ADDENDUM NO.: **01**

PROJECT NAME: **Byrne Elementary School Annex Project**

PROJECT NO.: **05015**

CONTRACT NO.: **C1576**

DATE OF ISSUE: **May 18, 2017**

NOTICE OF CHANGES, MODIFICATIONS, OR CLARIFICATIONS TO CONTRACT DOCUMENTS

The following changes, modifications, or clarifications are hereby incorporated and made an integral part of the Contract Documents. Unless clearly expressed otherwise by this Addendum, all terms and conditions defined in the original Contract Documents shall continue in full force and effect and shall have the same meaning in this Addendum.

ITEM NO. 1: **CHANGE TO KEY DATES**
None.

ITEM NO. 2: **REVISIONS TO BOOK 1 – PBC INSTRUCTIONS TO BIDDERS**
None.

ITEM NO. 3: **REVISIONS TO BOOK 2 – PBC STANDARD TERMS AND CONDITIONS**
None.

ITEM NO. 4: **REVISIONS TO BOOK 3 – TECHNICAL SPECIFICATIONS**

Change 1 **Book 3 – Volume 1** – Section 00 01 10 – TABLE OF CONTENTS to include section 09 05 61.13 MOISTURE VAPOR EMISSION CONTROL and remove 07 42 15 METAL COLUMN COVERS and 089100 LOUVERS.

Change 2 **Book 3 – Volume 1**– Section 06 61 16, 2.1 SOLID SURFACE MATERIALS to include a fourth manufacturer.

Change 3 **Book 3 – Volume 1**– Section 07 42 15 METAL COLUMN COVERS, **DELETE** section.

Change 4 **Book 3 – Volume 1**– Section 08 91 00 LOUVERS, **DELETE** section.

Change 5 **Book 3 – Volume 1**– Section 09 05 61.13 MOISTURE VAPOR EMISSION CONTROL, **ADD** section**.**

Change 6 **Book 3 – Volume 1**– Section 09 30 00, 2.1 TILING, **REVISE** to include 12"X 24" tile instead of 2"X2"**.**

Change 7 **Book 3 – Volume 1**– Section 09 65 20, 1.2, B RELATED SECTIONS, **REVISE** to include item #4 09 05 61.13 MOISTURE VAPOR EMISSION CONTROL.

Change 8 **Book 3 – Volume 1**– Section 11 40 00, 2.3, ITEM #12 EXHAUST HOOD (1 REQUIRED), **REVISE** to read:

Specifier I.D. #M125
Basis of Design Product: Halton Model EO
The hood shall be Type II. 129"L x 65"D x 24"H/ Duct collar shall be 13x12" providing 1926 CFM @ 0.33"SP. The kitchen hood shall be constructed from 18 gauge stainless steel. The kitchen hood shall be constructed from 18 gauge stainless steel with brushed satin finish. The kitchen hoods shall be supplied complete with outer casing / main body, inner liner, exhaust duct, incandescent lighting, grease filters, perimeter drain channel, collection cup, and assembly brackets. Each joint shall be welded and liquid tight. All exposed welds are ground and polished to the original finish of metal. Canopy ends shall be double sided wall construction (no single wall hoods permitted). Efficient exhaust is maintained by using

lateral side slots combined with the large internal volume. Furnish two (2) LED surface mount vapor-proof light fixture(s). The lighting shall be suitable for single-phase power supply and shall be UL listed LED type, suitable for stainless steel. Hood shall be hung so that bottom edge of hood is 80"AFF.

ITEM NO. 5: REVISIONS TO DRAWINGS

Change 1 G1.01 **ADD** general notes #35, 36, and 37.
Change 2 ADA.02 **REPLACE** sheet as previous sheet made reference to high school.
Change 3 DS1.0 **ADD** note to remove exist vehicular access gate & associated posts. Grind top 6" post piers & patch asphalt at piers.
Change 4 DS1.0 **ADD** note to remove existing paving at landscape areas at area of new trees west of playground and new turf field.
Change 5 DS1.0 **ADD** paving removal to drawing legend notes.
Change 6 DS1.0 **ADD** public walk, parkway, street curb, and street demo at removed water supply lines serving modular classrooms.
Change 7 AS1.0 **ADD** note to patch asphalt at bollard pier excavation overcut.
Change 8 AS1.0 **ADD** new public walk paving at removed water supply lines serving modular classrooms.
Change 9 AS1.1 **ADD** gate sizes to trash enclosure area.
Change 10 AS1.1 **ADD** chiller enclosure basis of design note.
Change 11 AS1.1 **REVISED** cantilevered gate height from 4'-0" high to 5'-2" (or match existing fence).
Change 12 AS1.2 **REVISED** gate dimension "G" to +/- 4'-5".
Change 13 A1.0 **ADD** sump pit in elevator pit.
Change 14 A2.1 **ADD** motorized projectors and projection screens in Library and Student Dining Rm.
Change 15 A3.0 **ADD** note for 4" horizontal cast stone bands at East Elevation between dining room window and door #8.
Change 16 A3.0 East elevation- **CHANGE** trash enclosure wall height from 9'-1 ½" to 8'-8" from t/conc. to btm./coping.
Change 17 A3.0 **INSERT** brick color #1 Illinois Brick CO. – Belden Brick (75% Madrid/25% 870-874) with vertical-cut texture matching existing brick and brick color #2 - Belden Brick #505 regular texture.
Change 18 A5.0 Detail 4 **REVISED** stone base to a one piece member.
Change 19 A5.4 Detail 1 **ADD** T/CMU elevation at south wall.
Change 20 A5.4 **ADD** T/CMU elevation 11'-4" at south wall of section 1.
Change 21 A6.0 Detail6 **REVISED** overflow scupper.
Change 22 A6.6 Detail 4 **REVISED** stone base to a one piece member.
Change 23 A6.6 Details 1, 2, 4, and 5 **REVISED** concrete wall thickness to 10".
Change 24 A6.8 Detail 2 **CHANGE** name to ENLARGED DETAIL-TYPICAL AT ALL STICK BUILT. DEFLECTION CURBS and add additional notes as shown on revised detail.
Change 25 A6.8 Detail 6 **ADD** note to paint tube steal (TS) beam with intumescent paint.
Change 26 A6.9 Detail 4 **REVISED** canopy fascia so that channel flanges face out.
Change 27 A6.9 Detail 4 **ADD** dimension from T/column concrete encasing to BTM/canopy.
Change 28 A6.10 Detail 4 **ADD** control joint at cove/suspended gyp ceiling interface.
Change 29 A6.10 Details 2 & 4 **ADD** detail call-out tags.
Change 30 A6.11 Detail 4 **REVISED** cast stone to one piece.
Change 31 A6.11 Detail 9 **ADD** cont. 3/8" slotted steel plate at top of concrete curb.
Change 32 A7.2 **ADD** note: ELEVATOR/SHAFT AND ASSOCIATED MACHINE ROOM BASIS OF DESIGN THYSSEN KRUP 3000# HYDROULIC ELEVATOR.
Change 33 A7.3 DETAIL 5 **CHANGE** VCT flooring reference to VT flooring.
Change 34 A8.0 **REVISED** equipment list to say OWNER PROVIDED AND INSTALLED.
Change 35 A8.1 Detail 1 **ADD** horizontal joints next to door and **REMOVE** vertical joint above door.
Change 36 A8.1 **REVISED** height of solid surface material at details 3 & 4.
Change 37 A8.2 **ADDED** ceiling mounted projector and projection screen.
Change 38 A8.2 **REVISED** equipment schedule.
Change 39 A8.2 **DELETED** one projection screen from detail 4.
Change 40 A8.3 **REVISED** equipment list.
Change 41 A8.4 Detail 4 **REVISED** casework call-outs to 4 & 5/A9.0.

Change 42 A8.4 **REVISED** equipment list.
Change 43 A8.5 Detail 4 **REVISED** casework call-outs to 4 & 5/A9.0.
Change 44 A8.5 **REVISED** equipment list.
Change 45 A8.6 Detail 14 **REVISED** detail title to also reference wall joint conditions.
Change 46 A8.6 Detail 2 **REVISED** ramp to include 60" landing at door and 60" intermediate landing. Removed 34" door size note.
Change 47 A8.7 **ADD** moisture resistant gypsum board at outer layer at infill wall at drinking fountain niche.
Change 48 A8.7 Detail 3 **REVISED** casework call-outs to 5/A8.7.
Change 49 A8.9 Equipment List **REVISED** paper towel and soap dispensers to be owner provided & installed by contractor.
Change 50 A8.9 **REMOVED** tack boards, marker boards, and projection screen from Room 107.
Change 51 A8.9 **REVISED** number of tack boards.
Change 52 A8.10 **REMOVED** tack boards, marker board, projector screen, and smart board infrastructure from Room 214.
Change 53 A9.0 Detail 4 **ADD** adult height dimension.
Change 54 A10.0 Details 7A & 11A **ADD** toilet partition pilasters.
Change 55 A10.0 **REVISED** ceiling height in boys and girls toilet rooms to 10'-11".
Change 56 A11.1 **REVISED** dimensions at window types W1, W2, W3, W4, W8, and W11.
Change 57 A11.1 **REVISED** dimensions at doors 8, 9A, 159A, & 159B.
Change 58 A11.1 **REVISED** window sill callouts at windows W4, W5, W6, W7, W8, W9, W9A and W10.
Change 59 A11.1 **ADD** window shade quantities at applicable windows.
Change 60 A12.0 **REMOVE** all reference to VCT from details.
Change 61 A12.0 **REVISED** drawing titles 5, 6, 11, 12 and **REVISED** details 4, 6, & 11.
Change 62 A12.2 **REVISED** floor finish in Room 220.
Change 63 A13.1 **REVISED** EQ-1 sign at Room 159 to EX-1.
Change 64 E1.0 **ADDED** note that Comed will replace existing 480V transformer.
Change 65 E1.1A **REVISED** motorized projector screen location and **ADDED** keyed switch in Library 120 and added keyed switch for motorized projector screen in Student Dining Rm 115.
Change 66 E1.1B In elevator equipment room in existing main building **ADDED** replacement of existing elevator fused disconnect switch. Near main entrance, **ADDED** trouble bell and clarified that existing annunciator panel is to be replaced with new panel covering existing building and new annex. **ADDED** existing City tie-in location.
Change 67 E2.1A **REVISED** lighting in Equipment Elevator 148, Toilet Rooms 117and 119 and Corridor 161 & 162.
Change 68 E2.2A, **REVISED** ceiling layout in the corridor as well as a few adjacent rooms.
Change 69 E3.1A **REVISED** disconnect size for Air Handling Unit #2.
Change 70 E5.4 Detail 7 **REVISED** to include trouble bell.
Change 71 E6.0 In elevator equipment room, in existing main building, **ADDED** replacement of existing elevator fused disconnect switch. Revised feeders to AHU-1 and AHU-2. **ADDED** note that Comed will replace existing 480V transformer.
Change 72 E8.0 **REVISED** panel schedule for DP-HVAC-1.
Change 73 E8.1 **REVISED** Motor/Equipment wiring Schedule for AHU-1, AHU-2, and CP-2.
Change 74 P1.0B **REVISED** note and drawing for location 4" check valve on existing water service. **ADDED** "Existing Water Service Entrance Diagram".
Change 75 P1.1A **REVISED** note and drawing for location 8" check valve on new water service for annex. **ADDED** Details 2/P1.1A & 3/P1.1A.
Change 76 M0.1B **REVISED** Plan 1/M0.1B - **DELETED** piping.
Change 77 M1.1B **REVISED** Plan 1/M1.1B - **ADDED** piping and **REVISED** notes.
Change 78 M3.1A **REVISED** AHU-1 & 2 enlarged pipe enclosures.
Change 79 M3.2 **REVISED** Plan 2/M3.2 -**ADDED** 10x10 duct.
Change 80 **REVISED** Plan 2/M3.2 -**ADDED** 10x10 duct
Change 81 M3.3 **REVISED** Plan 4.
Change 82 M3.3 **RELOCATED** 12x8 duct connection to existing riser & revised notes.
Change 83 M5.2 **REVISED** Detail 10/M5.2 - **REVISED** GPMs.
Change 84 M6.1 **REVISED** all details.

Change 85 M7.7 **REVISED** room names and numbers.

Change 86 M8.2 **REVISED** "Roof Mounted Air Handling Unit Schedule", "Dual Temp Heating/Cooling Coil Schedule", "Fan Schedule" and "Pump Schedule".

Change 87 M8.3 **REVISED** "Sound Attenuator Schedule".

Change 88 S2-1 **REVISED** plan to show new distance from typical column line to face of typical foundation wall of 1'-11 ½", originally 2'-0". Thickness of exterior foundation walls at stair towers reduced to 1'-7" from 1'-7 ½".

Change 89 S3-2 Details 1, 2, 3 - **REVISED** to show new distance from typical column line to face of typical foundation wall of 1'-11 ½".

Change 90 S3-2 Detail 6 - Thickness of exterior foundation walls at stair towers **REDUCED** to 1'-7" from 1'-7 ½".

Change 91 S3-2 Details 11, & 15 - **REVISED** to show new distance from typical column line to face of typical foundation wall of 1'-11 ½". Incorrect foundation wall thickness reference changed to match plans.

Change 92 **REVISED** sheet C-002 and **ADD** sheets C-016 and C-017.

ITEM NO. 6: REQUESTS FOR INFORMATION

RFI-1.

Question: Please reference ADA.02. The dimensions on the signs are noted for a high school. Are they the same dimensions given for a elementary school?

Response: Dimension heights apply to Elementary School. Please refer to Revised Drawing ADA.02 of this Addendum.

RFI-2.

Question: Library (Room 212) and Modular Units: please clarify if CPS will lock up or remove the school's specialty equipment, (televisions, computers, projectors, and phones). Also is CPS installing the Tech Equipment in the new Annex or is that Contractor responsibility?

Response: CPS will pack and move all specialty equipment in Room 212 and Modular Units. CPS will re-install all specialty equipment in the new Annex. Contractor to coordinate all activities with CPS to facilitate the Work. Contractor to provide CPS five (5) Working Days advance notice prior to commencement of work in Room 212 and Modular Units.

RFI-3.

Question: Please clarify if CPS will have vendors that come in to remove the library books.

Response: CPS will pack and move existing library books. CPS will set up books in new Annex library. Contractor to coordinate all activities with CPS to facilitate the Work. Contractor to provide CPS five (5) Working Days advance notice prior to commencement of work in Room 212 and Modular Units.

RFI-4.

Question: Will the playground need to be maintained during the summer? (Community Access during either Summer)

Response: Contractor to maintain access to the existing playground through Sunday, June 24, 2018 for use by school and the community. Effective Monday, June 25, 2018 through August 31, 2018, Contractor is to protect and secure existing playground to restrict access by school and the community.

RFI-5.

Question: I have a question regarding the Stairwell walls. They are shown on the structural and architectural drawings as being cast-in-place concrete. I just want to confirm that this is correct. The structural drawings show them as 10" thick cast-in place concrete and the reinforcement schedule on drawing S2-1 for 10" thick walls would have #4 bar in them. This seems light for walls that would extend 35'-39' high. Please confirm that this is correct.

Response: The stair walls are represented correctly.

RFI-6.

Question: Please advise if Concrete Stair Walls can be constructed in reinforced fully-grouted Concrete Masonry Unit (CMU).
The latter gives more flexibility to scheduling and adverse weather conditions.

Response: The stair walls will not be changed to solid-grouted CMU. Work to be executed in accordance with Contract Documents.

RFI-7.

Question: **Window Type W1 - is this window to receive one or two shades?**
Window Type W4 - is this window to receive four or eight shades?
Window Type W5 - is this window to receive four or eight shades?

Response: W1- one shade, W4- and W5- four shades. Please refer to Revised Drawing A11.1 of this Addendum for specific # of shades for ALL window types.

RFI-8.

Question: **Regarding the location of wall covering identified in the environmental scope sheets in the kitchen area (rooms 107/108), please verify location and confirm if they are present. None were noted or seen during walk.**

Response: There is a canvas covering on the lower walls in these rooms. The canvass covering is painted. Work, including abatement work, is to be executed in accordance with Contract Documents and relevant environmental scope sheets.

RFI-9.

Question: **On Sheet A12.1 room 148 is called out as an Equipment Elevator. However it appears to be just a closet. Do the finishes shown still apply to the room?**

Response: Correct. Furnish and install finishes in accordance with Drawing A12.1.

RFI-10.

Question: **On Sheet A12.2 room 220 has "RS" is specified as flooring, however no RS is called out on the finish schedule. Please advise.**

Response: RS is a typographic error; the flooring material should be VT1,2,3. Please refer to Revised Drawing A12.2 of this Addendum.

RFI-11.

Question: **Please reference A8.3 of the contract drawings. Per the equipment schedule and the enlarged typical classroom floor plan, there appears to be only (1) projection screen in a typical classroom. If you look at the following interior elevation detail 2 and 4, there appears to be (2) total. Please confirm there is only (1) projection screen in a "typical" classroom. There is also conflicting quantities with tack boards, there appears to be (4) in every room, but the schedule shows (2). Please clarify.**

Response: Quantities are as follows: (2) Marker boards (4) Tack boards (1) Projection screen each, per typical classroom. Please refer to Revised Drawing A8.3 of this Addendum.

RFI-12.

Question: **Please reference A8.0 and A8.3-A8.4. The paper towel dispensers and soap dispensers are GC provided and installed in the kitchen, but they are owner provided and GC installed in the music room and science room. Please confirm all paper towel dispensers and soap dispensers in the building are also owner provided/GC installed. There is wording conflicts in various other classrooms like in the Art Room. Does "provided by Aramark/Sodexo and Installed by GC" mean GC to provide and install or Owner provided and GC installed?**

Response: Please refer to Revised Drawings A8.0 (Food service areas) - all soap & paper towel dispensers shall be provided and installed by Owner. In all other spaces- soap, paper towel and toilet paper dispensers shall be provided by Owner and installed by the Contractor.

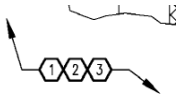
RFI-13.

Question: **Please reference A8.5. What is Key note 1 per the equipment list. The spec referenced does not clarify what exactly the key note is supposed to define. Also, there is no key note 1 denoted in the plan or elevation views, but a quantity of (1) is shown on the equipment list. Please clarify.**

Response: Keynote 1 is not used. Please refer to Revised Drawing A8.5 of this Addendum.

RFI-14.

Question: **Please reference A8.9 Detail 1. There is two (2) locations where Key Note (3) – "Provide 4'x4' Track Board" is referenced alongside Keynote (1) and (2) as a double arrow call out. What is the purpose of Key Note (3) in that call out? How many tack boards are to be provided? Please confirm it should read "tack", as well.**



Response: Track Boards are not required. Contractor shall furnish two (2) new tack boards in both Rooms 106 and 107. Please refer to Revised Drawing A8.9 of this Addendum.

RFI-15.

Question: **Please reference A8.9 detail 1, the equipment schedule, and the elevation views.**

a. **There is a conflict in quantities for the paper towel dispensers and soap dispensers, please revise.**
b. **The equipment list shows a projection screen, but the plan view and elevations don't call out a projection screen, but instead state the existing one is to remain. Please clarify if there is a new GC provided projection screen.**
c. **Please clarify what part of the drawings supersedes the other? Does the plan view trump the equipment list? Does the plan view trump the elevation views?**
d. **Please clarify where tack board number (6) is on the contract drawings. I only count (5) total in art room106 and 107.**
e. **Please clarify where room 332 is referenced on drawings 8 and 9.**

Response: Please refer to Revised Drawing A8.9 of this Addendum.

a. Floor plan revised in this Addendum to show (1) paper towel dispenser and (1) soap dispenser
b & c. A new projection screen is to be provided in Room 106. Room 107 will not receive a new projector screen as one currently exists in the space.
d. Rooms 106 and 107 will each receive (2) new tack boards.
e. Room 332 does not exist; it was a typographic error.

RFI-16.

Question: **Please reference A13.1. What is the EQ-1 sign referenced near Vestibule 159?**

Response: EQ-1 is a typographic error. It should read EX-1. Please refer to Revised Drawing A13.1 of this Addendum.

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List of Attachments and Drawings:
(Available at Cushing and Co.'s Online Planroom: **http://dfs.cushingco.com/pbc.htm**)

This Addendum includes the following attached Specifications:

1. Section 00 01 10 TABLE OF CONTENTS
2. Section 06 61 16 SOLID SURFACING MATERIALS
3. Section 09 05 61.13 MOISTURE VAPOR EMMISSION CONTROL
4. Section 09 30 00 TILING
5. Section 09 65 20 SOLID VINYL FLOORING
6. Section 11 40 00 FOOD SERVICE EQUIPMENT

This Addendum includes the following attached Architectural Drawings:

1. G1.01, ADA.02 General notes and index of drawings
2. DS1.0 Site Demolition plan
3. AS1.0 Architectural Site Plan
4. AS1.1 Enlarged Architectural Site plan
5. AS1.2 Site Plan Details
6. A1.0 Slab floor plan
7. A2.1 First floor reflected ceiling plan
8. A3.0 Exterior elevations
9. A5.0 Wall Sections
10. A5.4 Wall sections
11. A6.0 Roof Details
12. A6.6 Details
13. A6.8 Details
14. A6.9 Details
15. A6.10 Details
16. A6.11 Details
17. A7.2 Elevator plans and details
18. A7.3 Stair sections and details
19. A8.0 Enlarged Kitchen Plan
20. A8.1 Kitchen Elevations
21. A8.2 Enlarged library plan and elevations
22. A8.3 Typical classroom and lobby plan and elevations
23. A8.4 Enlarged music room plan and elevations
24. A8.5 Enlarged science classroom plan and elevations
25. A8.6 Enlarged fire vestibule plans
26. A8.7 Enlarged office plan and details.
27. A8.9 Enlarged science classroom plan and elevations
28. A8.10 Enlarged classroom plan
29. A9.0 Interior Details
30. A10.0 Enlarged toilet room plans
31. A11.1 Opening Schedule
32. A12.0 Finish schedule and details
33. A12.2 Second floor finish plan
34. A13.1 First floor signage plan

This Addendum includes the following attached Electrical Drawings:

1. E1.0 Electrical site plan
2. E1.1A Annex first floor electrical plan
3. E1.1B Existing building first floor plan
4. E2.1A Annex first floor RCP.
5. E2.2A Annex second floor RCP
6. E3.1A Roof electrical plan
7. E5.4 Electrical details

8. E6.0 Electrical riser diagram
9. E8.0 Electrical Schedules
10. E8.1 Electrical Schedules

This Addendum includes the following attached Plumbing Drawings:

1. P1.0B Existing building lower level plumbing plan
2. P1.1A Annex first floor plumbing plan

This Addendum includes the following attached Mechanical Drawings:

1. M0.1B Existing building mechanical lower level plan
2. M1.1B Existing building mechanical first floor plan
3. M3.1A Annex mechanical roof plan
4. M3.2 Annex mechanical enlarged plans
5. M3.3 Annex mechanical enlarged plans
6. M5.2 Mechanical details
7. M6.1 Air systems riser diagrams
8. M7.7 BAS diagrams
9. M8.2 Mechanical Schedules
10. M8.3 Mechanical Schedules

This Addendum includes the following attached Structural Drawings:

1. S2-1 Foundation plan
2. S3-2 Second floor framing plan

This Addendum includes the following attached Civil Engineering Drawings:

1. C-002 Site demolition plan
2. C-016 Civil details
3. C-017 Civil Details

END OF ADDENDUM NO. 01

SECTION 00 01 10

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BOOK 3 – TECHNICAL SPECIFICATIONS

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SPECIFICATIONS GROUP

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01 52 40	Construction Waste Management and Disposal	PBC 03_09/22/14
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01 56 39	Temporary Tree and Plant Protection	Landscape Arch Add
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02 41 16	Building Demolition	02_01/21/08
02 41 16.1	Site Demolition	Civil Consult Add
02 41 19	Selective Demolition	02_01/21/08
02 87 13	Animal Excrement and Carcass Abatement	01_01/21/10

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REFERENCE REPORTS

Phase 1 Environmental Site Assessment – Dated December 7, 2016

Phase 2 Environmental Site Assessment – Dated January 10, 2017

BRYNE ELEMENTARY GEOTECHINCAL REPORT

BRYNE ELEMENTARY GROUND PENETRATING RADAR SURVEY REPORT

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SECTION 06 61 16

SOLID SURFACE MATERIALS

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes: Solid surfacing material employed as sill material where shown on drawings.
B. Related Sections:

1. Section 01 35 60.1 – LEED Requirements
2. Section 07 92 00 – Joint Sealants

1.2 SUBMITTALS

A. Product Data:

1. Submit manufacturer's specifications and installation instructions for solid surface material as specified.
2. Submit product data for manufacturer's recommended panel adhesive.
3. Submit product data for fasteners (screws and washers).

B. Shop Drawings: Show locations of all panel joints; exposed fastener patterns; and any other cutouts required for installation. Note panel edge conditions in drawings.

C. Samples:

1. Solid Surface:

a. Submit samples for color selection by Architect.
b. Submit minimum 6”x6” material sample in color and finish as selected by Architect. Material sample is to have one edge routed for specified lap joint and two countersunk holes for specified recessed fastener installation. These are to demonstrate the quality of the shop fabrication process. See “Fabrication” subsection of the section for more details.

2. Fasteners: Submit samples of screws and washers.

D. Maintenance Instructions: Submit manufacturer's maintenance and cleaning instructions for solid surface materials.

1.3 LEED Submittals:

A. Credit Complete the "Low Emitting Materials Documentation Sheet" attached to “LEED Requirements” Section 01 35 60.1 for products in this section.

B. Credit EQp3 Requirements: Provide Submit product data indicating the materials have a Noise Reduction Coefficient (NRC) of 0.70 or higher. Also denote the STC rating of these materials, as applicable.

C. Credit EQ 4: Submit certification stating that all adhesives meet the testing and product requirements of the California Department of Health Services' *Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers,* including 2004 Addenda.

1.4 QUALITY ASSURANCE

A. Qualifications:

1. Shop that employs skilled workers who custom fabricate products similar to those required for this project and whose products have a record of successful in-service performance.

B. Fabricator / Installer Qualifications:

1. Work of this section shall be by a certified fabricator/installer, certified in writing by the manufacturer.

C. Applicable Standards:

1. Fire test response characteristics:

a. Provide with the following Class A (Class I) surface burning characteristics as determined by testing identical products per UL 723 (ASTM E84) or another testing and inspecting agency acceptable to authorities having jurisdiction:
1) Flame Spread Index: 25 or less.
2) Smoke Developed Index: 450 or less.

1.5 PRODUCT HANDLING

A. Deliver no components to project site until areas are ready for installation.

B. Store components indoors prior to installation.

C. Handle materials to prevent damage to finished surfaces.

1. Provide protective coverings to prevent physical damage or staining following installation for duration of project.

1.6 PROJECT CONDITIONS

A. Inspection: Inspect the framing system and substrates and report conditions detrimental to a successful installation to the Contractor. Start of work will evidence acceptance.

B. Environmental Conditions:
1. Do not begin Work until the space is enclosed, ventilated and maintained between the temperatures of 55 F and 90 F degrees.
2. Do not install materials until surface temperatures are between 60 F and 80 degrees F.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Subject to compliance with project requirements and specifications, provide products by one of the following:

1. DuPont; Corian
2. Aristech Acrylics; Avonite
3. Wilsonart; Wilsonite Solid Surface
4. Samsung; Staron

2.2 MATERIALS

A. Solid polymer components

1. Cast, nonporous, filled polymer, not coated, laminated or of composite construction with through body colors meeting ANSI Z124.3 or ANSI Z124.6, having minimum physical and performance properties specified.
2. Superficial damage to a depth of 0.010" (25mm) shall be repairable by sanding and/or polishing.
3. Thickness: 1/2" or as shown on drawings.
4. Surface Finish: Matte
5. Color: As selected by Architect from manufacturer's full range of color and finish options.
6. Edge Treatment: Routed for lap joint, beveled or square edge; as shown in construction drawings.

B. Accessories

1. Fasteners: Type 304 or 316 stainless steel tamper-resistant self-tapping screws, of appropriate length to fasten solid surface panels to substrate and metal framing. Provide clear neoprene washers with screws.
2. Panel adhesive: Manufacturer’s standard neoprene-based panel adhesive complying with ANSI A136.1-1967.
3. Sealant: Type SCS, as specified in Section 07 92 00 "Joint Sealants". Color to be as selected by architect from manufacturer's full range of colors.

    a. Provide adhesives installed in the building interior (defined as inside of the weatherproofing system and applied on-site) that meet the testing and product requirements of the *California Department of Health Services' Standard Practice for the Testing of Volatile Organic emissions from Various Sources Using Small- Scale Environmental Chambers*, including 2004 Addenda.

2.3 FABRICATION

A. Shop Assembly

1. Fabricate components to greatest extent practical to sizes and shapes indicated, in accordance with approved shop drawings and manufacturer's printed instructions and technical bulletins.
2. Provide solid surface panels in sizes as indicated in Construction Drawings.
3. Fabricate in longest lengths possible, where seams are required obtain approval from architect for proposed locations, seal all gaps.
4. Accommodate spacing from adjacent materials to accommodate thermal expansion and contraction. Gaps shall be sealed with backer rod and sealant complying with 07 92 00 Joint Sealants.
5. Rout and finish component edges with clean, sharp returns.
   a. Create bevel/chamfer at exposed edges of panels.
6. Repair or reject defective and inaccurate work.
   a. Create bevel/chamfer at top and bottom edges of panels.
   b. Rabbet sides of panels for lap jointing with adjacent panels. Completed lap joints shall have 3/16" reveal gap to allow for thermal expansion and movement.
   c. Repair or reject defective and inaccurate work.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with fabricator present for compliance with requirements for installation tolerances, and other conditions affecting performance of work.

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

3.2 INSTALLATION

A. Install panels per manufacturer's recommendation using cladding adhesive for bonding sheets to walls. 100% silicone sealant suggested.

B. Install concealed bead of silicone sealant in rabbet facing wall substrate on edge of panel.

C. Install components plumb, level and rigid, scribed to adjacent finishes, in accordance with approved shop drawings and product data.

D. Install clear silicone sealant at top and bottom edges of panels, in each lap joint reveal between panels, at exposed joints between solid surface panels and other finished wall construction and at all edges of penetrating items.

3.3 CLEANING AND PROTECTION

A. Remove surface scratches and clean entire surface per manufacturer's recommended maintenance instructions. Protect finished installations from damage, scratching or staining.

END OF SECTION

SECTION 09 05 61.13

MOISTURE VAPOR EMISSION CONTROL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes

1. Fluid-applied, resin-based, membrane-forming systems that control the moisture-vaporemission rate of high-moisture, interior concrete to prepare it for floor covering installation.
2. Bond promoting primer for non-absorbent substrate to receive cementitious underlayment.
3. Self-leveling floor underlayment
4. High-performance, fiber-reinforced skimcoating compound B. Related Requirements:

1. 03 30 00 Cast-In-Place Concrete
2. 09 65 19 Resilient Tile Flooring
3. 09 65 20 Solid Vinyl Flooring

1.3 DEFINITIONS

A. MVE: Moisture vapor emission.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. LEED Submittals:

1. Complete the “Materials Credits Documentation Sheet” and the “Low Emitting Materials Documentation Sheet” attached to Section 01 35 60.1 for products in this section.
2. Credit IEQ 4: Submit certification stating that all paints and coatings installed in the building interior (defined as inside of the weatherproofing system and applied on-site) meet the testing and product requirements of the California Department of Public Health

Services' *Standard Practice for The Testing of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers*, including 2004 Addenda.

1.5 INFORMATIONAL SUBMITTALS

A. Product Test Reports: For each MVE-control system, for tests performed by a qualified testing agency.

B. Preinstallation testing reports.

C. Field quality-control reports.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Employs factory-trained personnel who are available for consultation and Project-site inspection.

B. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating directions for storage and mixing with other components.

1.8 FIELD CONDITIONS

A. Environmental Limitations: Comply with MVE-control system manufacturer's written instructions for substrate and ambient temperatures, humidity, ventilation, and other conditions affecting system installation.

1. Store system components in a temperature-controlled environment and protected from weather and at ambient temperature of not less than 65 deg F (18 deg C) and not more than 85 deg F (29.4 deg C) at least 48 hours before use.
2. Maintain ambient temperature and relative humidity in installation areas within range recommended in writing by MVE-control system manufacturer, but not less than 65 deg F (18 deg C) or more than 85 deg F (29.4 deg C) and not less than 40 or more than 60 percent relative humidity, for 48 hours before installation, during installation, and for 48 hours after installation unless longer period is recommended in writing by manufacturer.
3. Install MVE-control systems where concrete surface temperatures will remain a minimum of 5 deg F (3 deg C) higher than the dew point for ambient temperature and relative humidity conditions in installation areas for 48 hours before installation, during installation, and for 48 hours after installation unless longer period is recommended in writing by manufacturer.

B. Manufacturer's Special Material Warranty: Manufacturer agrees to repair or replace MVE Control System that fails in materials within specified warranty period.

1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Flooring products shall comply with the requirements of the California Department of Public Health Services' *Standard Practice for The Testing of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers*, including 2004 Addenda.

B. MVE-Control System Capabilities: Capable of suppressing MVE without failure where installed on concrete that exhibits the following conditions:

1. Relative Humidity: Maximum 100 percent when tested according to ASTM F 2170 using in situ probes.

C. Water-Vapor Transmission: Through MVE-control system, maximum 0.10 perm (5.75 ng/s•sq. m•Pa) when tested according to ASTM E 96/E 96M.

2.2 MVE-CONTROL SYSTEM

A. MVE-Control System: ASTM F 3010-qualified, fluid-applied, two-component, 100 percent solids epoxy-resin, membrane-forming system; formulated for application on concrete substrates to reduce MVER to level required for installation of floor coverings indicated and acceptable to manufacturers of floor covering products indicated, including adhesives.

1. MAPEI; Planiseal VS
2. UZIN, a Division of UFLOOR Systems, Inc.; PE 460

2.3 ACCESSORIES

A. Crack-Filling Material:

1. Resin-based material recommended in writing by MVE-control system manufacturer for sealing concrete substrate crack repair.
2. For use at static non-moving joints. B. Crack-Filling Material:

1. Self-leveling elastomeric polyurethane sealant recommended in writing by MVE-control system manufacturer for sealing moving expansion joints.

