will be acceptable, subject to their timely submission, review and acceptance by the Architect.

1. ASTM E 84 - Surface Burning Characteristics of Building Materials.
2. All applicable federal, state and municipal codes, laws and regulations for flammability and smoke generation of interior finishes.

1.4 SUBMITTALS

A. Submit the following under provisions of Section 01 33 00 - SUBMITTAL PROCEDURES:

1. Literature: Manufacturer's product data sheets, specifications, performance data, physical properties, material compositions, and application instructions for all products to be applied hereunder
   a. Include certification of data indicating Volatile Organic Compound (VOC) content of all floor system components.
2. Manufacturer’s instructions: Manufacturer’s installation instructions indicating special procedures, integral base, and perimeter conditions.
   a. The manufacturer's recommended methods of installation, when approved by the Architect, will be come the basis for inspecting and accepting or rejecting actual installation methods used on the Work.
3. Certification: Material certificates signed by manufacturer certifying that the waterproof mechanical equipment room flooring complies with requirements specified herein.
4. Selection samples:
   a. Sample card indicating Manufacturer's full range of colors available for selection by Architect.
5. Verification samples:
   a. Samples of each level of slip resistance, aggregate, and pattern available in the specified products from the proposed manufacturer.
   b. 12 by 12 inch samples of finished surface illustrating material color, texture and finish.

B. Provide the following LEED submittal items:

1. All relevant supporting documentation, as required by LEED for Schools v4 and as detailed in Section 01 81 13 - SUSTAINABLE DESIGN REQUIREMENTS.
2. A completed LEED MATERIALS REPORTING FORM, per Section 01 81 13 - SUSTAINABLE DESIGN REQUIREMENTS.

C. Submit the following under provisions of Section 01 78 00 - CLOSEOUT SUBMITTALS:

1. Manufacturer's warranties: Include coverage of materials and installation and resultant damage from failure of installation to resist penetration of moisture.

1.5 QUALIFICATIONS

A. Applicator: Company specializing in performance of the work of this Section with 5 years minimum documented experience and trained by manufacturer in installing resinous flooring types similar to that required for this Project, and who is acceptable to manufacturer of primary materials.

1.6 QUALITY ASSURANCE

A. Single-Source Responsibility: Obtain resinous flooring materials, including primers, resins, and finish coats, from a single manufacturer.

1.7 DELIVERY, STORAGE AND HANDLING

A. Deliver products to site in sealed and labeled containers; container labeling shall include manufacturer's name, type of paint, color mix designation, expected coverage, surface preparation instructions, instructions for mixing and reducing, drying time, and cleanup recommendations.

B. Store materials, conforming with applicable codes and fire regulations, in designated spaces. Keep storage area secure when direct access is not required or when not performing work under this Section. Take precautionary measures to prevent fire hazards and spontaneous combustion, maintain a dry-chemical type fire extinguisher in all areas where materials of this Section are being stored or used.

C. Store materials in a well ventilated area at minimum ambient temperature of 45 degrees Fahrenheit and a maximum of 90 degrees Fahrenheit.

D. Do not use the sanitary system for mixing or disposal of refuse material. Carry water to mixing rooms and dump waste material in a suitable refuse receptacle. Remove oily rags and waste each day.

1.8 PROJECT CONDITIONS

A. Provide continuous ventilation and heating facilities to maintain surface and ambient temperatures above 50 degrees Fahrenheit for 24 hours before, during and 48 hours after application of finishes, unless required otherwise by manufacturer's instructions.

B. Apply flooring materials within temperature and humidity range specified by coating manufacturer.

C. Provide sufficient lighting to maintain 80 foot-candles measured mid-height at substrate surface.

1.9 SEQUENCING AND SCHEDULING

A. Immediately notify the Architect in writing of conditions which may require a change in the specifications of this Section before proceeding with the work. Failure to do so, in a timely fashion, so as not to interfere with the schedule of work of this Contract, shall be construed as acceptance of the coatings specified. Perform all

corrective measures, at no cost to the Owner, for any defects in the work, resulting from the use of such materials.

B. Do not order materials until all required schedules have been properly submitted, reviewed by the Contractor and Approved by Architect.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers: Subject to compliance with the requirements specified herein, manufacturers offering products which may be incorporated in the work include the following, or approved equal:

1. Atlas Minerals and Chemicals, Mertztown, PA.
2. Crossfield Products Corp. (Dex-o-Tex), Roselle Park, NJ.
3. Dur-a-flex Inc., East Hartford Ct.
4. General Polymers Corporation, Cincinnati OH. .
5. Master Builders Inc., Cleveland OH.
6. Stonhard Inc., Maple Shade, NJ.
7. Flowcrete North America, Inc.

2.2 TYPE 1 URETHANE FLOORING SYSTEM DESCRIPTION (KITCHENS, FREEZERS)

A. Specified Manufacturer (Basis of Design): To establish a standard of quality, design and function desired, Drawings and specifications have been based on Dur-a-Flex Inc., product: “Poly-Crete MDB”.

1. Acceptable flooring systems, or approved equal:
   a. Dur-a-Flex Inc., product: “Poly-Crete MDB”.
   b. Crossfield Products Corp. (Dex-o-Tex), product: “Tek-crete SL-B”.
   c. Flowcrete North America, Inc., product: “Flowfresh HF.”

B. General Description: Self leveling, aromatic cementitious mortar urethane system with broadcast quartz aggregate and urethane or polyaspartic elastomeric and heat resistance top coat.

1. System thickness: 1/4 inch [6.3 mm].

C. Primer: As recommended by flooring system manufacturer.

D. Topping: Equal to Dur-A Flex, Inc., product Poly-Crete MD resin, hardener, and aggregate.

1. Percent reactive: 100 percent.
2. VOC: 0 g/L.
3. Bond strength (ASTM D 4541): 400 psi, substrate failure.
4. Compressive strength (ASTM C 579): 7,400 psi.
5. Tensile strength (ASTM D 638): 1,800 psi.
6. Impact Resistance @ 125 mils, MIL D-3134: 160 inch/lbs with no visible damage or deterioration.

E. Aggregate: Equal to Dur-A-Flex, Inc., product “Flintshot” quartz aggregate in color blend as selected by the Architect, or as required to match Architect’s sample.

F. Topcoat: Equal to Dur-A-Flex, Inc., “Poly-Crete Color-Fast”, aliphatic urethane two-component resin.

1. VOC: 0 g/L.
2. Compressive strength (ASTM C 579): 7,800 psi.
3. Tensile strength (ASTM D 638): 4,200 psi.
4. Flexural strength (ASTM D 790): 1,000 psi.
5. Abrasion Resistance (ASTM D4060)
   CS 17 wheel (1,000 g load) 1,000 cycles: 30 mg loss.
6. Impact Resistance (ASTM D 1709): 160 in/lbs.
7. Shore D Hardness (ASTM D 2240): 65
8. Gloss (ASTM D 523) 60^0: Semi-gloss appearance.

G. Accessory materials: Provide all accessory materials not specifically indicated, but are required to achieve the finishes specified.

2.3 TYPE 2 URETHANE FLOORING SYSTEM DESCRIPTION (TOILET ROOMS)

A. Specified manufacturer: To establish a standard of quality, design and function desired, Drawings and specifications have been based on Dur-A-Flex, Inc., product “Hybri-Flex EQ” self leveling broadcast colored quartz, epoxy/aliphatic urethane topcoat seamless flooring system.

1. Acceptable flooring systems, or approved equal:
   a. Dur-a-Flex Inc., product: “Hybri-Flex EQ”.
   b. Crossfield Products Corp. (Dex-o-Tex), product: “Tek-crete SL-B”.
   c. Flowcrete North America, Inc., product: “Flowfresh HF.”

B. Topping: Equal to Dur-A Flex, Inc., product Poly-Crete SL resin, hardener, and aggregate.

1. Percent reactive: 100 per cent.
2. VOC: 0 g/L.
3. Bond strength (ASTM D 4541): 400 psi, substrate failure.
4. Compressive strength (ASTM C 579): 9,000 psi.
5. Tensile strength (ASTM D 638): 2,175 psi.
6. Flexural strength (ASTM D 790): 5,076 psi.
7. Impact Resistance @ 125 mils, MIL D-3134: 160 inch lbs with no visible damage or deterioration.

C. Aggregate: Equal to Dur-A-Flex, Inc., product “Q28” quartz aggregate in color blend as selected by the Architect, or as required to match Architect’s sample.

D. Broadcast and grout coats: Equal to Dur-A-Flex, Inc., product “Dur-A-Glaze No. 4 Resin” epoxy based two-component resin.

1. Percent reactive: 100 per cent.

2. VOC: less than 4 g/L.
3. Water absorption (ASTM D 570): 0.04 percent.
4. Tensile strength (ASTM D 638): 4,000 psi.
5. Coefficient of thermal expansion (ASTM D 696): 2 x 10^{-5} in/in/F.
6. Flammability (ASTM D-635): Self-Extinguishing.
7. Flame Spread (NFPA 101/ASTM E-84): Class A.

E. Topcoat: Equal to Dur-A-Flex, Inc., “Armor Top”, aliphatic urethane two-component resin.
1. VOC: 0 g/L.
2. 60 Degree Gloss ASTM D523): 75+/-5.
3. Mixed Viscosity, (Brookfield 25°C): 500 cps.
4. Tensile strength, ASTM D 638): 7,000 psi.
5. Abrasion Resistance (ASTM D4060)
CS 17 wheel (1,000 g load) 1,000 cycles: 4 mg loss with grit.
6. Pot life @ 70° F 50% RH: 2 hours.
7. Full Chemical resistance: 7 days.

F. Accessory materials: Provide all accessory materials not specifically indicated, but are required to achieve the finishes specified.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Inspect all surfaces and verify that they are in proper condition to receive the work of this Section. Notify Construction Manager of any condition that may potentially affect proper application of coatings.

B. Verify that substrates and conditions are satisfactory for flooring installation and comply with requirements specified.

C. Beginning Work of this Section means acceptance of existing substrate surfaces and site conditions.

3.2 PREPARATION - GENERAL

A. General
1. New and existing concrete surfaces shall be free of oil, grease, curing compounds, loose particles, moss, algae growth, laitance, friable matter, dirt, and bituminous products.
2. Moisture Testing: Perform tests recommended by manufacturer and as follows.
a. Perform anhydrous calcium chloride test ASTM F 1869-98. Application will proceed only when the vapor/moisture emission rates from the slab is less than and not higher than 20 lbs/1,000 sf/24 hrs.

b. Perform relative humidity test using is situ probes, ASTM F 2170. Proceed with installation only after substrates have a maximum 99% relative humidity level measurement.

c. If the vapor drive exceeds 99% relative humidity or 20 lbs/1,000 sf/24 hrs then the Owner and/or Engineer shall be notified and advised of additional cost for the possible installation of a vapor mitigation system that has been approved by the manufacturer or other means to lower the value to the acceptable limit.

3. Mechanical surface preparation

a. Shot blast all surfaces to receive flooring system with a mobile steel shot, dust recycling machine. All surface and embedded accumulations of paint, toppings hardened concrete layers, laitance, power trowel finishes and other similar surface characteristics shall be completely removed leaving a bare concrete surface having a minimum profile of CSP 4-5 as described by the International Concrete Repair Institute (ICRI).

b. Floor areas inaccessible to the mobile blast machines shall be mechanically abraded to the same degree of cleanliness, soundness and profile using diamond grinders, needle guns, bush hammers, or other suitable equipment.

c. Where the perimeter of the substrate to be coated is not adjacent to a wall or curb, a minimum 1/4 inch key cut shall be made to properly seat the system, providing a smooth transition between areas. The detail cut shall also apply to drain perimeters and expansion joint edges.

d. Cracks and joints (non-moving) greater than 1/8 inch wide are to be chiseled or chipped-out and repaired per manufacturer's recommendations.

4. Mechanically remove loose or delaminated concrete to a sound concrete and patch per manufactures recommendations.

B. Upon acceptance of completed in-situ substrate as ready for flooring system installation, thoroughly remove all dust and debris by sweeping or be vacuum cleaning.

C. Mix and prepare coatings in strict accordance with manufacturer's written instructions. Thoroughly mix to ensure uniformity of color and mass, unless otherwise directed by the manufacturer of the specific coating used.

3.3 APPLICATION TYPE 1 URETHANE

A. General:

1. The system shall be applied in three distinct steps as listed below:

a. Substrate preparation

b. Topping/overlay application with quartz aggregate broadcast.

c. Topcoat application, with a anti-slip aggregate broadcast if required

2. Immediately prior to the application of any component of the system, the surface shall be dry and any remaining dust or loose particles shall be removed using a vacuum or clean, dry, oil-free compressed air.

3. The handling, mixing and addition of components shall be performed in a safe manner to achieve the desired results in accordance with the Manufacturer's recommendations.
4. The system shall follow the contour of the substrate unless pitching or other leveling work has been specified by the Architect.
5. A neat finish with well-defined boundaries and straight edges shall be provided by the Applicator.

B. Topping:

1. The topping shall be applied as a self-leveling system as specified. The topping shall be applied in one lift with a nominal thickness of 3/16 inch.
2. The topping shall be comprised of three components, a resin, hardener and filler as supplied by the Manufacturer.
3. The hardener shall be added to the resin and thoroughly dispersed by suitably approved mechanical means. Aggregate shall then be added to the catalyzed mixture and mixed in a manner to achieve a homogenous blend.
4. The topping shall be applied over horizontal surfaces using a pin rake, trowels or other systems approved by the Manufacturer.
5. Immediately upon placing, the topping shall be degassed with a 15/16 inch spiked roller.
6. Quartz aggregate shall be broadcast to excess into the wet material at the rate of 1 pound per square foot.
7. Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose aggregate.

C. Topcoat:

1. The topcoat shall be mixed and applied per manufacturer recommended procedure.
2. The topcoat shall be comprised of three components, resin, hardener and filler as supplied by the manufacturer.
3. The topcoat will be applied at the rate of 100 square feet per kit (1.1 gallon).
4. Non-skid shall be broadcast at the rate of 1 lb per 100 square feet and back rolled into the coating.
5. Finish floor will have a nominal thickness of 1/4 inch.

3.4 APPLICATION TYPE 2 URETHANE

A. General:

1. The system shall be applied in five distinct steps as listed below:
   a. Substrate preparation.
   b. Topping/overlay application with quartz aggregate broadcast.
   c. Resin application with quartz aggregate broadcast.
   d. Topcoat application.
   e. Second topcoat application.

2. Immediately prior to the application of any component of the system, the surface shall be dry and any remaining dust or loose particles shall be removed using a vacuum or clean, dry, oil-free compressed air.
3. The handling, mixing and addition of components shall be performed in a safe manner to achieve the desired results in accordance with the Manufacturer's recommendations.
4. The system shall follow the contour of the substrate unless pitching or other leveling work has been specified by the Architect.
5. A neat finish with well-defined boundaries and straight edges shall be provided by the Applicator.

B. Topping:

1. The topping shall be applied as a self-leveling system as specified by the Architect. The topping shall be applied in one lift with a nominal thickness of 1/8 inch.
2. The topping shall be comprised of three components, a resin, hardener and filler as supplied by the Manufacturer.
3. The hardener shall be added to the resin and thoroughly dispersed by suitably approved mechanical means. Aggregate shall then be added to the catalyzed mixture and mixed in a manner to achieve a homogenous blend.
4. The topping shall be applied over horizontal surfaces using ½ inch “v” notched squeegee, trowels or other systems approved by the Manufacturer.
5. Immediately upon placing, the topping shall be degassed with a loop roller.
6. Quartz aggregate shall be broadcast to excess into the wet material at the rate of 0.8 pounds per square feet.
7. Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose aggregate.

C. Broadcast:

1. The broadcast coat resin shall be applied at the rate of 90 square feet/gallon.
2. The broadcast coat shall be comprised of liquid components, combined at a ratio of 2 parts resin to 1 part hardener by volume and shall be thoroughly blended by mechanical means such as a high speed paddle mixer.
3. Quartz aggregate shall be broadcast into the wet resin at the rate of 0.5 lbs per square foot.
4. Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose aggregate.

D. Grout coat:

1. The grout coat shall be squeegee applied with a coverage rate of 90 square feet per gallon.
2. The grout coat shall be comprised of liquid components, combined at a ratio of 2 parts resin to 1 part hardener by volume and shall be thoroughly blended by mechanical means such as a high speed paddle mixer.
3. The grout coat will be back rolled and cross rolled to provide a uniform texture and finish.

E. Topcoat

1. The topcoat shall be roller applier with a coverage rate of 500 square feet per gallon.
2. The finished floor will have a nominal thickness of 1/4 inch.

3.5 CLEANING

A. Upon completion of the work in each area, remove all coating splatters from glass, prefinished surfaces, bright metals, and from other surfaces that have not been painted or finished hereunder. Do not use abrasive paper or abrasive cleaner on any prefinished surface or bright metal. Remove all materials and debris; leave work area in a clean condition.

3.6 PROTECTION AND TOUCH-UP

A. During application of coatings, protect the work of other trades against undue soilage and damage by the exercise of reasonable care and precautions. Properly clean, repair or replace any work so damaged and soiled.

B. Protect all finished surfaces against damage until the date of final acceptance of the work. The Architect will conduct a final review of all work performed. Re-coat or touch-up, all scratches and other blemishes on surfaces, and as directed by the Architect, any areas found which do not comply with the requirements of this Section, and bear all costs therefor.