2. For use at dynamic movement joints. C. Bond Promoting

Primer:

1. MAPEI; Primer T
2. UZIN, a Division of UFLOOR Systems, Inc.; PE 280 D.

Cementitious Self-Leveling Underlayment:

1. MAPEI; Ultraplan Easy

2. UZIN, a Division of UFLOOR Systems, Inc.; NC 150

3. If leveling is not needed, provide cement-based high-performance, fiber-reinforced skim-coating compound recommended in writing by MVE-control system manufacturer.

4.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for maximum moisture content, installation tolerances, and other conditions affecting performance of the Work.

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

1. Installation of system indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Preinstallation Testing:

1. Alkalinity Testing: Perform pH testing according to ASTM F 710. Install MVE-control system in areas where pH readings exceed the flooring manufacturer’s recommendations.

2. Moisture Testing: Perform tests so that each test area does not exceed 1000 sq. ft. (304.8 sq. m), and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.

a. Anhydrous Calcium Chloride Test: ASTM F 1869. Install MVE-control system in locations where concrete substrate MVER exceeds 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.

b. Internal Relative Humidity Test: Using in situ probes, ASTM F 2170. Install MVE-control system in locations where concrete substrates exhibit relative humidity level greater than the flooring manufacturer's recommendations.

3. Tensile-Bond-Strength Testing: For typical locations indicated to receive installation of MVE-control system, install minimum 100-sq. ft. (9.29-sq. m) area of MVE-control system to prepared concrete substrate and test according to ASTM D 7234.

a. Proceed with installation only where tensile bond strength is greater than 200 psi (1.38 MPa) with failure in the concrete.

B. Concrete Substrates: Prepare and clean substrates according to MVE-control system manufacturer's written instructions to ensure adhesion of system to concrete.

1. Remove coatings and other substances that are incompatible with MVE-control system and that contain soap, wax, oil, or silicone, using mechanical methods recommended in writing by MVE-control system manufacturer. Do not use solvents.
2. Provide concrete surface profile complying with ICRI 310.2R CSP2 or CSP 3 as recommended in writing by MVE-control system manufacturer.
3. Repair damaged and deteriorated concrete in accordance with the concrete surface repairs requirements of 03 30 00 Cast-In-Place Concrete.
4. Protect substrate voids and joints to prevent resins from flowing into or leaking through them.
5. Fill surface depressions and irregularities with patching and leveling material.
6. Fill surface cracks, grooves, control joints, and other nonmoving joints with crack-filling material.
7. Do not skim coat entire concrete slab prior to application of MVE-control system.
8. Allow concrete to dry, undisturbed, for period recommended in writing by MVE-control system manufacturer after surface preparation, but not less than 24 hours.
9. Before installing MVE-control systems, broom sweep and vacuum prepared concrete.

C. Joint Preparation:
1. Do not apply MVE-control system across substrate expansion, isolation, and other moving joints.
2. Pre-filling static thin random drying shrinkage cracks (less than 0.01 inch (0.25 mm) width and not vertically displaced) is not required.
3. Fill static cracks (narrower than 1/8 inch (3 mm) and not vertically displaced) with MVE resin-based crack-filling material. 4. Fill static cracks

D. Protect walls, floor openings, electrical openings, door frames, and other obstructions during installation.

3.3 INSTALLATION

A. General: Install MVE-control system according to manufacturer's written instructions to produce a uniform, monolithic surface.

B. General: Install MVE-control system according to ASTM F 3010 and manufacturer's written instructions to produce a uniform, monolithic surface free of surface deficiencies such as pin holes, fish eyes, and voids.

C. Apply system in thickness recommended in writing by MVE-control system manufacturer for MVER indicated by preinstallation testing.

D. Cure MVE-control system according to manufacturer's written instructions. Prevent contamination or other damage during installation and curing processes.

E. After curing, examine MVE-control system for surface deficiencies. Repair surface deficiencies according to manufacturer's written instructions.

F. Apply bond promoting primer to epoxy MVE control system and allow primer to dry completely.

G. Install cementitious underlayment or skimcoating compound according to manufacturer’s written instructions.

3.4 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform installation inspections.

B. Installation Inspections: Inspect substrate preparation and installation of system components to ensure compliance with manufacturer's written instructions and to ensure that a complete MVEcontrol system is installed without deficiencies.

1. Verify that surface preparation meets requirements.
2. Verify that component coats and complete MVE-control-system film thicknesses comply with manufacturer's written instructions.
3. Verify that MVE-control-system components and installation areas that evidence deficiencies are repaired according to manufacturer's written instructions.

3.5 PROTECTION

A. Protect MVE-control system from damage, wear, dirt, dust, and other contaminants before floor covering installation. Use protective methods and materials, including temporary coverings, recommended in writing by MVE-control system manufacturer.

B. Do not allow subsequent preinstallation examination and testing for floor covering installation to damage, puncture, or otherwise compromise the MVE-control system membrane.

END OF SECTION

SECTION 09 30 00

TILING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes tile as indicated on new surfaces and as specified.

1.2 SUBMITTALS

A. Samples:

1. Submit samples of colors and sizes of tile.

B. Product Data:

1. Submit printed data and installation instructions for proprietary setting beds, grouts, and cleaning materials.
2. Submit color charts for grouts.

C. LEED Submittals:

1. Credit MR 4: Submit product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include statement indicating costs for each product having recycled content.
2. Credit 4.1 Adhesives & Sealants: Submit Certification demonstrating that all adhesives and sealants installed in the building interior (defined as inside of the weatherproofing system and applied on-site) shall meet the testing and product requirements of the California Department of Health Services *Standard Practice for the Testing Of Volatile Organic Emissions From Various Sources using Small-Scale Environmental Chambers*, including 2004 Addenda.
3. Credit EQ 4.3: Submit evidence that all flooring elements installed in the building interior meets the testing and product requirements of the California Department Of Health Services *Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers*, including 2004 Addenda.

    a. For hard surface flooring, include documentation denoting compliance with FloorScore Standard.

4. Credit 4.6 Wall Finish Systems: Submit Certification demonstrating that all finish wall materials installed in the building interior shall meet the testing and product requirements of the California Department of Health Services *Standard Practice for the Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers,* including 2004 Addenda.

1.3 QUALITY ASSURANCE

A. Qualifications:

1. Installer: A party experienced in the installation of tile as evidenced by successful installation for a minimum period of five (5) years.

B. Pre-installation Conference: Conduct preconstruction conference at the project site in compliance with requirements of Division 01 Section "Project Management and Coordination.

1. Inspect and discuss condition of substrate and other preparatory work performed by other trades.
2. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
3. Review special designs and patterns.
4. Review dust-control procedures and required environmental conditions.

1.4 DELIVERY, STORAGE AND HANDLING

A. Deliver and store materials on the site in a dry location, in original containers, with seals unbroken and labels intact, in accordance with the manufacturer's directions until time of use.

1.5 PROJECT CONDITIONS

A. Provide all flooring elements installed in the building interior that meet the testing and product requirements of the California Department of Health Services *Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers*, including 2004 Addenda.

B. Existing Conditions: Inspect substrate and conditions under which work is to be installed and report any condition detrimental to the successful or timely installation to the Contractor. Start of Work will evidence acceptance of conditions.

C. Environmental Conditions:

1. Do not begin Work until the space is enclosed, ventilated and maintained between the temperatures of 55 deg F and 90 deg F
2. Do not install materials until surface temperatures are between 60 deg F and 80 deg F.

D. Protection:

1. Close all areas to traffic during installation of floor.
2. Cover floor with Kraft paper after completion of Work and maintain paper in position.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Unglazed Vitreous Ceramic Tile: Comply with the requirements of ANSI A137.1, 12" x 24" x 1/4".

1. Manufactured by one of the following:

a. American Olean.
b. Dal Tile.

2. Trim: Provide all trim shapes, bull-nose, cove, and corners of matching sizes.

B. Quarry Tile: Unglazed quarry tile complying with TCNA A137.1, 6" x 6" x 1/2", square edge, colors selected by Architect.

1. Manufactured by one of the following:

a. American Olean.
b. Metropolitan.
c. Summitville.
d. Dal Tile.

C. Setting Materials

1. Liquid Latex: Conform to ANSI A118.4, product of same manufacturer as grout.
2. Waterproof/Antifracture Membrane: A proprietary waterproofing membrane system conforming to ANSI 118.10

a. Sheet membrane manufactured by one of the following:

1) Dal Tile; Dal-Seal TS.
2) Noble; Noble-Seal TS.
3) Markrete; Hydro Guard 2000.

b. Trowel applied membrane manufactured by one of the following:

1) Bostik; Hydroment Blacktop 90210.
2) Custom Building Products; Rde Top.
3) Laticrete; Laticrete 9235.
4) Mapei; PEP 315.

3. Latex Dry-Set Mortar: A proprietary factory premix consisting of sand, Portland cement and latex additives conforming to ANSI 118.4.

a. Manufactured by one of the following:

1) Bostik; Hydroment Single Step.
2) Custom Building Products; Custom Multi-Purpose Thin-Set Mortar.
3) H.B. Fuller; Full Flex.
4) Laticrete; 4237.
5) Mapei; Ultra/Flex.
6) Summitville; S-1000.

4. Mortar with Liquid Latex Additive: A proprietary factory premix consisting of sand, Portland cements and mixed with a liquid latex additive conforming to ANSI 118.4. Manufactured by one of the following:

a. Bostik; Hydroment Tile Mate 760 with Hydroment 497.
b. Custom Building Products; Master Blend with Acrylic Mortar Admix.
c. TEC; Tec Thin Set with xtra flex additive.
d. Laticrete; Dry Bond with Laticrete 272.

e. Mapei; Kerabond with Keralastic

5. Organic Adhesive: A proprietary factory formulated adhesive, recommended by the manufacturer for the specific installation, conforming to ANSI A136.1. Manufactured by one of the following:

a. Bostik; Ultra Premium.
b. Dal Tile; DS-50
c. Dap; Dap 67.
d. Custom Building Products; Omni Grip.
e. TEC; Double Duty Pluss.
f. Mapei; ECO type 1.
g. Provide products that meet the testing and product requirements of the California Department of Health Services *Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers*, including 2004 Addenda.

D. Grout Materials

1. Commercial Premix Grout: A packaged mixture of Portland Cement, sand and additives to which water is added in the field (sanded for 1/4" and larger joints) conforming to ANSI A118.6. Manufactured by one of the following:

a. Bostik; Hydroment Plus.
b. Custom Building Products; Polyblend Sanded.
c. H. B. Fuller; Accucolor sanded.
d. Laticrete; Tri-Poly Fortified.
e. Mapei; Ultracolor.

E. Miscellaneous Materials:

1. Transition Systems as indicated on the drawings.
2. Portland Cement: ASTM C 150, Type I only, not air-entrained.
3. Sand: ASTM C 144, except 100% passing #30 sieve.
4. Wire Mesh: 2" x 2", 16-gauge galvanized welded wire fabric.
5. Cleavage Membrane: 4-mil polyethylene or 15 lb. building felt.
6. Compressible Filler: ASTM A 1752, sponge rubber.
7. Water: Potable.

2.2 MIXES

A. Portland Cement Mortar – Mud – For Floors: A job mixture of Portland cement and sand (5-6 parts sand, 1 part Portland cement) and water.

B. Latex Modified Dry-Set Mortar: Follow manufacturer's directions for mixing latex modified dry-set mortar.

C. Mortar with Liquid Latex Additive: Follow manufacturer's directions for mixing liquid latex and thin set mortar.

D. Latex Modified Premix Grout: Commercial premix grout to which liquid latex is added in lieu of water as recommended by grout manufacturer or factory pre-mixed latex ingredient.

PART 3 - EXECUTION

3.1 PREPARATION

A. Broom clean floors. Remove contaminants.

B. Sand substrate to receive new tile to ensure bond. Level and reshape with latex dry set mortar.

C. Dampen concrete and masonry for dry-set applications, leaving no standing water.

3.2 INSTALLATION, GENERAL

A. ANSI tile installation standards; Comply with parts of ANSI A108 Series "Specifications for the Installation of Ceramic Tile" that apply to the type of setting and grouting materials and to methods required.

B. TCNA Installation Guidelines: Comply with TCNA's "Handbook for Ceramic Tile Installation" for the installation methods required.

3.3 INSTALLATION OF WALLS

A. Organic Adhesive Application (use on gypsum board):

1. Apply using size of notched trowel recommended by adhesive manufacturer.
2. Apply tile and beat in, maintaining uniform joints.

3.4 GROUTING OF WALLS

A. Use the following grout materials:

1. Unglazed Vitreous Ceramic Tile: Latex modified commercial premix grout.

B. Mix ingredients as hereinbefore specified. Do not add other ingredients or excessive water.

C. Completely fill joints.

D. Remove excess grout leaving joint to depth of cushion.

E. Damp cure dry set grout 2 hours, minimum.

3.5 INSTALLATION OF FLOORS

A. Latex Modified Dry-Set Mortar Application:

1. Waterproofing/Antifracture Membrane:

a. Trowel Applied Membrane: Mix ingredients in accordance with manufacturer's directions.

b. Apply in exact accordance with manufacturer's instructions.
c. Install sheet membranes in mortar recommended by membrane manufacturer.

2. Mixing Mortar:

a. Mix mortar ingredients thoroughly before adding water as required. Carefully work in sufficient water as required to obtain desired consistency.
b. Use caution in mixing to get complete wetting and homogeneity.
c. Rework mixes from time to time to maintain proper consistency, but do not add additional ingredients. Discard mortar that has reached its initial set.

3. Install Transition systems at each change of floor material.
4. Applying Mortar:

a. Using the flat side of the trowel, apply with pressure, a layer of mortar to form a thickness of at least 1/8 inch. Cover surface evenly with no bare spots. Do not apply mortar more than 30 minutes before it can be covered with tile.
b. Immediately before placing tile, comb the mortar diagonally to the direction of the grout lines with the notched trowel.

5. Setting Tile:

a. Place tile on the freshly notched mortar and beat into a true level and to form complete contact with the mortar. Periodically raise one tile to insure that full contact is being attained and that the final thickness of the mortar bed is not less than 3/32".
b. If paper faced, remove paper and glue from tile within one hour after tile is set and adjust all tiles that are out-of-line or level. Use no more water than necessary in removing paper and glue.
c. As work progresses, make adjustments of out-of-line tile and wipe mortar smears from the surface. When making adjustments, beat in all loosened tiles.
d. Remove mortar in joints within 1/8" of face of tile.

3.6 GROUTING OF FLOORS

A. Latex Modified Commercial Premix Grout:

1. Mix ingredients as hereinbefore specified. Do not add other ingredients or an excessive amount of water. Do not mix more grout than can be installed in one hour.
2. Completely fill joints.
3. Remove excess grout leaving joint to depth of cushion.

B. Portland Cement Mortar Application of Floors:

1. Lay cleavage membrane over slab depression for Membrane/Portland Cement application. Lap all edges and ends to form continuous membrane.
2. Lay welded wire mesh over cleavage membrane.
3. Install 1/4" expansion joints around perimeter of room, all protruding surfaces, and in the field of the floor as recommended by TCNA.
4. Mixing Portland Cement Mortar:

a. Mix mortar ingredients thoroughly before adding water.
b. Carefully work in sufficient water to obtain desired consistency.
c. Use caution in mixing to get complete wetting and homogeneity. Rework mixes from time to time to maintain proper consistency, but do not add excessive water. Discard mortar that has reached its initial set.

5. Installation of Mortar Bed:

a. Install mortar on floor in sufficient thickness to allow for tamping.
b. Tamp heavily to compact bed.
c. Screed to proper plane.
d. Install only as much bed as can be covered in one day.

6. After mortar bed is cured, install tile in accordance with latex modified dry-set mortar application specified hereinbefore.

3.7 CLEANING

A. Use commercially available compounds formulated for the purpose or use diluted sulfammic acid as acceptance to tile manufacturer.

B. If acid based products are used, allow grout to cure a minimum of 3 days and thoroughly rinse the floor.

END OF SECTION

SECTION 09 65 20

SOLID VINYL TILE FLOORING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Resilient Tile (Solid Vinyl Tile) Flooring.

B. Related Sections:

1. 03 30 53 Miscellaneous Cast-In-Place Concrete
2. 03 30 00 Cast-In-Place Concrete
3. 09 65 13 Resilient Base
4. 09 05 61.13 Moisture Vapor Emission Control

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. LEED Submittals:

1. Credit MR 4: Submit product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include statement indicating costs for each product having recycled content.
2. Credit MR 5: Submittal shall indicate the location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.
3. Credit EQ 4.1: Submit certification stating that all adhesives in the building interior meets the testing and product requirements of the California Department Of Health Services *Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers*, including 2004 addenda.
4. Credit: EQ 4.3: Submit certification stating that all flooring elements installed in the building interior meets the testing and product requirements of the California Department of Health Services *Standards Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers*, including 2004 Addenda.

    a. Flooring products must be FloorScore® Certified.
    b. FloorScore® documentation must include certificate number for specified product.

C. Samples for Initial Selection: For each type of product indicated.

D. Samples for Verification: For each type of product indicated, in manufacturer's standard-size samples of each resilient product color, texture, and pattern required.

E. Product Schedule: For resilient products. Use same designations indicated on Drawings**.**

1.4 QUALITY ASSURANCE

A. Mockups: Provide mock-up in one area for AOR review. Determine area and extent of install with AOR prior to performing work.

B. Installer Qualifications:

1. At least five year's experience in the installation of resilient flooring.
2. Experience on at least five projects of similar size, type and complexity as this project.
3. Employer of workers for this Project who are competent in techniques required by manufacturer for resilient flooring installation indicated.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by Manufacturer, but not less than 55 deg F (13 deg C) or more than 85 deg F (29 deg C).

1. Store the indoor resilient surfacing rolls in an upright position on a smooth flat surface immediately upon delivery to Project.

B. PROJECT CONDITIONS

C. Install resilient products after other finishing operations, including painting, have been completed.

D. Maintain ambient temperatures within range recommended by Manufacturer, but not less than 65 deg F (18 deg C) or more than 85 deg F (29 deg C) in spaces to receive resilient products during the following time periods:

1. 48 hours before installation
2. During installation
3. 48 hours after installation

E. Maintain the ambient relative humidity between 40% and 60% during installation.

F. Until Substantial Completion, maintain ambient temperatures within range recommended by Manufacturer, but not less than 55 deg F (13 deg C) or more than 85 deg F (29 deg C).

1.7 WARRANTY

A. Manufacturer's Standard Warranty: Manufacturer agrees to replace flooring and transition stripes that fail in performance or materials within specified warranty period.

1. Warranty Period: Five (5) years from date of Final Acceptance or Substantial Completion.

1.8 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents and handling instructions.

1. Floor Tile: Furnish one box for every 50 boxes, or fraction thereof, of each type, color, and pattern of floor tile installed.

2. Transition Strips: Furnish not less than ten linear feet for every 500 linear feet, or fraction thereof, of each type, color, profile, and size of transition strip installed.

PART 2 - PRODUCTS

2.1 SOLID VINYL TILE FLOORING

A. Gerflor Mipolam Accord 300 (Basis of Design)

B. Johnsonite Tarkett iQ Granit (or) Johnsonite GenStone SVT

C. Armstrong

2.2 PRODUCT INFORMATION:

A. Tile Size: 24” x 24”

B. Tile Thickness: .080” nominal

C. Slip Resistance: ADA Compliant

D. Complies with requirements for ASTM F 1700, Class 1, Type A (Type B for slip resistant tile) Standard specification for Solid Vinyl Tile Floor.

E. ASTM F 970, standard test method for static load limit – 800 PSI (modified for higher load).

F. ASTM E 648, standard test method for critical radiant flux of 0.45 watts/cm^2 or greater, Class I.

H. Formaldehyde Free.

I. FLOORSCORE Certified.

K. Phthalate-free.

2.3 INSTALLATION MATERIALS:

A. Trowelable leveling and patching compounds: Latex-modified, Portland cement based or blended hydraulic-cement-based formulation.

B. Adhesives: As recommended by manufacturer to meet site conditions.

1. Pressure Sensitive Adhesive

2. Two-Part Polyurethane Adhesive – MAPEI Ultrabond G19, Tarkett 940, or AOR approved equal

3. Special Adhesive approved by manufacturer for immediate use after install.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the work.

B. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.

C. Permanent heat, lighting and ventilation systems are installed and operable.

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

3.2 PREPARATION

A. Prepare substrates according to Manufacturer's written instructions to ensure adhesion of Resilient Tile Flooring.

1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.

2. Remove substrate paint, coatings and other substances that are incompatible with adhesives or contain soap, wax, oil, solvents, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.

3. Mechanically remove contamination on the substrate that may cause damage to the resilient flooring material. Permanent and non-permanent markers, pens, crayons, paint, etc., must not be used to write on the back of the flooring material or used to mark the substrate as they could bleed through and stain the flooring material.

4. The concrete slab complies with ACI 302.2R for concrete design including use of a low-permeance vapor barrier directly beneath the concrete subfloor with sealed penetrations.

5. Prepare substrates according to ASTM F 710 including the following:

a. Moisture Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.

1) Perform anhydrous calcium chloride test, ASTM F 1869. Results must not exceed 5 lbs. Moisture Vapor Emission Rate per 1,000 sq. ft. in 24 hours.

2) Perform relative humidity test using in situ probes, ASTM F 2170. Results must not exceed 80%.

b. A pH test for alkalinity must be conducted. Results should range between 7 and 9. If the test results are not within the acceptable range of 7 to 9, the installation must not proceed until the problem has been corrected.

c. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer.

B. Fill cracks, holes, depressions and irregularities in the substrate with good quality Portland cement based underlayment leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.

C. Floor covering shall not be installed over expansion joints.

D. Do not install solid vinyl tile products until they are same temperature as the space where they are to be installed.

1. Move solid vinyl tile products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.

E. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.

3.3 SOLID VINYL TILE FLOORING INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient tile flooring.

B. Solid Vinyl Tile Flooring:

1. Install with adhesive specified for the site conditions and follow adhesive label for proper use.

2. Open enough cartons of floor tiles to cover each area, and mix tile to ensure shade variations do not occur within any one area.

3. Roll the flooring in both directions using a 100 pound three-section roller.

3.4 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protection of resilient products.

B. Perform the following operations immediately after completing resilient product installation:

1. Remove adhesive and other blemishes from exposed surfaces.

2. Sweep and vacuum surfaces thoroughly.

3. Damp-mop surfaces to remove marks and soil.

C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

D. No traffic for 24 hours after installation, unless special manufacturer approved adhesive is used.

E. No heavy traffic, rolling loads, or furniture placement for 72 hours after installation, unless s special manufacturer approved adhesive is used.

F. Cover products until substantial completion reviewed and approved by AOR.

G. Wait 72 hours after installation before performing initial cleaning, unless special manufacturer approved adhesive is used.

H. A regular maintenance program must be started after the initial cleaning.

END OF SECTION

SECTION 11 40 00

FOOD SERVICE EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes equipment for foodservice facilities indicated on the Drawings.

B. Related Sections include the following:

1. Division 03 Section "Cast-in-Place Concrete" for the following:
   a. Requirements for slab depressions. (Walk-in Freezer/Cooler)
2. Division 05 Section "Metal Fabrications" for equipment supports.
3. Division 07 Section "Roof Accessories" for roof curbs and equipment supports.
4. Division 22 & 23 Sections “Mechanical” for plumbing and HVAC systems.
5. Division 26 Section “Electrical” for general electrical systems.
6. Division 21, 22, and 23 Sections for supply and exhaust fans; exhaust ductwork; service roughing-ins; drain traps; atmospheric vents; valves, pipes, and fittings; fire-extinguishing systems; and other materials required to complete foodservice equipment installation.
7. Division 23 Section "Commercial Kitchen Hoods" for ventilation hoods.
8. Division 26 Sections for connections to fire alarm systems, wiring, disconnect switches, and other electrical materials required to complete foodservice equipment installation.
9. PLUMBING DEVICES, FAUCETS, VALVES, FITTINGS, TEMPERATURE REGULATORS, AND SIMILAR ITEMS, shall be furnished and installed by the Plumbing Subcontractor unless specified in the Itemized Specifications.
10. ELECTRICAL EQUIPMENT AND DEVICES, SWITCHES, STARTERS, AND CONTROLS, in fabricated equipment items shall be factory installed and of the proper type in accordance with the National Electrical Code. All devices shall be listed or recognized by Underwriters’ Laboratories, Inc. Set controls that are mounted on vertical surfaces of fabricating fixtures, into recessed die – stamped stainless steel cups or otherwise indent to prevent damage. EC shall provide electrical devices not supplied or specified herein.

C. DEFINITIONS & ABBREVIATIONS

A. NATIONAL SANITATION FOUNDATION (NSF). Construct Equipment in compliance with the standards of the National Sanitation Foundation and in full compliance with the

Public Health Regulations of the County and State. Each piece of equipment shall have the "seal of approval" label of the National Sanitation Foundation.

B. REGULATIONS AND STANDARDS. Construct equipment in compliance with the following applicable codes, regulations, and standards. In case of conflict between the following standards, the most stringent requirements shall govern:

Americans with Disabilities Act (ADA)

American Gas Association (AGA)

American National Standards Institute (ANSI)

American Society of Heating, Ventilating & Air

Conditioning Engineers (ASHRAE)

American Society of Mechanical Engineers (ASME)

American Society for Testing and Materials (ASTM)

National Electrical Code (NEC)

National Electrical Manufacturers Association (NEMA)

National Fire Protection Association (NFPA)

Underwriters Laboratories Inc. (UL)

C. ABBREVIATIONS

EC – Electrical Contractor

FSEC – Foodservice Equipment Sub-Contractor

GC – General Contractor

HVAC – Heating, Ventilating and Air Conditioning

Contractor

PC – Plumbing Contractor

MC – Mechanical Contractor

1.3 SUBMITTALS

A. Product Data: For each type of product indicated. Include the following:

1. Manufacturer's model number.
2. Options, accessories, and components that will be included for Project.
3. Clearance requirements for access and maintenance.
4. Utility service connections for water, drainage, power, and fuel; include roughing-in dimensions.

B. Shop Drawings: For fabricated equipment and special needs as required within these written specifications for successful project completion. Include plans, elevations, sections, roughing-in dimensions, fabrication details, utility service requirements, and attachments to other work.

C. Coordination Drawings: For foodservice facilities.

1. Indicate locations of foodservice equipment and connections to utilities.
2. Key equipment using same designations as indicated on Drawings.
3. Include plans and elevations; clearance requirements for equipment access and maintenance; details of support for equipment; and utility service characteristics.
4. Include details of seismic bracing for equipment if required by local code.

D. Samples for Initial Selection: For units with factory-applied color finishes.

E. Samples for Verification: For each factory-applied color finish required, in manufacturer's standard sizes.

F. Operation and Maintenance Data: For foodservice equipment to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Closeout Procedures & Operation and Maintenance Data," include the following:

1. Product Schedule: For each foodservice equipment item, include the following:

a. Designation indicated on Drawings.
b. Manufacturer's name and model number.
c. List of factory-authorized service agencies including their addresses and telephone numbers.

G. Warranty: Special warranty specified in this Section.

1.4 QUALITY ASSURANCE

A. NSF Standards: Provide equipment that bears NSF Certification Mark or UL Classification Mark certifying compliance with applicable NSF/ANSI standards.

B. BISSC Standards: Provide bakery equipment that complies with BISSC's "Sanitation Standards for the Design and Construction of Bakery Equipment and Machinery."

C. UL Certification: Provide electric and fuel-burning equipment and components that are evaluated by UL for fire, electric shock, and casualty hazards according to applicable safety standards and that are UL certified for compliance and labeled for intended use.

D. Steam Equipment: Provide steam-generating and direct-steam heating equipment that is fabricated and labeled to comply with ASME Boiler and Pressure Vessel Code.

E. Regulatory Requirements: Install equipment to comply with the following:

1. ASHRAE 15, "Safety Code for Mechanical Refrigeration."
2. NFPA 54, "National Fuel Gas Code."
3. NFPA 70, "National Electrical Code."
4. NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations."

F. Seismic Restraints: Comply with SMACNA's "Kitchen Ventilation Systems and Food Service Equipment Fabrication and Installation Guidelines," Appendix A, "Seismic Restraint Details," if required by code unless otherwise indicated.

G. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination."

H. FSEC to provide faucets, pre-rinse units, hose reels, etc. by the same manufacturer.

1.5 PROJECT CONDITIONS

A. Field Measurements: Indicate measurements on Coordination Drawings.

1.6 COORDINATION

A. Coordinate foodservice equipment layout and installation with other work, including lighting fixtures, HVAC equipment, and fire-suppression system components.

B. Coordinate location and requirements of utility service connections.

C. Coordinate size, location, and requirements of the following:

1. Overhead equipment supports.
2. Equipment bases.
3. Floor depressions.
4. Insulated floors.
5. Floor areas with positive slopes to drains.
6. Floor sinks and drains serving foodservice equipment.
7. Roof curbs, equipment supports, and penetrations.
8. Equipment that requires thru-wall or in-wall installation.

D. It is the responsibility of the FSEC to visit the job site and determine that adequate access to the kitchen area will allow for a successful installation of equipment. FSEC to verify all delivery access points, corridor, doorway, elevator, or other building constraints may prevent the equipment to be moved into place as specified. Any required changes to equipment specifications or, alteration of specified equipment, in order to properly install said equipment shall be reported immediately to the general contractor or construction manager so that accommodations can be made to address the issue.

E. MECHANICAL AND ELECTRICAL ROUGH-INS. Examine roughed-in mechanical and electrical services, and installation of floors, walls, columns and conditions under which the work

is to be installed. Notify the General Contractor of unsatisfactory conditions for proper installation of food service equipment.

1. Visit the job site to check mechanical and electrical rough-ins, prior to the installation of concrete floor.
2. Cost to relocate or add utility lines due to failure of the Foodservice Equipment Contractor Subcontractor to indicate their proper location on the rough-in shop drawings, will be assumed by the Foodservice Sub-Contractor.
3. THOUROUGHLY REVIEW Architectural, Mechanical and Electrical Drawings, and visit the project site as necessary to coordinate construction of all partitions prior to delivery of food service equipment.
4. PROVIDE information to all trades at an early date a list of all equipment requirements that are relevant to that trade. Assist with hook-ups as necessary.

F. GENERAL INFORMATION CONCERNING EQUIPMENT AND WALK-IN INSTALLATION

1. FSEC shall ASSEMBLE AND ERECT ALL EQUIPMENT ITEMS in the locations shown on the Drawings. Set up items plumb and level, ready for final plumbing, electrical, and ventilating connections. GC shall erect walk-in unit for final connections.
2. FSEC shall CAULK BETWEEN WALLS and sinks, tables, and dish tables where backsplashes sit against walls. Caulking shall be CLEAR silicone, applied in a narrow smooth bead.
3. FSEC shall INSTALL CLOSURE PANELS, TRIM STRIPS, and WALL FLASHING where required with matching metal using mastic or other fastener made of stainless steel or non-corrosive material. Trim Strips at top of backsplashes are not permitted. Equipment must fit within ¼" of walls. GC shall verify if closure panels are required above walk-in unit with CPS.
4. GC shall INSTALL INTERCONNECTING REFRIGERATION PIPING and insulation required for the walk-in cooler/freezer. All piping and insulation routed in the ceiling plenum shall comply with ASTM E-84 flame spread 25/smoke density-50). COORDINATE installation with general contractor. GC to start up and test unit.
5. GC shall COMPLETE ERECTION OF ALL WALK-IN PANELS, including all necessary caulking.
6. GC shall INSTALL BEAM AND POST SECTIONS in accordance with manufacturer's recommendations in the location indicated on the plan if required.
7. GC shall MOUNT ALL INTERIOR CEILING LIGHTS where indicated. GC to wire all lights to "J" boxes and wire freezer condenser and evaporator, with defrost timer. GC shall also wire all other components, such as alarms, pressure relief ports, door & window heaters, etc.
8. GC shall HANG EVAPORATOR COILS where indicated on drawing.
9. GC shall coordinate and SET CONDENSING UNITS WHERE INDICATED. GC shall install all refrigeration lines. GC to install electrical wiring between condensing unit and evaporator coils and make final connections. GC to inter-wire freezer condenser and evaporator with time clock.
10. GC to INSTALL HEAT TAPE and INSULATION ON FREEZER and COOLER DRAIN LINES and INSULATE REFRIGERATION LINES.
11. GC shall install COPPER CONDENSATE line from evaporator to discharge outside of walk-in. Furnish "P" trap in drain line outside of freezer. Furnish drain line heater in freezer before insulating drain line. "T" freezer drain line with cooler drain line inside of cooler and discharge outside of walk-in. GC shall provide and install copper drain lines from evaporators to floor sink. GC to provide and install heat tape and insulation for drain

lines. GC to provide a P-trap on drain line at exterior of freezer/cooler ahead of termination at floor sink.

12. GC shall FOAM ALL PENETRATIONS before sealing with silicone.
13. FSEC shall TAG AND LABEL ALL KEYS with plastic identification tags and deliver to the owner.
14. GC to make all necessary electrical connections to switches, lights, condensers, evaporators, pressure relief ports, door heaters, etc. to insure a complete installation per manufacturer instructions.
15. GC SHALL wire lights and fan switches on exhaust hood. EC to provide shunt trip.
16. EC shall provide conduit from the Ansul system to the pull-down station.
17. Mechanical gas shunt trip valve to be provided by the FSEC to the PC.

1.7 TESTING AND DEMONSTRATING EQUIPMENT

A. DELAY START-UP of food service equipment until lines have been tested, balanced, and adjusted for pressure, voltage and similar considerations; and until water lines have been cleaned and treated for sanitation.

B. TEST EACH EQUIPMENT ITEM to demonstrate that it is operating properly, and that controls and safety devices are functioning. Repair or replace equipment that is found to be defective or operating with excess noise or vibration.

C. FINAL TEST AND DEMONSTRATION OF EQUIPMENT shall be conducted by the Food Service Equipment Subcontractor in the presence of the Owner or his representative after all connections have been made. Notify the architect and consultant of start-up and demonstration dates. Qualified technicians (Manufacturers Representatives) shall instruct Owner personnel in proper function, adjustment methods, maintenance and care of each piece of equipment herein specified, to the complete satisfaction of the Owner. The respective manufacturer's representative shall demonstrate all cooking equipment. FSEC project manager needs to be present at time of all demonstrations.

D. SCHEDULE DEMONSTRATION OF EQUIPMENT with Owner. Provide written notice of demonstration date to the Architect, General Contractor and Consultant, at a minimum of 7 days prior the scheduled date.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

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

1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products specified.
2. Products: Subject to compliance with requirements, provide one of the products specified. If only one product is specified provide that product only.
3. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.

4. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified. If only one product is specified provide that product only.
5. Basis-of-Design Product: The design for foodservice equipment item is based on the product named. Subject to compliance with requirements, provide either the named product or a comparable product by one of the other manufacturers specified.
6. All equipment shall be the latest manufacturers' model. Equipment specified by model number shall include all standard and any optional accessories as specified.
7. All equipment including custom and/or customized equipment shall each have a model number that includes the code *M125 as a suffix. This code is known as the Specifier Identification System. It is not to be removed by the bidders. Its purpose is to identify the specifier to the vendors providing equipment in the event it is necessary to communicate questions, clarifications and comments, from prior to bid award through the final purchase. It is to be used on all correspondence including fax and email when communicating with manufacturers' representatives and factories.

B. All equipment specified herein shall be basis of design products unless noted as "No Substitution". Foodservice Equipment Contractor shall submit for approval all requests for substitution against basis of design product at least two weeks prior to bid submittal. Failure to submit substitution request for products other than basis-of-design will result in FSEC being required to provide basis-of-design product only and any non-approved product will be returned to the FSEC.

C. ANY COSTS that result in changes to utility connections or dimensional variations that result in changes to the layout of the space, based upon "equal or substituted equipment", shall be at the sole expense of the FSEC.

2.2 FABRICATED EQUIPMENT

A. Where specifications state a basis-of-design product or Custom Fabricator in the manufacturer category, the FSEC can select a fabricator who will build the piece of equipment around the specifications of the basis-of-design product providing that the fabricator produce shop drawings for submittal and that the fabricator meets the requirements as specified in this section and as described below. **All fabrication items to be produced by a single fabricating company. Multiple fabricators will only be allowed with prior approval from the consultant.**

B. Plant, Personnel and Facilities. Fabricated equipment described in the following specifications other than by name or catalog numbers, shall be manufactured by an equipment fabricator who has the plant, personnel and engineering facilities to properly design, detail and manufacture high quality foodservice equipment. The fabricator is subject to the approval of the architect and consultant.

C. The fabricator shall have been engaged in the manufacture and distribution of foodservice equipment for the past ten years, or longer, as required under the Contract, as his principal product.

D. Standard products and materials specified herein shall be furnished by manufacturers regularly engaged in the production of such materials, products and equipment and shall be of the manufacturers latest design that complies with the written specifications.

E. A competent foreman or supervisor and qualified workers shall be provided for installation of equipment and to counsel with other trades in regard to the installation and connections.

F. Materials:

1. Stainless Steel: ASTM A 666, with No. 4 finish (directional satin finish) on exposed surfaces.
2. Galvanized Steel: ASTM A 653/A 653M, G90 coating designation; commercial-quality, cold-rolled steel that is zinc coated by the hot-dip process and chemically treated.

2.3 ITEMIZED SPECIFICATIONS

ITEM 01 - CASH REGISTER STAND (2 REQUIRED)

Randell Model RAN CA
RanServe Cash Register Stand, 30" L, 30" D, 35" H, portable with locking cash drawer, foot rest & cash register cord hole, 14 gauge stainless steel top with interchangeable laminate body panels, swivel casters (2 locking). Provide 90-day labor warranty standard and 1 yr. parts warranty standard. Furnish Model RSEXTLAM-CA Laminate Exterior (color by Architect/Owner), Model RSTOP14G30 Top, 14 gauge stainless steel 30" unit, Model RAN INV30-C Inverted Round Tray Slide, 10" deep, customer side, and 6" Casters, standard.

ITEM 02 - MILK COOLER (2 REQUIRED)

True Food Service Equipment Model TMC-49-S-SS-HC
Mobile Milk Cooler, FORCED-AIR, (12) crates, stainless steel drop front/hold-open flip-up lids, lock, 33-38°F, stainless exterior, stainless steel interior & floor, (3) heavy duty floor racks, digital thermometer, 4" castors, R290 Hydrocarbon refrigerant, 1/5 HP, 115v/60/1, 2.7 amps, 9' cord, NEMA 5-15P, cULus, UL EPH Classified, MADE IN USA. Provide Self-contained refrigeration, Warranty - 5 year compressor, Warranty - 3 year parts and labor, and4" Castors, standard.

ITEM 03 - COLD PAN SERVING COUNTER (2 REQUIRED)

Randell Model RAN SCA-4S
RanServe Cold Food Table, refrigerated cold pan, 60" L, 30" D, 35" H, mobile modular, 4-pan size, open base, 14 gauge stainless steel top, laminate exterior with galvanized backing, swivel casters (2 locking), 1/4 HP. Provide 90-day labor warranty standard, 1 yr. parts warranty standard, Model CW5 5 yr. compressor warranty, 115v/60/1-ph, 5.0 amps, NEMA 5-15P, standard. Furnish Model RSEXTLAM-60 Laminate Exterior (color by Architect/Owner), Model RSTOP14G60 Top, 14 gauge stainless steel 60" unit, Model RAN SBS60 Single Sided Buffet Shield, 60" L, stainless steel top, acrylic insert, Model RSBORSWB-60 Flat Work Board, 60", stainless steel server side, Model RAN INV60-C Inverted Round Tray Slide, 10" deep, customer side, 6" Casters, standard.

ITEM 04 - UTILITY SERVING COUNTER (2 REQUIRED)

Randell Model RAN ST-2S
RanServe Utility Unit, 24" L, 30" D, 35" H, mobile modular, open cabinet base with 2 shelves, 16 gauge stainless steel top, laminate exterior with galvanized backing, swivel casters (2 locking). Provide 90-day labor warranty standard, 1 yr. parts warranty standard, Model RSEXTLAM-24 Laminate Exterior (color byu Architect/Owner), for 24" units, Model RSTOP14G24 Top, 14 gauge stainless steel 24" unit,Model RSBORSWB-24 Flat Work Board, 24", stainless steel server side, Model RAN INV24-C Inverted Round Tray Slide, 10" deep, customer side, 6" Casters, standard.

ITEM 05 - HOT FOOD SERVING COUNTER (2 REQUIRED)

Randell Model RAN HTD-4S
RanServe Hot Food Table, electric, 60" L, 30" D, 35" H, mobile modular, (4) 12" x 20" hot food wells, open cabinet base with sliding doors, 14 gauge stainless steel top, laminate exterior with galvanized backing, swivel casters (2 locking). Provide 90-day labor warranty standard, 1 yr. parts warranty standard, 208v/60/1-ph, 21.2amps, NEMA 6-30P, Model RSEXTLAM-60 Laminate Exterior (color by Architect/Owner), for 60" units, Model RSTOP14G60 Top, 14 gauge stainless steel 60" unit, Model RAN CP60-GL Counter Protector, for 60" units, with glass top, Model RSBORSWB-60 Flat Work Board, 60", stainless steel server side, Model RAN INV60-C Inverted Round Tray Slide, 10" deep, customer side, 6" Casters, standard.

ITEM 06 - WIRE SHELVING UNIT (1 REQUIRED)

Eagle Group Model S4-74-2472E
Starter Shelving Unit, 4-tier, 72"W x 24"D x 74"H, wire shelves with patented QuadTruss® design, (4) 74"H posts, EAGLEgard® hybrid epoxy finish with MICROGARD® antimicrobial protection, KD, NSF.

ITEM 07 - REFRIGERATOR RACK, ROLL-IN (6 REQUIRED)

Eagle Group Model 4337 or Channel
Lifetime Series Roll-In Refrigerator, universal, 21-1/2" x 26" x 64"H, heavy duty, (11) 18" x 26", (10) 12" x 20", (22) 13" x 18", or (22) 14" x 18" pan capacity, slides on 5" centers, fully welded aluminum construction, (4) 5" x 1-3/8" non-marking swivel plate casters, NSF.

ITEM 08 - ROLL-IN HEATED CABINET (2 REQUIRED)

True Food Service Equipment Model STR1HRI89-1S
SPEC SERIES® Heated Roll-in, 89"H, one-section, stainless steel front & sides, (1) stainless steel door with lock, cam-lift hinges, color-coded temperature display, stainless steel interior, interior lighting, stainless steel ramp, 2KW, 115/208-230v/60/1, cULus, UL EPH Classified, MADE IN USA. Warranty - 3 year parts and labor, Provide Thermometer side: Doors hinged as shown on FS plan drawing.

ITEM 09 - ROLL-THRU REFRIGERATOR (2 REQUIRED)

True Food Service Equipment Model STR1RRT-1S-1S

SPEC SERIES® Roll-thru Refrigerator, stainless steel front & sides, (1) stainless steel door front & rear with locks, cam-lift hinges, digital temperature control, stainless steel interior, incandescent interior lighting, stainless steel ramps, 1/3 HP, 115v/60/1, 8.9 amps, 9' cord, NEMA 5-15P [accommodates 27"Wx29"Dx66"H cart, NOT included], cULus, UL EPH Classified, MADE IN USA. Warranty - 3 year parts and labor, Warranty - 5 year compressor, Doors hinged as shown on FS plan drawing.

ITEM 10 - CONVECTION OVEN (2 REQUIRED)

Vulcan Model VC66GD
Convection Oven, gas, double-deck, bakery depth, solid state controls, electronic spark igniters, 60 minute timer, 8" high legs, stainless steel front, top and sides, stainless steel doors with windows, 50,000 BTU each section, NSF, CSA Star, CSA Flame. 1 year limited parts & labor warranty, standard. K12 School Nutrition extended warranty extends the warranty for 12 months beyond the 12 month. Natural gas, (2) 120v/60/1-ph, (2) 1/2 HP, 16.0 amps total, (2) 6' cords with plugs, NEMA 5-15P, standard. Provide Gas manifold piping included with stacking kit to provide single point gas connection, Simultaneous doors, both ovens, Model 3/4QD HOSE-4 3/4" x 4' long gas flex hose & quick disconnect, 2 sets Casters.

ITEM 11 - CONVECTION STEAMER (2 REQUIRED)

Groen Model VRC-6E
Convection Steamer, connectionless, electric, countertop, (6) 12" x 20 x 2-1/2" pan capacity, 4 gallon capacity water reservoir, manual controls, electronic timer, left-hinged door, manual fill & drain, stainless steel construction, 4" legs, 9.0 kW, 208v/60/3-ph, 25.0 amps, NEMA 15-50P, UL, cUL, NSF, ENERGY STAR®. K-12 School Two year parts and labor warranty. Provide stacking stand for 2 units. Verify stand type to hold two VRC-6E steamers.

ITEM 12 - EXHAUST HOOD (1 REQUIRED)

Specifier I.D. #M125
Basis of Design Product: Halton Model EO
The hood shall be Type II. 129”L x 65”D x 24”H/ Duct collar shall be 13”x12” providing 1926 CFM @ 0.33”SP. The kitchen hood shall be constructed from 18 gauge stainless steel. The kitchen hoods shall be supplied complete with outer casing / main body, inner liner, exhaust duct, baffle plates, condensate channel, drain tap and assembly brackets. Outer casing panels shall be constructed of stainless steel with a brushed satin finish. Each joint shall be welded and liquid tight, avoiding harmful dripping of condensation. All exposed welds are ground and polished to the original finish of metal. Condensation is achieved by the use of angled internal baffles and deflectors. Efficient exhaust is maintained by using lateral side slots combined with the large internal volume. Furnish two (2) LED surface mount vapor proof light fixture(s). The lighting shall be suitable for single-phase power supply and shall be UL listed LED type, suitable for condensate hoods. Condensate channels guttering shall form part of the main construction of the canopy and run the entire perimeter of the hood. The drain tap shall be manufactured from stainless steel. Hood shall be hung so that bottom edge of hood is 80”AFF.

ITEM 13 - WORK TABLE (1 REQUIRED)

Eagle Group Model T3696SEM
Spec-Master® Marine Series Work Table, 96"W x 36"D, 14/300 series stainless steel top, box marine edge on all sides, adjustable 18/300 series stainless steel undershelf with marine edge, Uni-Lok® gusset system, (4) stainless steel legs & adjustable bullet feet, NSF. Provide (1) integral three drawer unit (TD#) at location shown on FS plan drawings.

ITEM 14 - HAND SINK (3 REQUIRED)

Eagle Group Model HSA-10-FA
Hand Sink, wall mount, 13-1/2" wide x 9-3/4" front-to-back x 6-3/4" deep bowl, 304 stainless steel construction, splash mount gooseneck faucet, P-trap & tail piece, basket drain, deep-drawn seamless design-positive drain, inverted "V" edge, NSF. Provide Model -MG MicroGard™ antimicrobial finish on bowl only, Model 306495 Standard Gooseneck Faucet, with wrist handles, splash mount, 4" O.C., NSF, and Model 606396 Side Mount Wall Brackets, pair.

ITEM 15 - WORK TABLE (1 REQUIRED)

Eagle Group Model T3696SEM
Spec-Master® Marine Series Work Table, 72"W x 36"D, 14/300 series stainless steel top, box marine edge on all sides, adjustable 18/300 series stainless steel undershelf with marine edge, Uni-Lok® gusset system, (4) stainless steel legs & adjustable bullet feet, NSF. Provide (1) integral three drawer unit (TD#) at location shown on FS plan drawings. Furnish with 24” x 24” x 9.5”D sink as shown on FS plan drawings. Furnish DECK MOUNT FAUCET, Fisher Model 3313, Faucet, 8" c/c deck mount, mixing valve, 12" swing spout, with 1/2" inlets. Provide (1) each Fisher Model 24082 Twist Waste Standard Valve, 3-1/2" industry standard sink opening, 1-1/2" drain outlet, flat strainer, 12 GPM drain rate, stainless steel, CSA.

ITEM 16 - DECK MOUNT FAUCET (1 REQUIRED)

Fisher Model 3313
Faucet, 8" c/c deck mount, mixing valve, 12" swing spout, with 1/2" inlets

ITEM 17 - WORK TABLE (1 REQUIRED)

Eagle Group Model T3684SEM-BS
Spec-Master® Marine Series Work Table, 84"W x 36"D, 4-1/2"H backsplash, 14/300 series stainless steel top, box marine edge on front & sides, adjustable 18/300 series stainless steel undershelf with marine edge, Uni-Lok® gusset system, (6) stainless steel legs & adjustable bullet feet, NSF. Furnish with 24” x 24” x 9.5”D sink as shown on FS plan drawings. Provide (1) each Fisher Model 24082 Twist Waste Standard Valve, 3-1/2" industry standard sink opening, 1-1/2" drain outlet, flat strainer, 12 GPM drain rate, stainless steel, CSA.

ITEM 18 - WALL / SPLASH MOUNT FAUCET (1 REQUIRED)

Fisher Model 13218
Faucet, backsplash mount, 8" c/c, 16" long swing spout, 1/2" inlets.

ITEM 19 - SPARE NO.

ITEM 20 - THREE (3) COMPARTMENT SINK (1 REQUIRED)

Eagle Group Model FN2860-3-24-14/3
Spec-Master® FN Series Sink, three compartment, 114"W x 35"D, 14/304 stainless steel top, 20" wide x 28" front-to-back x 14" deep compartments, 24" drainboards on left & right, 9-1/2"H backsplash with 1" upturn & tile edge, (2) sets of 8" O.C. splash mount faucet holes, rolled edges on front & sides, includes 3-1/2" basket drains, stainless steel cross-bracing on all sides, stainless steel legs & adjustable bullet feet, NSF. Provide (3) each Fisher Model 24082 Twist Waste Standard Valve, 3-1/2" industry standard sink opening, 1-1/2" drain outlet, flat strainer, 12 GPM drain rate, stainless steel, CSA.

ITEM 21 - WALL / SPLASH MOUNT FAUCET (2 REQUIRED)
Fisher Model 13269
Faucet, backsplash mount, 8" c/c, 12" long swing spout, 1/2" inlets

ITEM 22 - UTILITY CART (3 REQUIRED)

Lakeside Manufacturing Model 947
Tough Transport® Utility Cart, 2-tier, 42"W x 25-7/8"D x 37-3/8"H, stainless steel construction, open base U-frame with angled stainless steel, 24" x 36" 14-gauge shelves with reinforced edges, 21" shelf clearance, 1" O.D. tube push handle with bumpers, (2) 6" bumpers riveted to front legs, 1000 lb. capacity, (2) 5" reinforced swivel plate casters & (2) 8" fixed casters with non-marking polyurethane wheels, NSF
3 ea Casters, (2) 5" swivel, (2) 8" fixed, cushion tread, std
3 ea Wall-Saver perimeter bumpers

ITEM 23 - GARBAGE/RECYCLE STATION (1 REQUIRED)

Custom
Available Manufacturers: Eagle
Advance Tabco
Sparks Custom Fabrication
IEI
Recycling counter to be fabricated of 14 gauge, Type 304, stainless steel (see FS-1.08 for elevation drawing) with two hat channels and sound deadening to run the length of the shelf. Sink unit shall be a closed base cabinet unit with lockable double-pan cabinet doors. Cabinet shall measure 44”W x 30” front-to-back, x 31”H. Sink shall be 40”L x 20” W x 8.5”D. Backsplash to be 9”H with 45 degree turn up at top. 30”W steel shelf shall be field welded to sink cabinet and extend 7’-5” to each side of the sink unit. Provide galvanized steel cantilever brackets to support shelf at rear and space support brackets at 29” OC as shown on elevation detail to accommodate recycle bins. Provide 1’ x 1’ cut outs in shelf at intervals shown. Support free end of shelf with 16 gauge stainless steel tubing legs and cross rails. Edge detail for shelf shall be inverted V. Provide (1) ea Fisher Model 13218-Faucet, wall/backsplash mount, 8" C.C., 16"

long swing spout, 1/2" inlets and (1) ea Fisher Model 22209 waste valve, with flat strainer, 12 GPM drain rate, cast red brass body.

ITEM 24 - WASTE CANS (18 REQUIRED)

Basis of Design Product: Rubbermaid Model FG264300GRAY & 395873 BLUE
Available Manufacturers: Thunder Group
Continental

Furnish (6) Six Container, without lid, 44 gallon, 24"D x 31-1/2"H, round, reinforced rims, built in handles, double rimmed base, high-impact plastic construction, gray, NSF. Provide (6) Model FG264560BLA container lids, 24-1/2"D x 1-1/2"H, black and (6) Model FG264043BLA quiet dollys, 18-1/4"D x 6-5/8"H, non-marking blue casters, black.

Furnish (12) Twelve Recycling Container, 35 gallon, 19-1/2" x 27-5/8"H, square, with recycle symbol, durable, easy-to-clean, dark blue. Furnish recycling label kit, includes: 11 color-coded symbol labels and three sets of 11 word labels in English, French, and Spanish.

ITEM 25 - WALK IN COMBINATION COOLER/FREEZER (1 REQUIRED)

Nor-Lake or Thermo-Kool
(Thermo-Kool drawing shown on FS-1.10 for reference ONLY-submittal drawings required)
Indoor Two Compartment Walk-In, 8' x 16' x 7'-7" H, 8' x 8' & 8' x 8' compartments, smooth aluminum interior floor, 26 gauge embossed coated steel interior & exterior finish, self-closing doors with locking deadbolt handle. Condensers to be set as close to front of walk-in compartments as possible (preferred 1'-0" for ease of service).
1 each 15 year original equipment panel warranty

ITEM 26 - COOLER EVAPORATOR (1 REQUIRED)
See Item #27.
ITEM 27 - COOLER CONDENSER (1 REQUIRED)

1 each Model NAWD50RL0-Q Fast-Trak™ Indoor Remote Refrigeration System, 35°F Cooler, 1/2 hp welded hermetic condensing unit, low profile ceiling mounted coil, R-404A refrigerant, quick-connect fittings, 115v/60/1-ph
1 each 18 Month Labor/Service and original equipment parts warranty
1 each 5 Yr compressor warranty (net)
1 each Pre-charged line set, 5' add Q-5 to model number (R-404A)
1 each 18 Month Labor/Service and original parts warranty
1 each Door size 36" x 78"
1 each First Compartment Door hinged on left, specify door location with sketch
6 each Model 000695 Non-Skid Floor Strips, (shipped loose) price per strip
1 each Model 152117 48" LED light fixture (shipped loose)
1 each Model 123235 14" x 24" 3-pane unheated viewport with frame heater

ITEM 28 - FREEZER EVAPORATOR (1 REQUIRED)
See Item #29.
ITEM 29 - FREEZER CONDENSER (1 REQUIRED)

1 each Model LAWD100RL4-Q Fast-Trak™ Indoor Remote Refrigeration System, -10°F Freezer, 1 hp welded hermetic condensing unit, low profile ceiling mounted coil, R-404A refrigerant, quick-connect fittings, 208-230v/60/1-ph
1 each 18 Month Labor/Service and original equipment parts warranty
1 each 5 Yr compressor warranty (net)
1 each Pre-charged line set, 5' add Q-5 to model number (R-404A)
1 each 18 Month Labor/Service and original parts warranty
1 each Door size 36" x 78"
1 each Second Compartment Door hinged on left, specify door location with sketch
1 each Model 123236 14" x 24" 3-pane heated viewport with heated glass and frame heater
6 each Model 000695 Non-Skid Floor Strips, (shipped loose) price per strip
1 each Model 152117 48" LED light fixture (shipped loose)

ITEM 30 - WIRE SHELVING UNIT (10 REQUIRED)

(8) each Eagle Group Model S4-74-2442E
Starter Shelving Unit, 4-tier, 42"W x 24"D x 74"H, wire shelves with patented QuadTruss® design, (4) 74"H posts, EAGLEgard® hybrid epoxy finish with MICROGARD® antimicrobial protection, KD, NSF

(2) each Eagle Group Model S4-74-2448E
Starter Shelving Unit, 4-tier, 48"W x 24"D x 74"H, wire shelves with patented QuadTruss® design, (4) 74"H posts, EAGLEgard® hybrid epoxy finish with MICROGARD® antimicrobial protection, KD, NSF

ITEM 31 - POT & PAN SHELVING RACK (2 REQUIRED)

New Age Model PM2448
Pot & Pan Rack, mobile, 4-tier, 48"W x 24"D x 74"H, aluminum alloy construction, T-Bar shelf design adjustable in 2" increments, 1200 lb. capacity, 5" non-marking stem casters (#C440) wtih brakes, NSF, KD.

ITEM 32 - WIRE SHELVING UNIT (6 REQUIRED)

(4) each Eagle Group Model S4-74-2472E
Starter Shelving Unit, 4-tier, 72"W x 24"D x 74"H, wire shelves with patented QuadTruss® design, (4) 74"H posts, EAGLEgard® hybrid epoxy finish with MICROGARD® antimicrobial protection, KD, NSF.
(1) each Eagle Group Model S4-74-2460E
Starter Shelving Unit, 4-tier, 60"W x 24"D x 74"H, wire shelves with patented QuadTruss® design, (4) 74"H posts, EAGLEgard® hybrid epoxy finish with MICROGARD® antimicrobial protection, KD, NSF.
(1) each Eagle Group Model S4-74-2436E
Starter Shelving Unit, 4-tier, 36"W x 24"D x 74"H, wire shelves with patented QuadTruss® design, (4) 74"H posts, EAGLEgard® hybrid epoxy finish with MICROGARD® antimicrobial protection, KD, NSF.

ITEM 33 - REACH-IN REFRIGERATOR (2 REQUIRED)

True Food Service Equipment Model STA2R-2S

SPEC SERIES® Refrigerator, Reach-in, two-section, stainless steel front & sides, (2) stainless steel doors with locks, cam-lift hinges, digital temperature control, aluminum interior, (6) chrome shelves, LED interior lights, 5" castors, 1/2 HP, 115v/60/1, 9.1 amps, NEMA 5-15P, cULus, UL EPH Classified, MADE IN USA, ENERGY STAR®. Warranty - 3 year parts and labor, Warranty - 5 year compressor,Left door hinged left, right door hinged right standard, (3) chrome shelves and shelf supports standard per section. 2 sets 5" castors, set of 4, standard.

PART 3 - EXECUTION

3.1 INSTALLATION

A. FSEC shall install foodservice equipment level and plumb, according to manufacturer's written instructions.

1. Connection of equipment to utilities shall be performed by the trades. Coordinate and answer questions pertinent to the proper connection.

2. Provide cutouts in equipment, neatly formed, where required to run service lines through equipment to make final connections.

3. FSEC shall be responsible for the complete installation of refrigeration, plumbing, and electrical connections of all walk-in refrigerators and freezers. FSEC shall provide start-up of units with a Factory Authorized Service Agent supervising. The Service Agent shall provide a report stating that the installation and connections have been completed as per manufacturer requirements.

B. Complete equipment assembly where field assembly is required.

C. Provide closed butt and contact joints that do not require filler.

1. Grind field welds on stainless-steel equipment smooth, and polish to match adjacent finish.

D. Install equipment with access and maintenance clearances that comply with manufacturer's written installation instructions and requirements of authorities having jurisdiction.

E. Install closure-trim strips and similar items requiring fasteners in a bed of sealant.

F. Install joint sealant in joints between equipment and abutting surfaces with continuous joint backing, unless otherwise indicated. Produce airtight, watertight, vermin-proof, sanitary joints.

G. FSEC shall take every measure to provide a highly attractive fit and finish for all equipment items provided and installed. Extra care shall be taken

3.2 CLEANING AND PROTECTING

A. After completing installation of equipment, repair damaged finishes.

B. Clean and adjust equipment as required to produce ready-for-use condition.

C. Protect equipment from damage during remainder of the construction period.

3.3 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance and kitchen personnel to adjust, operate, and maintain foodservice equipment. Refer to Division 01 Section "Closeout Procedures & Demonstration and Training."

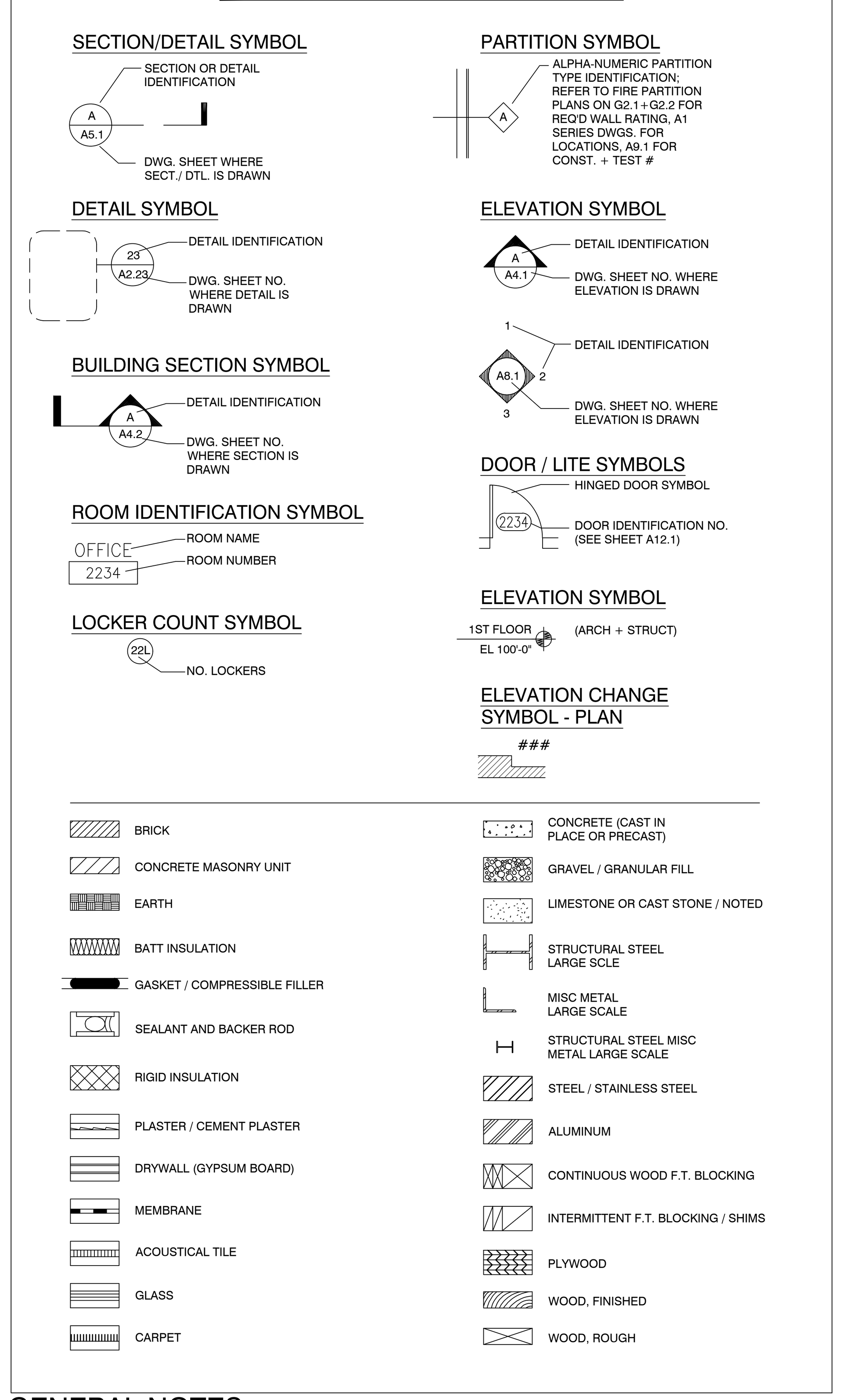
END OF SECTION 11 40 00

ABBREVIATIONS

AB	ANCHOR BOLT
A/C	AIR CONDITIONER
ACP	ALUMINUM COMPOSITE PANEL
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADAA	ADA ACCESSIBLE
ADAAG	ADA ACCESSIBILITY GUIDELINES
ADJ	ADJUSTABLE OR ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
ALS	ACRYLIC LATEX SEALANT
ALT	ALTERNATE
ALUM	ALUMINUM LS LIMESTONE ANOD ANODIZED
AP	ACCESS PANEL
APPROX	APPROXIMATELY
APT	APARTMENT
AR	ABUSE RESISTANT
ARCH	ARCHITECTURAL
AS	ACOUSTICAL SEALANT
ASSOC	ASSOCIATED
AT	ACOUSTIC TILE
ATTEN	ATTENUATION
B/	BOTTOM OF
B-MARK	BENCHMARK
BD	BOARD
BEJ	BUILDING EXPANSION JOINT
BOT	BOTTOM
BJF	BITUMINOUS JOINT FILLER
BLDG	BUILDING
BLK	BLOCK
BLKG	F.T. BLOCKING
BM	BEAM
BMT	BUTYLMASTIC TAPE SEALANT
BRK	BRICK
BRS	BUTYL RUBBER SEALANT
BTWN	BETWEEN
C/C	CENTER TO CENTER
CAB	CABINET
CCTV	CLOSED CIRCUIT TELEVISION
CB	CATCH BASIN
CF	CUBIC FOOT / FEET
CFRG	CERAMIC FIRE RATED GLASS / GLAZING
CG	CORNER GUARD
CJ	CONTROL JOINT (CONCRETE, CMU)
CJF	CORK JOINT FILLER
CL	CENTER LINE
CLG	CEILING
CLGHT	CEILING HEIGHT
CLO	CLOSET
CLR	CLEAR OPENING
CLSRM	CLASSROOM
COL	COLUMN
CONC	CONCRETE
CONCP	CONCRETE PAINTED
COND	CONDITION
CONFIG	CONFIGURATION
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET (WALL TO WALL)
CMU	CONCRETE MASONRY UNIT
CMUP	CMU PAINTED
CO	CLEAN OUT
COORD	COORDINATE
CT	CERAMIC TILE
DEMO	DEMOLITION / DEMOLISH
DES	DESIGN
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWN SPOUT
DTL	DETAIL
DWG	DRAWING
DWM	DEPARTMENT OF WATER MANAGMENT
EA	EACH
EC	EXPOSED CONSTRUCTION / ELECTRICAL CONTRACTOR
ECP	EXPOSED CONSTRUCTION PAINTED
EFTS	EXPANDING FOAM TAPE SEALANT
EIFS	EXTERIOR INSULATED FINISH SYSTEM EIFS
EJ	EXPANSION JOINT (BRICK MASONRY)
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATION / ELEVATIONS
EM	EMERGENCY
ENCL.	ENCLOSURE
EPEJF	EXPANDED POLYURETHANE JOINT FILLER
EQ	EQUIVALENT
ETC	ET CETERA
EX	EXISTING
EXH	EXHAUST
EXIST'G	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FACP	FIRE ALARM CONTROL PANEL
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDTN	FOUNDATION
FE	ABC FIRE EXTINGUISHER (SURFACE MOUNTED)
FEC	ABC FIRE EXTINGUISHER +CABINET, RATED AS REQ'D
FHS	FIRE HOSE STATION
FIN	FINISH
FIXT	FIXTURE(S)
FLR	FLOOR
FLSHG	FLASHING
FF & E	FURNITURE FURNISHINGS AND EQUIPMENT
F.F.E	FINISHED FLOOR ELEVATION
FOOT	
F.T.	FIRE TREATED
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFCMU	GROUND FACED CONCRETE MASONRY UNIT(S)
GL	GLASS
GRND	GROUND
GSF	GROSS SQUARE FOOT / FEET
GYP	GYPSUM
GWB	GYPSUM WALL BOARD
H	HEIGHT
HB	HARD BOARD
HC	HOLLOW CORE
HD	HOT-DIPPED (GALVANIZED)
HDWR	HARDWARE
HNCG	HOLLOW NEOPRENE COMPRESSION GASKET
HORIZ	HORIZONTAL
HM	HOLLOW METAL
HP	HIGH POINT
HR	HOUR
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HTG	HEATING
IAC	ILLINOIS ACCESSIBILITY CODE
IE	THAT IS
ID	INSIDE DIAMETER
IN.	INCH
INCL	INCLUDE(ING)
INFO	INFORMATION
INSUL	INSULAT(ED), (ION)
INT	INTERIOR
INV	INVERT

JC	JANITOR'S CLOSET
J-BOX	JUNCTION BOX
JT	JOINT
KIT	KITCHEN
L	LENGTH, LONG
LAM	LAMINATED
LAV	LAVATORY
LBL	LABEL
LF	LINEAL FOOT / LINEAL FEET
LP	LOW POINT
LR	LIVING ROOM
LS	LIMESTONE
LT	LIGHT
LVL	LEVEL
MAS	MASONRY
MACH	MACHINE
MATL	MATERIAL(S)
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDIUM
MEP	MECH., ELEC. & PLBG.
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
MULL	MULLION
MV	WATER METER VAULT
NC	NOISE CRITERIA
NFWH	NON-FREEZE WALL HYDRANT
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPEN'G	OPENING
OPER	OPERABLE
OPP	OPPOSITE
PART	PARTITION
PBMR	PRE-SHIMMED BUTYL MASTIC
PC	PIECE
PCS	PIECES
PERP	PERPENDICULAR
PL	PLASTIC OR PLATE
PL LAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLWD	PLYWOOD
PNL	PANEL
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREP	PREPARE / PREPARATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTD	PAINTED FINISH
QT	QUARRY TILE
QTY	QUALITY
QUANT	QUANTITY
R	RISER
RAD	RADIUS
RAD COVER	FIN-TUBE RADIATOR COVER
RB	RESILIENT BASE
RD	ROOF DRAIN
REC	RECESSED
REF	REFERENCE
REF/FRZR	REFRIGERATOR / FREEZER
REINF	REINFORCED
REQ'D	REQUIRED
REQ'S	REQUIREMENTS
RET	RETURN(ED)
REV	REVISION
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SAFB	SOUND ATTENUATION FIRE BLANKET
SC	SOLID CORE
SECT	SECTION
SGT	STRUCTURAL GLAZED TILE
SHLVG.	SHELVING
SHT	SHEET
SHTG	SHEETING
SIM	SIMILAR
SPEC	SPECIFICATION SPEC
SPRKLR	SPRINKLER
SQ	SQUARE
SF	SQUARE FEET
SQ IN	SQUARE INCHES
SS	STAINLESS STEEL
ST	SEALANT TAPE
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STOR	STORAGE
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SURF	SURFACE
SUSP	SUSPENDED
SV	SHEET VINYL
T	TREAD
T/	TOP OF
T+G	TONGUE AND GROOVE
TB	TOWEL BAR
TEL	TELEPHONE
TERR	TERRAZZO
THK	THICK(NESS)
TT	TRAFFIC TOPPING
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
GUTIL	UTILITY(IES)
V	VINYL
VB	VINYL WALL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER
VWB	VINYL WALL BASE
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WIN	WINDOW(S)
WP	WORK POINT
WPR	WATERPROOFING
WR	WATER RESUSTABT
WT	WEIGHT
WV	WATER VAULT
WVNR	WOOD VENEER

SYMBOLS/MATERIAL LEGEND



GENERAL NOTES

1. THESE INSTRUCTIONS TO BIDDERS AND GENERAL CONDITIONS SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.

2. ALL WORK IS TO BE COMPLETED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, RULES, REGULATIONS, AND STANDARDS, INCLUDING, BUT NOT LIMITED TO THE CHICAGO BUILDING CODE, THE ILLINOIS BUILDING CODE, THE ILLINOIS HANDICAPPED CODE, THE ILLINOIS PLUMBING, MECHANICAL, AND ELECTRICAL CODES, THE ILLINOIS FIRE CODE, THE AMERICANS WITH DISABILITIES ACT (ADA), AND APPLICABLE TRADE STANDARDS. ALL APPLICABLE RULES AND REGULATIONS ARE TO BE THE MOST CURRENT ADOPTED EDITION.