C. Any re-coating or touch-up work, required after the work of this Section has been reviewed and accepted by the Architect, will be paid for by the Contractor.

End of Section

NELSON PLACE ELEMENTARY SCHOOL, WORCESTER, MA

FINISH LIST

DESCRIPTION	LOCATION	PRODUCT	COLOR	NOTES
VCT Pattern G	Corridors labeled 'G'	Armstrong Standard Excelon, Imperial Texture VCT, 12 x 12", 6 color pattern	18%: 51885 Granny Smith 18% 51883 Dusty Miller 18% 51906 Teal 18% 51807 Shadow Blue 18% 51938 Willow Green 10% 51942 Curried Caramel	Neutral Random Ground Pattern
VCT Accent Pattern AA1	Accent at Corridors and Classrooms, Main Floor, AA	Armstrong Standard Excelon, Imperial Texture VCT, 12 x 12", 6 color pattern	16.6%: 51885 Granny Smith 16.6% 51883 Dusty Miller 16.6% 51906 Teal 16.6% 51807 Shadow Blue 16.6% 51938 Willow Green 16.6% 51881 BlueBerry	Lavender Random Accent Pattern
VCT Pattern CC1	Accent at Corridor and Classrooms, Main Floor, CC	Armstrong Standard Excelon, Imperial Texture VCT, 12 x 12", 6 color pattern	16.6%: 51885 Granny Smith 16.6% 51883 Dusty Miller 16.6% 51906 Teal 16.6% 51807 Shadow Blue 16.6% 51938 Willow Green 16.6% 51874 Grayed Bllue	Blue Random Accent Pattern
VCT Pattern CC0	Accent at Corridors and Classrooms, Lower Floor CC	Armstrong Standard Excelon, Imperial Texture VCT, 12 x 12", 6 color pattern	16.6%: 51885 Granny Smith 16.6% 51883 Dusty Miller 16.6% 51906 Teal 16.6% 51807 Shadow Blue 16.6% 51938 Willow Green 16.6% 51866 Little Green Apple	Green Random Accent Pattern
VCT Pattern AA2	Accent at Corridors and Classrooms, UpperFloor AA	Armstrong Standard Excelon, Imperial Texture VCT, 12 x 12" with 16.6% Standard Excelon, MultiColor	16.6%: 51885 Granny Smith 16.6% 51883 Dusty Miller 16.6% 51906 Teal 16.6% 51807 Shadow Blue 16.6% 51938 Willow Green 16.6% 52516 Soeil Yellow MultiColor	Yellow Random Accent Pattern

DESCRIPTION	LOCATION	PRODUCT	COLOR	NOTES
Sheet Linoleum	Cafeteria, Corridor BB as shown in BB Floor Finsh Plan - Color	Forbo Marmoleum Real with TopShield	L1 3038 Caribbean L2 3173 Van Gogh L3 3174 Sahara L4 2767 Rust L5 3053 Dove Blue L6 3055 Fresco Blue	Rust Scheme
Modular Linoleum Alternate G	Alternate to VCT G, at Corridors	Marmoleum Modular with Top Shield	5 Color Random Pattern	
Modular Linoleum Alternate AA1	Accent Linoleum at Main Floor, AA	Marmoleum Modular with Top Shield	6 Color Random Pattern	Lavender Random Accent Pattern
Modular Linoleum Alternate CC1	Accent Linoleum at Main Floor, CC	Marmoleum Modular with Top Shield	6 Color Random Pattern	Blue Random Accent Pattern
Modular Linoleum Alternate CC0	Accent Linoleum at Lower Floor CC	Marmoleum Modular with Top Shield	6 Color Random Pattern	Green Random Accent Pattern
Modular Linoleum Alternate AA2	Accent Linoleum at UpperFloor AA	Marmoleum Modular with Top Shield	6 Color Random Pattern	Yellow Random Accent Pattern

413 253-3080 msahner@aol.com

DESCRIPTION	LOCATION	PRODUCT	COLOR	NOTES
Carpet Tile CPT 1	As shown in Floor Finish Plans, Common AA2	Interface Flor Cubic & Cubic Colours	Measurement (Cubic)	
Carpet Tile CPT 2	As shown in Floor Finish Plans	Interface Flor Cubic & Cubic Colours	7259 Painted Desert (Cubic Colours)	
Carpet Tile CPT 3	As shown in Floor Finish Plans	Interface Flor Cubic & Cubic Colours	7251 Iridescent (Cubic Colours)	
Carpet Tile CPT 4	Common AA1	Interface Flor Cubic & Cubic Colours	4856 Structure (Cubic)	Lavender Scheme
Carpet Tile CPT 5	Common AA1 Accent	Interface Flor Cubic & Cubic Colours	7252 Abalone (Cubic Colours)	Lavender Scheme
Carpet Tile CPT 6	Common CC1	Interface Flor Cubic & Cubic Colours	4857 Functional (Cubic)	Blue Scheme
Carpet Tile CPT 7	Common CC1 Accent	Interface Flor Cubic & Cubic Colours	7253 Chameleon (Cubic Colours)	Blue Scheme
Carpet Tile CPT 8	Common AA2 Accent	Interface Flor Cubic & Cubic Colours	7261 Yellow (Cubic Colours)	Yellow Scheme
Carpet Tile CPT 9	Common CC0	Interface Flor Cubic & Cubic Colours	6386 Horizontal (Cubic)	Green Scheme
Carpet Tile CPT 10	Common CC0 Accent	Interface Flor Cubic & Cubic Colours	7260 Sunflower (Cubic Colours)	Green Scheme
Entry Mat EM1	Vestibules & Lobby as shown in Floor Finish Plans	Lee's Modular Carpet: Step-Up DD763, 24x24" Walk-Off Carpet System	537 Starlight Blue	
Entry Mat EM2	Vestibules & Lobby as shown in Floor Finish Plans	Lee's Modular Carpet: Step-Up DD763, 24x24" Walk-Off Carpet System	534 Canyon	
Entry Mat EM3	Vestibules & Lobby as shown in Floor Finish Plans	Lee's Modular Carpet: Step-Up DD763, 24x24" Walk-Off Carpet System	438 Wrought Iron	

413 253-3080 msahner@aol.com

DESCRIPTION	LOCATION	PRODUCT	COLOR	NOTES
Glazed Ceramic Tile CC0-N	Lower Floor CC Corridors, Stairs 3 & 4, Bathrooms	Daltile Semi-Gloss Glazed Ceramic Wall Tile & Trim 6x6"	0152 Mint Ice (2)	Green Scheme Neutral
Grazed Ceramic Tile CC0-A	Lower Floor CC Corridors, Stairs 3 & 4, Bathrooms	Daltile Semi-Gloss Glazed Ceramic Wall Tile & Trim 6x6"	0152 Garden Spot (2)	Green Scheme Accent
Grout CC0-NG	Lower Floor CC Grout at CC0-N; Grout at Stairs 3 & 4, Bathrooms	Laticrete 1600 Series Unsanded Grout	44 Bright White	Green Scheme Neutral
Grout CC0-AG	Lower Floor CC Grout at CC0-A, Bathrooms	Laticrete 1600 Series Unsanded Grout	50 Sea Glass	Green Scheme Accent
Glazed Ceramic Tile AA1-N	Main Floor AA Corridors and Stairs 1 & 2, Bathrooms	Daltile Matte Glazed Ceramic Wall Tile & Trim 6x6"	0739 Crisp Linen (1)	Lavender Scheme Neutral
Grout AA1-NG	Main Floor AA Grout at Tile AA1-N & Stairs 1 & 2, Bathrooms	Laticrete 1600 Series Unsanded Grout	44 Bright White	Lavender Scheme Neutral
Glazed Ceramic Tile AA1-A	Main Floor AA Corridors and Stairs 1 & 2, Bathrooms	Daltile Matte Glazed Ceramic Wall Tile & Trim 6x6"	Q467 Wood Violet (4)	Lavender Scheme Accent
Grout AA1-AG	Main Floor AA Grout at Tile AA1-A Corridor, Bathrooms	Laticrete 1600 Series Unsanded Grout	88 Silver Shadow	Lavender Scheme Accent
Glazed Ceramic Tile BB1-N	Main Floor BB, Bathrooms	Daltile Festiva Glazed Ceramic Wall Tile & Trim 6x6"	QF08 Chiffon	Copper Scheme Neutral
Glazed Ceramic Tile BB1-A	Main Floor BB Accent Walls, Bathrooms	Daltile Festiva Glazed Ceramic Wall Tile & Trim 6x6"	QF74 Copper	Copper Scheme Accent
Grout BB1	Frst Floor BB, Bathrooms	Laticrete 1600 Series Unsanded Grout	85 Almond	Copper Scheme
Glazed Ceramic Tile CC1-N	Main Floor CC Corridors and Stairs 3 & 4, Bathrooms	Daltile Semi-Gloss Glazed Ceramic Wall Tile & Trim 6x6"	0152 Mint Ice (2)	Blue Scheme Neutral
Glazed Ceramic Tile CC1-A	Main Floor CC and Stairs 3 & 4, Bathrooms	Daltile Festiva Glazed Ceramic Wall Tile & Trim 6x6"	QF42 Willow	Blue Scheme Accent

DESCRIPTION	LOCATION	PRODUCT	COLOR	NOTES
Grout CC1-NG	Main Floor CC at CC1-N and Stairs 3 & 4, Bathrooms	Laticrete 1600 Series Unsanded Grout	44 Bright White	Blue Scheme Neutral
Grout CC1-NA	Main Floor CC at CC1-A Corridors, Bathrooms	Laticrete 1600 Series Unsanded Grout	50 Sea Glass	Blue Scheme Accent
Glazed Ceramic Tile AA2-N	UpperFloor AA and Stairs 1 & 2, Bathrooms	Daltile Matte Glazed Ceramic Wall Tile & Trim 6x6"	0739 Crisp Linen (1)	Yellow Scheme Neutral
Glazed Ceramic Tile AA2-A	UpperFloor AA and Stairs 1 & 2, Bathrooms	Daltile Festiva Glazed Ceramic Wall Tile & Trim 6x6"	QF08 Chiffon	Yellow Scheme Accent
Grout AA2-G	UpperFloor AA & Stairs, Bathrooms	Laticrete 1600 Series Unsanded Grout	85 Almond	Yellow Scheme
Epoxy Floor & Base EP-CC0	As Shown on Finish Plans, Lower Floor CC	DUR-A-FLEX Hybri-Flex EQ Flooring, Q28 Fine Quartz Blend	Q28 Color 1	Green Scheme
Epoxy Floor & Base EP-AA1	As Shown on Finish Plans, Main Floor AA	DUR-A-FLEX Hybri-Flex EQ Flooring, Q28 Fine Quartz Blend	Q28 Color 2	Lavender Scheme
Epoxy Floor & Base EP-CC1	As Shown on Finish Plans, Main Floor CC	DUR-A-FLEX Hybri-Flex EQ Flooring, Q28 Fine Quartz Blend	Q28 Color 3	Blue Scheme
Epoxy Floor & Base EP-AA2	As Shown on Finish Plans, Upper Floor AA	DUR-A-FLEX Hybri-Flex EQ Flooring, Q28 Fine Quartz Blend	Q28 Color 4	Yellow Scheme
Epoxy Floor & Base EP-G	As Shown on Finish Plans	DUR-A-FLEX Hybri-Flex EQ Flooring, Q28 Fine Quartz Blend	Q28 Color 5	Ground Color at all Schemes
Epoxy Floor & Base EP-BB	As Shown on Finish Plans, Main Floor BB	DUR-A-FLEX Poly-Crete Urethane Flooring	Red	Copper Scheme
Rubber	Stair Treads and Risers	Johnsonite Hammered Rubber Tread & Riser	287 Rustic	All Schemes

413 253-3080 msahner@aol.com

DESCRIPTION	LOCATION	PRODUCT	COLOR	NOTES
Lockers	Lower Floor CC, Main Floor CC	Penco	723 Light Putty	Green & Blue Schemes
TackBoard AA1	Main Floor AA			Lavender Scheme
TackBoard CC1	Main Floor CC			Blue Scheme
TackBoard CC0	Lower Floor CC			Green Scheme
TackBoard AA2	UpperFloor AA			Yellow Scheme
Laminate 1	Cabinet Doors Throughout	Wilsonart Fine Velvet Finish	10776-38 Kensington Maple	
Laminate 2	Counter Tops Throughout; Cafeteria 'Sun' Pattern	Wilsonart Fine Velvet Finish	4884-38 Flame Soapstone	
Laminate 3	Cafeteria 'Sun' Pattern	Wilsonart Fine Velvet Finish	4854-38 Mission Glaze	
Solid Surface 1	All Windowsills except Cafeteria and General Office B130.1	Corian	Cinnabar	
Solid Surface 2	Cafeteria Windowsills	Corian	Hickory Smoke	
Solid Surface 3	General Office B130.1 Windowsill and Counter	Corian	Rosemary	

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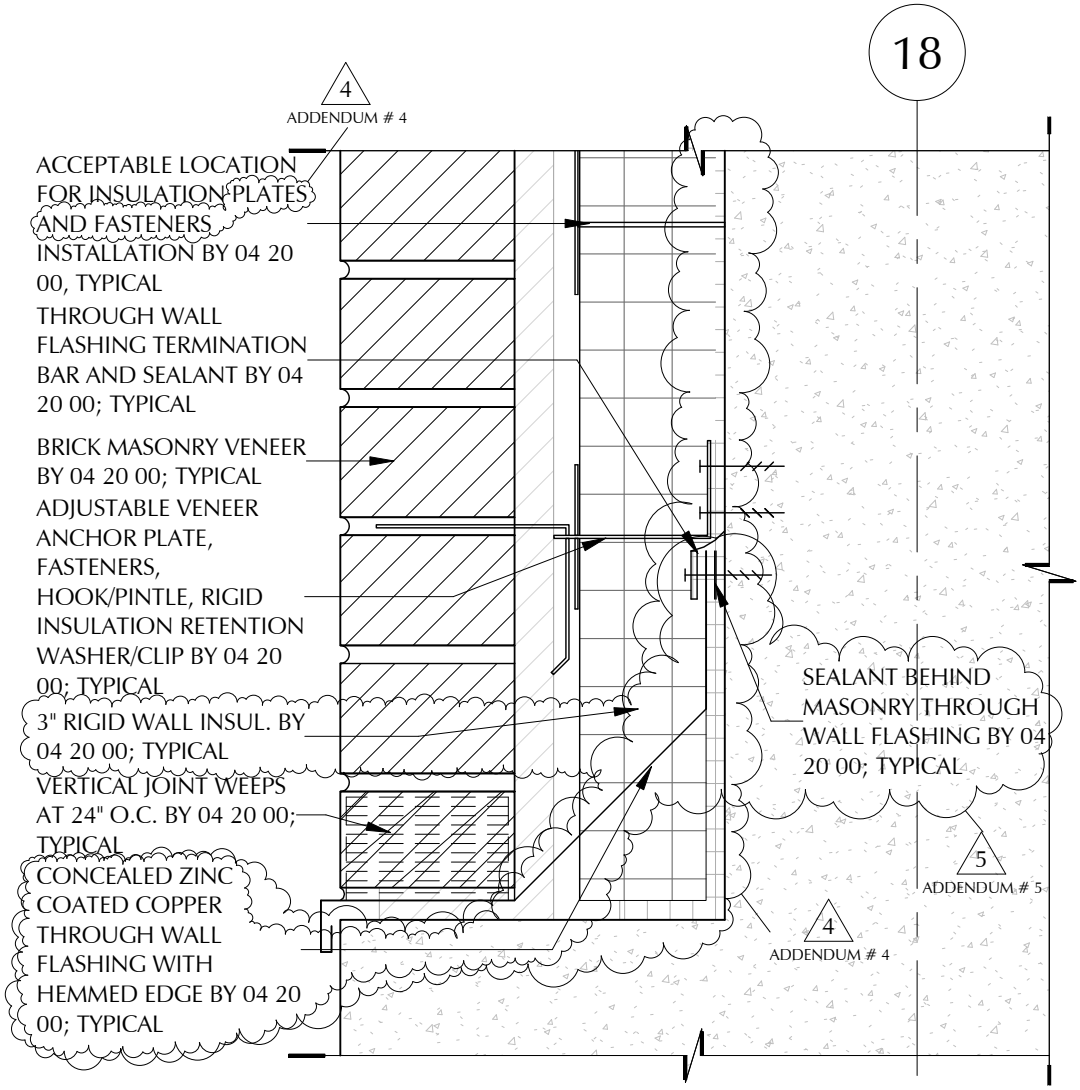
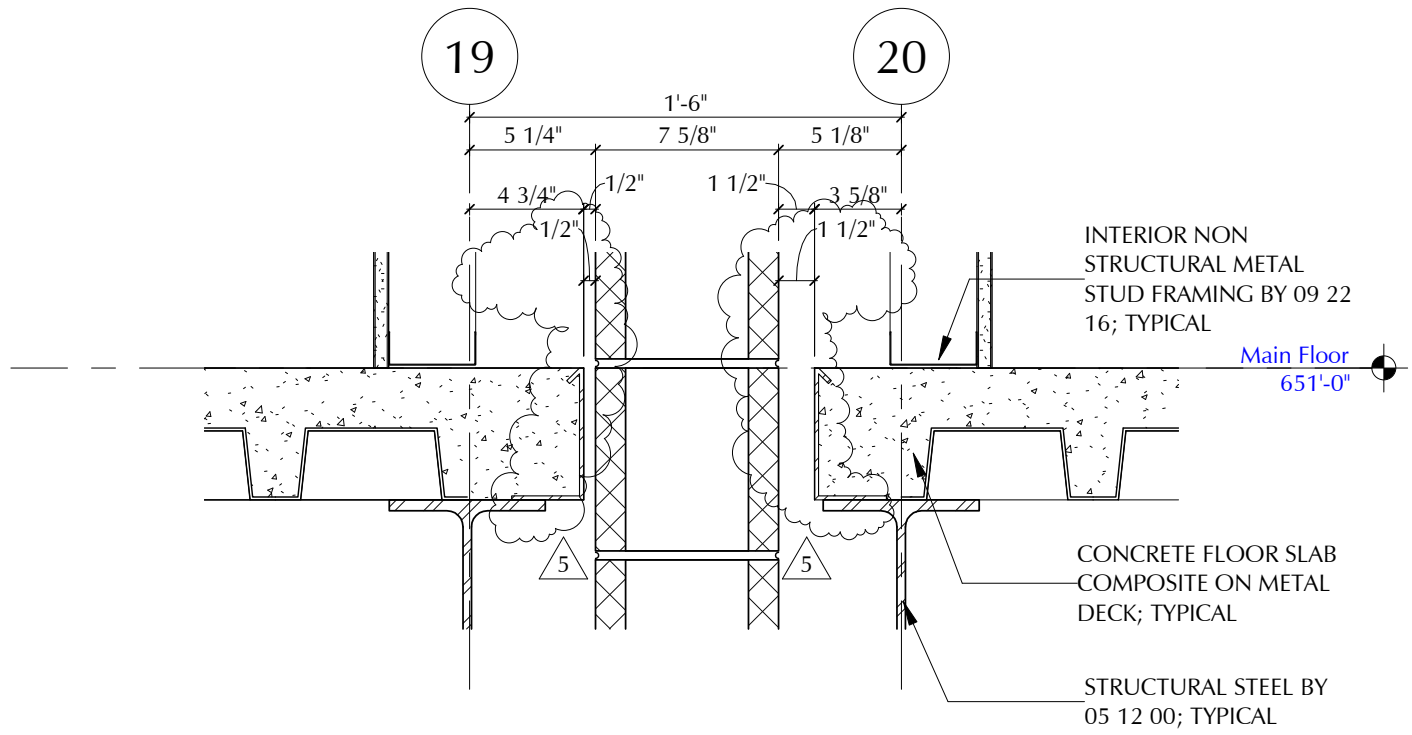
DESCRIPTION	LOCATION	PRODUCT	COLOR	NOTES
Paint 1	Classroom Walls			TBD
Paint 2-AA1	Classroom Accent Wall (1 wall)			TBD
Paint 2-AA2	Classroom Accent Wall (1 wall) at UpperFloor AA			TBD
Paint 2-CC1	Classroom Accent Wall (1 wall) at Main Floor AA			TBD
Paint 2-CC0	Classroom Accent Wall (1 wall) at Lower Floor AA			TBD
Paint 3	Corridor Walls			TBD
Paint 4	Lobby B150			TBD
Paint 4	Cafeteria Walls			TBD
Paint 5	Cafeteria Ceiling			TBD
Paint 6-AA	HM Frames at AA1 and AA2			TBD
Paint 6-CC	HM Frames at CC1 and CC0			
Paint 7	HM Frames at BB			

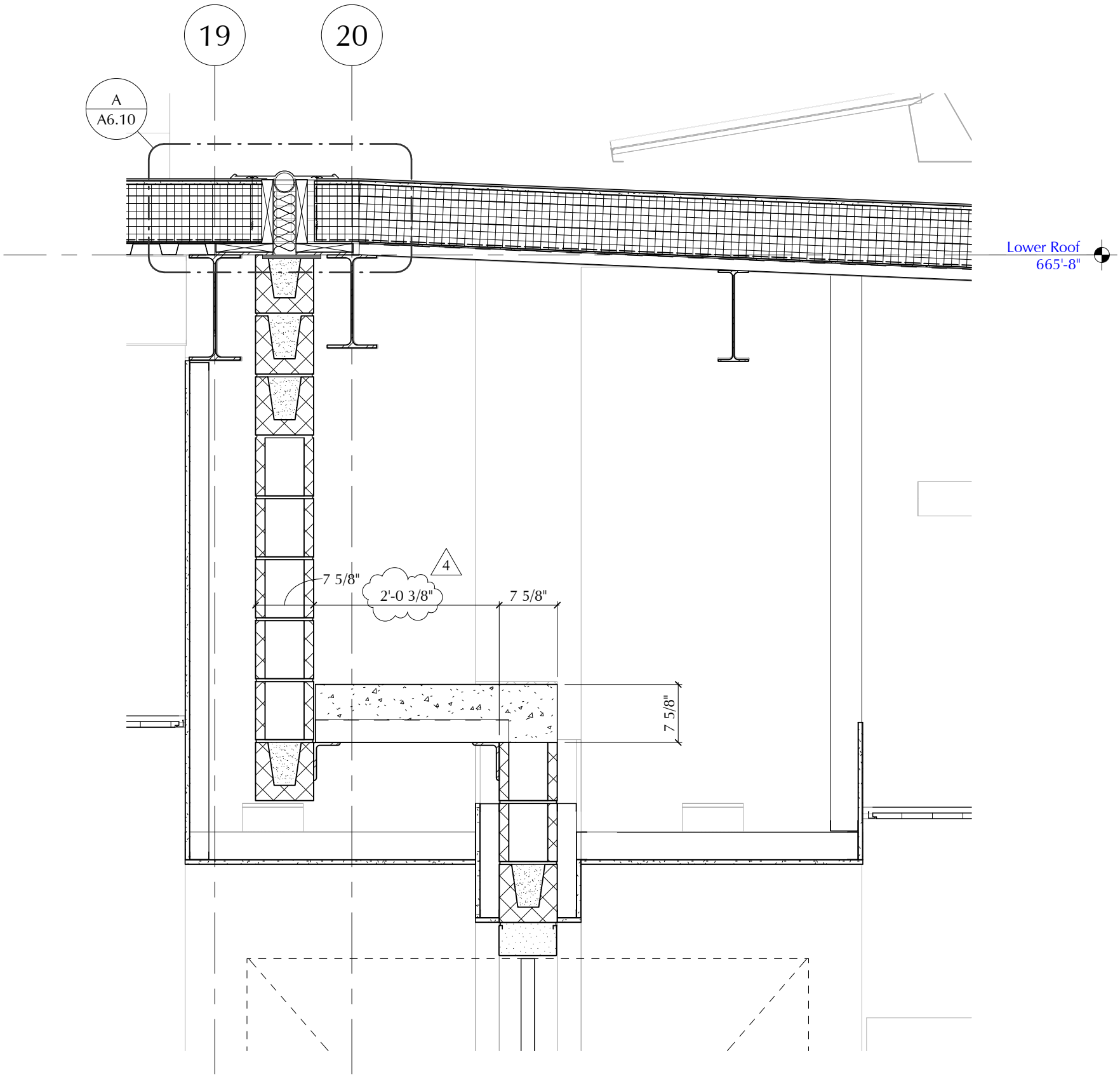


LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools City of Worcester Massachusetts, 01605	PROJECT TITLE: Nelson Place Elementary School 35 Nelson Place, Worcester, MA 01605	DRAWING NAME: Detail 9 on Sheet A6.20 Revision DATE: 02/0 2/2016 SCALE: 3" = 1'-0" REFERENCE: ADDENDUM # 5	SHEET REF. NO. A6.20 DRAWING NUMBER: ADD5 A-001



B / A6.10 **Composite Deck to Fire Wall Detail**

Scale: 1 1/2" = 1'-0"



42 / A6.10 **Partial Wall Section At Fire Wall & Door**

Scale: 3/4" = 1'-0"

LAMOUREUX PAGANO ASSOCIATES. ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

CLIENT INFORMATION:
Worcester Public Schools
City of Worcester
Massachusetts, 01605

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

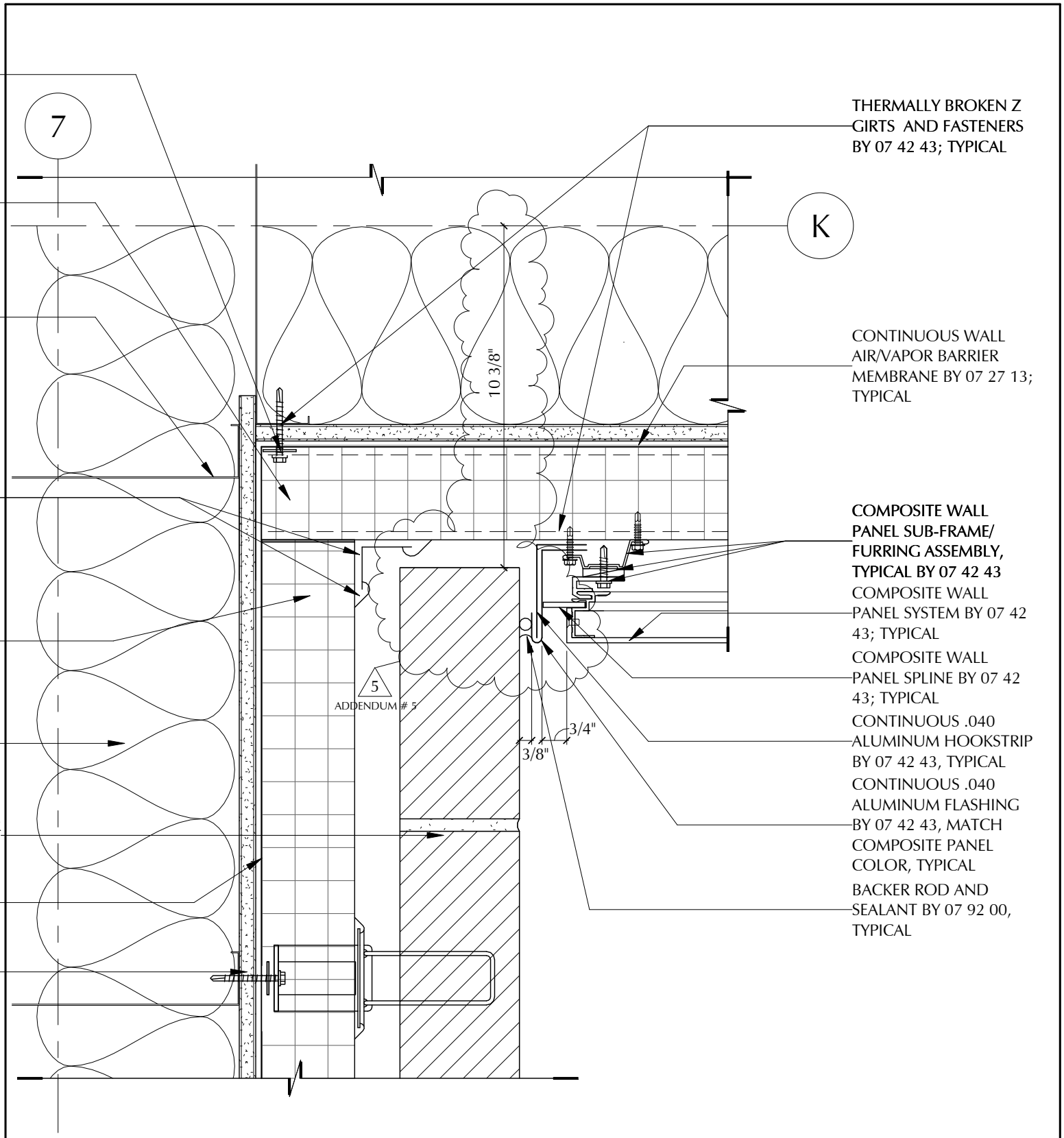
DRAWING NAME: Slab Edge Detail At Firewall

SHEET REF. NO.

DATE: 02/02/2016

SCALE: As indicated

DRAWING NUMBER: ADD5 / A-002



LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS
106 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

CLIENT INFORMATION:
Worcester Public Schools
City of Worcester
Massachusetts, 01605

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

DRAWING NAME:
Detail 10 on Sheet A6.17 Revision

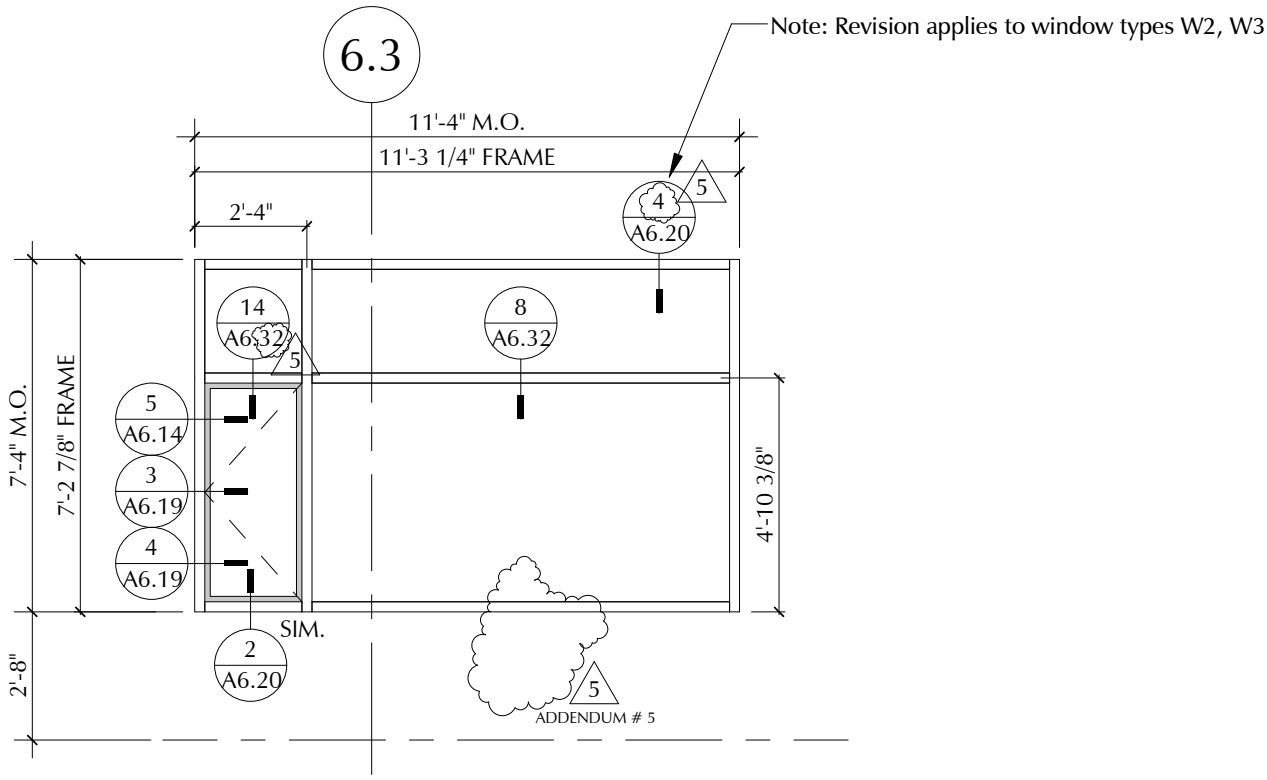
SHEET REF. NO.
A6.17

DATE:
02/01/16

SCALE:
3" = 1'-0"