3. THE GENERAL CONTRACTOR (GC) IS RESPONSIBLE FOR OBTAINING ALL STATE AND LOCAL PERMITS REQUIRED FOR THE COMPLETION OF THE PROJECT. THE GENERAL CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTION AND TAXES APPLICABLE TO THIS DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THIS CONTRACT.

4. ALL WORK MATERIALS AND CONSTRUCTION DETAILS MUST COMPLY WITH ANY AND ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING, HEALTH AND FIRE CODES. THIS INCLUDES THE GOVERNING CODES AND ORDINANCES OF THE CITY OF CHICAGO AND OTHER APPLICABLE FEDERAL AND STATE REGULATIONS.

5. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL COMPLY WITH THE LATEST EDITION OF THE O.S.H.A. CONSTRUCTION AND SAFETY MANUAL.

6. THE GC SHALL COORDINATE WITH OWNER AND/OR ARCHITECT ALL PHASING OF CONSTRUCTION OPERATIONS IN ORDER TO MAINTAIN USE OF ALL CRITICAL FUNCTIONS, UTILITIES, SERVICES AND OTHER RELATED ITEMS WITHIN THE EXISTING FACILITIES. COORDINATE WITH ARCHITECT AND/OR OWNER PRIOR TO BIDDING.

7. GC SHALL ADVISE THE ARCHITECT AND OWNER, IN WRITING, OF THE ACTUAL START OF WORK DATE - TO BEGIN IMPLEMENTATION OF THE WORK INDICATED ON THESE DRAWINGS. GC TO FURNISH A GRAPHIC CONSTRUCTION SCHEDULE SHOWING MAJOR TRADES AND FINAL COMPLETION OF SAME.

8. THE ARCHITECT SHALL HAVE THE RIGHT AT ANY TIME TO MAKE ALTERATIONS, ADDITIONS TO AND DEDUCTIONS FROM THE WORK SHOWN ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS WITHOUT VOIDING THE CONTRACT. ALL SUCH ITEMS WILL BE COVERED BY A REVISION DATE TO THE PLANS, WRITTEN JOB ORDER AND/OR SUPPLEMENT TO THE CONTRACT BY THE OWNER AND THE ARCHITECT. THE CONTRACTOR SHALL COMPUTE THE VALUE OF THE WORK AND SUBMIT A PROPOSAL FOR THE APPROVAL OF THE ARCHITECT AND THE OWNER. IN THE CASE OF REVISION, ADDENDUM, OR BULLETIN, THE CONTRACTOR SHALL NOT PROCEED WITH CHANGES WITHOUT AN AUTHORIZED JOB ORDER OR SUPPLEMENT TO THE CONTRACT.

9. ANY CHANGES, SUBSTITUTION, OMISSION, OR OTHER DEVIATIONS FROM THESE DRAWINGS DURING OR BEFORE CONSTRUCTION OF THE BUILDING SHALL NOT BE THE RESPONSIBILITY OF THE ARCHITECT UNLESS AUTHORIZED IN WRITING BY THE ARCHITECT, OR HIS CONSULTANTS. CHANGES NOT APPROVED SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

10. THE GC, WITHOUT EXTRA CHARGE, SHALL MAKE SUCH SLIGHT ALTERATION: CUTTING FITTING OR PATCHING OF HIS WORK AS MAY BE NECESSARY TO MAKE ADJUSTABLE PARTS FIT TO FIXED PARTS, LEAVING ALL COMPLETE AND IN PROPER CONDITION WHEN COMPLETED.

11. ALL CONTRACTORS ARE REQUIRED TO VISIT THE JOBSITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR PROPOSAL. EACH INDIVIDUAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS FOR FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY PRIOR TO SUBMITTING BIDS AND/OR PROCEEDING WITH ANY WORK. SHOULD ANY CONTRACTOR FIND DISCREPANCIES IN, OR OMISSION FROM THE DRAWINGS, OR SPECIFICATIONS, OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE ARCHITECT AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS OR THE WORK OF OTHER TRADES PRIOR TO OBTAIN CLARIFICATION PRIOR TO SUBMITTING BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED TO INDICATE NO DISCREPANCIES OR CONFLICTS EXIST. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER THE AWARD OF THE CONTRACT FOR ANY WORK REQUESTED TO COMPLY WITH THESE REQUIREMENTS.

12. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR AND HIS RESPECTIVE SUBCONTRACTORS TO KEEP THE BUILDING AND ADJOINING PREMISES FREE AT ALL TIMES FROM THE ACCUMULATION OF DEBRIS CAUSED AS A RESULT OF THE WORK PERFORMED EACH DAY OF CONSTRUCTION.

13. THE GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY BARRIERS OR PARTITIONS DURING CONSTRUCTION TO PREVENT SPREAD OF DUST OR OTHER RELATED MATERIALS. VERIFY AND COORDINATE LOCATIONS WITH THE ARCHITECT AND/OR OWNER. CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITWAYS AT ALL TIMES.

14. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEMOLITION MATERIAL. REMOVAL OF DEBRIS AND DUMPSTER LOCATION MUST BE COORDINATED WITH OWNER/PROPERTY MANAGER.

15. THE METHOD OF ATTACHING NEW CONSTRUCTION TO EXISTING BUILDING STRUCTURE WILL BE IN ACCORDANCE WITH OWNERS CRITERIA AND AS REQUIRED BY CODE.

16. ALL MATTERS OF AESTHETIC EFFECT MUST BE DETERMINED BY THE ARCHITECT.

17. UNLESS OTHERWISE NOTED: WHERE EXISTING PARTITION AND WALLS ARE TO BE REMOVED, CONTRACTOR SHALL REMOVE OR RELOCATE ALL EXISTING ELECTRICAL CONDUITS, PLUMBING AND OTHER RELATED ITEMS SO AS TO RECEIVE NEW CONSTRUCTION. NON-RELOCATED LIGHT FIXTURES, SPEAKERS, ETC., WILL BE TURNED BACK TO OWNER OR DISPOSED OF AT HIS DIRECTION.

18. WHERE EXISTING ITEMS ARE TO BE RELOCATED AND/OR REINSTALLED, THE CONTRACTOR SHALL INSTALL SUCH ITEMS EQUALING OR EXCEEDING THE QUALITY OF EXISTING INSTALLATION BOTH STRUCTURALLY AND AESTHETICALLY. CONTRACTOR TO VERIFY PROCEDURE WITH THE ARCHITECT.

19. IN ALL AREAS WHERE EXISTING CONDITIONS ARE ALTERED, NEW MATERIALS, PARTITIONS, OR PRODUCTS ARE INSTALLED, THE CONTRACTOR SHALL PATCH AND FINISH FLOORS, WALLS, CEILINGS AND OTHER AFFECTED AREAS TO MATCH EXISTING CONDITIONS.

20. CONTRACTOR TO REPLACE OR CORRECT ANY AND ALL EXISTING CONSTRUCTION TO REMAIN, TO MATCH THAT DAMAGED BY CONSTRUCTION AND/OR INSTALLATION PROCESS AT NO ADDITIONAL COST TO THE OWNER.

21. CONTRACTORS TO REPLACE ALL DAMAGED AND/OR MISSING CEILING GRID. REPLACE ALL DAMAGED, DISCOLORED OR MISSING CEILING TILES WITH NEW TO MATCH EXISTING.

22. ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER ENGINEERING DRAWINGS FOR ELECTRICAL AND TELEPHONE OUTLETS AND LIGHT FIXTURE LOCATIONS. G.C. TO NOTIFY ARCH. OF DISCREPANCIES.

23. GENERAL CONTRACTORS SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL FLOOR AND WALL SLEEVES, CONDUIT AND ALL MECHANICAL SHAFTS WITH THE MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL DRAWINGS.

24. DIMENSIONS SHOWN ARE TO FINISH FACE OF WALL, UNLESS SPECIALTY NOTED OTHERWISE. PARTITION THICKNESS AND CONSTRUCTION ARE DESIGNATED BY PARTITION TARGETS-REFER TO PARTITION DETAILS FOR REQUIREMENTS.

25. CONTRACTORS TO MEET WITH BUILDING MANAGEMENT PRIOR TO BEGINNING OF WORK TO UNDERSTAND BUILDING RULES, HOURS OF WORK, REMOVAL OF DEBRIS, ETC.

26. ANY SHUTDOWNS WILL BE COORDINATED WITH BUILDING MANAGEMENT.

27. ALL WORK IS TO BE COORDINATED BY THE GENERAL CONTRACTOR TO ASSURE ADEQUATE FIT, FINISH, SYSTEM OPERATION, AND FULL COMPLETION OF THE WORK, INCLUDING SERVICE REQUIREMENTS OF THE OWNERS FIXTURES, FURNISHING AND EQUIPMENT.

28. ALL DIMENSIONS ARE SHOWN ON DRAWINGS. ANY DIMENSIONS NOT SHOWN OR DEEMED QUESTIONABLE ARE TO BE VERIFIED WITH THE ARCHITECT DESIGNER. DO NOT SCALE DRAWINGS.

29. CONTRACTOR IS TO SIGN EACH SHOP DRAWING SUBMITTAL CERTIFYING THAT THE SUBMITTAL HAS BEEN REVIEWED, APPROVED, AND THAT THE CONTRACTOR COORDINATION HAS BEEN APPROVED.

30. DURING THE ENTIRE PERIOD OF DEMOLITION AND CONSTRUCTION, ALL EXISTING EXITS, EXIT LIGHTING, FIRE PROTECTION DEVICES, AND ALARMS SHALL BE CONTINUOUSLY MAINTAINED IN WORKING ORDER.

31. ALL WOOD WILL BE FIRE RETARDANT TREATED TO COMPLY WITH APPLICABLE CODES.

32. PROVIDE CONCEALED WOOD OR SHEET METAL F.T. BLOCKING FOR ALL MILLWORK AND SPECIALTY ITEMS AND ACCESSORIES HUNG FROM PARTITIONS. (U.N.O.).

33. ALL FIRE EXT. CABINET LOCATIONS ARE TO BE COORDINATED W/THE ARCHITECT/DESIGNER AND LOCAL FIRE OFFICIAL PRIOR TO INSTALLATION.

34. AT COMPLETION OF JOB, PRIOR TO FINAL PAYMENT, GENERAL CONTRACTOR SHALL PROVIDE ONE COMPLETE MARKED-UP SET OF TRANSPARENCIES AND TWO SETS OF PRINTS WITH AS-BUILT CONDITIONS NOTED AND TWO COPIES OF APPLICABLE WARRANTIES, OPERATIONS MANUAL AND/OR MAINTENANCE INSTRUCTIONS.

35. MOVING OF EXISTING KITCHEN EQUIPMENT, EXISTING. DINING ROOM FURNITURE, EXISTING LIBRARY FURNITURE, BOOKS, EQUIPMENT, ETC. BY OWNER.

36. CONTRACTOR TO COORDINATE ALL ACTIVITIES TO FACILITATE WORK. CONTRACTOR TO PROVIDE 5 BUSINESS DAY ADVANCED NOTICE TO CPS PRIOR TO COMMENCEMENT OF WORK.

37. GENERAL CONTRACTOR IS TO COORDINATE WITH SUB CONTRACTORS ALL ASPECTS OF WORK AND IS RESPONSIBLE FOR CONTACTING AOR WITH REGARD TO ANY CONFLICTS.

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INDEX OF DRAWINGS

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX

5329 S. OAK PARK AVE.,
CHICAGO, IL
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO
MAYOR RAHM EMANUEL

ILEKIS ASSOCIATES
Architects • Planners
223 WEST JACKSON BLVD.,
SUITE 1000
Chicago, Illinois 60606
MAIN: 312-419-0009
Fax: 312-899-0965
Email info@ilekis.com
www.ilekis.com
Architect of Record

HYDRO-THERMO-POWER INC.
CHICAGO, ILLINOIS
MECHANICAL, ELEC., PLUMBING & FP ENGINEER OF RECORD

STEARN - JOGLEKAR, LTD
CHICAGO, ILLINOIS
STRUCTURAL ENGINEER OF RECORD

MILHOUSE ENGINEERING & CONSTRUCTION, INC.
CHICAGO, ILLINOIS
CIVIL ENGINEER OF RECORD

SITE DESIGN GROUP
CHICAGO, ILLINOIS
LANDSCAPE ARCHITECT

SHINER & ASSOCIATES, INC.
CHICAGO, ILLINOIS
ACOUSTICAL ENGINEER

MVP SERVICES GROUP
CHICAGO, ILLINOIS
FOOD SERVICES CONSULTANT

ECOVIDAL DESIGN INC.
CHICAGO, ILLINOIS
LEED CONSULTANT

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE APPLICABLE CODES AND BUILDING REGULATIONS.

ALPHONSE A. ILEKIS, AIA

"WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE SCHOOL HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2. REGARDLESS OF CONCENTRATIONS, THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES. FOR ALL SMALL SCALE DISTURBANCES, THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MIGRATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE, WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION PROJECT SPECIFICATIONS." WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

ISSUANCE

MARK	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	10/25/2016
2	ISSUED FOR DESIGN DEVELOPMENT	12/06/2016
3	ISSUED FOR 60% REVIEW	01/31/2017
4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

1

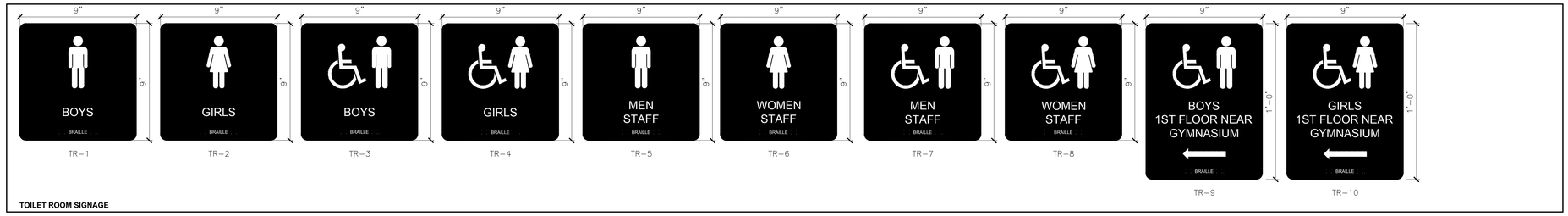
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618–01 G1.01

TITLE

INDEX OF DRAWINGS

SHEET

G1.01

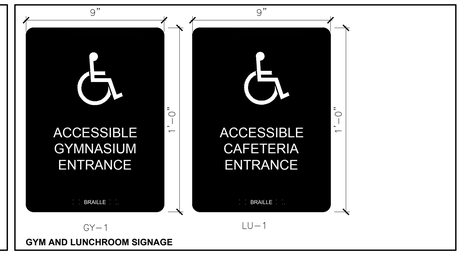


TOILET ROOM SIGNAGE

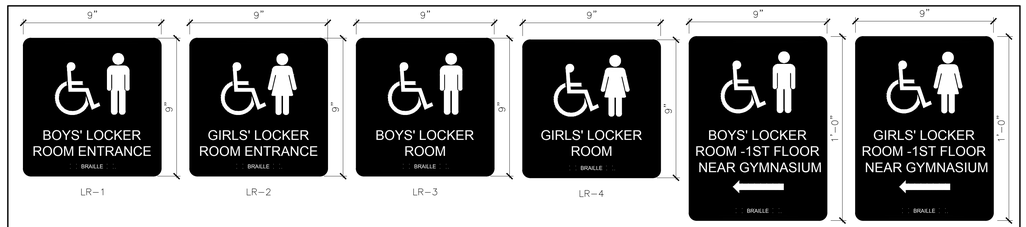
UNISEX SIGNAGE

NOTE: USE WITH SIGN IN-2

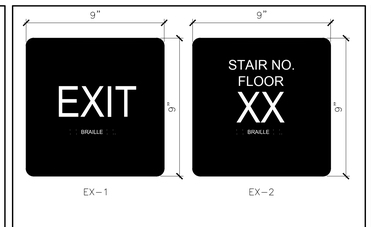
SWIMMING POOL SIGNAGE



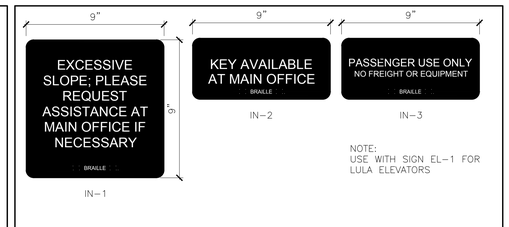
GYM AND LUNCHROOM SIGNAGE



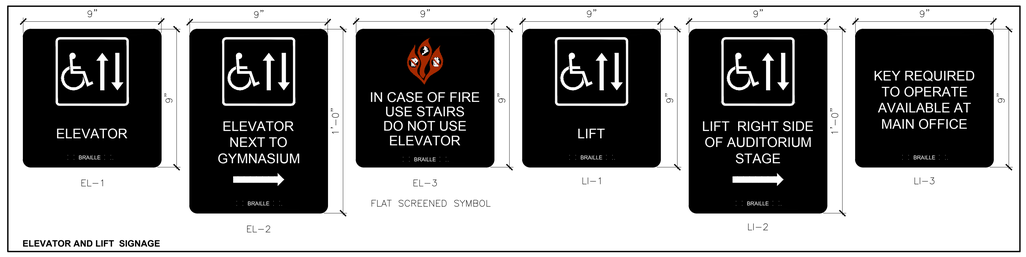
LOCKER ROOM SIGNAGE



EXIT SIGNAGE

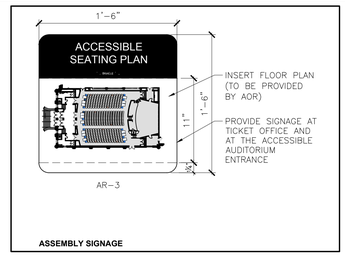


INFORMATIONAL SIGNAGE



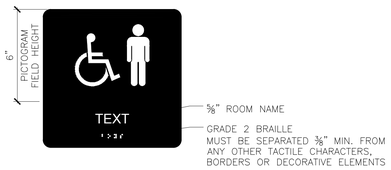
ELEVATOR AND LIFT SIGNAGE

ASSEMBLY SIGNAGE

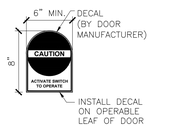


ASSEMBLY SIGNAGE

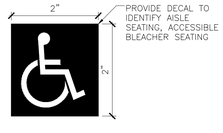
1 TYPICAL INTERIOR SIGNAGE
N.T.S. **(EXAMPLES)**



2 TYPICAL INTERIOR SIGNAGE DETAIL
N.T.S. **(STANDARD)**



3 CAUTION AUTOMATIC DOOR DECAL DETAILS
N.T.S. **(EXAMPLE)**



4 ACCESSIBLE SIGN DECAL DETAILS
N.T.S. **(STANDARD)**

GENERAL NOTES

1. WHEN A DIMENSION ON A DRAWING IS GIVEN, THE CONSTRUCTION TOLERANCE ALLOWED BY CPS IS + ¼" TO – ¼" OF THE DIMENSION ON THE DRAWING.
2. WHEN A RANGE IS GIVEN FOR A DIMENSION ON A DRAWING, THERE IS NO CONSTRUCTION TOLERANCE ALLOWED BY CPS. THE ITEM MUST BE INSTALLED IN THE RANGE INDICATED.
3. ALLOW FOR ACCESSIBILITY SYMBOL AND MALE/FEMALE PICTOGRAM ON TOILET ROOM SIGNS.
4. THE EXACT LOCATION OF ALL SIGNAGE WILL BE DETERMINED BY ACTUAL FIELD CONDITIONS. IF CONFLICTS OCCUR WITH THE PLACEMENT OF SIGNAGE SHOWN ON DRAWINGS AND EXISTING STRUCTURES AND APPURTENANCES, THE CONTRACTOR WILL COORDINATE WITH THE ARCHITECT AND BUILDING ENGINEER BEFORE FINAL INSTALLATION. CONTRACTOR WILL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX

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ALPHONSE A. ILEKIS, AIA

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8	ADDENDUM 1	05/16/2017
9		
10		

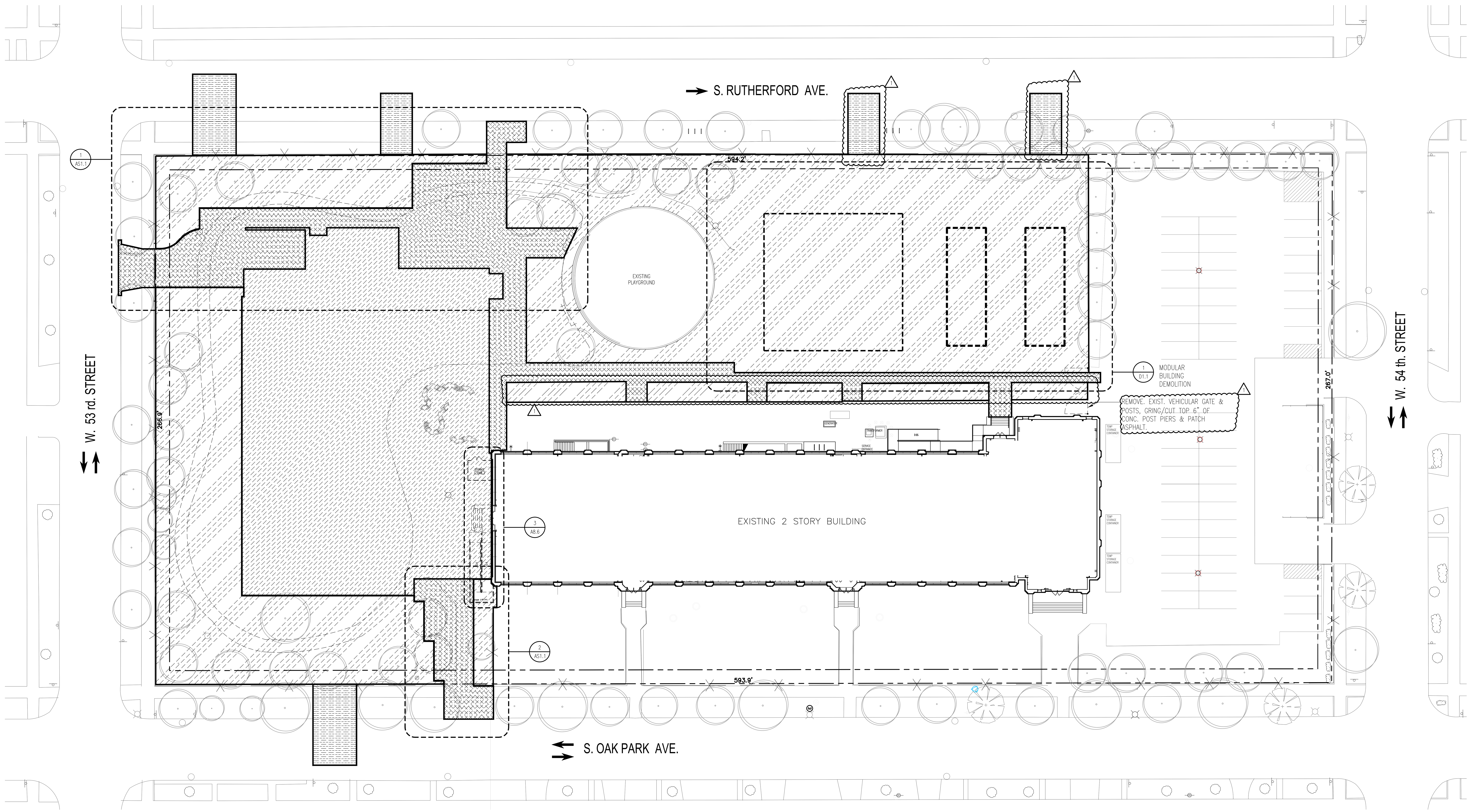
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 ADA.02

TITLE

ADA INTERIOR SIGNAGE DETAILS

SHEET

ADA.02



N

1 DS1.0 **DEMOLITION SITE PLAN**
SCALE: 1"=20'-0"

LEGEND:

2 STORY ANNEX:
REMOVE ALL EXISTING SITE FURNISHINGS, LIGHT POLES, TREES,GROUND/EARTH, STRUCTURES, PAVING, ETC. SEE AND COORDINATE VARIOUS ENLARGED PLANS AS WELL AS CIVIL & LANDSCAPE.

NEW PAVEMENT AND OR LANDSCAPE AREAS:
REMOVE ALL EXISTING SITE FURNISHINGS, LIGHT POLES, TREES, GROUND/EARTH, STRUCTURES, PAVING, ETC. SEE AND COORDINATE VARIOUS ENLARGED PLANS AS WELL AS CIVIL & LANDSCAPE.

SITE WORK:
REMOVE ALL EXISTING SITE FURNISHINGS, LIGHT POLES, TREES, GROUND/EARTH, STRUCTURES, PAVING, ETC. SEE AND COORDINATE VARIOUS ENLARGED PLANS AS WELL AS CIVIL & LANDSCAPE.

UTILITY WORK – COORDINATE WITH CIVIL

CITY REVIEW

PUBLIC BUILDING COMMISSION

Chicago Public Schools

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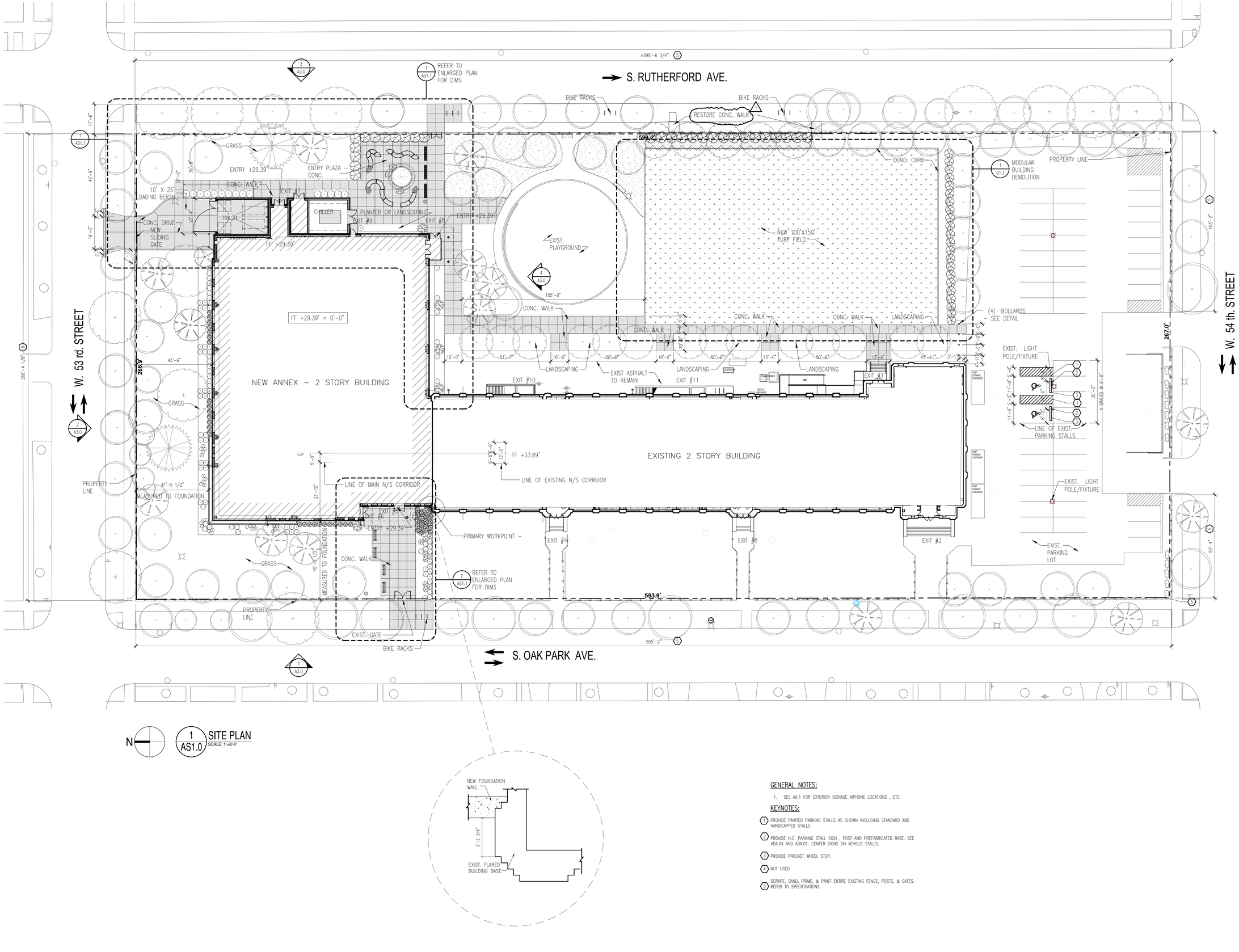
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 DS1.0

TITLE
DEMOLITION SITE PLAN

SHEET
DS1.0



1 AS1.0 SITE PLAN
SCALE: 1"=20'-0"

GENERAL NOTES:

1. SEE A0.1 FOR EXTERIOR SIGNAGE AIPHONE LOCATIONS , ETC.

KEYNOTES:

1. PROVIDE PAINTED PARKING STALLS AS SHOWN INCLUDING STANDARD AND HANDICAPPED STALLS.
2. PROVIDE H.C. PARKING STALL SIGN , POST AND PREFABRICATED BASE. SEE ADA.04 AND ADA.01. CENTER SIGNS ON VEHICLE STALLS.
3. PROVIDE PRECAST WHEEL STOP.
4. NOT USED
5. SCRAPE, SAND, PRIME, & PAINT ENTIRE EXISTING FENCE, POSTS, & GATES. REFER TO SPECIFICATIONS

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX

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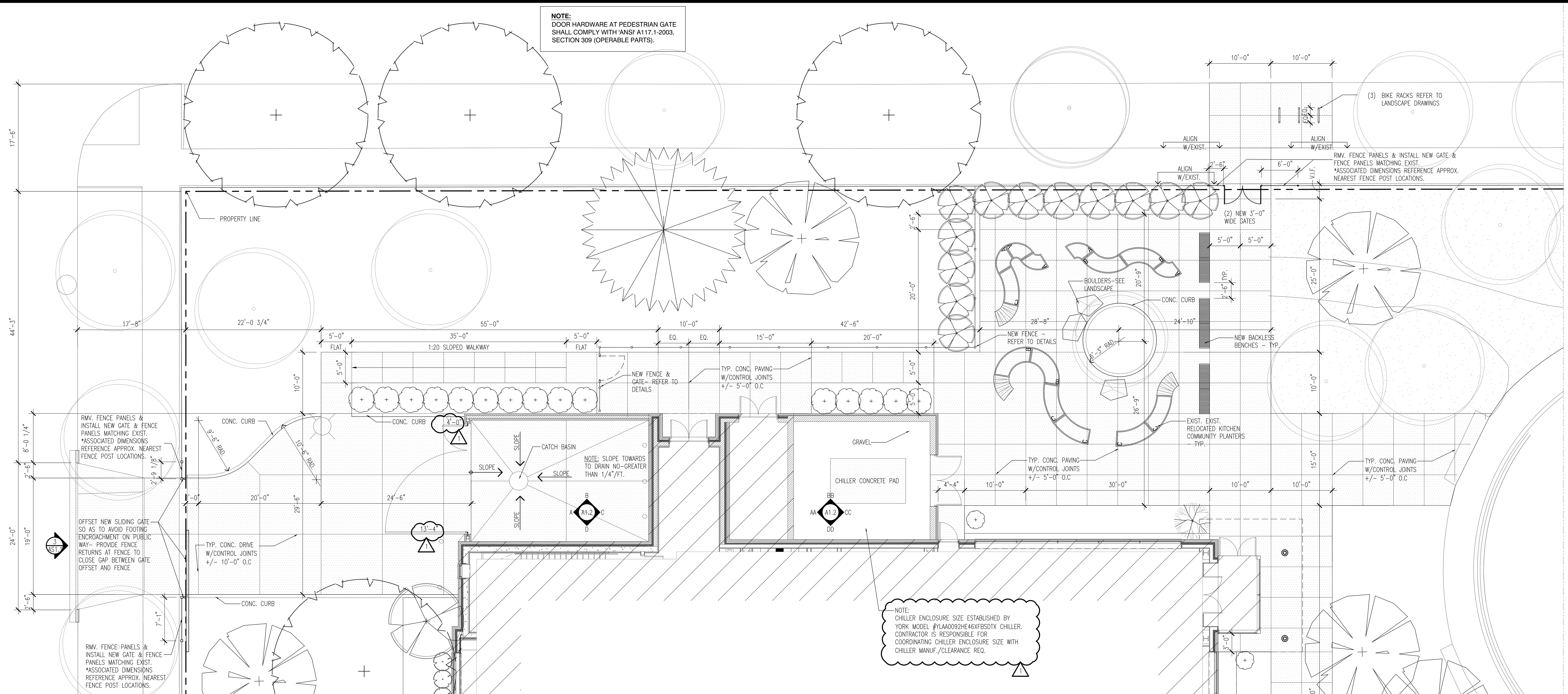
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 AS1.0