REFERENCE:
ADDENDUM # 5

DRAWING NUMBER:
ADD5
A-003



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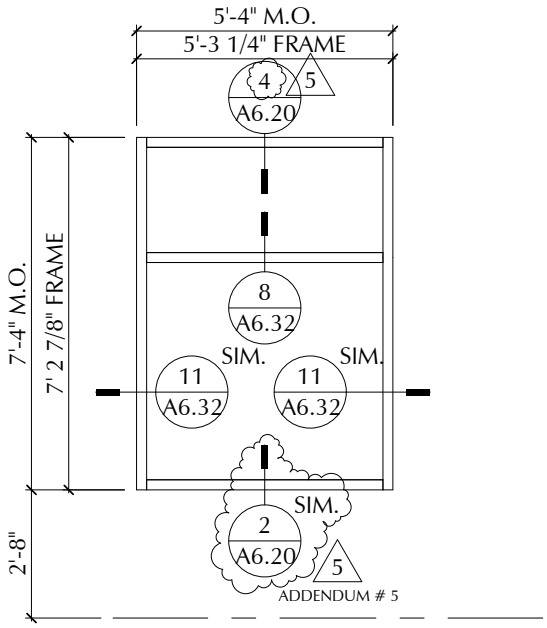
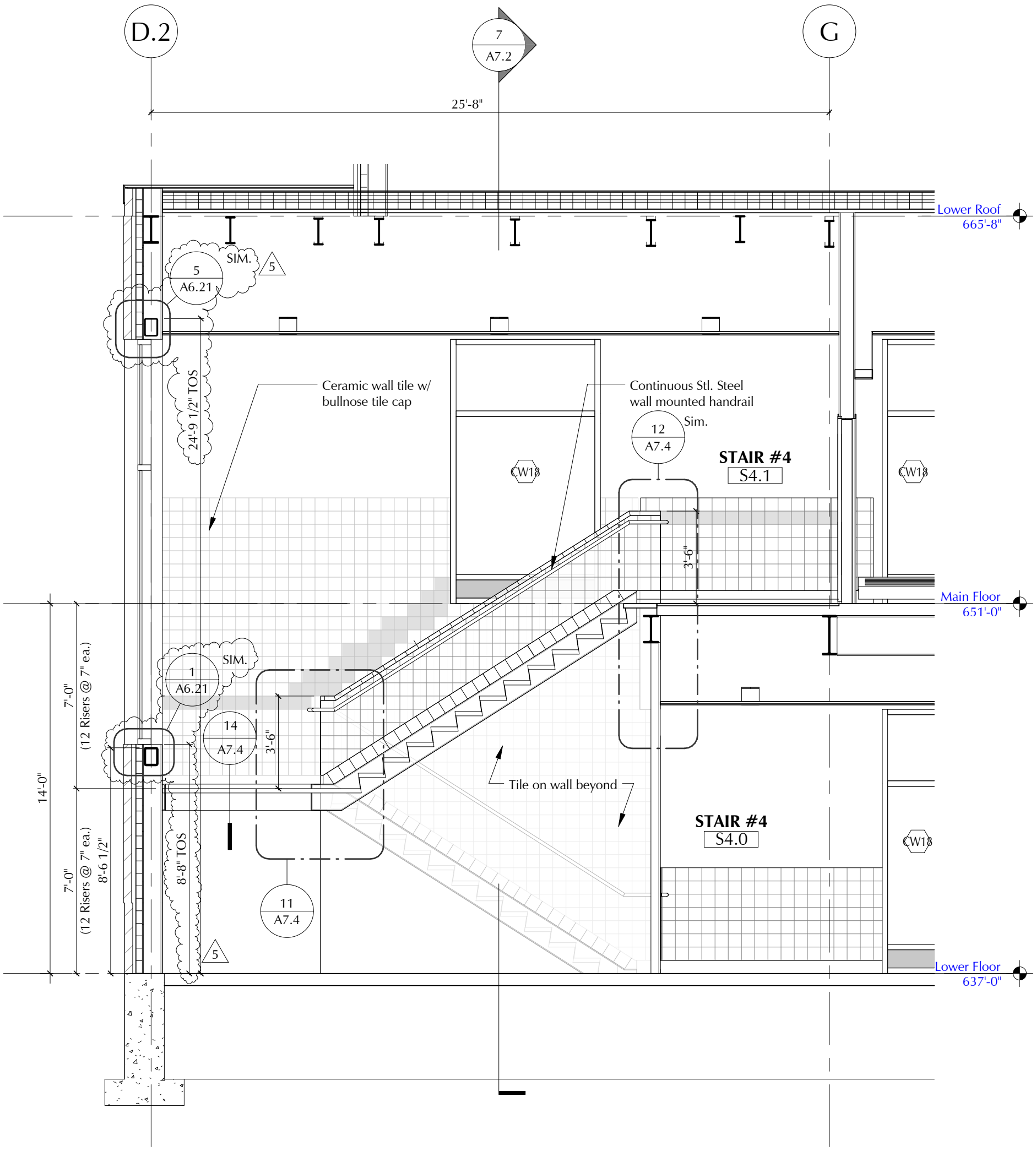


W4

LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS 106 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools City of Worcester Massachusetts, 01605	PROJECT TITLE: Nelson Place Elementary School 35 Nelson Place, Worcester, MA 01605	DRAWING NAME: Revised Window Type Elevation DATE: 02/02/2016 SCALE: 1/4" = 1'-0" REFERENCE: ADDENDUM # 5	SHEET REF. NO. A6.32 DRAWING NUMBER: ADD5 A-004

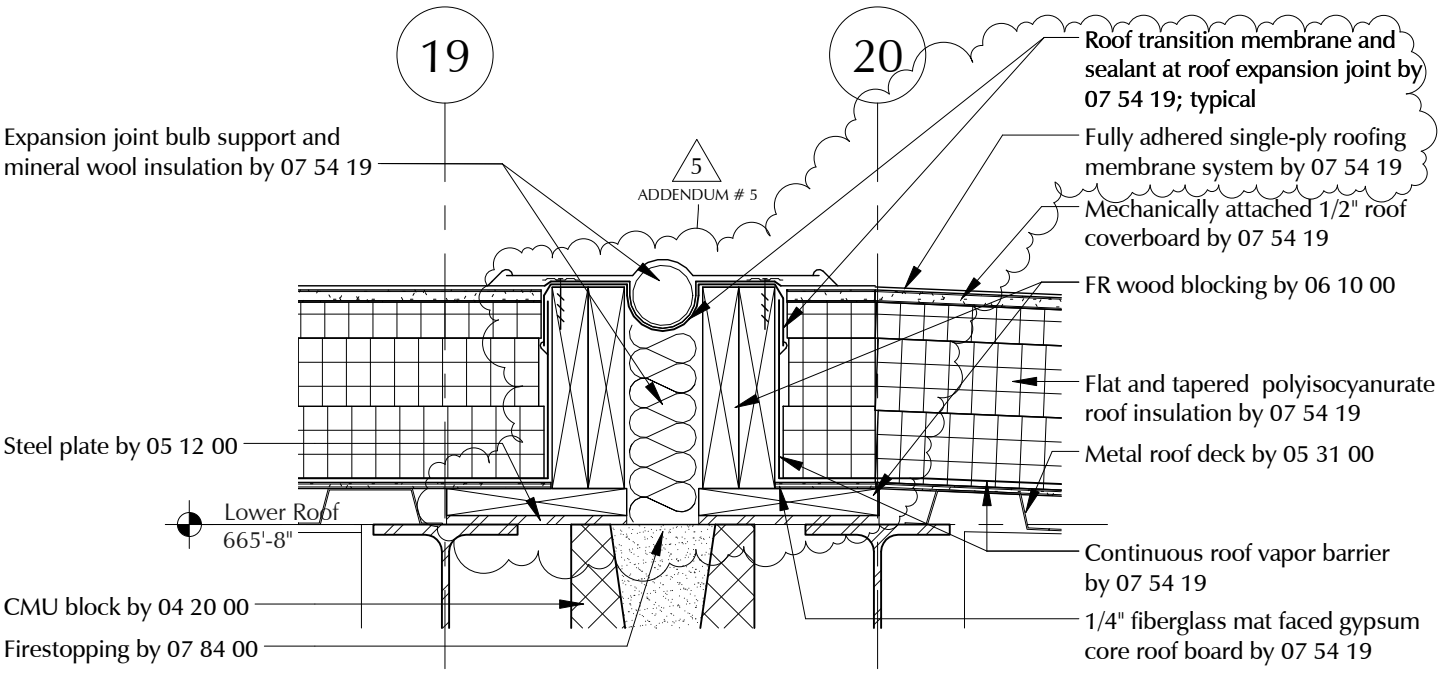


8
A7.2

Section @ Stair 4 E-W ADD5 A-005

Scale: 1/4" = 1'-0"

LAMOUREUX PAGANO ASSOCIATES. ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools City of Worcester Massachusetts, 01605	PROJECT TITLE: Nelson Place Elementary School 35 Nelson Place, Worcester, MA 01605	DRAWING NAME: Revised Stair Section DATE: 02/02/2016 SCALE: 1/4" = 1'-0"	SHEET REF. NO. DRAWING NUMBER: ADD5 A-005



LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS
106 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

CLIENT INFORMATION:
Worcester Public Schools
City of Worcester
Massachusetts, 01605

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

DRAWING NAME:
Detail A on Sheet A6.10 Revision

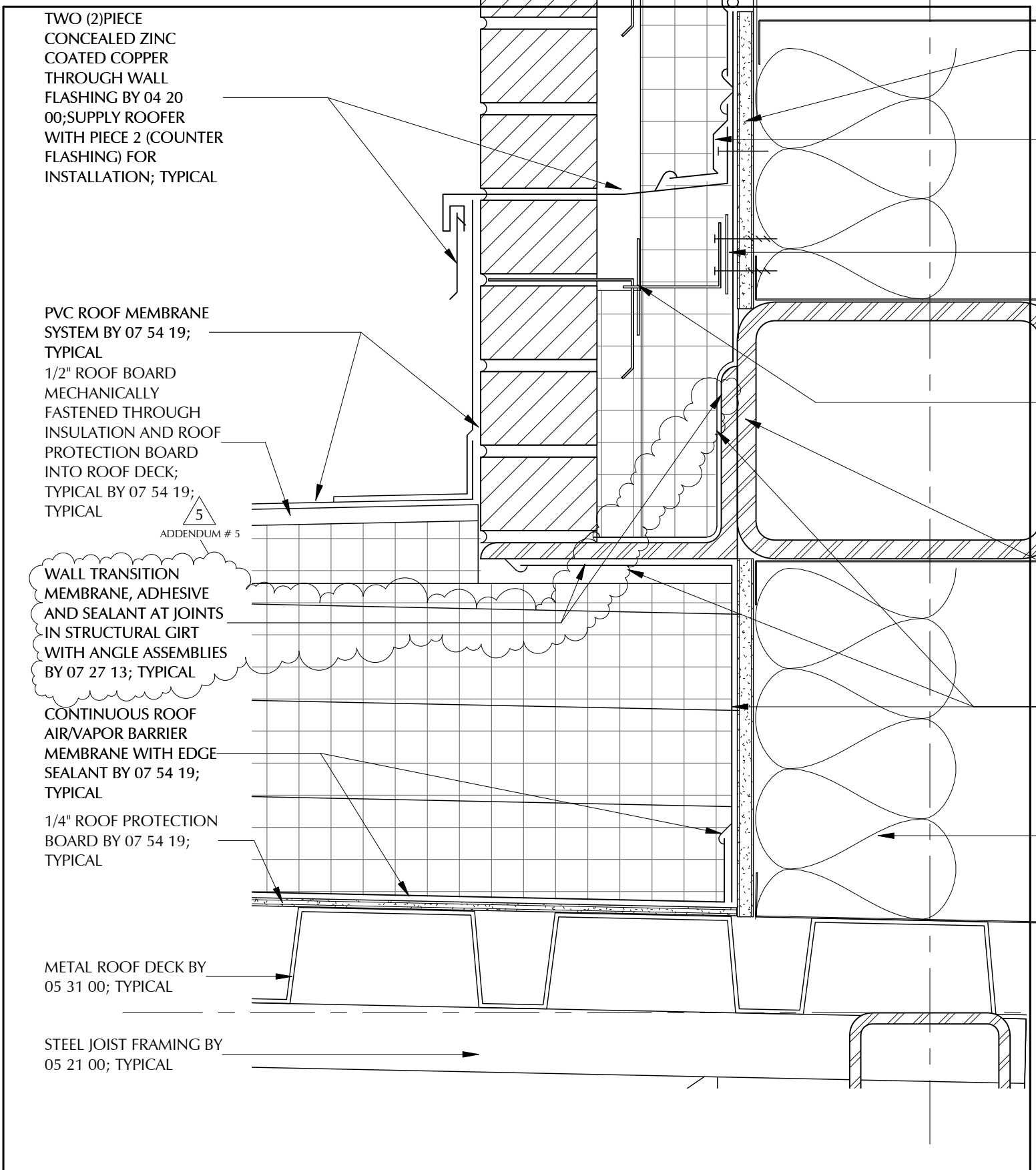
SHEET REF. NO.
A6.10

DATE:
02/01/16

SCALE:
1 1/2" = 1'-0"

REFERENCE:
ADDENDUM # 5

DRAWING NUMBER:
ADD5
A-006



LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

CLIENT INFORMATION:
Worcester Public Schools
City of Worcester
Massachusetts, 01605

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

DRAWING NAME:
Detail 1 on Sheet A6.22 Revision

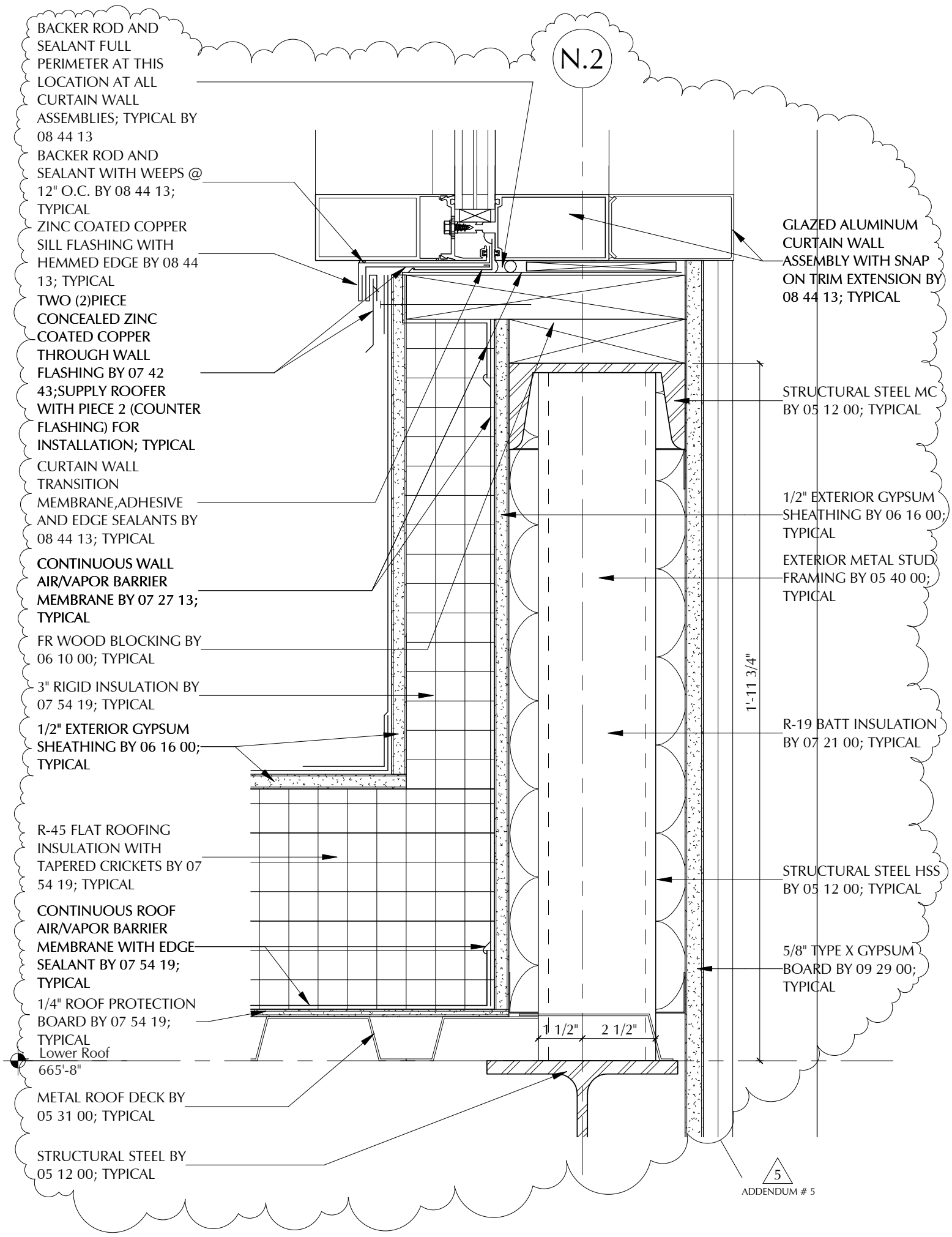
SHEET REF. NO.
A6.22

DATE:
02/01/16

SCALE:
3" = 1'-0"

REFERENCE:
ADDENDUM # 5

DRAWING NUMBER:
ADD5
A-007



LAMOUREUX PAGANO ASSOCIATES. ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

CLIENT INFORMATION:
Worcester Public Schools
City of Worcester
Massachusetts, 01605

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

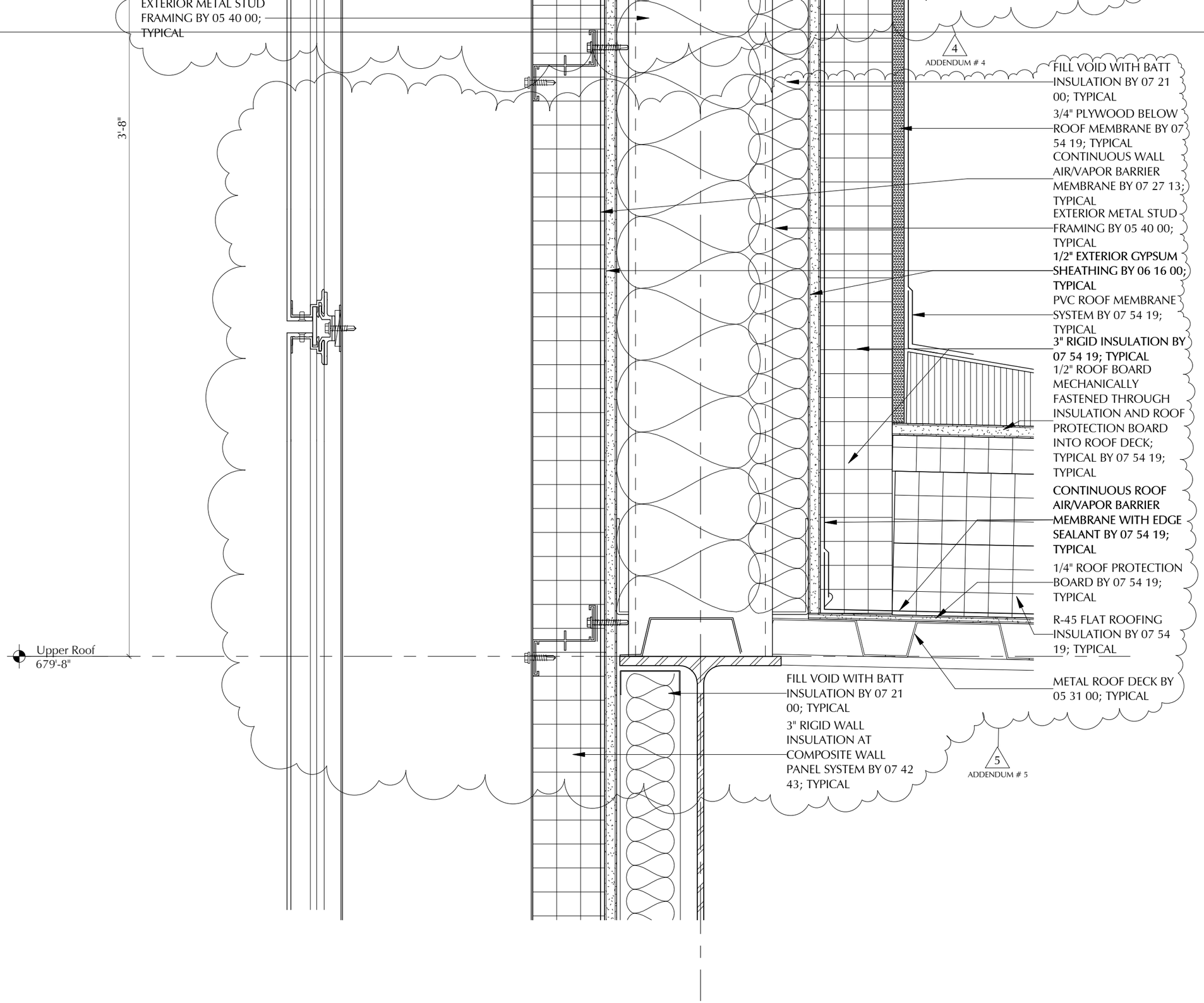
DRAWING NAME: Detail 5 on Sheet A6.27 Revision

SHEET REF. NO. A6.27

DATE: 02/01/16

SCALE: 3" = 1'-0"

DRAWING NUMBER: ADD5 / A-008



SHEET REF. NO.
A6.25

DRAWING NUMBER:
ADD5
A-009

DRAWING NAME:
Detail 5 on Sheet A6.25 Revision

DATE:
02/01/16

SCALE:
3" = 1'-0"

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

CLIENT INFORMATION:
Worcester Public Schools

City of Worcester
Massachusetts, 01605

LAMOUREUX PAGANO ASSOCIATES ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605

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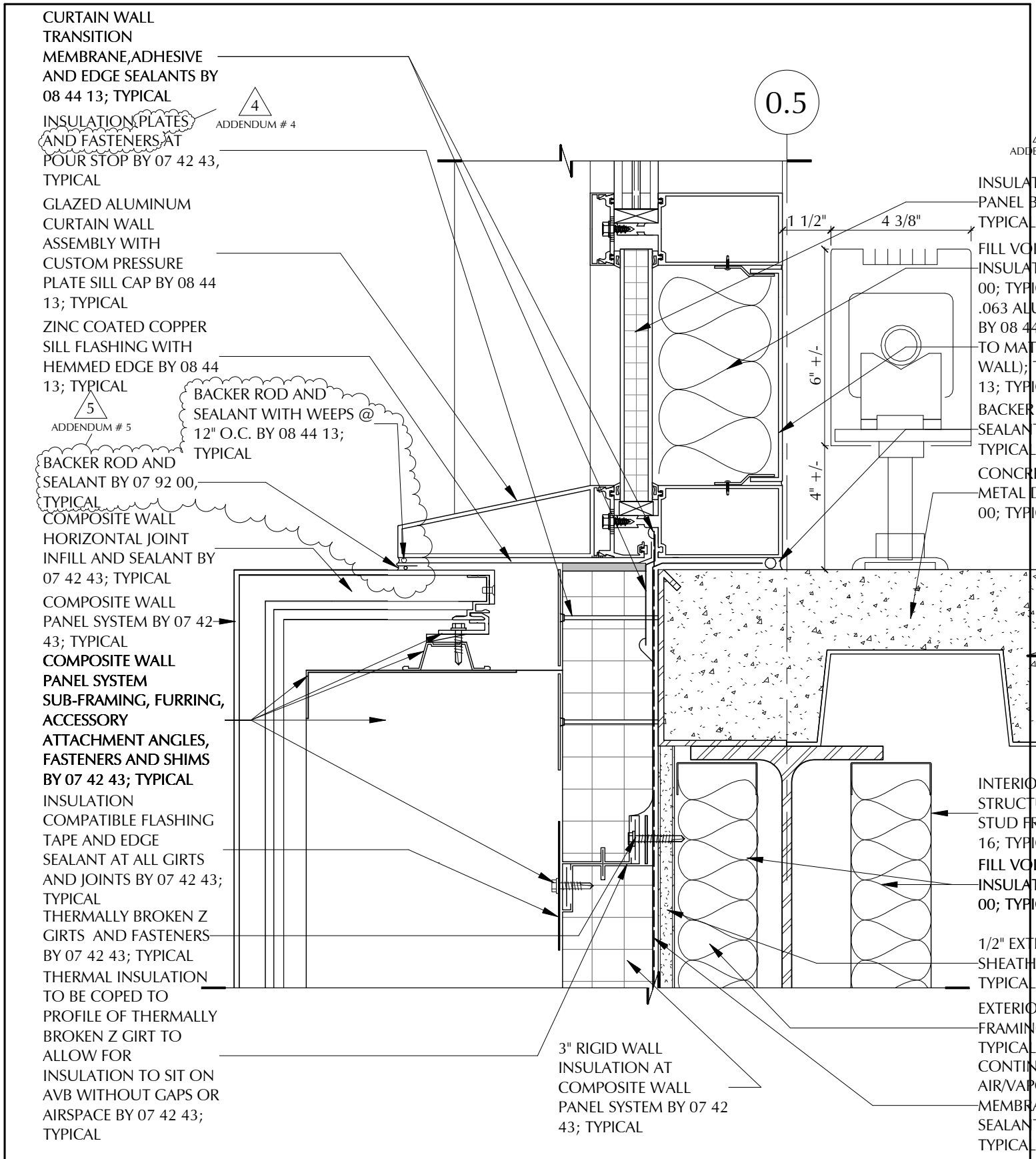
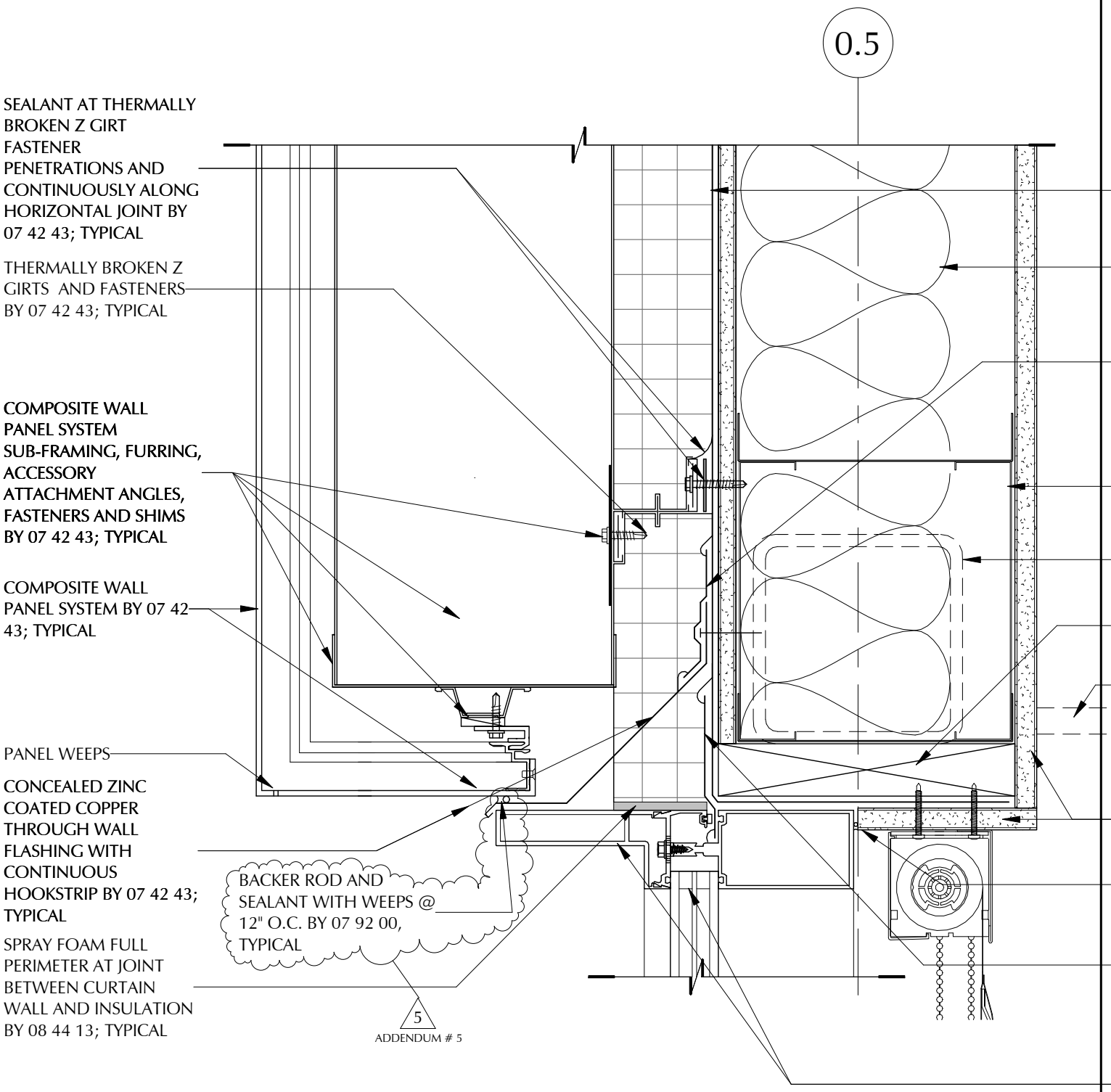
THE AMERICAN INSTITUTE OF ARCHITECTS



LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS 106 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools City of Worcester Massachusetts, 01605	PROJECT TITLE: Nelson Place Elementary School 35 Nelson Place, Worcester, MA 01605	DRAWING NAME: Detail 8 on Sheet A6.21 Revision DATE: 02/01/16 SCALE: 3" = 1'-0" REFERENCE: ADDENDUM # 5	SHEET REF. NO. A6.21 DRAWING NUMBER: ADD5 A-010



LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS
106 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

CLIENT INFORMATION:
Worcester Public Schools
City of Worcester
Massachusetts, 01605

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

DRAWING NAME:
Detail 9 on Sheet A6.21 Revision

SHEET REF. NO.
A6.21

DATE:
02/01/16

SCALE:
3" = 1'-0"

REFERENCE:
ADDENDUM # 5

DRAWING NUMBER:
ADD5
A-011

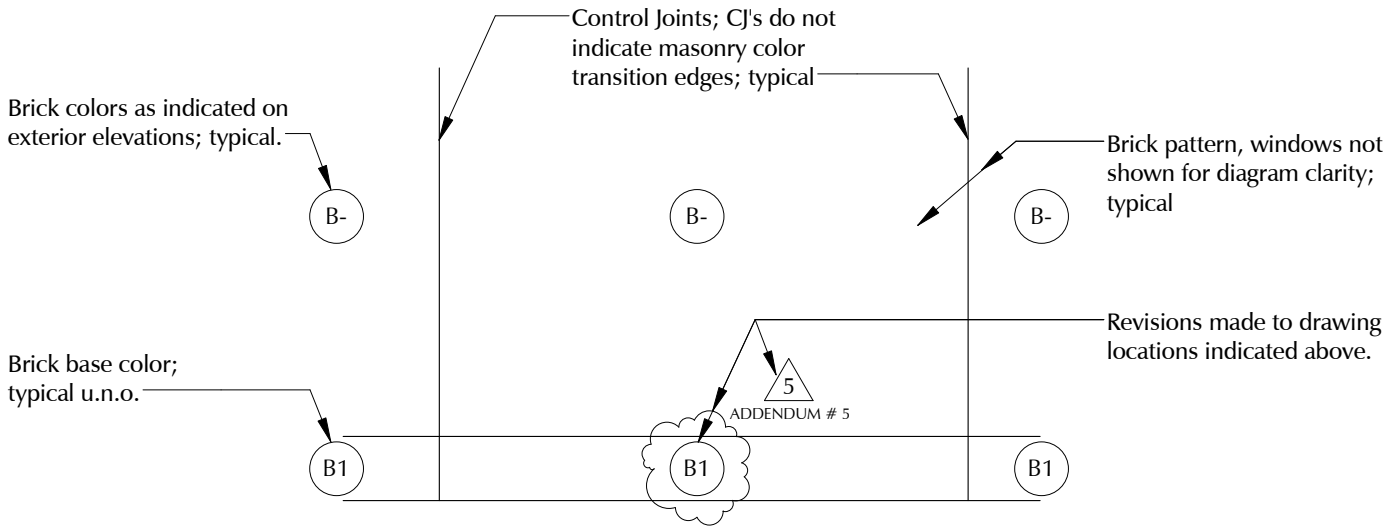
Locations: **Column line references:**

At Elevation 1/A5.1 — 2, 3

At Elevation 6/A5.1 — 23

At Elevation 3/A5.2 — 25, 24

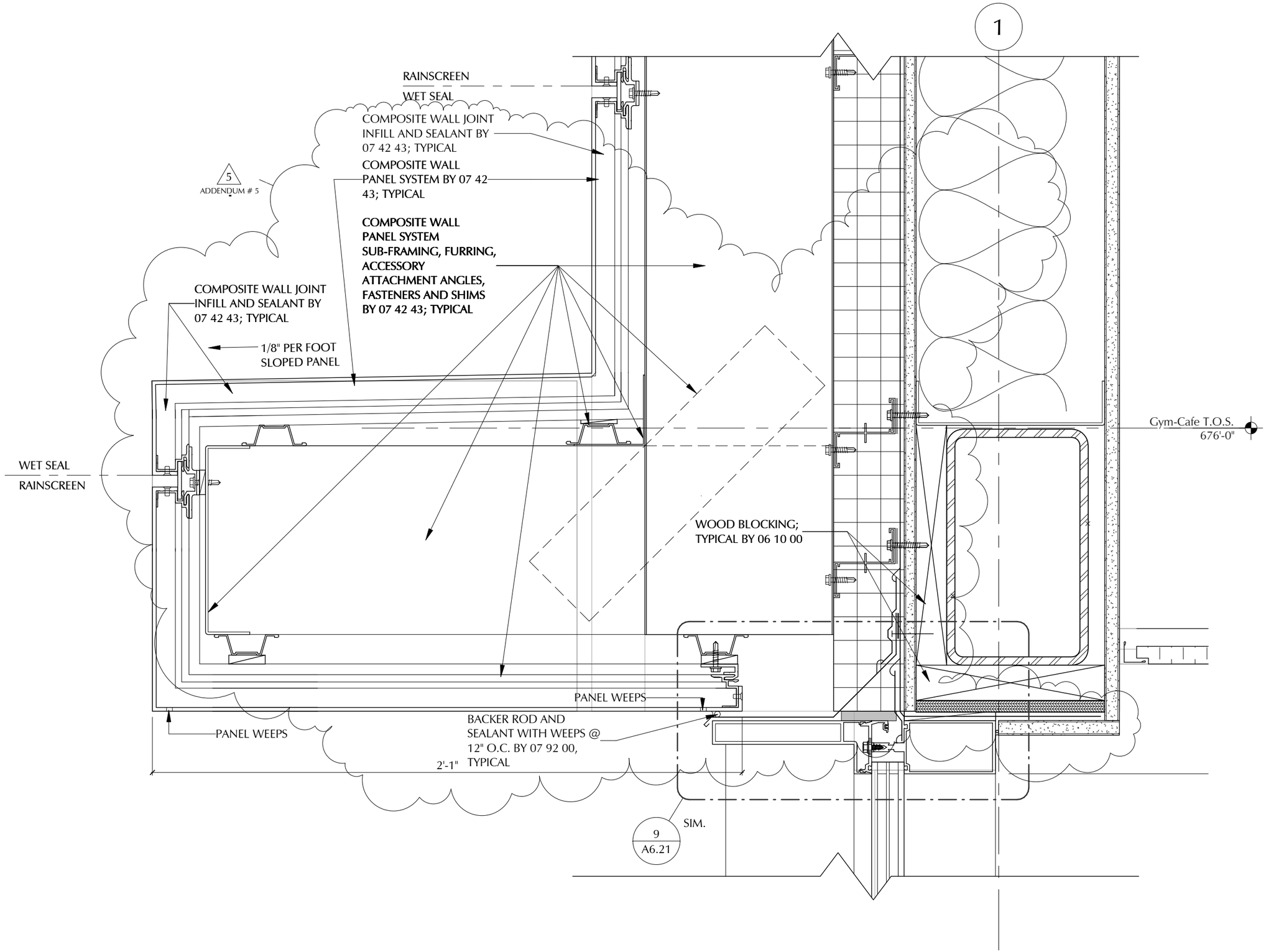
At Elevation 6/A5.2 — 11, 10



Masonry Type B1 Clarification by Control Joints Diagram

Scale: 1/8" = 1'-0"

LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools City of Worcester Massachusetts, 01605	PROJECT TITLE: Nelson Place Elementary School 35 Nelson Place, Worcester, MA 01605	DRAWING NAME: Exterior Elevations Brick Color Clarification DATE: 02/02/2016 SCALE: 1/8" = 1'-0" REFERENCE: ADDENDUM # 5	SHEET REF. NO. See dwg. DRAWING NUMBER: ADD5 A-012