TITLE
ARCHITECTURAL SITE PLAN

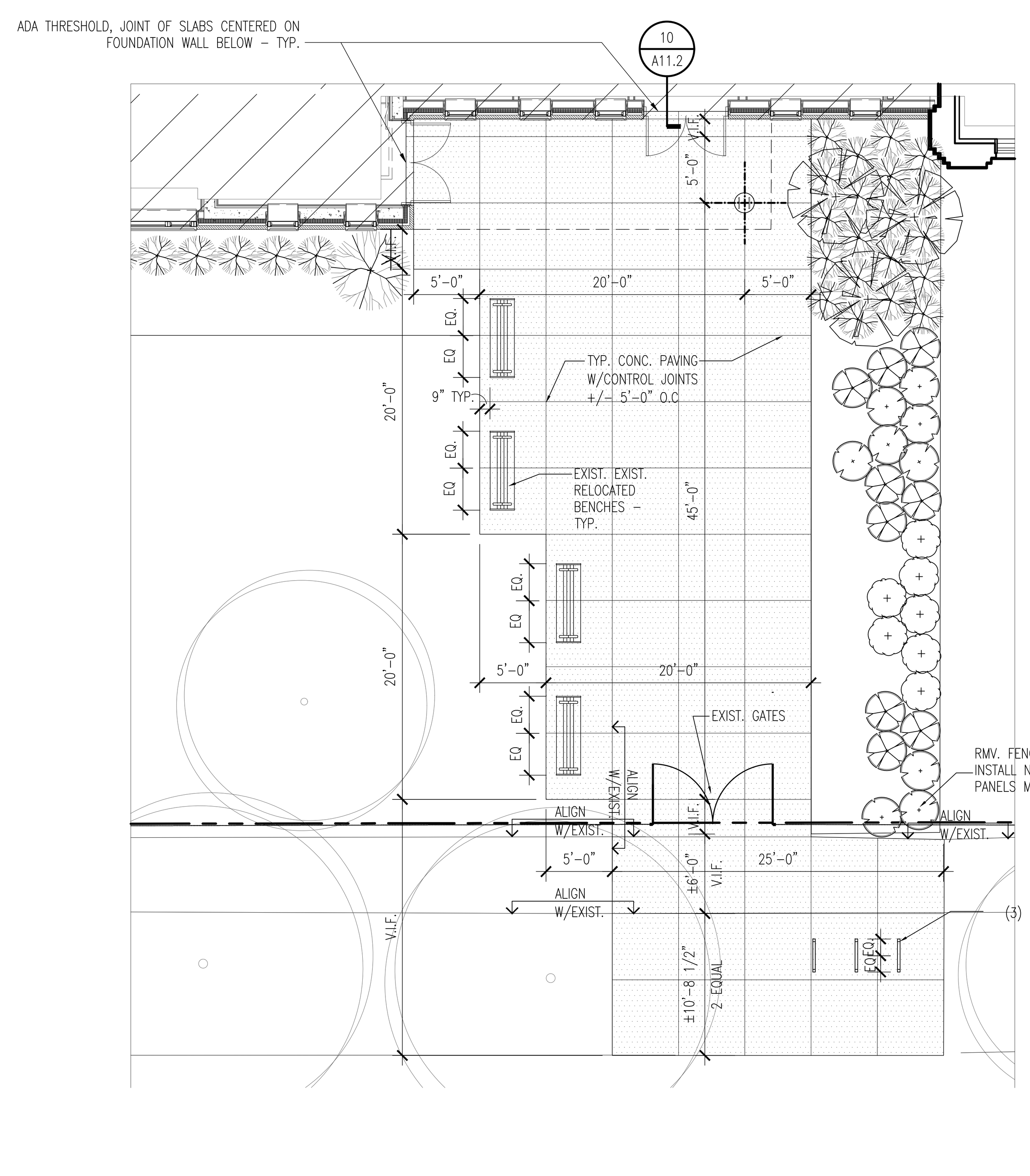
SHEET
AS1.0

NOTE:
DOOR HARDWARE AT PEDESTRIAN GATE SHALL COMPLY WITH 'ANSI' A117.1-2003, SECTION 309 (OPERABLE PARTS).



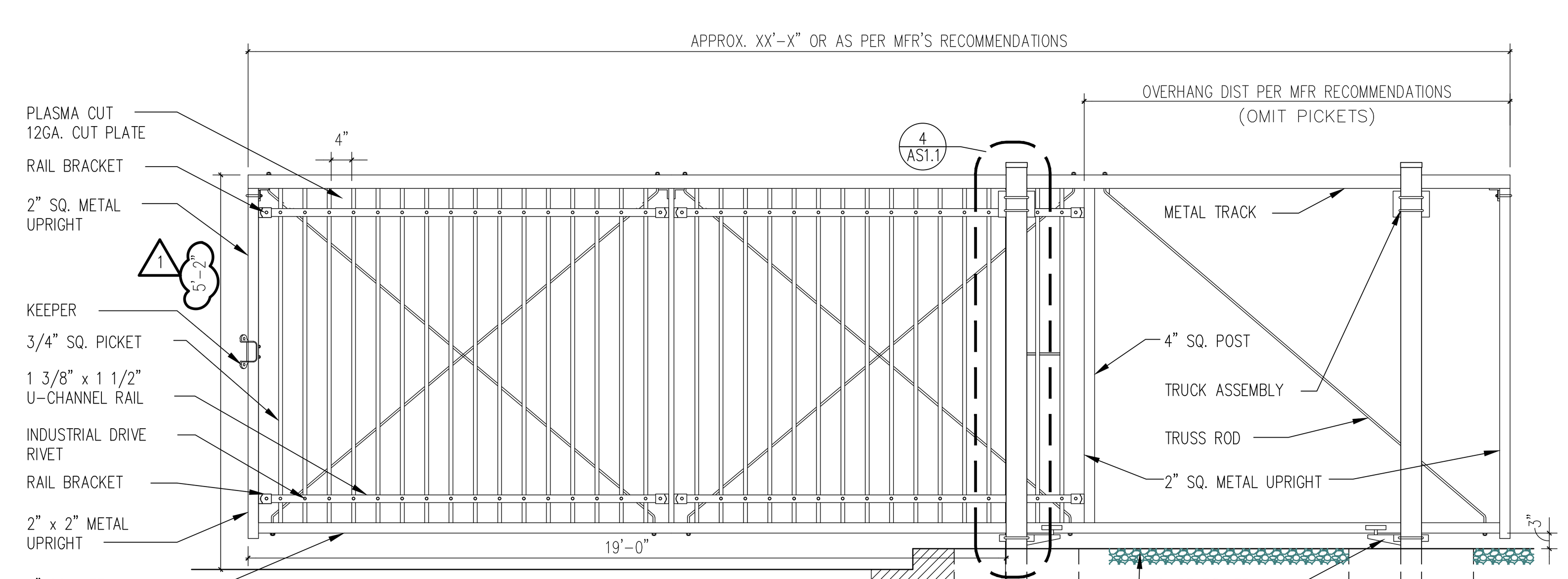
N

1 / AS1.1 ENLARGED SITE PLAN
SCALE: 1/8"=1'-0"



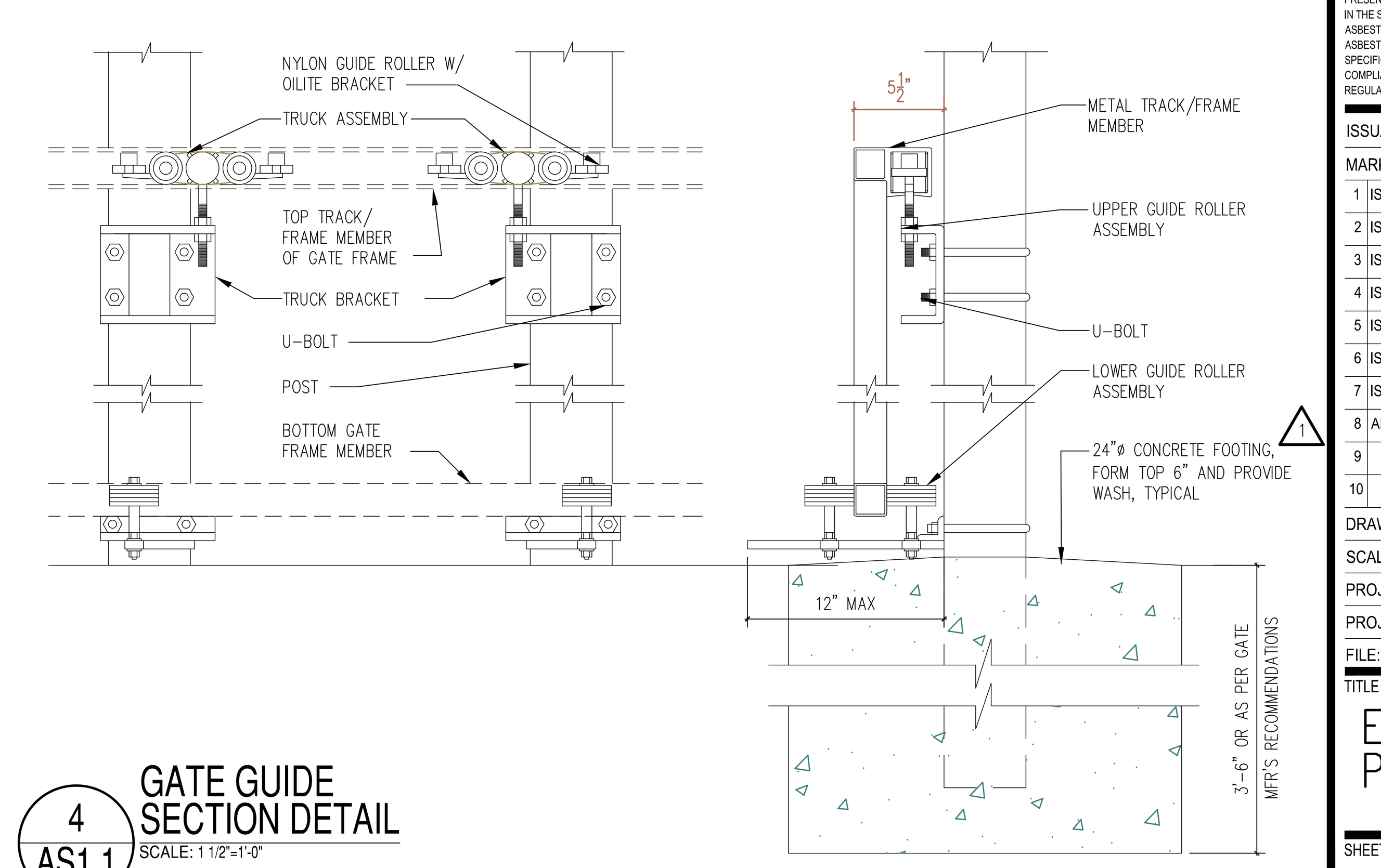
N

2 / AS1.1 ENLARGED SITE PLAN
SCALE: 1/8"=1'-0"



NOTE:
CANTILEVER SLIDE GATE DETAILS ON THIS SHEET ARE BASED UPON A STOCK MODEL FROM "MONUMENTAL IRON WORKS" (IMPERIAL 'D' STYLE W/ 4 HOR. RAILS & 1 ROW RINGS). GATE IS TO BE INSTALLED PER MFG. RECOMMENDATIONS. ALL SUBSTITUTIONS MUST BE APPROVED BY THE ARCHITECT.

3 / AS1.1 CANTILEVER GATE ELEVATION
SCALE: 1/2"=1'-0"



4 / AS1.1 GATE GUIDE SECTION DETAIL
SCALE: 1 1/2"=1'-0"

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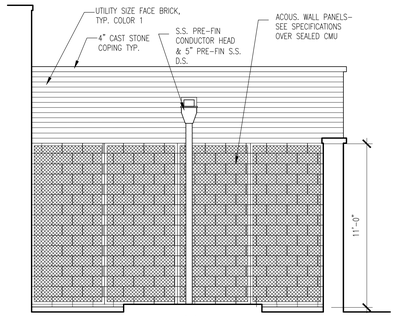
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 AS1.0

TITLE
ENLARGED SITE PLANS & DETAILS

SHEET
AS1.1



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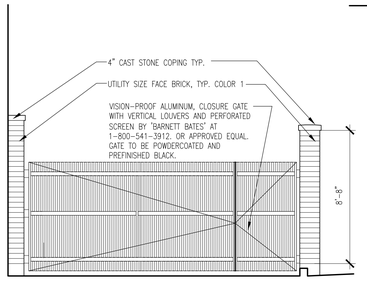

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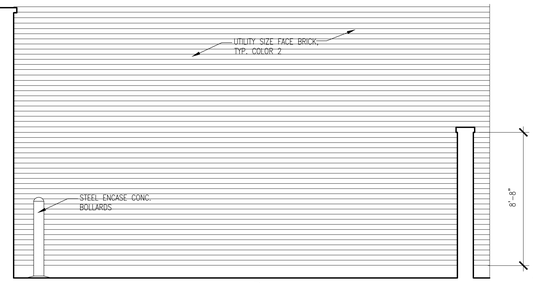

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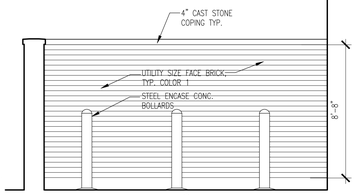

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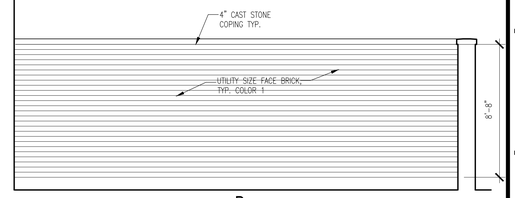
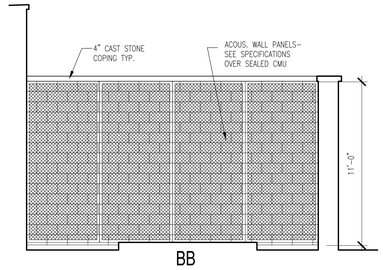


D

2 AS1.2 TRASH ENCLOSURE ELEVATIONS

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

0 1' 2' 4' 8'



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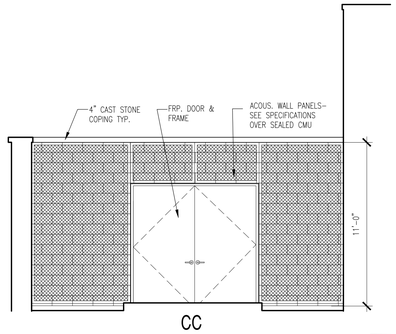

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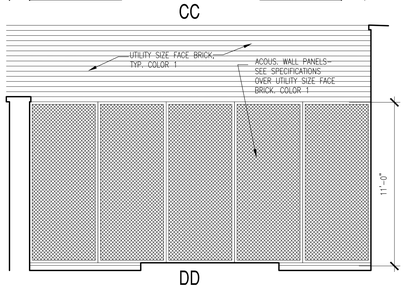


DD

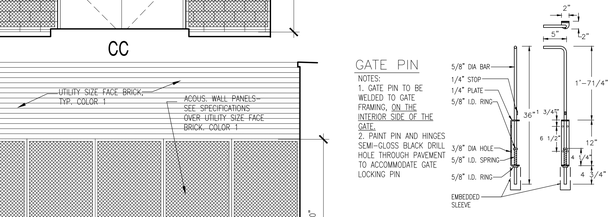
1 AS1.2 CHILLER WELL ENCLOSURE ELEVATIONS

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

0 1' 2' 4' 8'

3 AS1.2 NOT USED

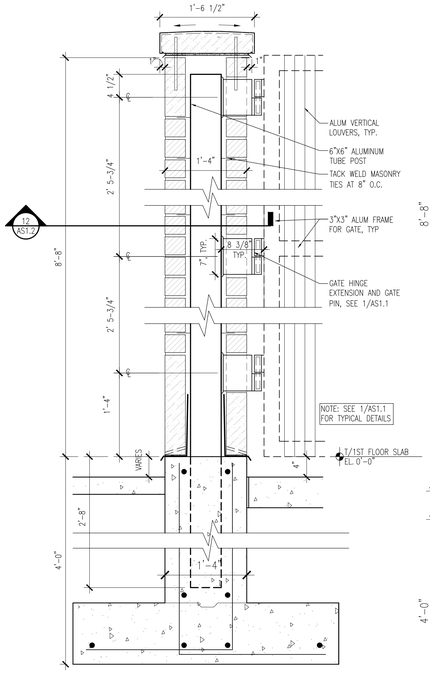
SCALE: 1/4"=1'-0"



4 AS1.2 GATE PIN DETAILS

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

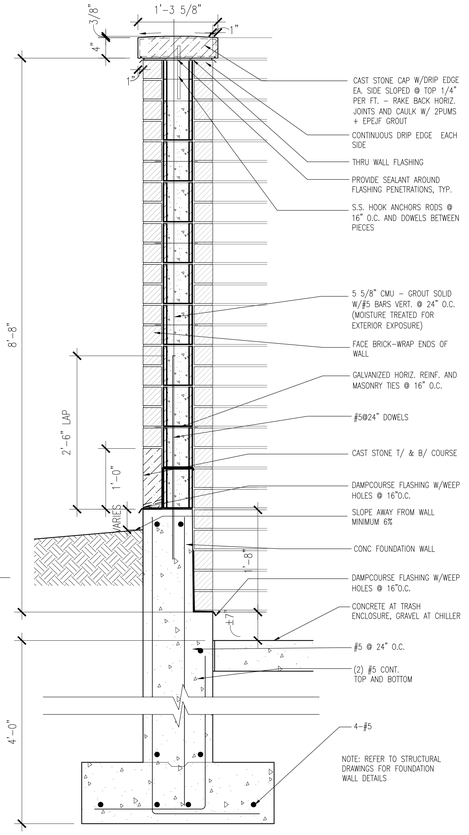
0 4" 9" 1'-6" 3'



5 AS1.2 SECTION THRU GATE POST

SCALE: 1"=1'-0"

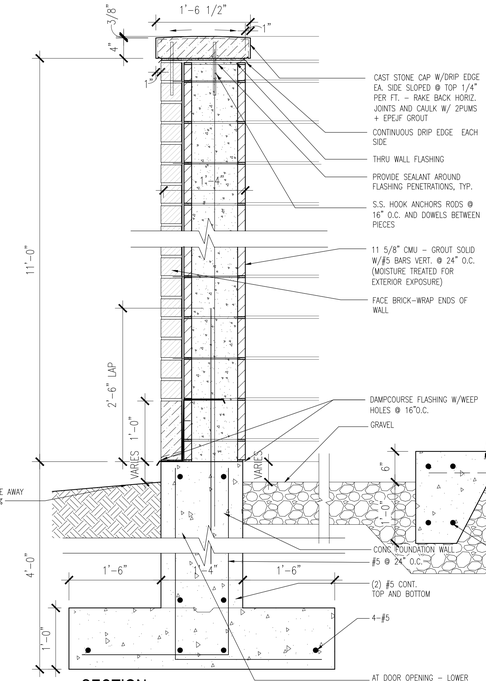
0 3" 6" 12" 24"



6 AS1.1 SECTION - TRASH ENCLOSURE

SCALE: 1"=1'-0"

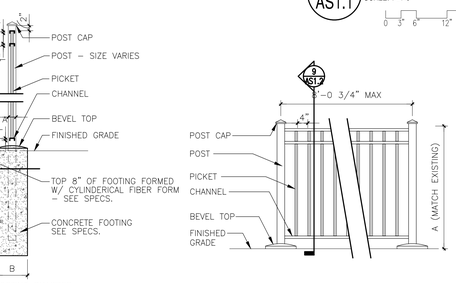
0 3" 6" 12" 24"



7 AS1.1 SECTION - CHILLER ENCLOSURE

SCALE: 1"=1'-0"

0 3" 6" 12" 24"



NOTE:
PROVIDE 1/2" ISOLATION JOINT WHERE BOLLARD FOUNDATION ABUTTS CONCRETE PAVING

8 AS1.2 BOLLARD DETAIL

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

0 6" 1' 2' 4'

POST WIDTH / FOOTING DIAMETER

LOCATION	A POST SIZE	B FOOTING DIAMETER
TYP. INTERMEDIATE POSTS	3" SQ.	12"
CORNER POSTS	4" SQ.	16"
ENTRY GATE POSTS (UP TO 12'-0" WIDE OPENING)	4" SQ.	16"
ENTRY GATE POSTS (UP TO 12'-0" WIDE OPENING)	6" SQ.	24"

9 AS1.2 ORNAMENTAL POST DETAIL

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

0 6" 1' 2' 4'

CROSS REFERENCES:
1. HINGE
2. LOCKING CANES
3. LATCH-SINGLE GATE
4. GATE RECEIVER
5. POST & FOUNDATION
6. GATE SWING DETAIL

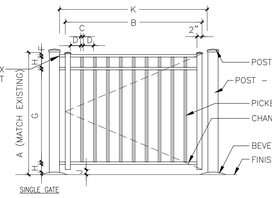
DIMENSIONS:

A	5'-2"	I	1"
B	3'-10 1/2"	J	2" MIN. 6"MAX.
B1	12'-0"	K	4'-5 1/2"
C	1"	K1	9'-6 1/2"
D	4"	G	4'-5"
E	4"		
F	1 1/2"		

10 AS1.2 ORNAMENTAL FENCE DETAIL

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

0 6" 1' 2' 4'

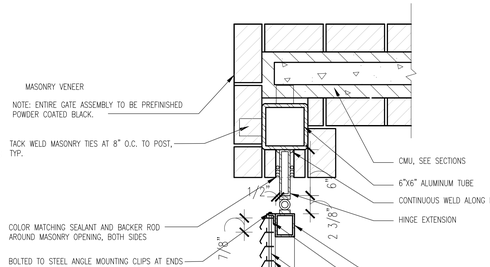


NOTE:
STEEL FENCING IS TO BE PAINTED BLACK. SEE SPECIFICATION SECTION 02822

11 AS1.2 ORNAMENTAL FENCE GATE DETAIL

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

0 6" 1' 2' 4'



12 AS1.2 TRASH VEHICULAR GATE DETAIL

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

0 3" 6" 12" 24"

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX

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ALPHONSE A. ILEKIS, AIA

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3	ISSUED FOR 60% REVIEW	01/31/2017
4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

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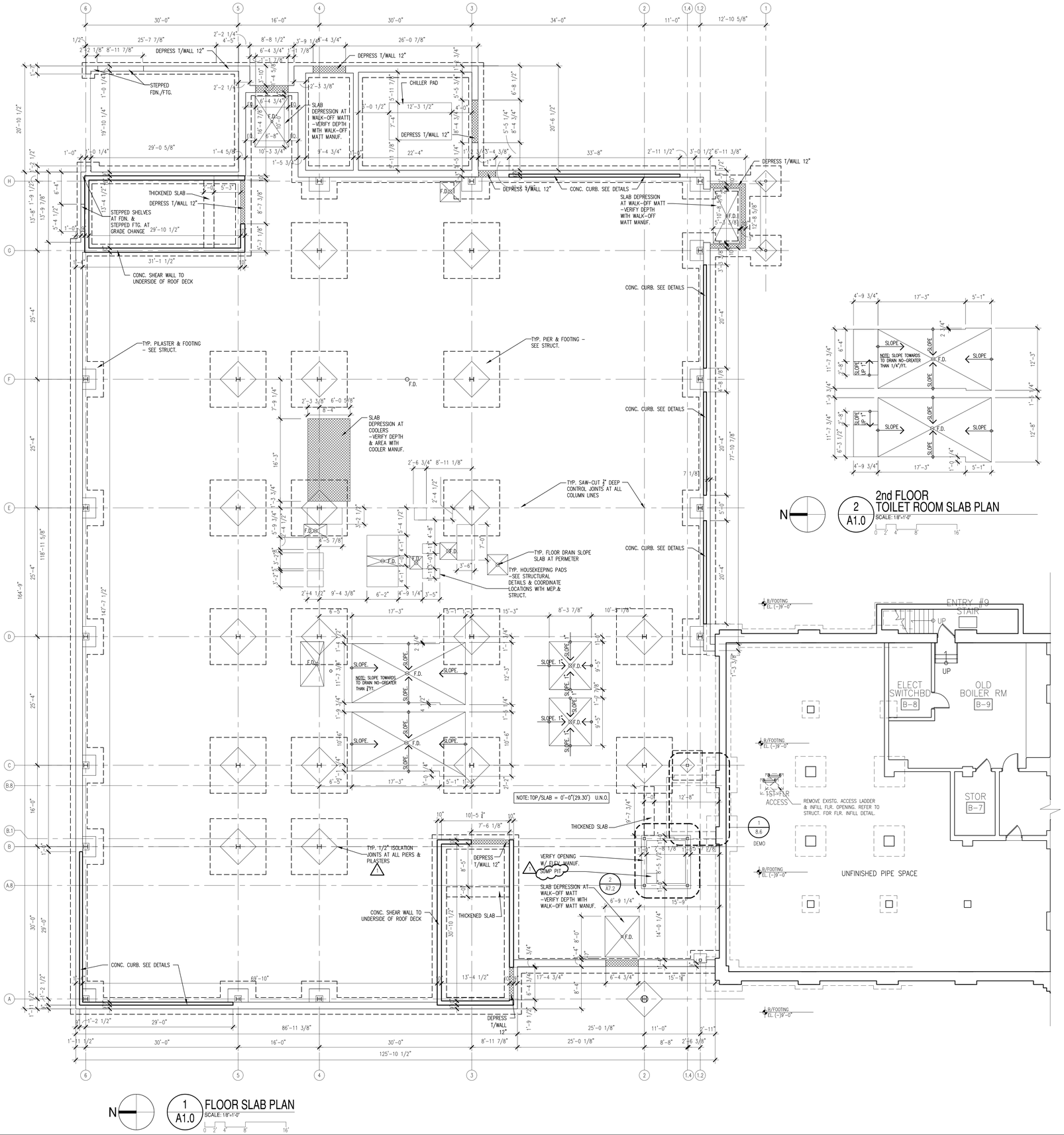
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1608-01 AS1.2

TITLE

SITE PLAN DETAILS

SHEET

AS1.2



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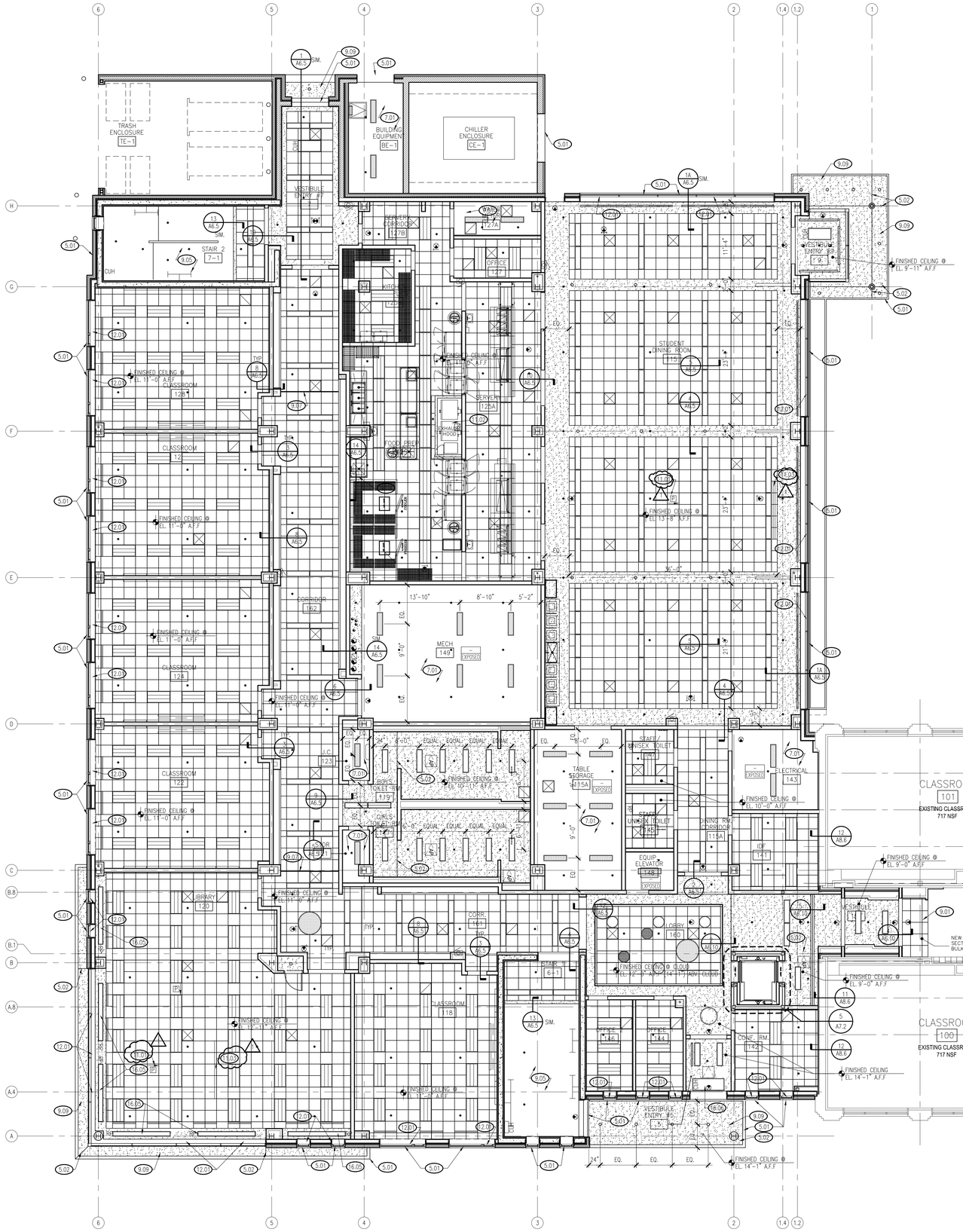
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A1.0

TITLE

SLAB FLOOR PLAN

SHEET

A1.0



N

1 A2.1 FIRST FLOOR REFLECTED CEILING PLAN

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

0 2 4 8 16

NOTE:
ALL FINISHED CEILING HEIGHTS TO BE 11'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.

REFLECTED CEILING ARCHITECTURAL SCOPE OF WORK

NOTE: NOT ALL NOTES USED ON EACH SHEET SCOPE SHOWN ON REFLECTED CEILING PLANS ONLY

DIVISION 5
5.01- PAINTED STEEL LINTEL
5.02- CONTROL JOINT

DIVISION 7
7.01- EXPOSED CONSTRUCTION - PAINT DECK SEE FINISH PLANS- NO PAINT (SPRAY-APPLIED FIREPROOFING BEAMS WHERE REQUIRED)

DIVISION 7
8.01- ACCESS PANEL - SEE SPECIFICATIONS

DIVISION 9
9.01- 2'X2' OR 1'X4' SUSPENDED ACOUSTICAL CEILING TYPE 'B' ON 15/16" GIRD, SEE PLAN
9.02- GYPSUM BOARD CEILING/SOFFIT PAINTED
9.03- 2'x2' SUSPENDED USDA APPROVED TILE TYPE 'C' ON NON-CORROSIVE 15/16" GRID
9.04- PAINTED EXPOSED STRUCTURE, DECK, DUCTWORK, PIPING, CONDUIT, ETC.
9.05- PAINTED EXPOSED STAIR STRUCTURE, INCLUDE CHANNELS, PAN, BEAMS, PLATES, CONNECTIONS, GUARDRAILS, & ASSOCIATED ELEMENTS
9.06- GYPSUM BOARD CEILING CONTROL JOINT WITH CONTINUOUS 1/2" PREFINISHED ALUMINUM REVEAL TO MATCH PAINT COLOR
9.07- SUSPENDED CEILING THERMAL EXPANSION JOINT - SEE DETAILS
9.08- WATER RESISTANT GYPSUM BOARD CEILING PAINTED
9.09- EXTERIOR DUROCK WITH EXTERIOR PLASTER FINISH CEILING
9.10- SHAFT WALL ENCLOSURE ABOVE CEIL.

DIVISION 11
11.01- RECESSED CEILING PROJECTOR
11.02- EXHAUST HOOD
11.03- 12' X 9' MOTORIZED PROJECTOR SCREEN

DIVISION 12
12.01- HEAD MOUNTED MANUAL ROLLER SHADE

DIVISION 15
15.01- DUCT PENETRATION, SEE MECHANICAL DRAWINGS
15.02- NEW MECHANICAL DIFFUSER/GRILLE - SEE MECHANICAL DRAWINGS
15.03- NEW SPRINKLER HEADS - SEE FIRE PROTECTION DRAWINGS SEE DIAGRAM ON THIS SHEET FOR LOCATION IN CEILING TILE

DIVISION 16
16.01- NEW LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
16.02- NEW ELECTRICAL AND DATA DEVICE - SEE ELECTRICAL DRAWINGS COORDINATE LOCATION WITH ELECTRICAL AND MANUFACTURERS RECOMMENDATION FOR INSTALLED EQUIPMENT
16.03- NEW SPEAKER -SEE ELECTRICAL DRAWINGS
16.04- EXIT SIGN - SEE ELECTRICAL DRAWINGS
16.05- RADIANT HEATING PANEL SEE ELECTRICAL
16.06- CABINET UNIT HEATER; SEE MECHANICAL

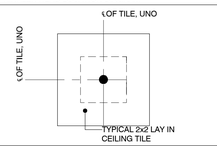
GENERAL NOTES:

1) ALL CEILING GRIDS SHALL BE CENTERED IN ROOMS UNLESS NOTED OTHERWISE.
2) ALL LIGHT FIXTURES AND DIFFUSERS SHALL BE CENTERED ON THE TILE UNLESS NOTED OR INDICATED OTHERWISE.
3) ALL SPRINKLER HEADS SHALL BE CENTERED ON 2'X2' TILE
4) ALL CEILING HEIGHTS ARE SET ABOVE 0'-0".
5) ALL GYPSUM BOARD SOFFITS SHALL HAVE 5/8" REVEAL EDGE AT ADJACENT PARTITIONS EXCEPT WHERE REQUIRED TO BE FIRE TREATED.
6) COORDINATE SPRAY FIREPROOFING REQUIREMENTS WITH EXITING PLANS AND PROJECT SPECIFICATIONS.
7) CONTRACTOR TO COORDINATE LOCATION OF PLUMBING AND MECHANICAL VALVES. TRANSFORMERS AND ASSOCIATIONS ABOVE-CEILING COMPONENTS WITH LOCATIONS OF CEILING ACCESS PANELS IN GYPSUM BOARD AREAS.
8) ALIGN ALL SOFFITS WITH ADJACENT WALL SURFACE AS INDICATED ON THE DRAWINGS
9) REFER TO ELECTRICAL SHEET FOR NIGHT LIGHT LOCATION.