SHEET REF. NO.
A6.22

DRAWING NUMBER:
ADD5
A-013

DRAWING NAME:
Detail 4 on Sheet A6.22 Revision

DATE:
02/01/16

SCALE:
3" = 1'-0"

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

CLIENT INFORMATION:
Worcester Public Schools

City of Worcester
Massachusetts, 01605

LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
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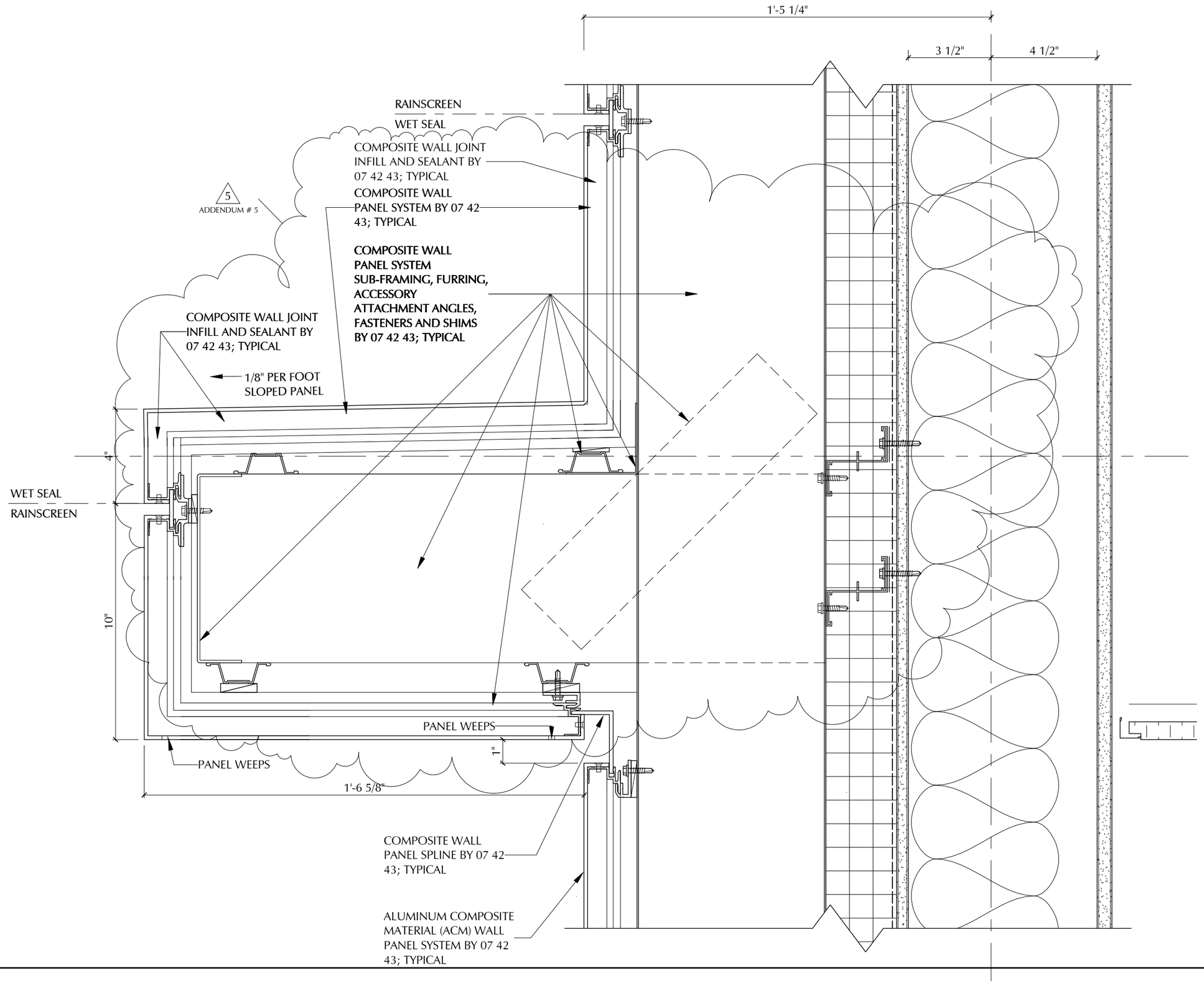
THE AMERICAN INSTITUTE OF ARCHITECTS



SHEET REF. NO.
A6.22

DRAWING NUMBER:
ADD5
A-014

DRAWING NAME:
Detail 2 on Sheet A6.22 Revision

DATE:
02/01/16

SCALE:
3" = 1'-0"

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

CLIENT INFORMATION:
Worcester Public Schools

City of Worcester
Massachusetts, 01605

LAMOUREUX PACANO ASSOCIATES ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605

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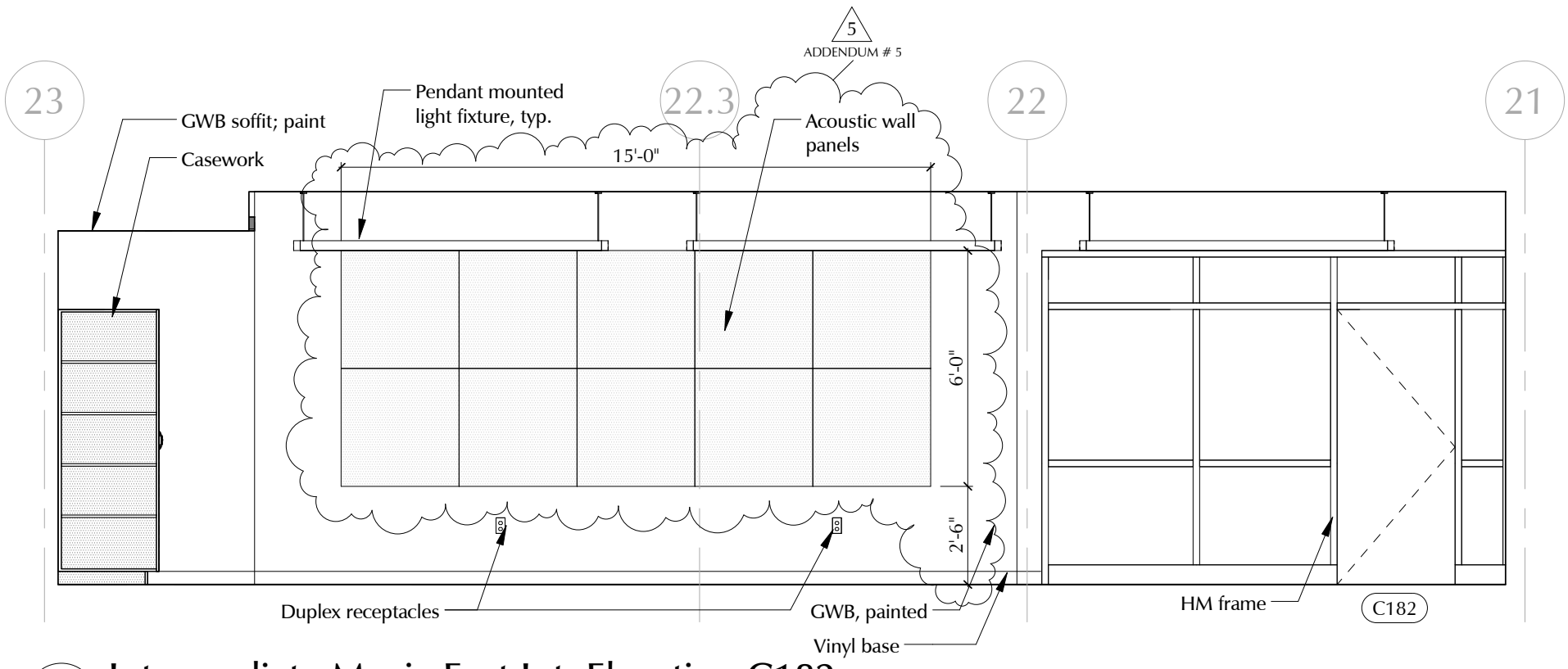
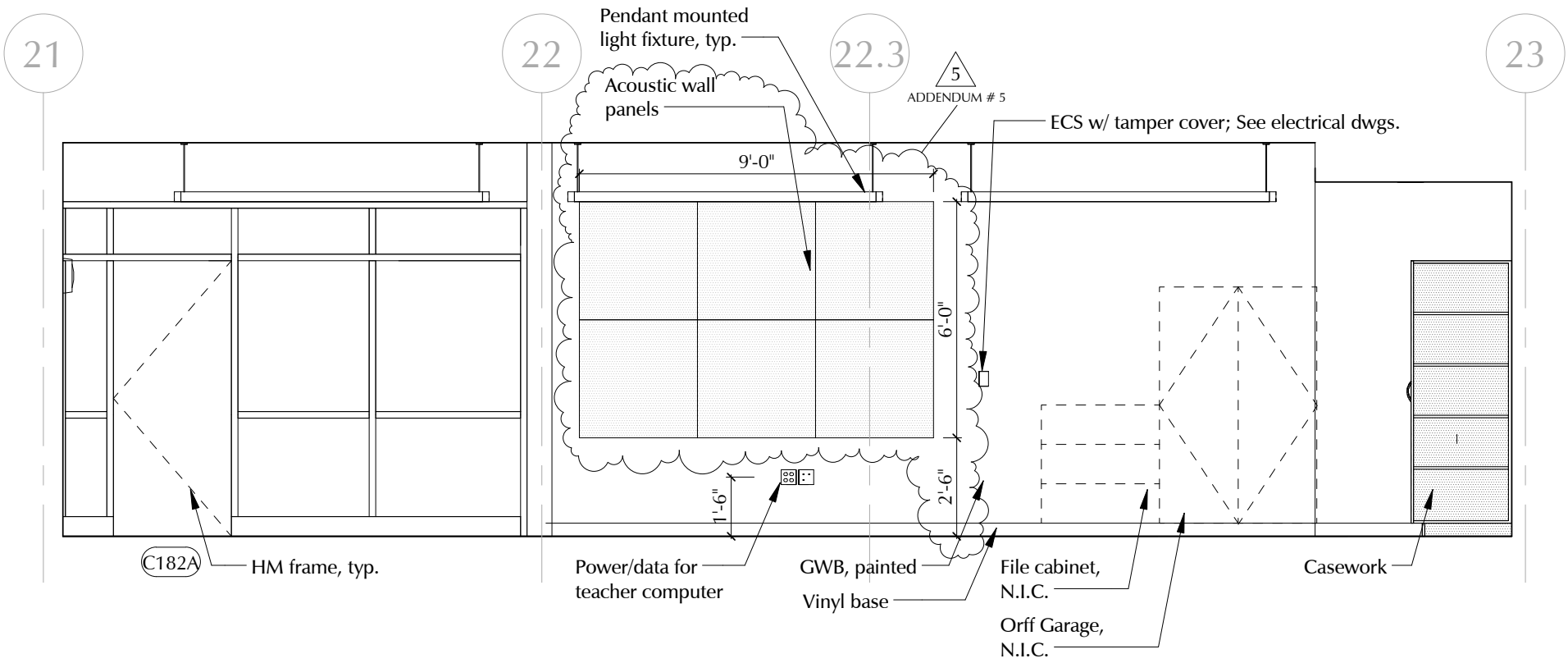


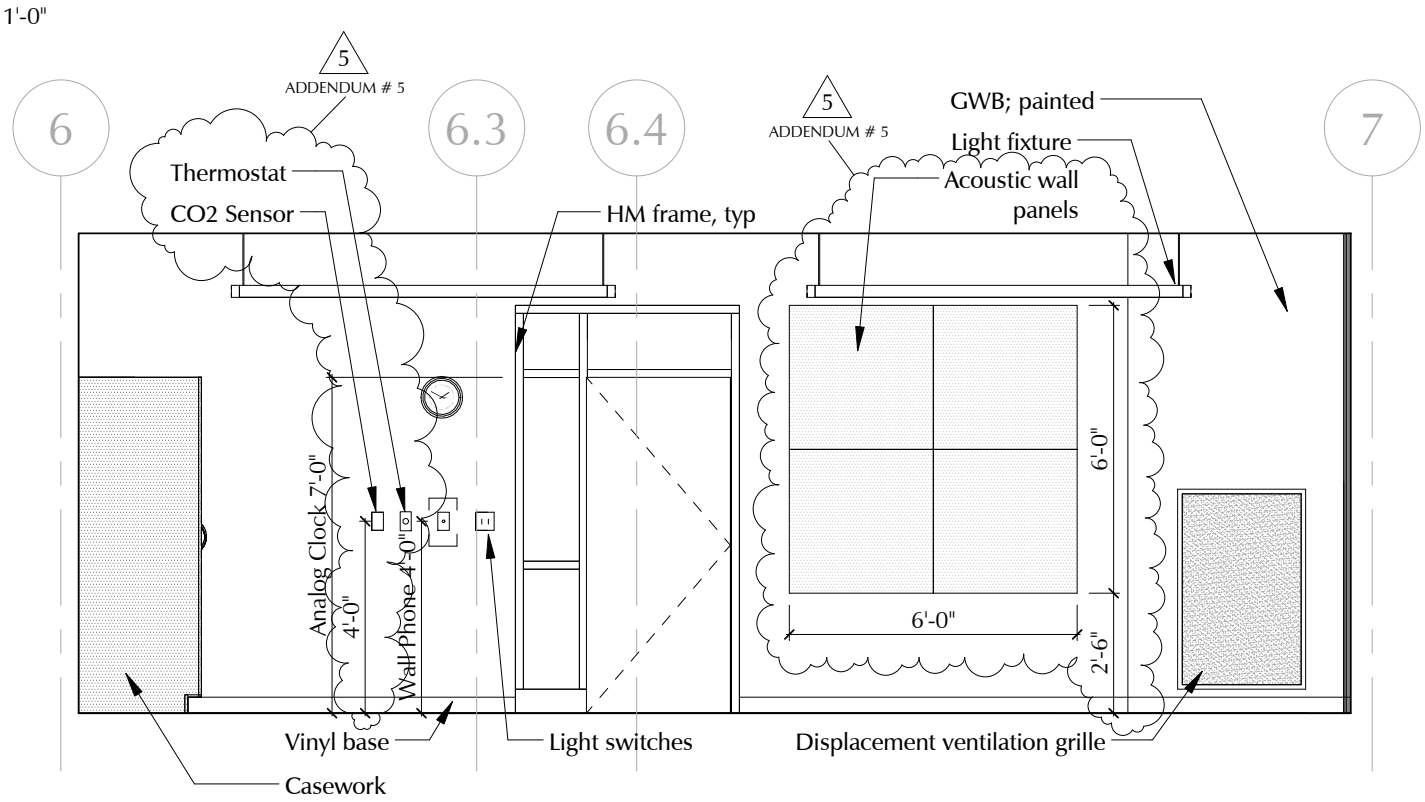
15 / A8.5 Intermediate Music East Int. Elevation C182

Scale: 1/4" = 1'-0"



13 / A8.5 Intermediate Music West Int. Elevation C182

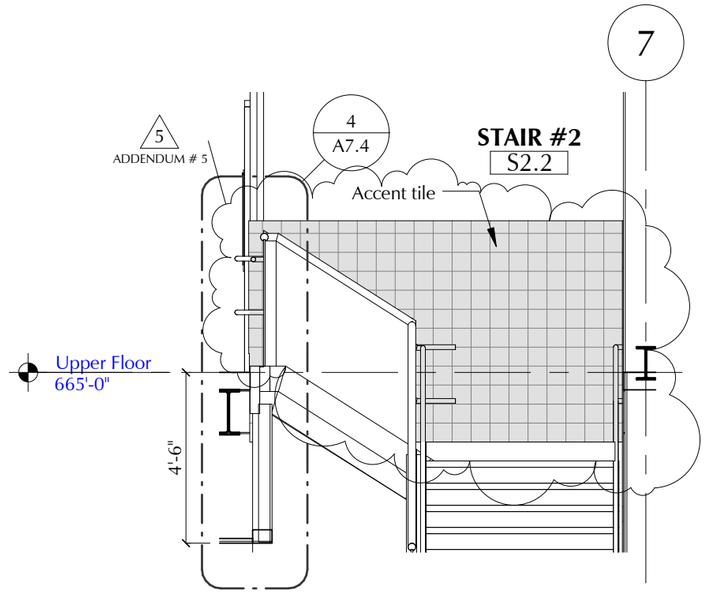
Scale: 1/4" = 1'-0"



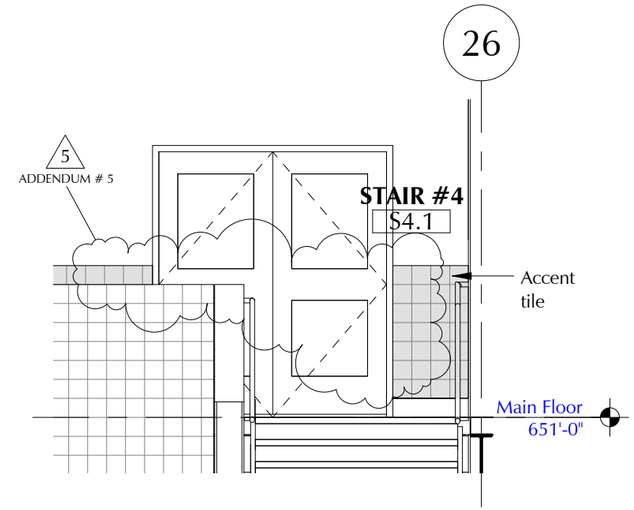
9 / A8.5 Primary Music West Int. Elevation A226