CEILING SYMBOLS KEY

- LED RECESSED LINEAR FIXTURE (SEE ELECTRICAL DRAWINGS)
- LED COVE FIXTURE (SEE ELECTRICAL DRAWINGS)
- 2'x4' LAY-IN FLUORESCENT FIXTURE (SEE ELECTRICAL DRAWINGS)
- 1'x4' FLUORESCENT FIXTURE (SEE ELECTRICAL DRAWINGS)
- 1'x4' FLUORESCENT FIXTURE (SEE ELECTRICAL DRAWINGS)
- 4" RECESSED CAN LIGHT FIXTURE
- 1'x1' FIXTURE (SEE ELECTRICAL DRAWINGS)
- 4' FIXTURE (SEE ELECTRICAL DRAWINGS)
- 2' FIXTURE (SEE ELECTRICAL DRAWINGS)
- 2' FIXTURE (SEE ELECTRICAL DRAWINGS)
- 2'x2' LAY-IN FLUORESCENT FIXTURE (SEE ELECTRICAL DRAWINGS)
- WALL MOUNTED EXIT SIGN (SEE ELECTRICAL DRAWINGS)
- CEILING MOUNTED EXIT SIGN (SEE ELECTRICAL DRAWINGS)
- CEILING RECESSED FIXTURE WITH ROUND TRIM (SEE ELECTRICAL DRAWINGS)
- DISPLAY CASE LIGHT (SEE ELECTRICAL DRAWINGS)
- PROJECTOR
- EMERGENCY LIGHTING UNIT (SEE ELECTRICAL DRAWINGS)
- RETURN AIR DIFFUSER (SEE MECHANICAL DRAWINGS)
- SUPPLY AIR DIFFUSER (SEE MECHANICAL DRAWINGS)
- SUPPLY SLOT DIFFUSER (SEE MECHANICAL DRAWINGS)
- ACCESS PANEL (CEILING) ARE NOT INDICATED COORDINATE WITH MECHANICAL DRAWINGS. FINAL LOCATION COORDINATE WITH ARCHITECT
- SPRINKLER HEAD (SEE FIRE PROTECTION DRAWINGS)
- CEILING MOUNTED SPEAKER (SEE ELECTRICAL DRAWINGS)
- WALL MOUNTED SPEAKER (SEE ELECTRICAL DRAWINGS)
- SMOKE DETECTOR (SEE ELECTRICAL DRAWINGS)
- CARBON MONOXIDE DETECTOR (SEE ELECTRICAL DRAWINGS)
- HEAT DETECTOR (SEE ELECTRICAL DRAWINGS)
- GYPSUM BOARD CEILING (PAINTED)
- WINDOW MOUNTED SHADES AND PREFINISHED HOUSING
- RP RECESSED RADIANT CEILING PANEL COORDINATE WITH MECHANICAL DRAWINGS
- CUH RECESSED CONVECTION UNIT HEATER COORDINATE WITH MECHANICAL DRAWINGS
- OCCUPANCY SENSOR
- PHOTO SENSOR
- PHOTO CELL
- V VISUAL ALARM (SEE ELECTRICAL DRAWINGS)
- WALL MOUNTED VISUAL ALARM (SEE ELECTRICAL DRAWINGS)
- AV AUDIO VISUAL ALARM (SEE ELECTRICAL DRAWINGS)
- RADIANT HEATING PANEL

SPRINKLER HEAD LOCATION DIAGRAM



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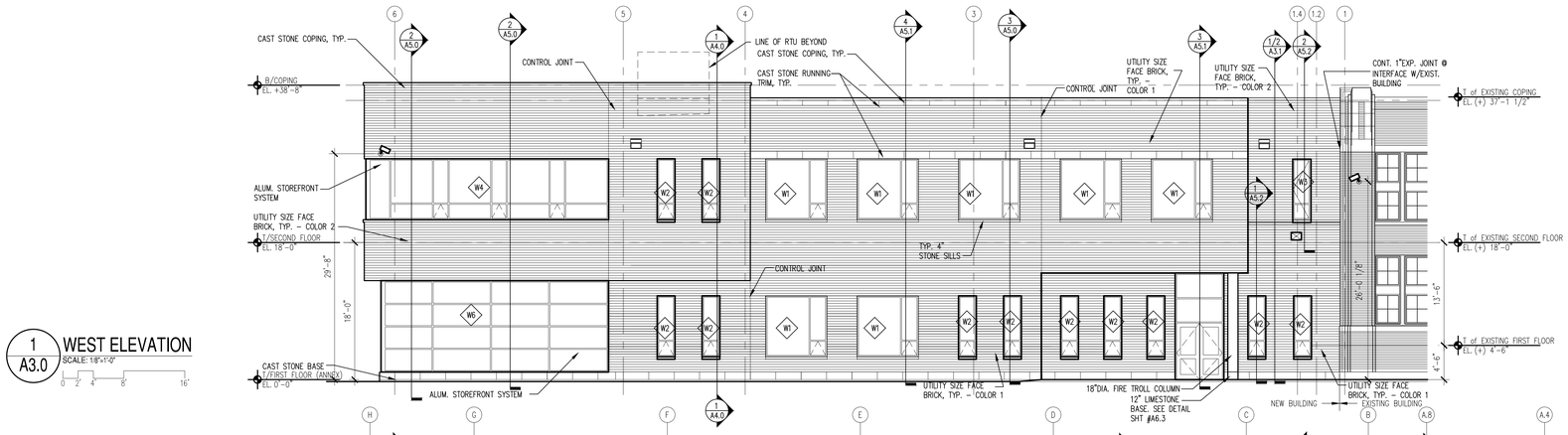
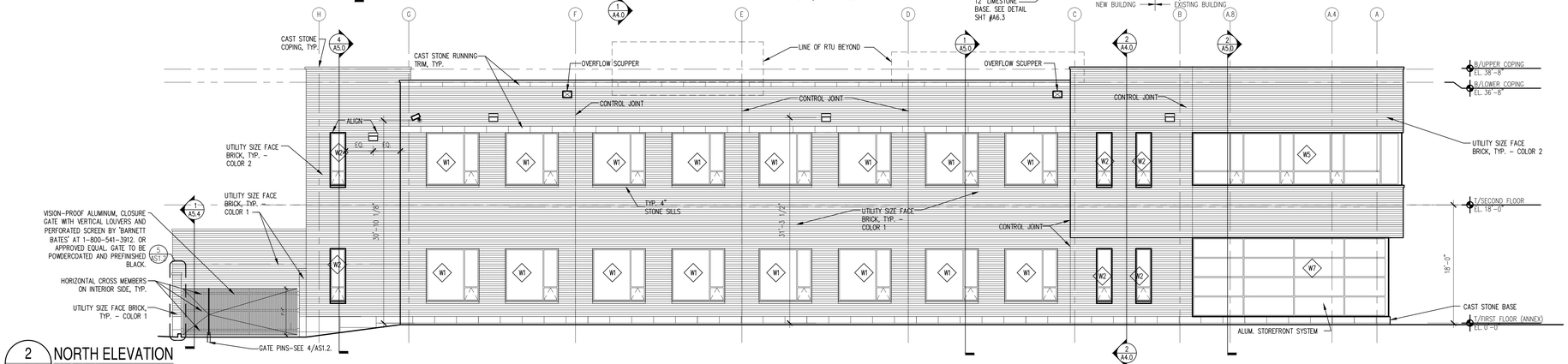
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A1.1

TITLE
1ST FLR. REFLECTED CEILING PLAN

SHEET
A2.1



1 A3.0 **WEST ELEVATION**
SCALE: 1/8"=1'-0"



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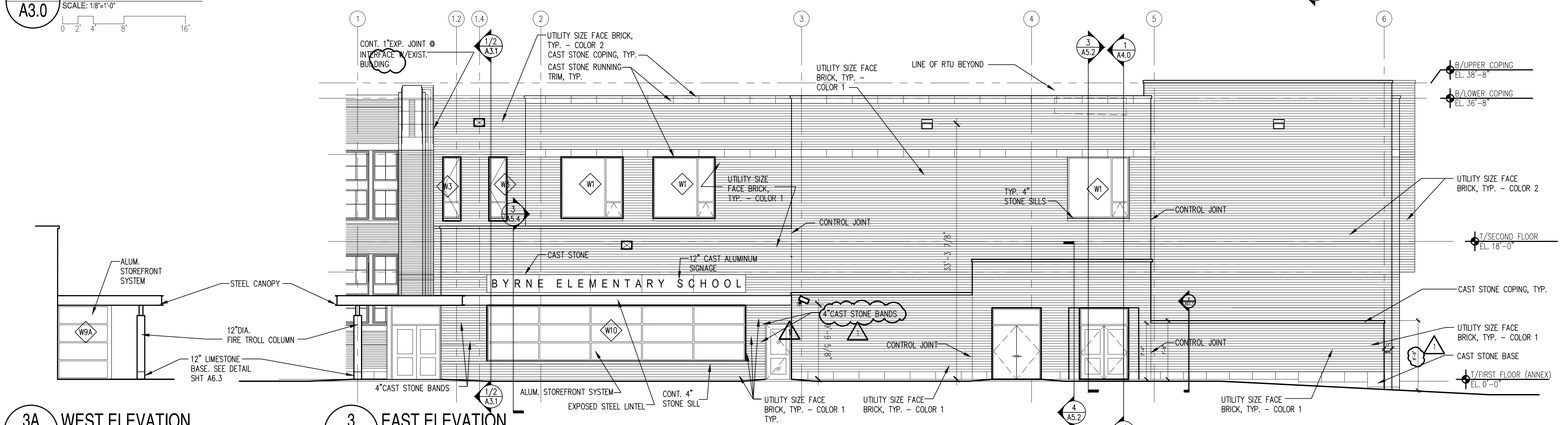
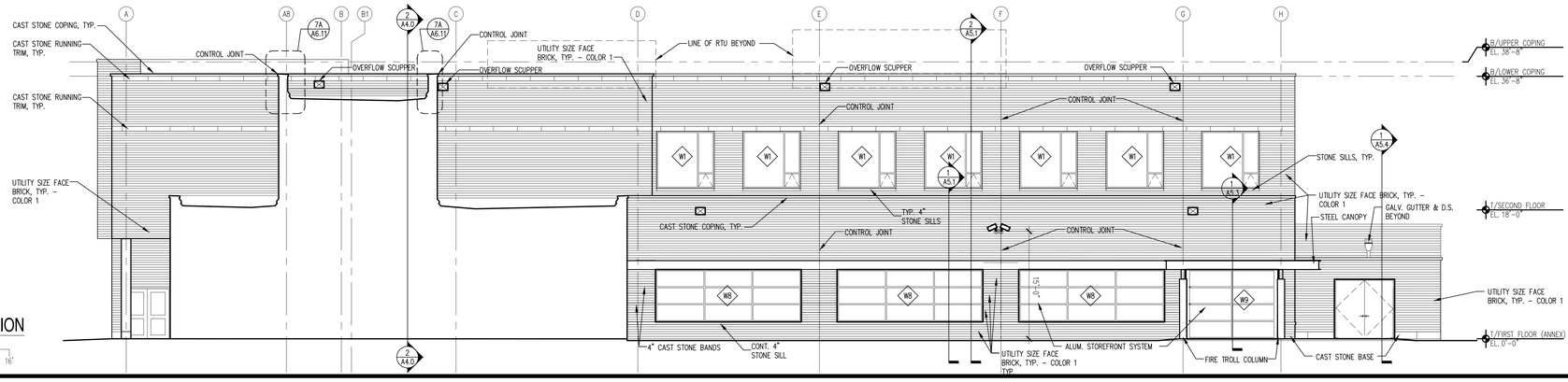


3A A3.0 **WEST ELEVATION**
SCALE: 1/8"=1'-0"

3 A3.0 **EAST ELEVATION**
SCALE: 1/8"=1'-0"



4 A3.0 **SOUTH ELEVATION**
SCALE: 1/8"=1'-0"

SYMBOL LEGEND:

- EXTERIOR CAMERA
- EXTERIOR CAMERA
- EXTERIOR LIGHT FIXTURE
- SPEAKER
- OVERFLOW SCUPPER

1 BRICK COLOR #1:BELDEN BRICK (75% MADRID/25% 870-874 VERTICAL CUT TEXTURE – UTILITY SIZE
BRICK COLOR #2:BELDEN BRICK #505 REGULAR TEXTURE – UTILITY SIZE

MASONRY CONTROL AND EXPANSION JOINT SEALANTS EXPOSED TO VIEW SHALL BE CUSTOM COLOR BY SEALANT MFG. TO MATCH ADJACENT MASONRY COLOR/FINISH. WHERE COLORED STRIPES OCCUR OF MORTAR/SEALANT AT VERTICAL JOINTS SHALL CHANGE AT COLOR BREAKS TO ALIGN W/ MASONRY.

BRICK MORTAR JOINTS EXPOSED TO VIEW SHALL BE CUSTOM COLOR BY SEALANT MFG. TO MATCH ADJACENT MASONRY COLOR/FINISH. WHERE COLORED STRIPES OCCUR AT VERTICAL JOINTS SHALL CHANGE AT COLOR BREAKS TO ALIGN W/ MASONRY.

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8	ADDENDUM 1	05/16/2017
9		
10		

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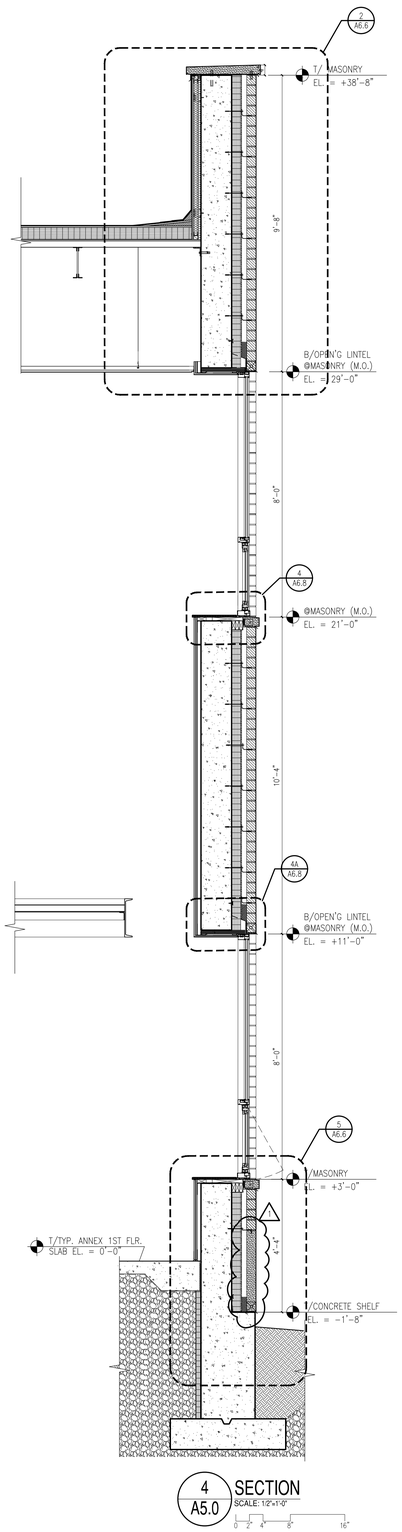
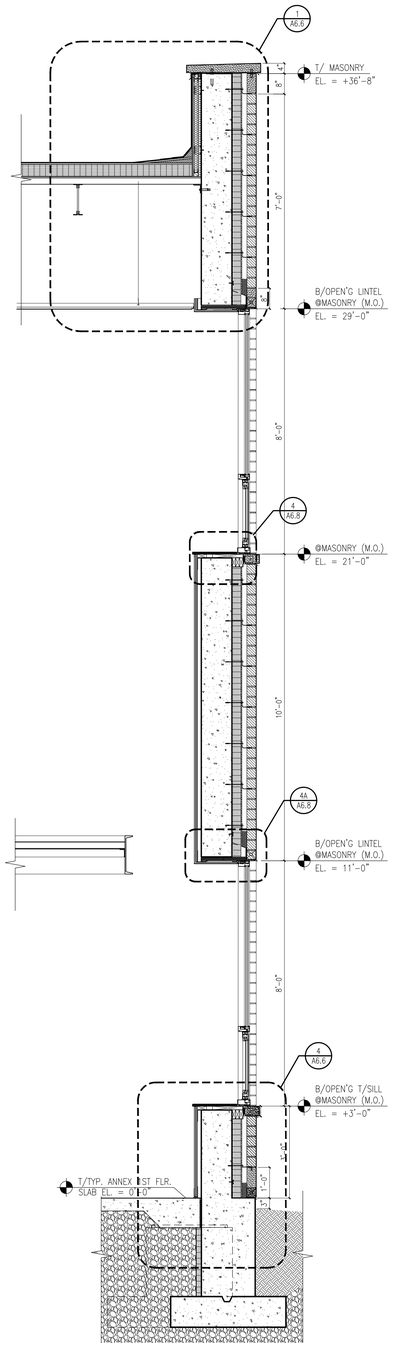
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A3.0

TITLE
EXTERIOR ELEVATIONS

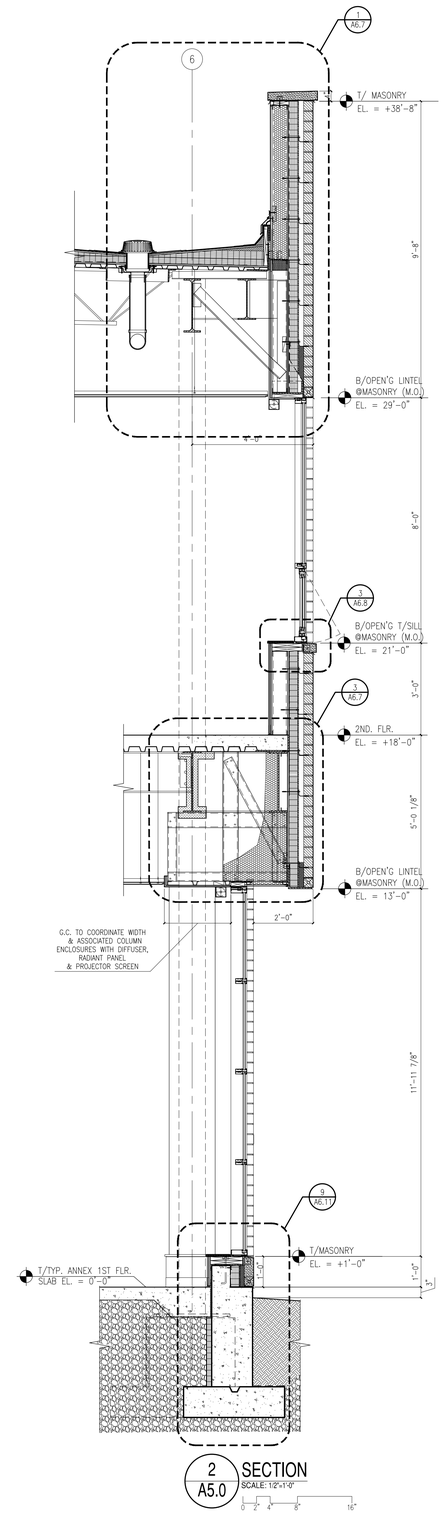
SHEET
A3.0



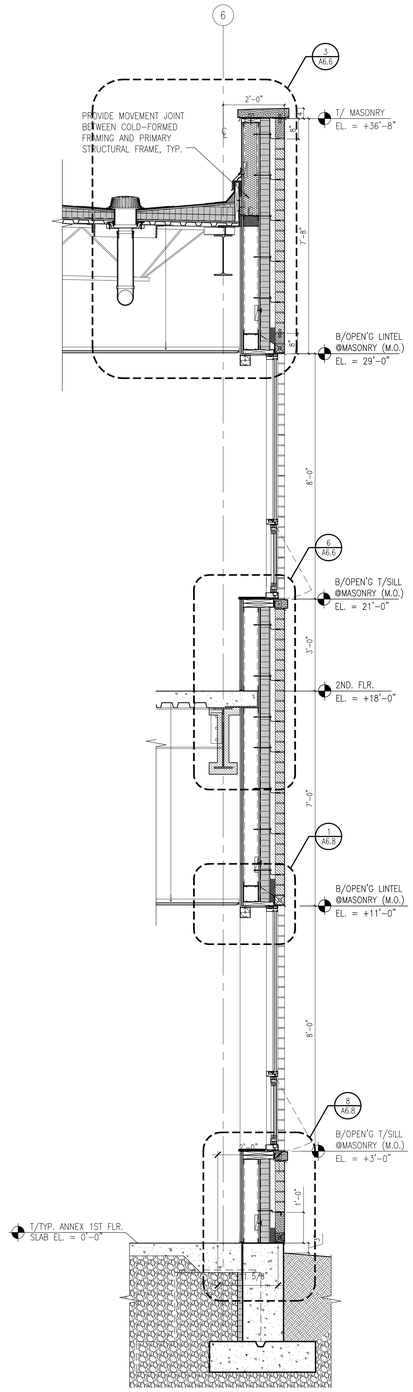
4 SECTION A5.0 SCALE: 1/2"=1'-0"



3 SECTION A5.0 SCALE: 1/2"=1'-0"



2 SECTION A5.0 SCALE: 1/2"=1'-0"



1 SECTION A5.0 SCALE: 1/2"=1'-0"

TYPICAL ROOF ASSEMBLY (CLASS A):

- MODIFIED BITUMINOUS ROOFING SYSTEM AND CAP SHEET WITH FLASHING AND AUXILIARY MATERIALS AS REQUIRED.
- CONTINUOUS 1/2" COVER BOARD SET IN HOT ASPHALT
- (2) LAYERS 2.6" POLYISOCYANURATE INSULATION WITH STAGGERED JOINTS, EACH LAYER SET IN ASPHALT (MIN. R-30)
- TAPERED INSULATION SADDLES (AS REQUIRED) TO PROVIDE MIN. 1/4" PER FOOT POSITIVE SLOPE TO DRAINS
- FULLY ADHERE TWO PLIES TYPE 4 FIBERGLASS FELT VAPOR RETARDER IN HOT ASPHALT TO SUBSTRATE BOARD & ASPHALT-PRIMED CONCRETE DECK
- 5/8" ROOF SUBSTRATE BOARD (CONTINUOUS THERMAL BARRIER REQUIRED ON METAL DECK SUBSTRATE ONLY) MECHANICALLY FASTENED TO METAL ROOF DECK
- SUBSTRATE; GALVANIZED METAL ROOF DECK (EXCEPT WHERE CONCRETE-FILLED DECK IS REQUIRED TO MEET ROOF ACOUSTICS)
- STEEL BAR JOISTS AND/OR WIDE FLANGE ROOF MEMBERS
- WHERE ROOF BEAMS ABUT EXTERIOR WALLS THAT REST ON FOUNDATIONS, AND WHERE MID-SPAN DEFLECTION IS ANTICIPATED, AN INSULATED DEFLECTION CURB WILL BE PROVIDED TO MITIGATE STRESS ON THE ROOF MEMBRANE.
- PARAPETS WILL BE DETAILED WITH RIGID BOARD INSULATION AND SPRAY-POLYURETHANE INSULATION TO MITIGATE THERMAL TRANSFER AND BRIDGING FROM EXTERIOR OF BUILDING TO EXTERIOR.

TYPICAL MASONRY VENEER ASSEMBLY ON COLD-FORMED FRAMING:

- 4" NOMINAL UTILITY FACE BRICK W/TIES @16" O.C. MAX.
- 2" MIN. AIR-SPACE
- FULL CAVITY MORTAR DEFLECTION / CAVITY DRAINAGE MATERIAL (CAV-CLEAR, THERMA DRAIN, OR SIMILAR)
- 3-1/2" EXTRUDED POLYSTYRENE, MIN. R-20.5
- CONTINUOUS SHEET-APPLIED AIR AND VAPOR BARRIER
- 5/8" EXTERIOR GLASS-MAT SHEATHING
- 6" NOMINAL COLD-FORMED FRAMING (DELEGATED DESIGN), INCLUDING ALL LINTELS, ETC. FOR FULLY ENGINEERED SYSTEM
- (2) LAYERS 5/8" TYPE 'X' FIRE-RESISTIVE GYPSUM BOARD (DIRECT APPLIED TO COLD-FORMED FRAMING), STAGGERED EA. LAYER, INSIDE FACE PAINTED
- SILLS SHALL RECEIVE LIMESTONE OR CAST STONE COPINGS WITH SLOPED TOP AND DRIP EDGE, WINDOWS SHALL PROVIDE PREFINISHED ALUMINUM SILL, HEAD, AND JAMB EXTENSIONS AS REQUIRED TO CONCEAL GYPSUM BOARD FROM DAMAGE.
- SHELF ANGLES AND LINTELS WHERE REQUIRED FOR BRICK VENEER, SHELF ANGLES SUPPORTED FROM PERIMETER BEAMS AND/OR SLAB EDGES. DETAILED TO MITIGATE THERMAL BRIDGING AND/OR THERMAL TRANSFER.

TYPICAL FENESTRATION

- THERMALLY BROKEN HIGH-PERFORMANCE WINDOWS AND STOREFRONT WITH 1" INSULATED GLAZING WITH LOW-E COATING.
- GLAZING IN AND ADJACENT TO DOORS OR THE FLOOR SHALL BE SAFETY RATED AGAINST BREAKAGE IN ACCORDANCE WITH ANSI Z97.1, THE SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIAL STANDARD FOR ARCHITECTURAL GLAZING MATERIALS (16 CFR 1201). STOREFRONT GLAZING IN COMMON AREAS (NOT PROTECTED BY WINDOW GUARDS) LOCATED WITHIN 8'-0" OF FINISHED GRADE / FLOOR SHALL BE SAFETY RATED / LAMINATED PER ASTM C 1172 COMPLYING WITH TESTING REQUIREMENTS IN 16 CFR 1201 FOR CATEGORY II MATERIALS.
- WINDOWS SHALL BE ALUMINUM ARCHITECTURAL WINDOWS (AW-60 PERFORMANCE GRADE) WITH INSULATED GLAZING. OPERABLE UNITS SHALL BE PROJECT-OUT (AWNING) TYPE MEETING ACCESSIBILITY FORCE REQUIREMENTS (UNLESS NOTED OTHERWISE).
- ENTRANCES SHALL BE STOREFRONT FRAMING ASSEMBLIES WITH WIDE-STILE ALUMINUM ENTRANCE DOORS. ALUMINUM ENTRANCE DOORS ARE PERMITTED TO HAVE GLASS VISION LITES AND GLAZED TRANSOMS.
- EXTERIOR HOLLOW-METAL DOORS SHALL BE FACTORY GALVANIZED AND PRIMED, FIELD PAINTED INSULATED TYPE. ALL EXTERIOR AND FIRST FLOOR DOORS SHALL BE EQUIPPED WITH SWEEPS.

FOUNDATION PERIMETER:

- THE PERIMETER FOUNDATION WALLS SHALL RECEIVE 2" OF EXTRUDED POLYSTYRENE BOARD INSULATION FROM TOP OF FOOTING TO BTM./SLAB.
- TOP OF THE INSULATION SHALL BE PROTECTED AGAINST DELAMINATION, DAMAGE AND UV DEGRADATION.
- ALL FOUNDATION WALL PENETRATIONS SHALL BE SEALED TO PREVENT GROUNDWATER INTRUSION.
- ALL COLD JOINTS SHALL BE WATER-STOPPED IN AREAS SUBJECT TO MIGRATION OF GROUNDWATER.
- DAMP PROOFING ON FOUNDATION WALL

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ALPHONSE A. ILEKIS, AIA

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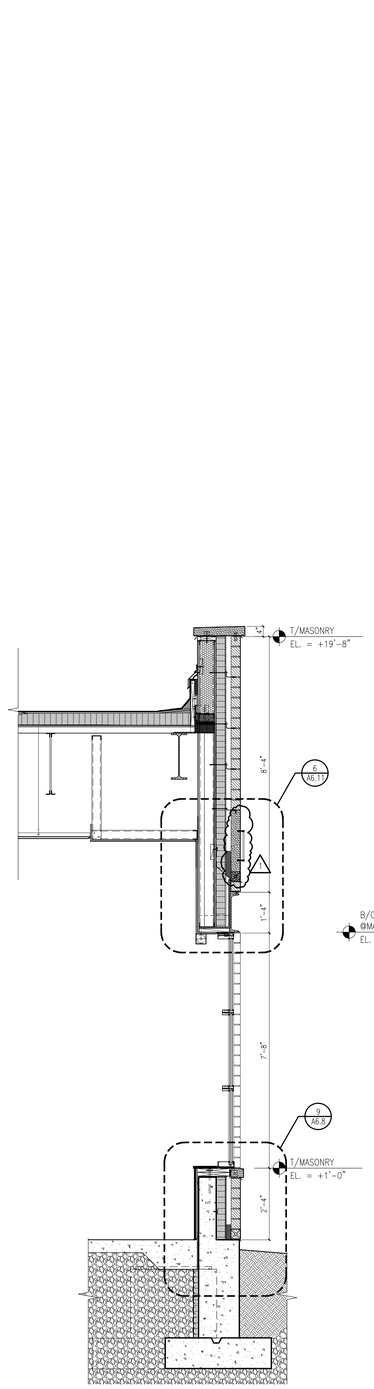
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A5.0

TITLE

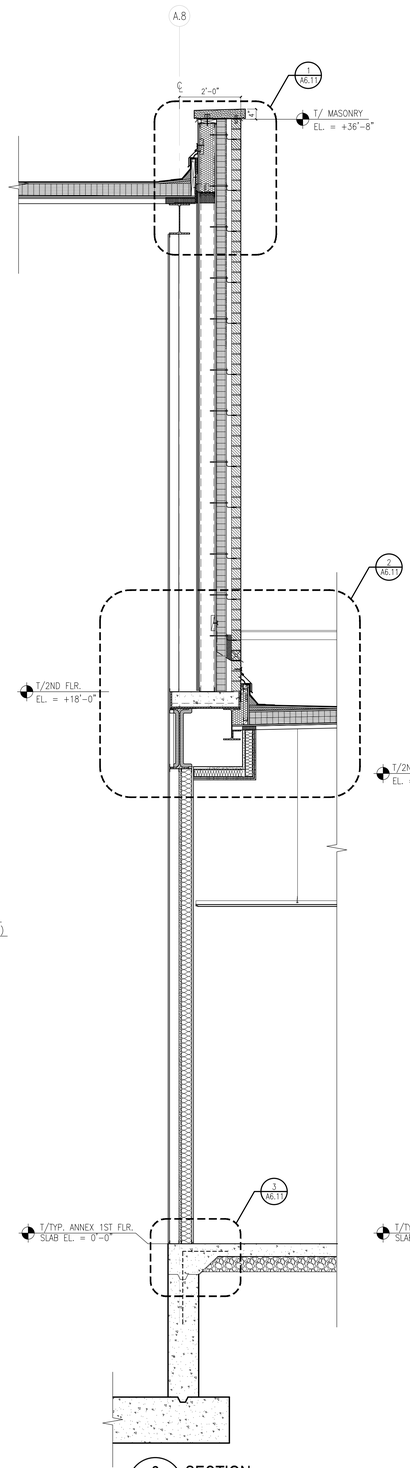
WALL SECTIONS

SHEET

A5.0



3 SECTION A5.4
SCALE: 1/2"=1'-0"



2 SECTION A5.4
SCALE: 1/2"=1'-0"
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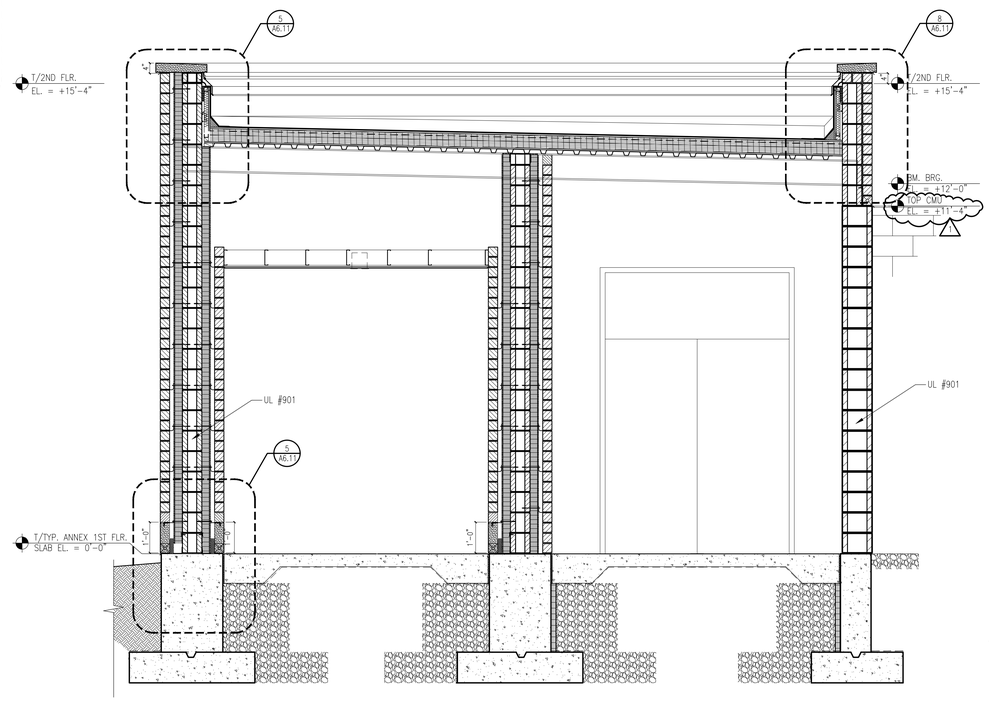

1 SECTION A5.4
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FILE:	1618-01 A5.4

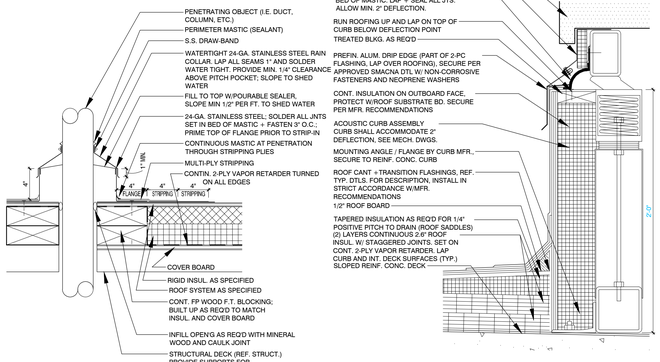
TITLE

WALL SECTIONS

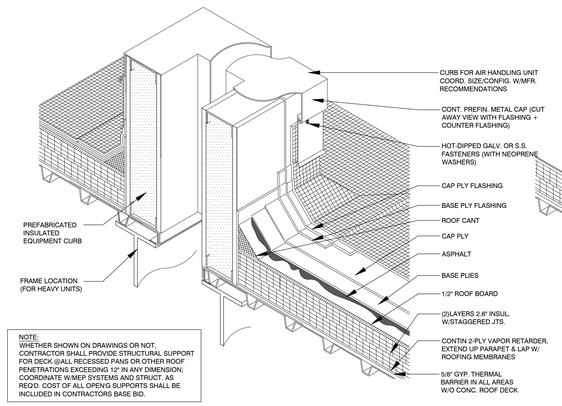
SHEET

A5.4

NOTES:
1. WHERE MULTIPLE PENETRATING OBJECTS (I.E. EXHAUST DUCTS, FLUES, ETC.) ARE LOCATED WITHIN THE SAME PITCH POCKET, ALL PENETRATING OBJECTS SHALL BE SEPARATED MIN. 8" FROM ONE ANOTHER (EDGE TO EDGE) AND SHALL RECEIVE A SINGLE CUSTOM RAIN COLLAR, SEALED WATERTIGHT AT EACH PENETRATION
2. PROVIDE DECK SUPPORT FOR ALL ROOF AND FLOOR OPENGS AS REQ'D (WHETHER OR NOT GRAPHICALLY SHOWN); COORD. W/STRUCT.



1 A6.0 ROOF DETAIL - PITCH POCKET
SCALE: 1 1/2"=1'-0"
0 2" 4" 8" 16"



NOTE:
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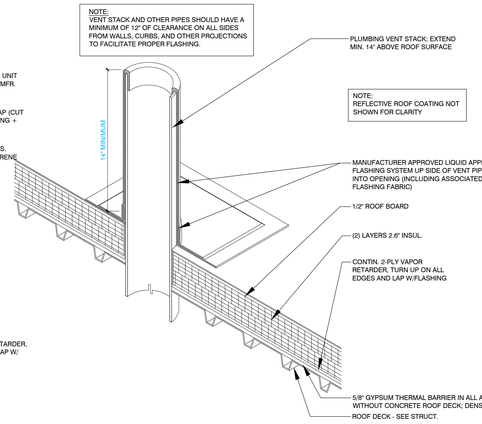
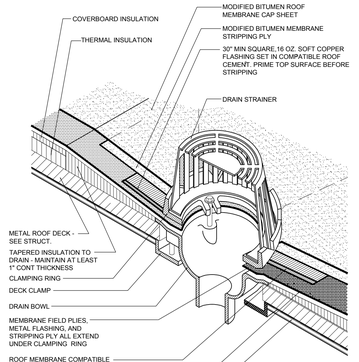
2 A6.0 ROOF DETAIL - DEFLECTION CURB
SCALE: 1 1/2"=1'-0"
0 2" 4" 8" 16"



3 A6.0 ROOF DETAIL - EQUIPMENT CURB
SCALE: 1 1/2"=1'-0"
0 2" 4" 8" 16"

4 A6.0 ROOF DETAIL - VENT STACK PENETRATION
SCALE: 1 1/2"=1'-0"
0 2" 4" 8" 16"



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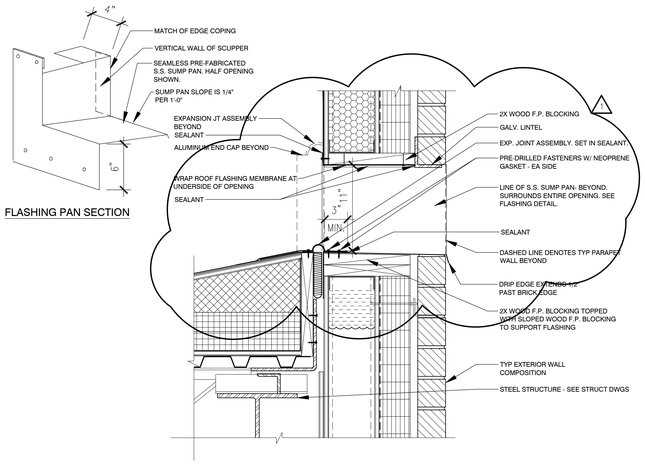
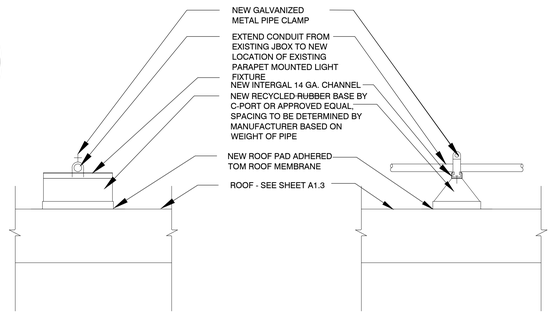
5 A6.0 ROOF DETAIL - ROOF DRAIN
SCALE: 1 1/2"=1'-0"
0 2" 4" 8" 16"



6 A6.0 TYP. OVERFLOW SCUPPER DETAIL
SCALE: 1 1/2"=1'-0"
0 2" 4" 8" 16"



7 A6.0 ROOF DETAIL - CONDUIT ROOF SUPPORT
SCALE: 1 1/2"=1'-0"
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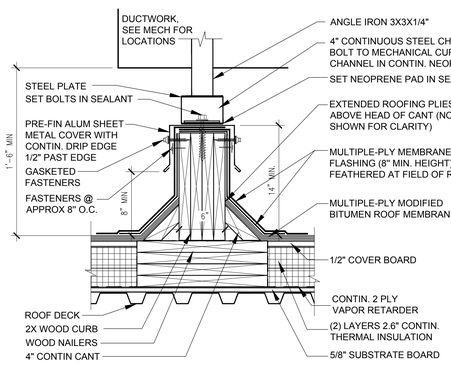
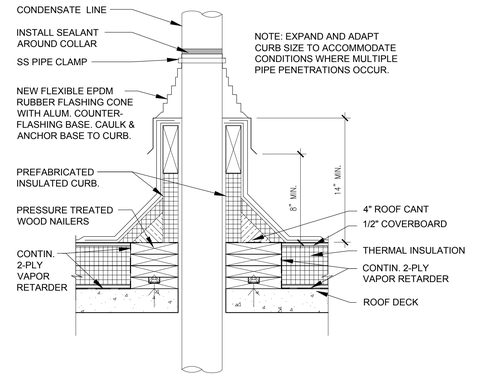


8 A6.0 ROOF DETAIL - DUCT SUPPORT DETAIL
SCALE: N.T.S.



9 A6.0 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"
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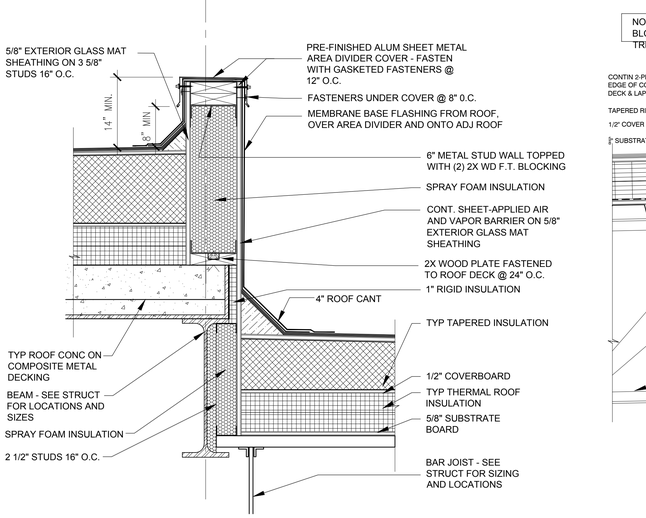

10 A6.0 ROOF DIVIDER DETAIL
SCALE: 1 1/2" = 1'-0"
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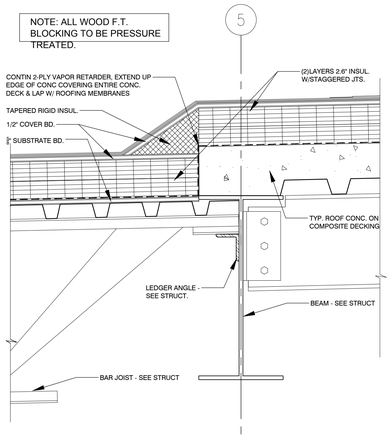

11 A6.0 TRANSITION DETAIL
SCALE: 1 1/2" = 1'-0"
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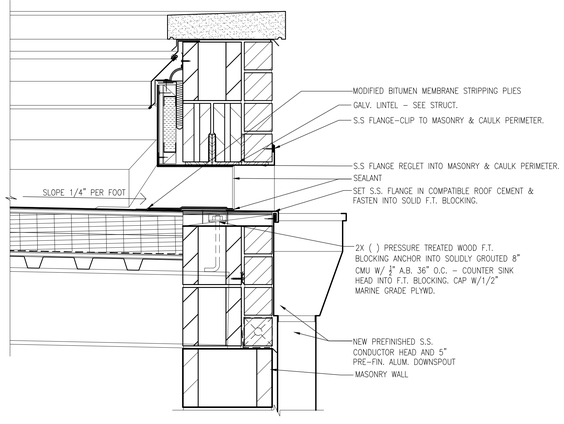
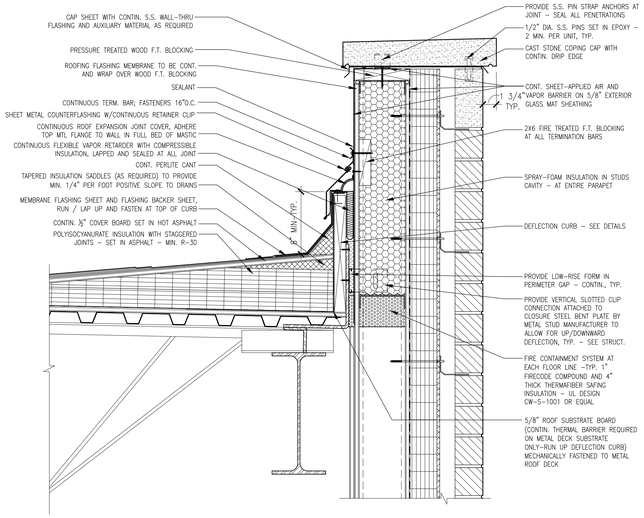


12 A6.0 SCUPPER DETAIL
SCALE: 1 1/2" = 1'-0"
0 2" 4" 8" 16"



13 A6.0 TYP. ROOFING/COPING DETAIL
SCALE: 1 1/2" = 1'-0"
0 2" 4" 8" 16"

CITY REVIEW

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ALPHONSE A. ILEKIS, AIA

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8	ADDENDUM 1	05/16/2017
9		
10		

DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1608–01 A6.0

TITLE
ROOF DETAILS

SHEET
A6.0

NOTE:
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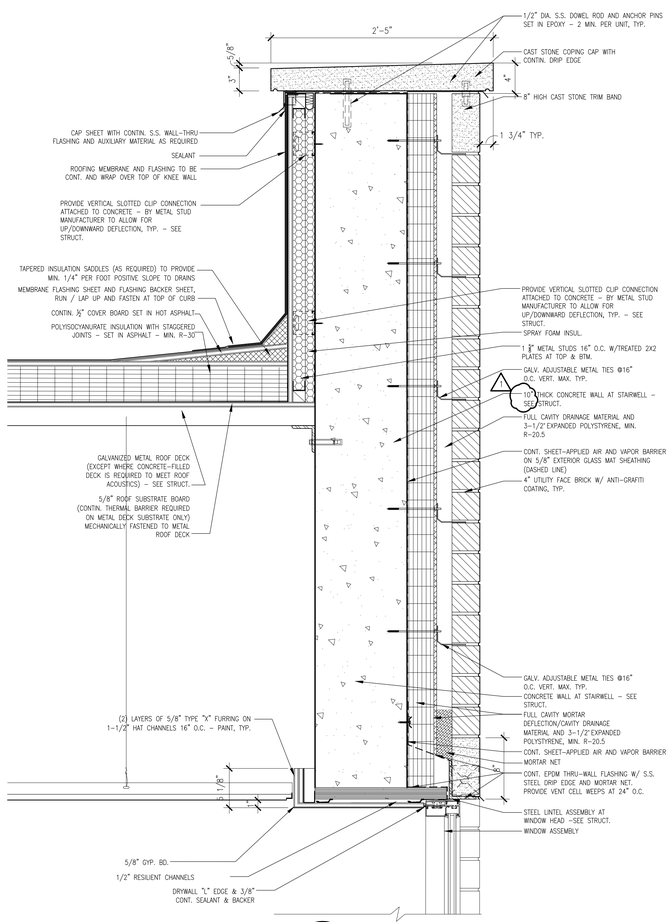
- WINDOW HEAD DETAIL 4/A11.3.
- WINDOW SILL DETAILS 7&8/A11.3.
- WALL BASE FLASHING/SLAB DETAIL 5/A6.10.



1 A6.6 ENLARGED DETAIL
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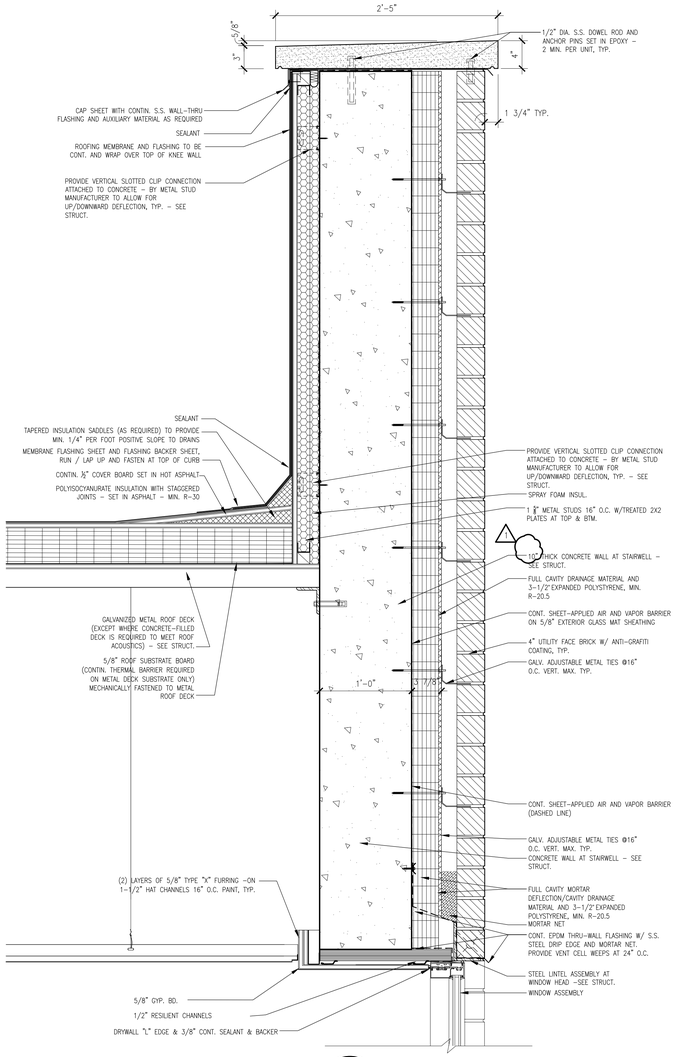
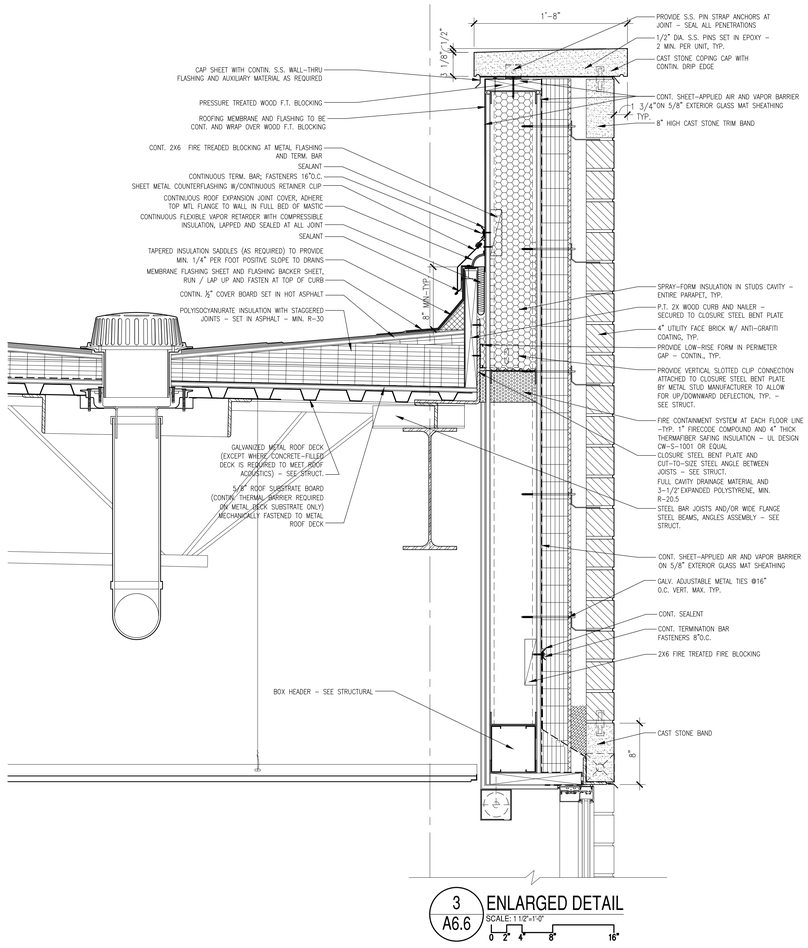


2 A6.6 ENLARGED DETAIL
SCALE: 1 1/2"=1'-0"
0 2" 4" 8" 16"



3 A6.6 ENLARGED DETAIL
SCALE: 1 1/2"=1'-0"
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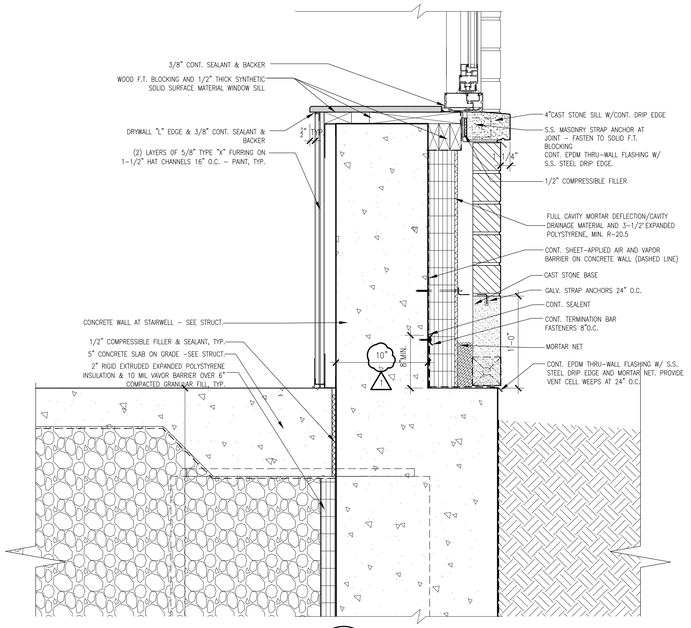

4 A6.6 ENLARGED DETAIL
SCALE: 1 1/2"=1'-0"
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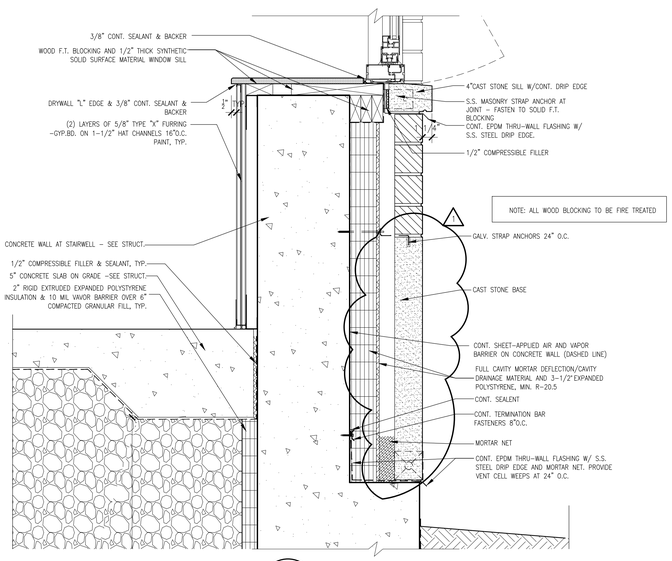
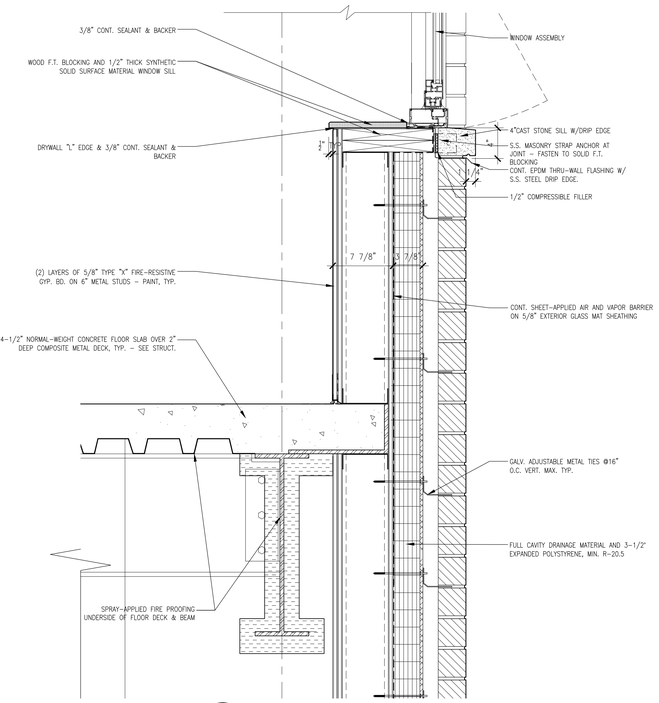


5 A6.6 ENLARGED DETAIL
SCALE: 1 1/2"=1'-0"
0 2" 4" 8" 16"



6 A6.6 ENLARGED DETAIL
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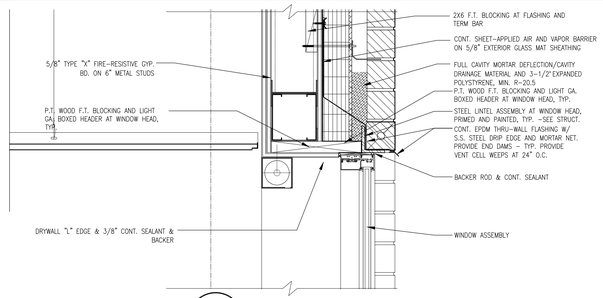
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1608-01 A6.6

TITLE
ENLARGED DETAILS

SHEET
A6.6



1 A6.8 ENLARGED DETAIL
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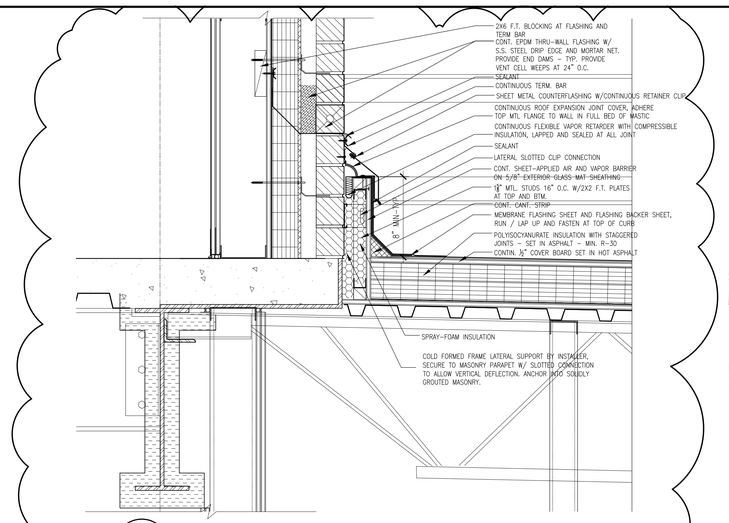

2 A6.8 ENLARGED DETAIL- TYP. AT ALL STICK BUILT DEFLECTION CURBS
SCALE: 1 1/2"=1'-0"
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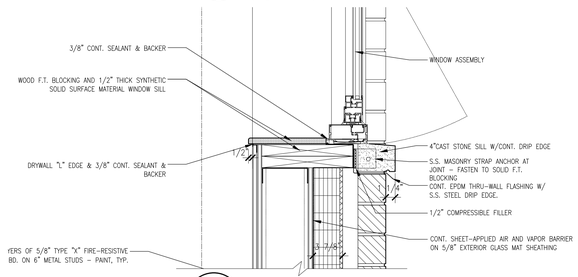

3 A6.8 ENLARGED DETAIL
SCALE: 1 1/2"=1'-0"
0 2" 4" 8" 16"

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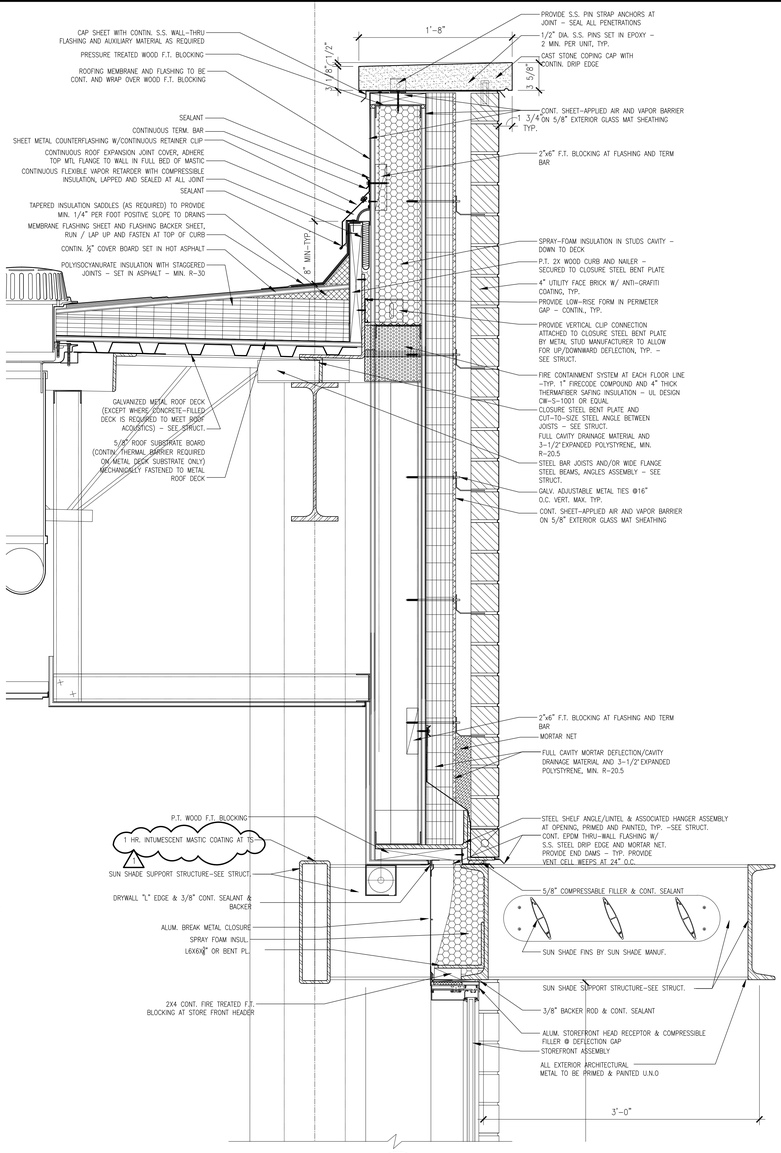
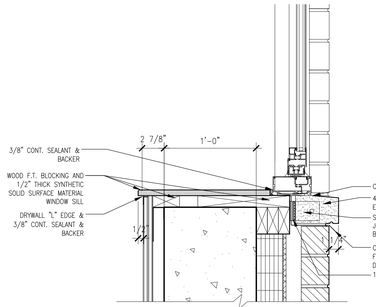
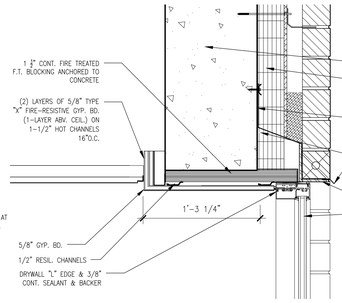
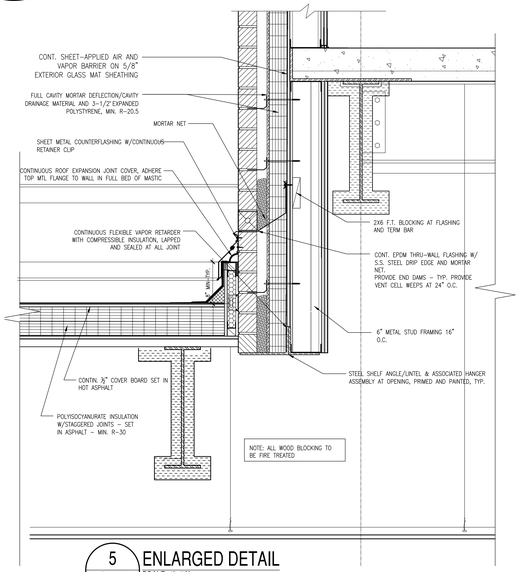




4 A6.8 ENLARGED DETAIL
SCALE: 1 1/2"=1'-0"
0 2" 4" 8" 16"

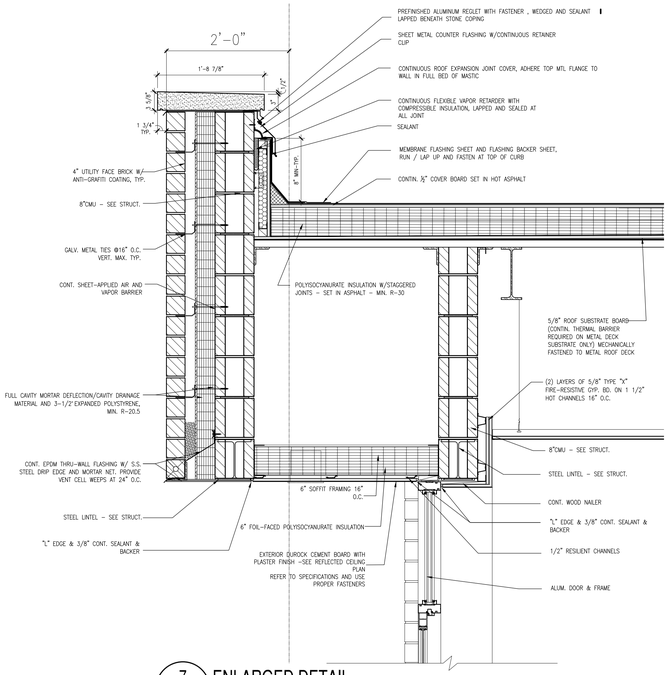


4A A6.8 ENLARGED DETAIL
SCALE: 1 1/2"=1'-0"
0 2" 4" 8" 16"

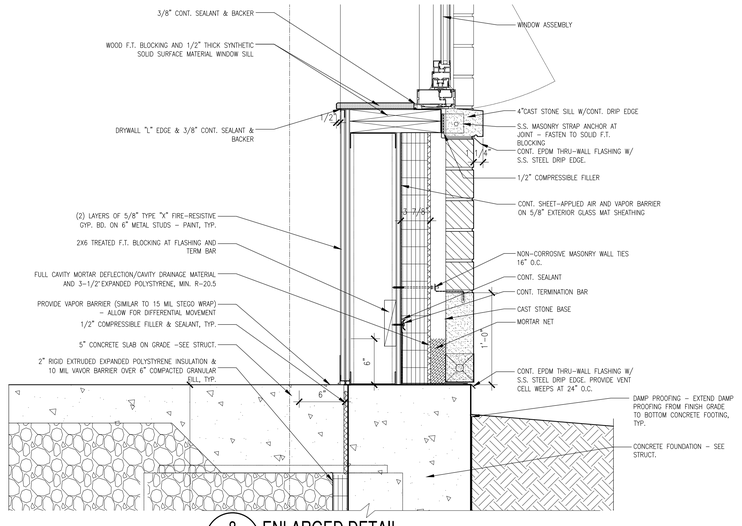


5 A6.8 ENLARGED DETAIL
SCALE: 1"=1'-0"
0 2" 4" 8" 16"

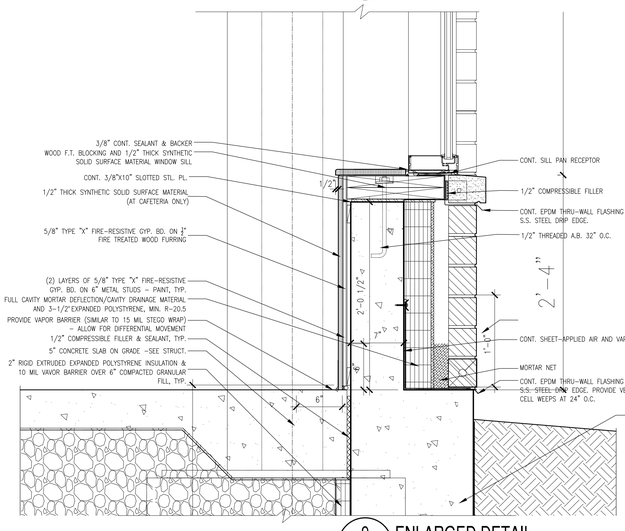
6 A6.8 ENLARGED DETAIL
SCALE: 1 1/2"=1'-0"
0 2" 4" 8" 16"