Scale: 1/4" = 1'-0"

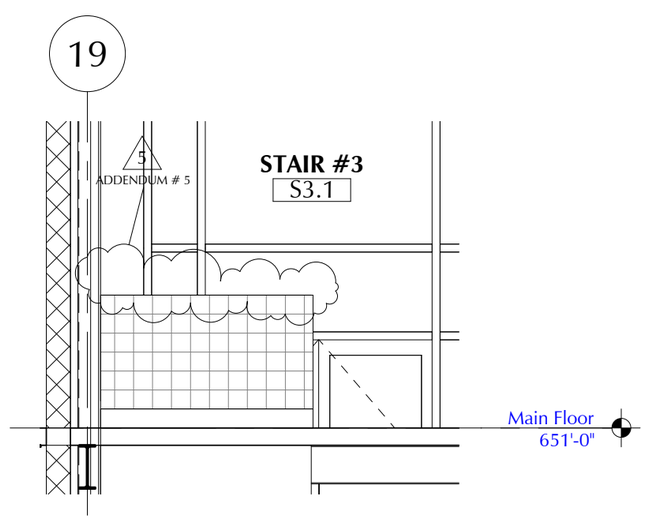
LAMOUREUX PAGANO ASSOCIATES. ARCHITECTS 108 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools City of Worcester Massachusetts, 01605	PROJECT TITLE: Nelson Place Elementary School 35 Nelson Place, Worcester, MA 01605	DRAWING NAME: Music Classroom Elevations DATE: 02/02/16 SCALE: 1/4" = 1'-0"	SHEET REF. NO. DRAWING NUMBER: ADD5 A-015



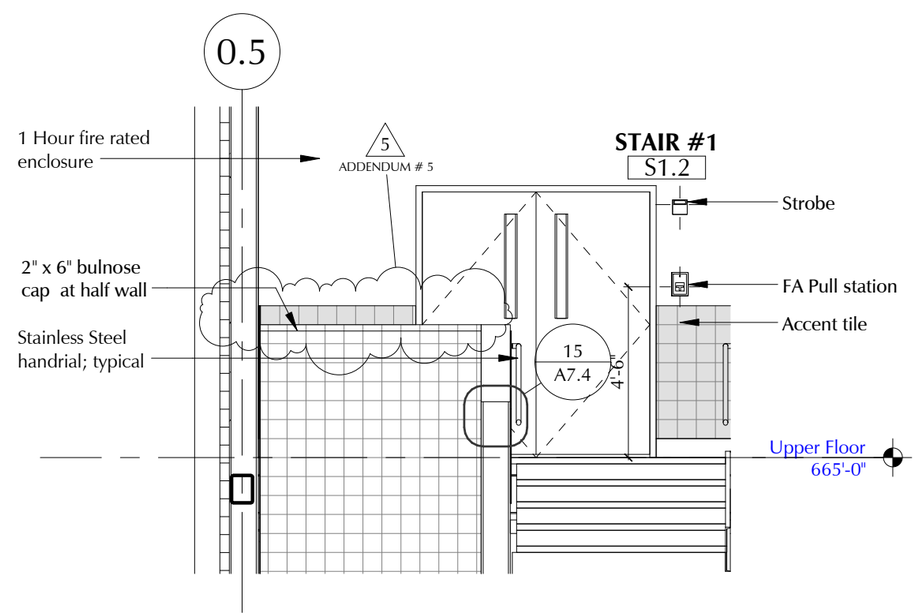
3 / A7.2 Partial Stair #2 Section N-S
Scale: 1/4" = 1'-0"



7 / A7.2 Partial Stair #4 Section N-S
Scale: 1/4" = 1'-0"



5 / A7.2 Partial Stair # 3 Section N-S
Scale: 1/4" = 1'-0"



1 / A7.2 Partial Stair #1 Section N-S
Scale: 1/4" = 1'-0"

SHEET REF. NO.

DRAWING NUMBER: ADD5 / A-016

DRAWING NAME: Stair Sections

DATE: 02/03/16

SCALE: 1/4" = 1'-0"

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

CLIENT INFORMATION:
Worcester Public Schools

City of Worcester
Massachusetts, 01605

LAMOUREUX PAGANO ASSOCIATES ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
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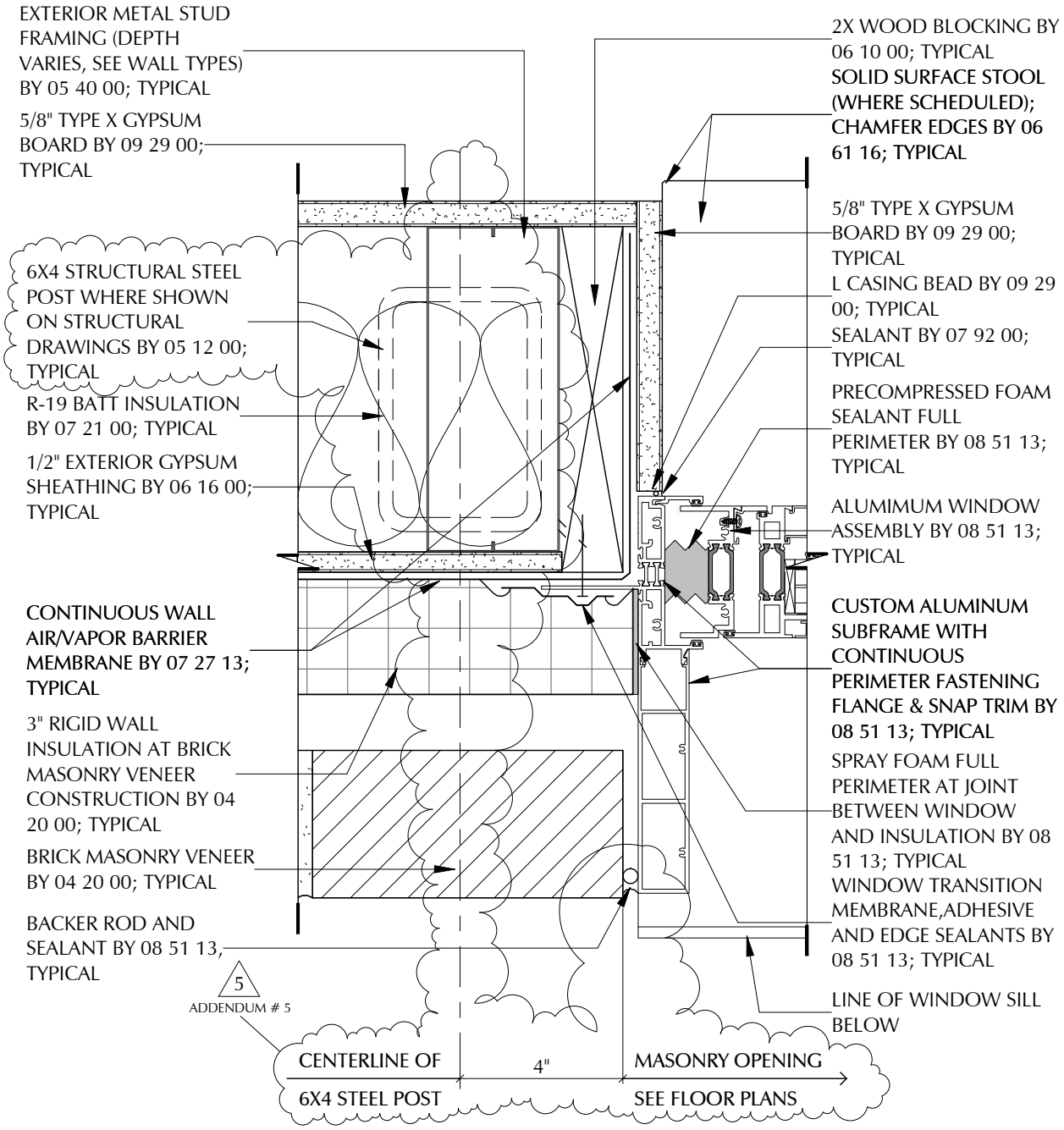

(Operable Window Shown - Fixed Similar)

LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS 106 GROVE STREET, SUITE 300 WORCESTER, MASSACHUSETTS 01605 MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS	CLIENT INFORMATION: Worcester Public Schools City of Worcester Massachusetts, 01605	PROJECT TITLE: Nelson Place Elementary School 35 Nelson Place, Worcester, MA 01605	DRAWING NAME: Detail 12 on Sheet A6.13 Revision DATE: 02/03/16 SCALE: 3" = 1'-0" REFERENCE: ADDENDUM # 5	SHEET REF. NO. A6.13 DRAWING NUMBER: ADD5 A-017

ADD#4 Schedule

No.	Qty.	Description	Plumbing Utilities	Electrical Utilities						Revision Comment
			IW	Voltage	Phase	HP	Amps	Hard	Electrical Height	
6	1	Freezer Coil	3/4"	208/230	1		14.0	X	VFY	
7	1	Freezer Condensing Unit		208/230	3	1 1/2	14.775	X	VFY	
8	1	Cooler Coil	3/4"	208/230	1		1.4	X	VFY	
9	1	Cooler Condensing Unit		208/230	3	2.0	9.775	X	Verify	

SHEET REF. NO.
K1.1

DRAWING NAME:
REFRIGERATION UPDATES

DRAWING NUMBER:
ADD5
K-001

DATE:
02/02/16

SCALE:

REFERENCE:

PROJECT TITLE:
NELSON PLACE ELEMENTARY SCHOOL
35 Nelson Place School
Worcester, MA 01605

CLIENT INFORMATION:
Worcester Public Schools

Town of Worcester
Massachusetts, 01605

LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS
01605

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HOT WATER STORAGE TANK SCHEDULE	
UNIT NUMBER	HWS–1 & 2
MANUFACTURER ③	HEAT TRANSFER PRODUCTS
MODEL	SSU–119CB
TYPE	VERTICAL
MAX. WORKING PRESSURE (PSI)	150
CAPACITY (GAL.)	119
WATER CONNECTION (INLET)	1–1/2" NPT–M
WATER CONNECTION (OUTLET)	1–1/2" NPT–M
DRAIN CONNECTION	3/4"
TANK SIZE: DIAMETER x HEIGHT	27"ø x 73–1/2"
WEIGHT – EMPTY	178 LBS
WEIGHT – FULL	1,138 LBS
STORAGE TANK WATER TEMP.	140°F
REMARKS	① ②

① FACTORY JACKETED & INSULATED, STAINLESS STEEL STORAGE TANK
② ASME RATED
③ OR EQUAL BY A.O. SMITH, STATE, LOCHINVAR, RUUD/RHEEM OR APPROVED EQUAL.

LAMOUREUX PAGANO ASSOCIATES. ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

CLIENT INFORMATION:
Worcester Public Schools
City of Worcester
Massachusetts, 01605

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

DRAWING NAME: Hot Water Storage Tank Schedule

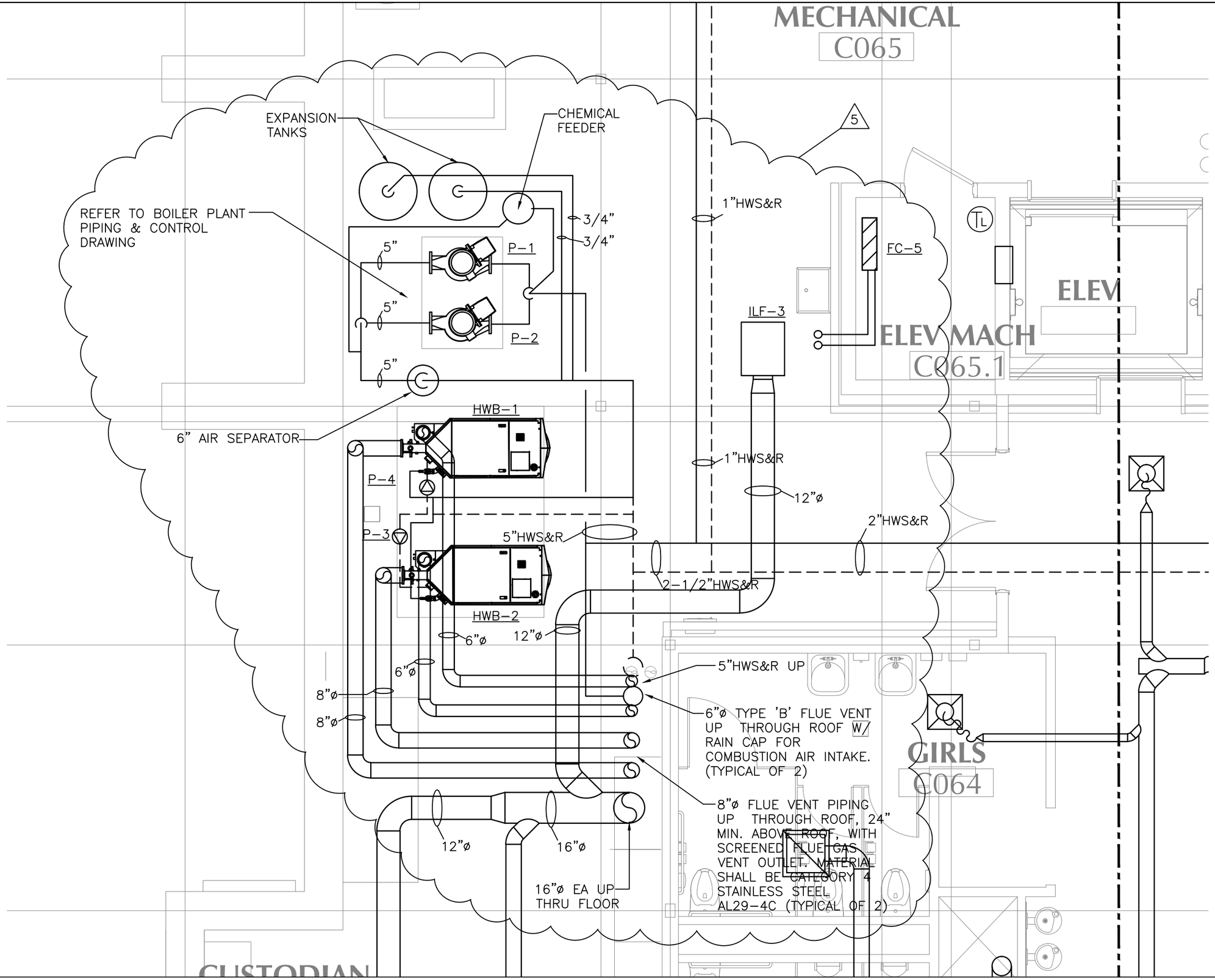
SHEET REF. NO. P4.5

DATE: 02/03/16

SCALE: NONE

REFERENCE:

DRAWING NUMBER: ADD-5 / P-001



SHEET REF. NO.
H6.2

DRAWING NUMBER:
ADD-5
H-001

DRAWING NAME:
Enlarged Mechanical Room Plan

DATE:
02/02/16

SCALE:
1/4"=1'-0"

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

CLIENT INFORMATION:
Worcester Public Schools

City of Worcester
Massachusetts, 01605

LAMOUREUX PAGANO ASSOCIATES ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605

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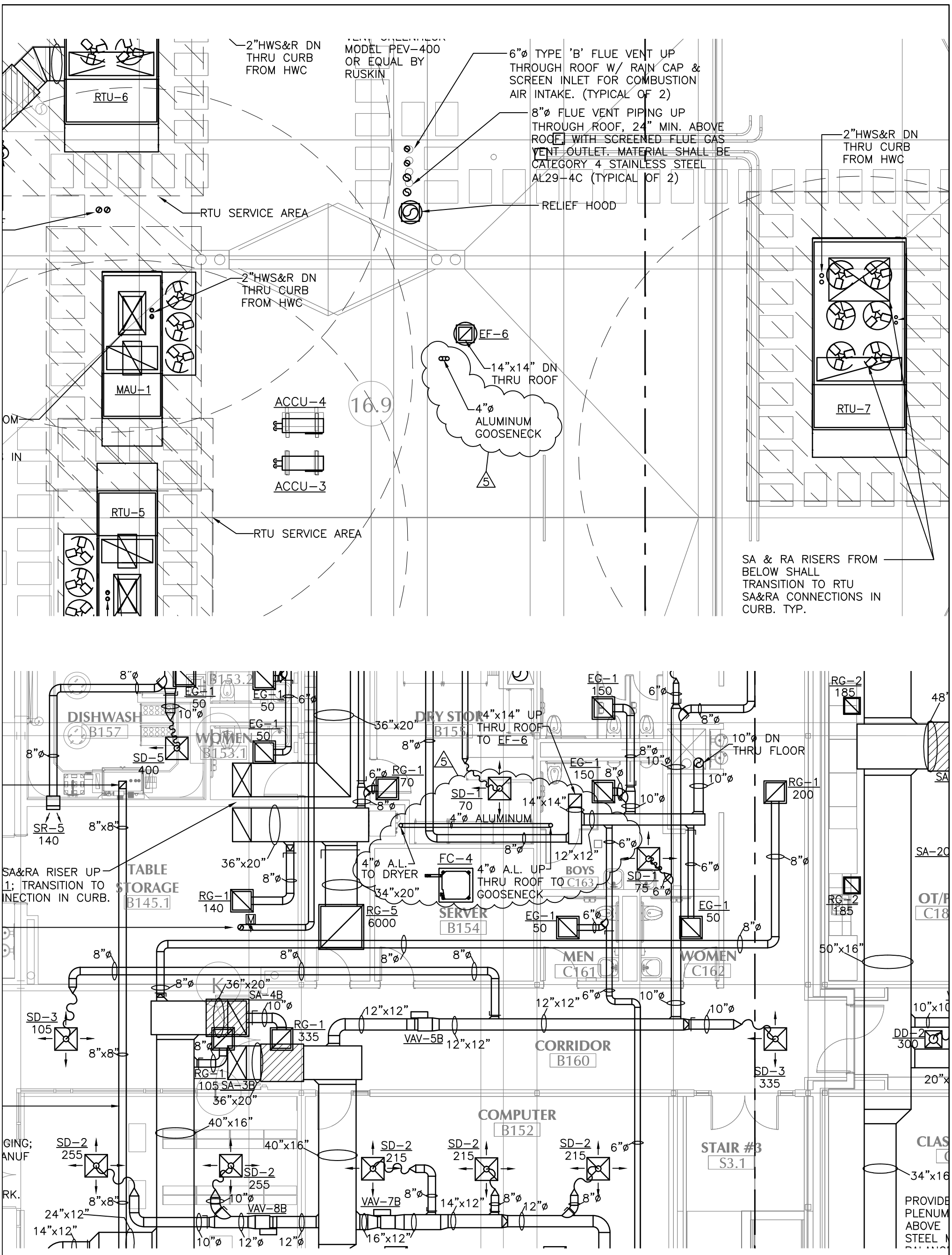


LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

CLIENT INFORMATION:
Worcester Public Schools
City of Worcester
Massachusetts, 01605

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

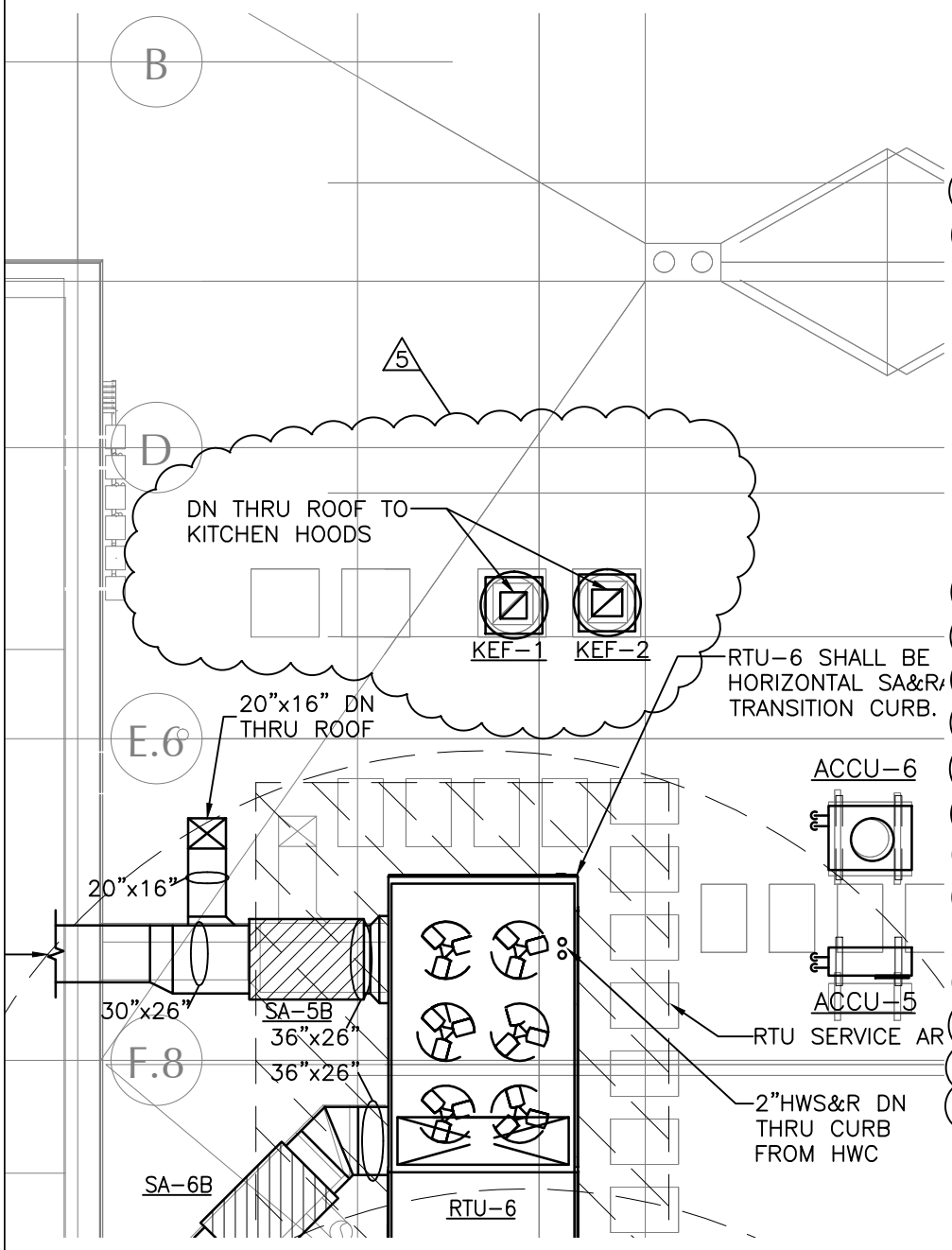
DRAWING NAME:
Main Level Partial HVAC Plan

SHEET REF. NO.
H3.3, H3.8

DATE:
02/02/16

SCALE:
1/8"=1'-0"

DRAWING NUMBER:
ADD-5
H-002



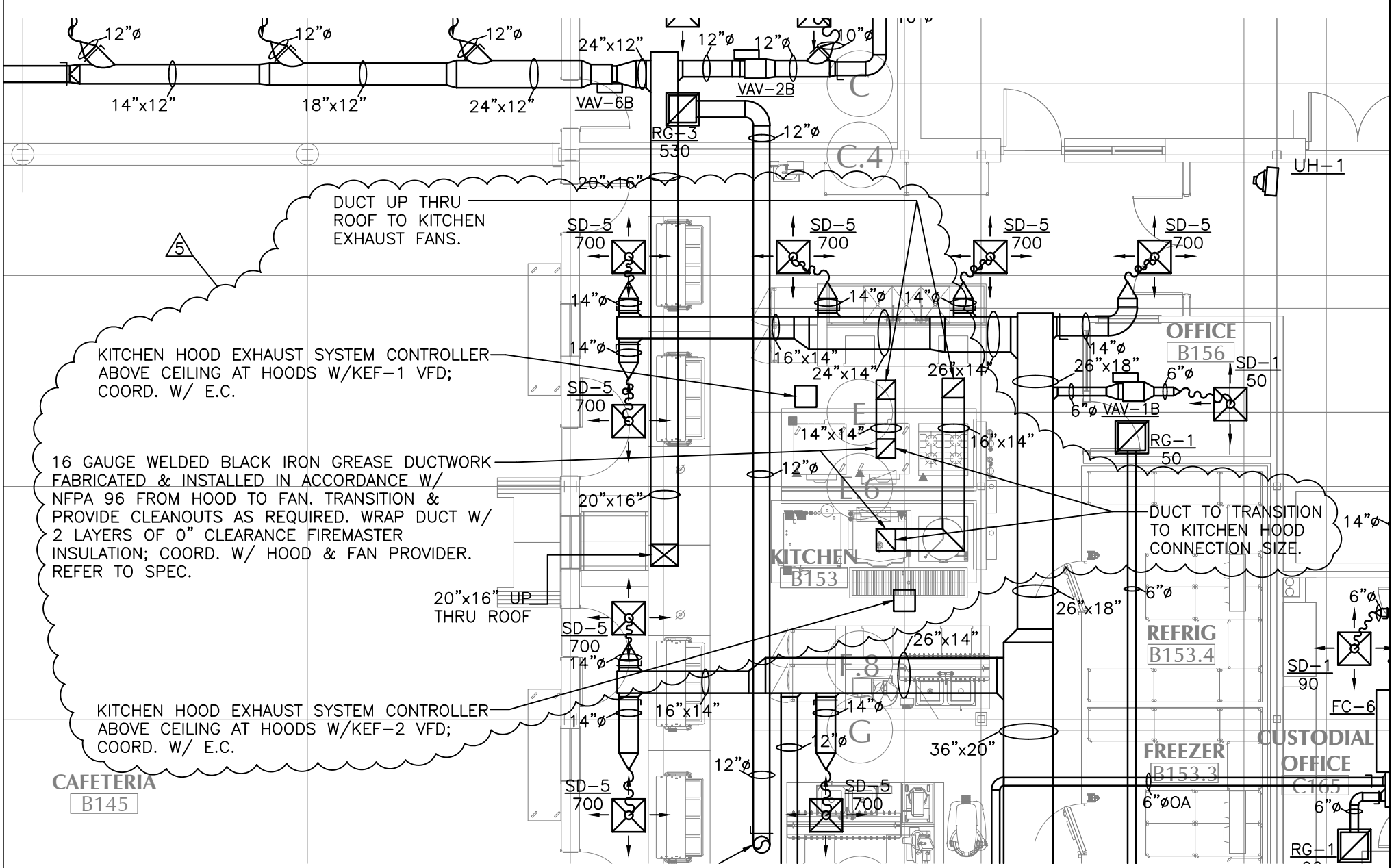
5

FAN SCHEDULE

	UNIT NUMBER		KEF-1	KEF-2
	SERVICE		SEE PLANS	SEE PLANS
	TYPE		KITCHEN EXH. FAN	KITCHEN EXH. FAN
FANS	MANUFACTURER		GREENHECK	GREENHECK
	MODEL #		CUBE-180-15	CUBE-180-15
	C.F.M.		2794	2644
	STATIC PRESS. (IN WG)		1.4"	1.6"
	FAN RPM		1244	1297
	FAN BHP		1.15	1.25
	HVI RATED FAN SONES		15.6	16.2
MOTOR & STARTER	MOTOR	TYPE	ODP	ODP
		H.P	1.5	1.5
		WATTS	–	–
		AMPS	–	–
		VOLTAGE/PHASE	460-3ø	460-3ø
	STARTER	TYPE	VFD	VFD
		NEMA SIZE	–	–
		CONTROL	HOOD CONTROLLER	HOOD CONTROLLER
		AUX. CONTACTS	–	–
			③	③

– APPROVED MANUFACTURERS ARE GREENHECK, TWIN CITY, COOK OR EQUAL, ECM(M) = ECM W/MOUNTED POTENTIOMETER DIAL; ECM = ECM WITH INTEGRAL TRANSFORMER FOR 0-10V EMS SIGNAL CONTROL

③ PROVIDE NFPA 96 VENTILATED HINGED ROOF CURB, PREMIUM EFFICIENT MOTOR. PROVIDE UL-762 LISTED, HEAT BAFFLE, CLEAN OUT PORT, AND GREASE TRAP WITH ABSORBANT AND DRAIN CONNECTION. INTERFACE FAN OPERATION WITH RESPECTIVE HOOD FAN SWITCH.



LAMOUREUX PAGANO ASSOCIATES. ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

CLIENT INFORMATION:
Worcester Public Schools
City of Worcester
Massachusetts, 01605

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place, Worcester, MA 01605

DRAWING NAME:
Kitchen Hood Exhaust System

SHEET REF. NO.
H3.3, H3.8, H7.1

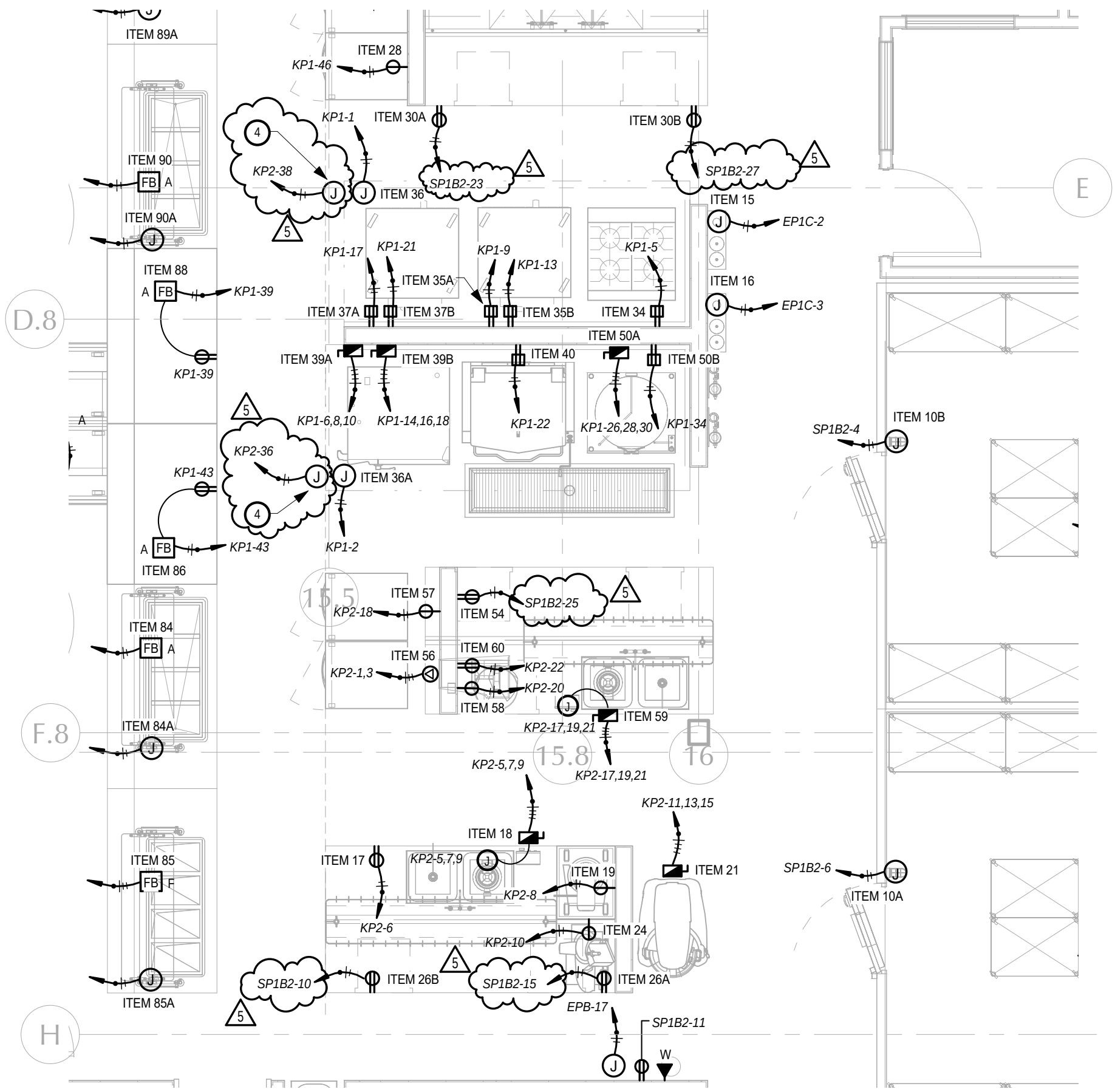
DATE:
02/02/16

SCALE:
1/8"=1'-0"

DRAWING NUMBER:
ADD-5
H-003

5 KEYED NOTES FOR E2.9

1. THE ELECTRICAL SUBCONTRACTOR SHALL VERIFY AND COORDINATE THE LOCATION/ INSTALLATION OF THE CONDENSING UNITS ON ROOF IN THE FIELD WITH THE GENERAL CONTRACTOR/ CONSTRUCTION MANAGER.
2. POWER FOR CO/GAS DETECTION PANEL.
3. DATA OUTLETS FOR P.O.S. (POINT OF SALE) SYSTEM. COORDINATE WITH GENERAL CONTRACTOR.
4. POWER FOR KITCHEN EXHAUST FAN CONTROLLER.



NOTES:

1. ADD POWER FOR KITCHEN EXHAUST FAN CONTROLLERS.
2. KEF-1 AND KEF-2 (LOCATED ON ROOF), SHALL BE WIRED VIA VFDs (480V-3PH) IN KITCHEN EXHAUST FAN CONTROLLER (KEFC) LOCATED BY THE EXHAUST HOOD IN THE KITCHEN, ABOVE CEILING. ELECTRICAL CONTRACTOR SHALL INSTALL THE VFDs IN THE KEFC, TOTAL OF TWO VFDs ARE REQUIRED, ONE FOR EACH KEFC. VFDs ARE TO BE FURNISHED BY OTHERS.
3. ITEMS 26A, 26B, 30A, 30B, AND 54 SHALL BE POWERED FROM PANEL SP1B2. PROVIDE GFCI CIRCUIT BREAKERS FOR THESE ITEMS.

LAMOUREUX PAGANO ASSOCIATES, ARCHITECTS
108 GROVE STREET, SUITE 300
WORCESTER, MASSACHUSETTS 01605
MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS

CLIENT INFORMATION:
Worcester Public Schools
City of Worcester
Massachusetts, 01605

PROJECT TITLE:
Nelson Place Elementary School
35 Nelson Place School, Worcester, MA 01605

DRAWING NAME: Electrical - Kitchen Plan	SHEET REF. NO. E2.9
DATE: 02/03/16	DRAWING NUMBER: ADD5
SCALE: 1/4" = 1'-0"	SKE-005
REFERENCE: ADD5	