7 A6.8 ENLARGED DETAIL
SCALE: 1"=1'-0"
0 2" 4" 8" 16"



8 A6.8 ENLARGED DETAIL
SCALE: 1 1/2"=1'-0"
0 2" 4" 8" 16"



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DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1608-01 A6.7

TITLE
ENLARGED DETAILS

SHEET
A6.8

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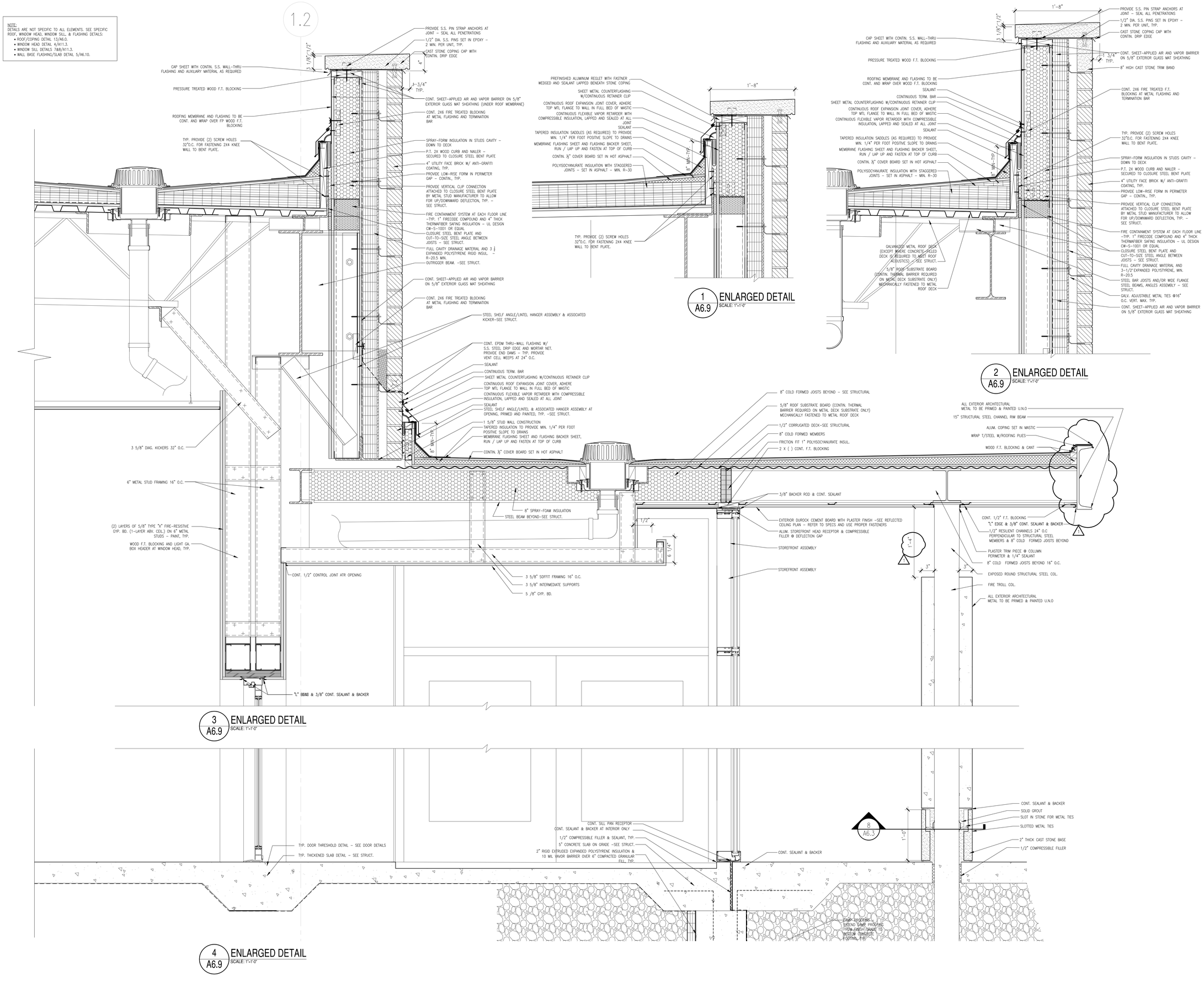
1.2



3 A6.9 ENLARGED DETAIL
SCALE: 1"=1'-0"

1 A6.9 ENLARGED DETAIL
SCALE: 1"=1'-0"

2 A6.9 ENLARGED DETAIL
SCALE: 1"=1'-0"

4 A6.9 ENLARGED DETAIL
SCALE: 1"=1'-0"

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STRUCTURAL ENGINEER OF RECORD

MILHOUSE ENGINEERING & CONSTRUCTION, INC.
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CIVIL ENGINEER OF RECORD

SITE DESIGN GROUP
CHICAGO, ILLINOIS
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SHINER & ASSOCIATES, INC.
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ALPHONSE A. ILEKIS, AIA

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7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

1

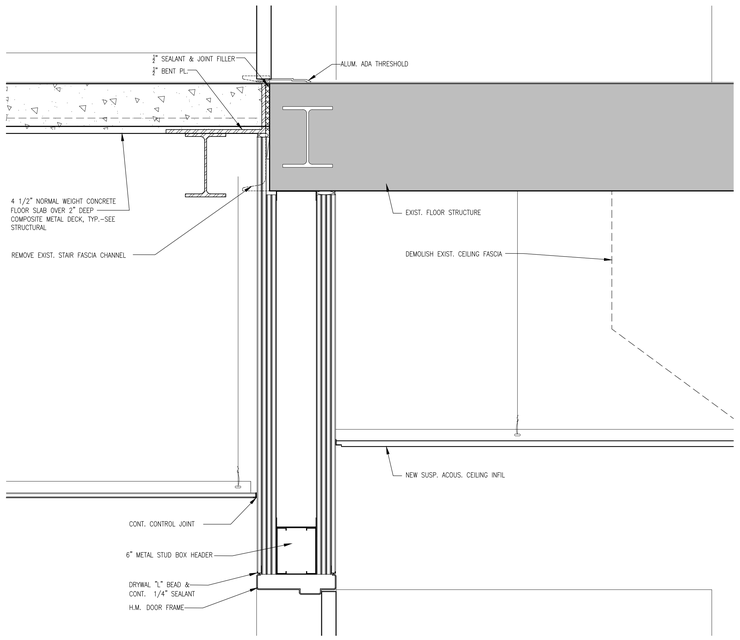
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1608-01 A6.9

TITLE
ENLARGED DETAILS

SHEET
A6.9

NOTE:
DETAILS ARE NOT SPECIFIC TO ALL ELEMENTS. SEE SPECIFIC ROOF, WINDOW HEAD, WINDOW SILL, & FLASHING DETAILS:
- ROOF/COPING DETAIL 13/A6.0.
- WINDOW HEAD DETAIL 4/A11.3.
- WINDOW SILL DETAILS 7&8/A11.3.
- WALL BASE FLASHING/SLAB DETAIL 5/A6.10.

1 A6.10 NOT USED
SCALE: 1 1/2"=1'-0"



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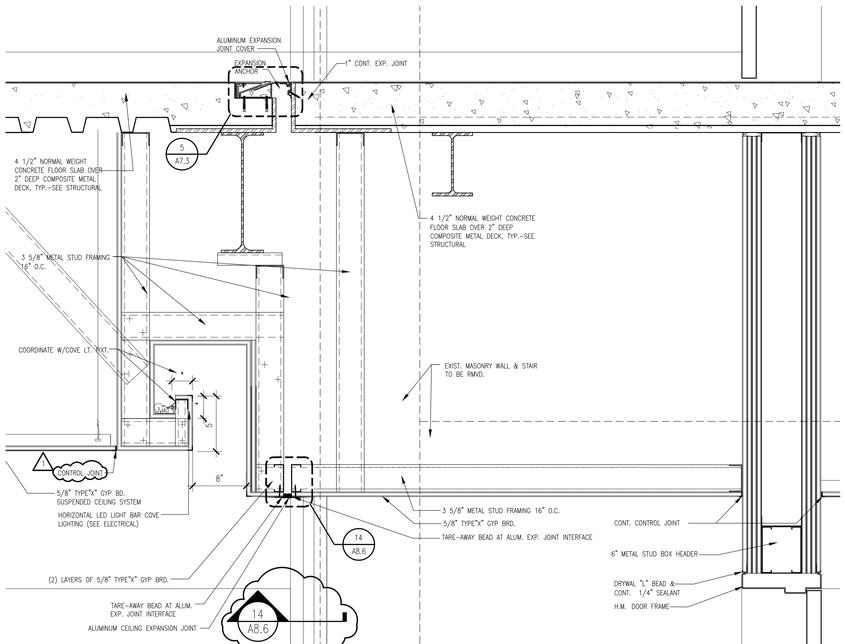

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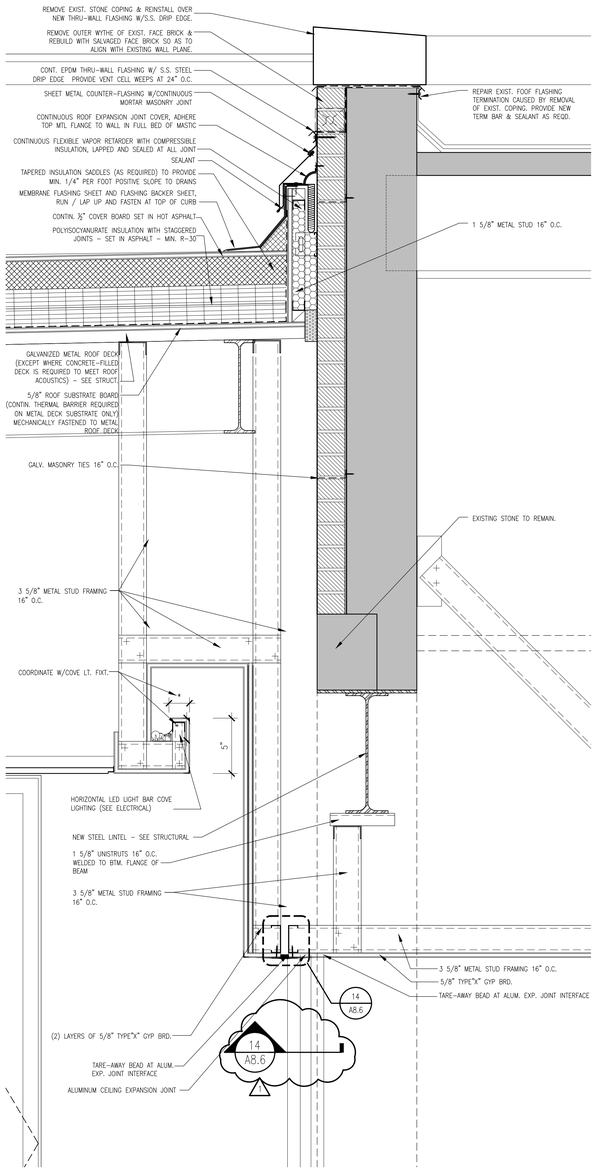

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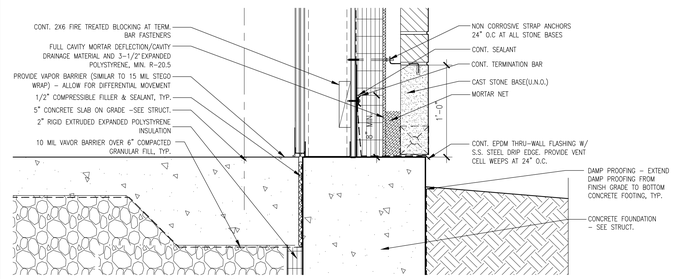

5 A6.10 TYP. BASE FLASHING & SLAB DETAIL
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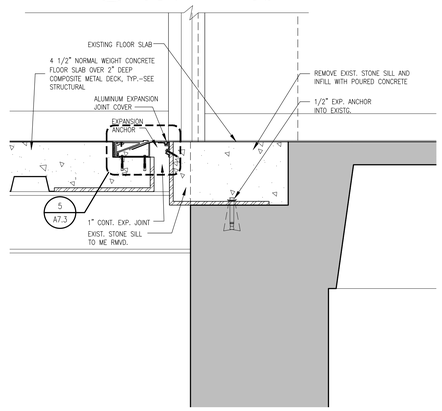

6 A6.10 ENLARGED DETAIL
SCALE: 1 1/2"=1'-0"

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX
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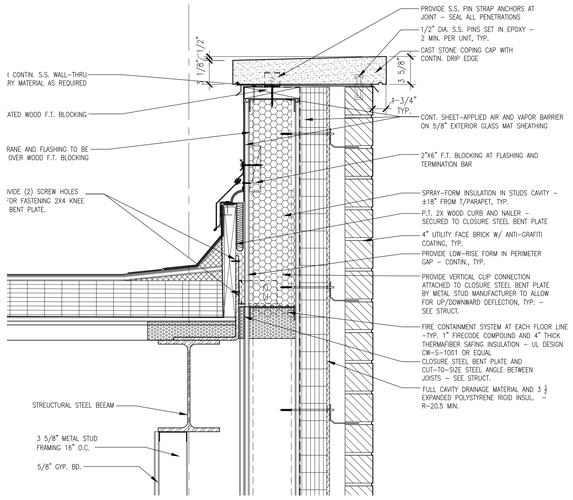
DRAWN BY: ILEKIS ASSOCIATES
SCALE: SEE DRAWING
PROJ. NAME: BYRNE ANNEX
PROJECT #: 1618-01
FILE: 1608-01 A6.10

TITLE
ENLARGED DETAILS

SHEET
A6.10



1 A6.11 ENLARGED DETAIL
SCALE: 1 1/2"=1'-0"
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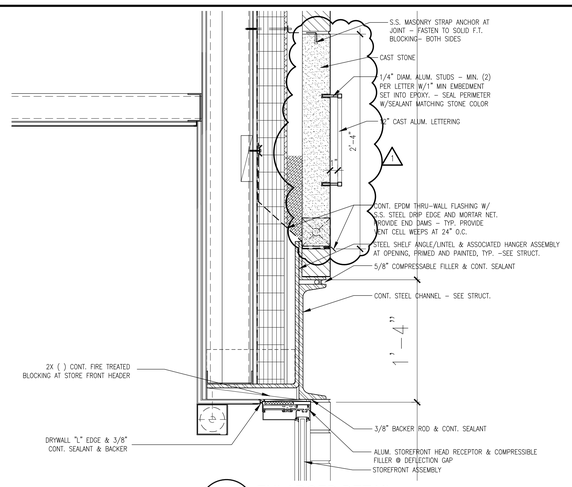

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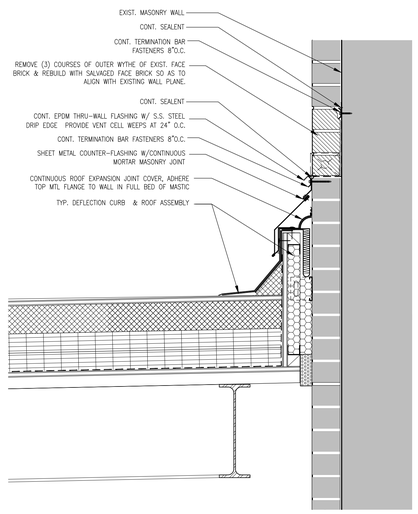

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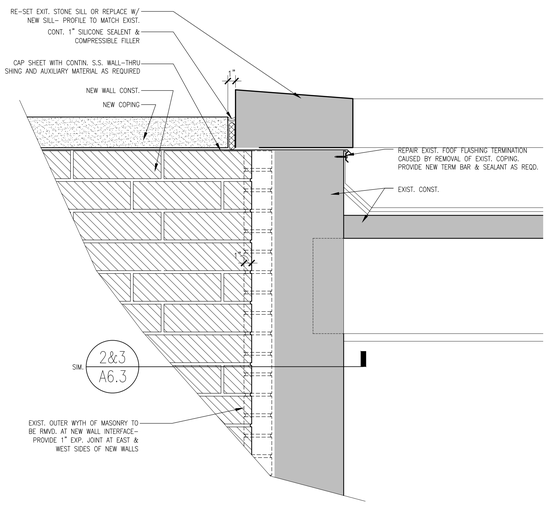

7A A6.11 ENLARGED DETAIL
SCALE: 1 1/2"=1'-0"
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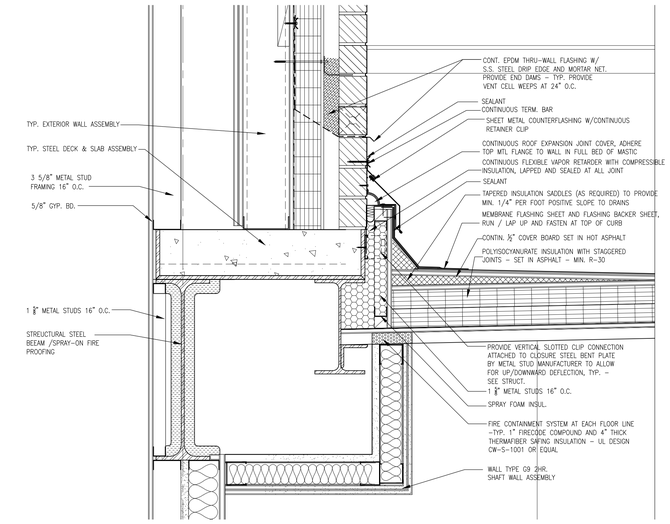

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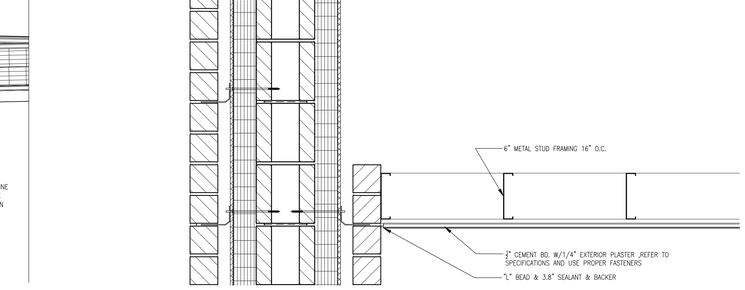

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SCALE: 1 1/2"=1'-0"
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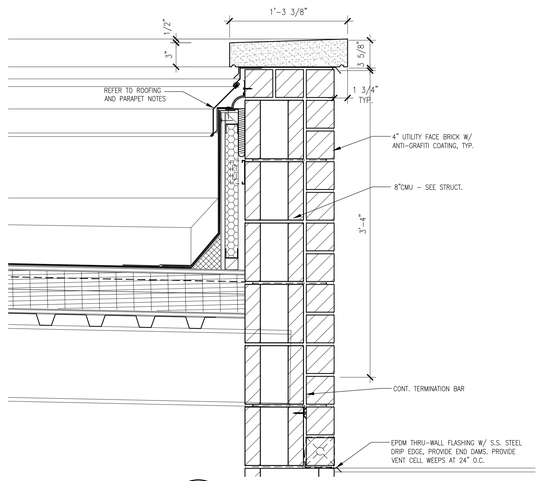

8 A6.11 ENLARGED DETAIL
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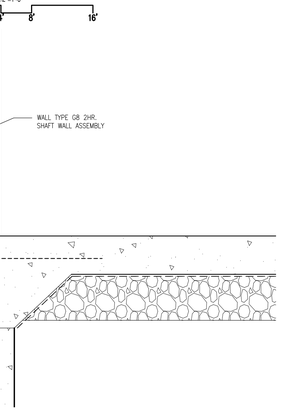

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SCALE: 1 1/2"=1'-0"
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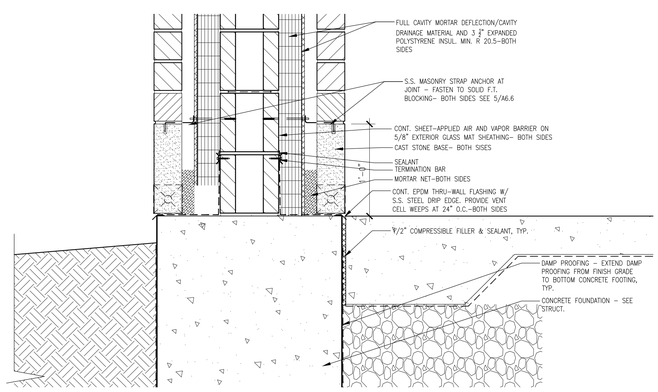

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SCALE: 1 1/2"=1'-0"
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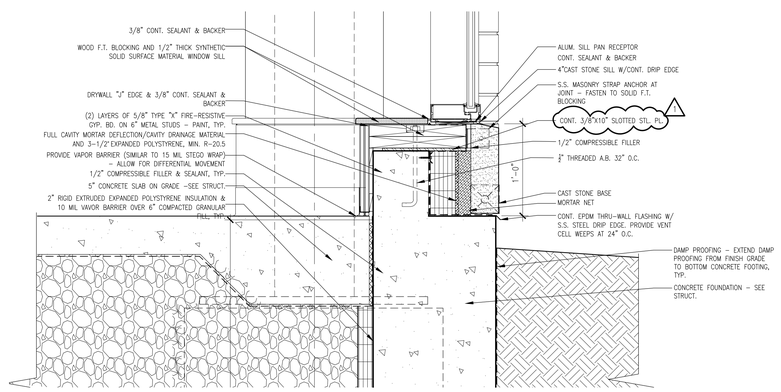

9 A6.11 ENLARGED DETAIL
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DRAWN BY:	ILEKIS ASSOCIATES
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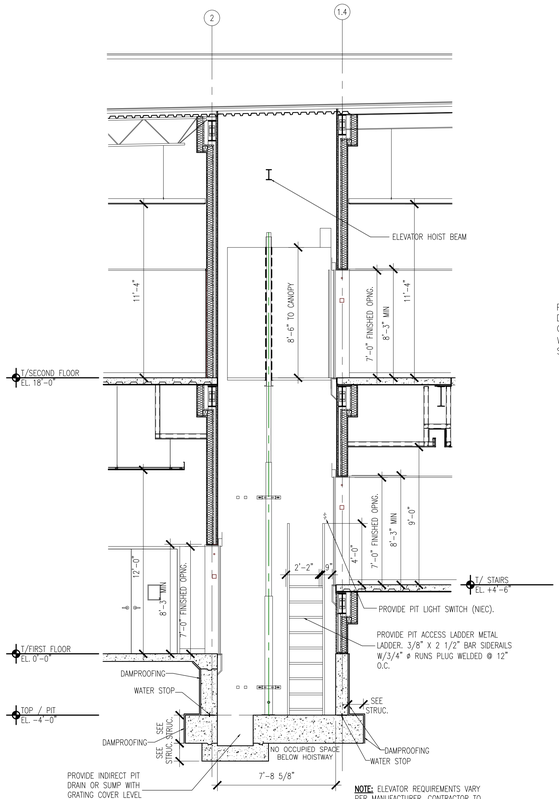
PROJECT #:	1618-01
FILE:	1608-01 A6.11

TITLE

ENLARGED DETAILS

SHEET

A6.11



1 A7.2 ELEVATOR SECTION
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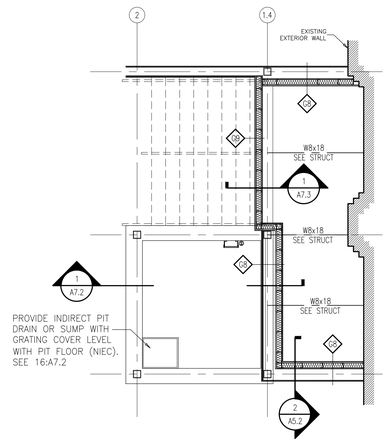
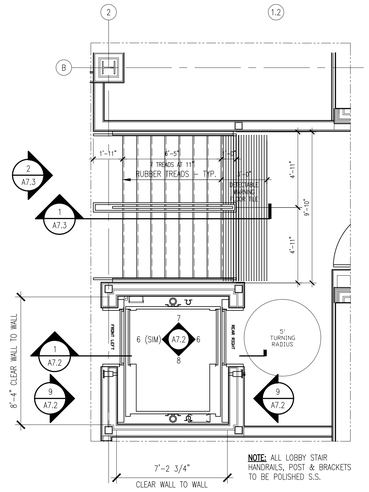


N 2 A7.2 ELEVATOR PIT FLOOR PLAN
SCALE: 1/2"=1'-0"



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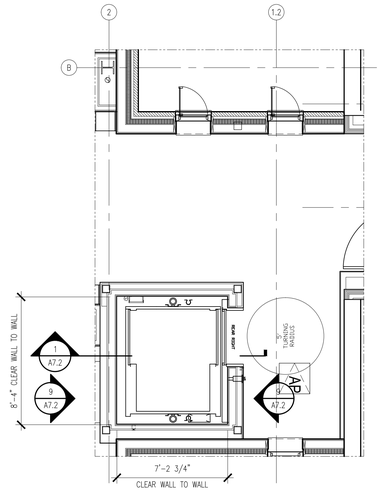
SCALE: 1/2"=1'-0"



N 4 A7.2 ELEVATOR SECOND FLOOR PLAN
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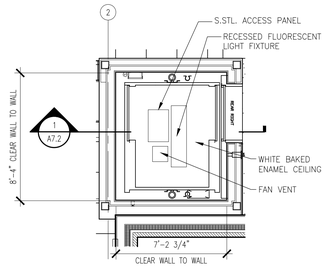
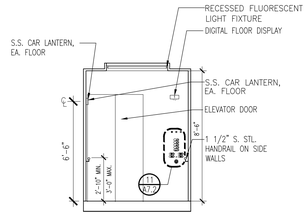
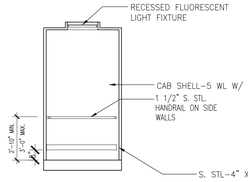


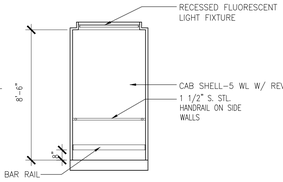
N 5 A7.2 ELEVATOR REFLECTED CEILING PLAN
SCALE: 1/2"=1'-0"



10 A7.2 INTERIOR CAB ELEVATION
SCALE: 1/2"=1'-0"



7 A7.2 INTERIOR CAB ELEVATION
SCALE: 1/2"=1'-0"



8 A7.2 INTERIOR CAB ELEVATION
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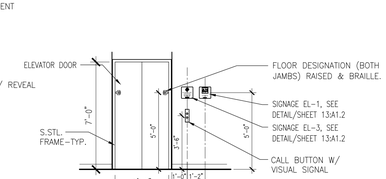
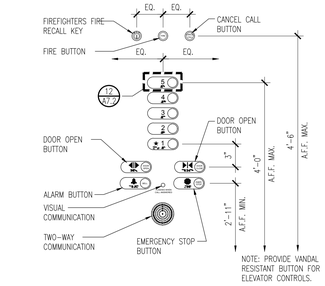
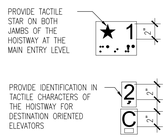
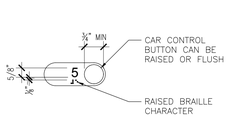


9 A7.2 EXTERIOR CAB ELEVATION (CORRIDOR)
SCALE: 1/2"=1'-0"

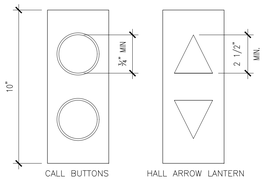
NOTE:
ELEVATOR/SHAFT & ASSOCIATED MACHINE ROOM BASIS OF DESIGN IS THYSSEN KRUP 3000# HYDRAULIC ELEVATOR.



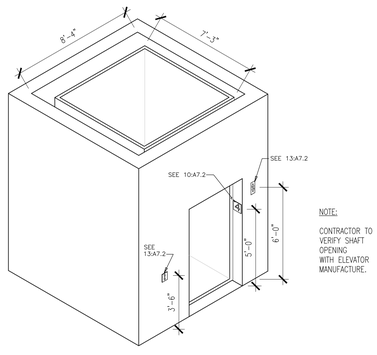




12 A7.2 ELEVATOR CAR CONTROL BUTTON
SCALE: 3"=1'-0"



13 A7.2 CALL BUTTON HALL LANTERN
SCALE: 3"=1'-0"

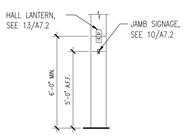


NOTE:
CONTRACTOR TO VERIFY SHAFT OPENING WITH ELEVATOR MANUFACTURE.

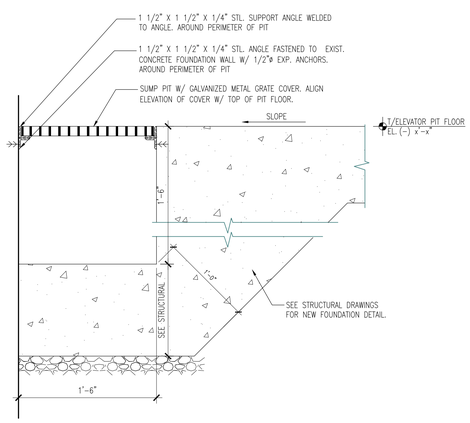
14 A7.2 ELEVATOR CAB SHAFT / JAMB
SCALE: 1/2"=1'-0"

10 A7.2 ELEVATOR JAMB SIGNS
SCALE: 1/2"=1'-0"

11 A7.2 ELEVATOR CONTROL PANEL ELEVATION
SCALE: 1/2"=1'-0"



15 A7.2 ELEVATOR JAMB ELEVATION
SCALE: 1/2"=1'-0"



16 A7.2 ELEVATOR SUMP PIT SECTION
SCALE: 1/2"=1'-0"

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX

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CITY OF CHICAGO
MAYOR RAHM EMANUEL

ILEKIS ASSOCIATES
Architects • Planners
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ALPHONSE A. ILEKIS, AIA

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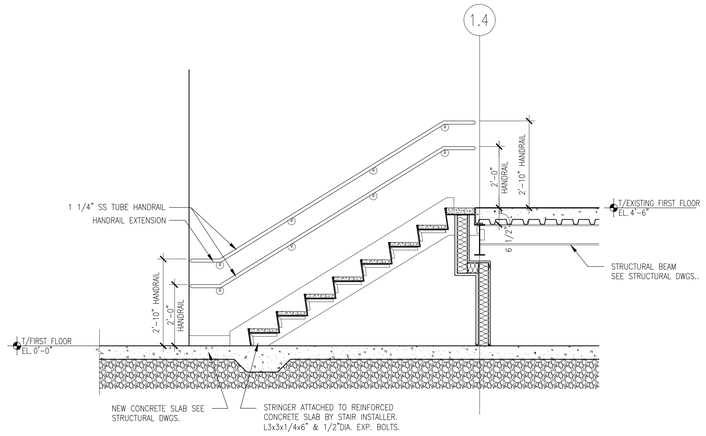
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

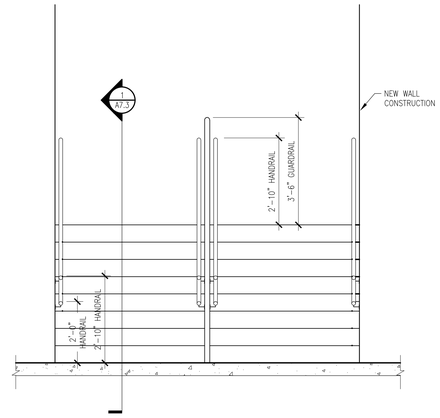
DRAWN BY: ILEKIS ASSOCIATES
SCALE: SEE DRAWING
PROJ. NAME: BYRNE ANNEX
PROJECT #: 1618-01
FILE: 1618-01 A7.2

TITLE
ELEVATOR PLANS, SECTIONS/DETAILS

SHEET
A7.2



1 A7.3 STAIR SECTION
SCALE: 1/2"=1'-0"
0 6" 1' 2' 4'



2 A7.3 STAIR ELEVATION
SCALE: 1/2"=1'-0"
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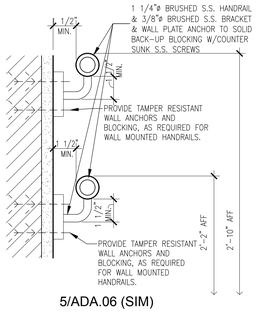
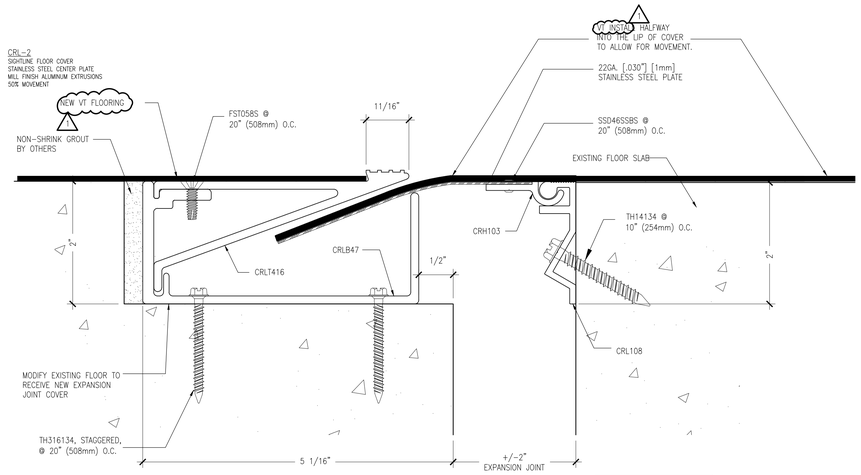


5/ADA.06 (SIM)

3 A7.3 HANDRAIL DETAIL
SCALE: 3"=1'-0"

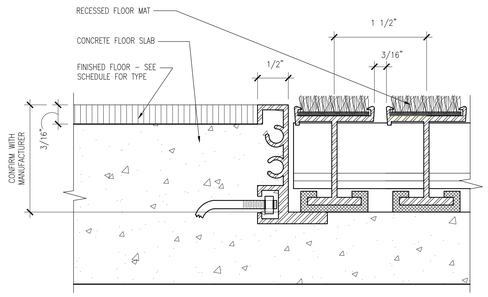


5 A7.3 EXPANSION JOINT COVER DETAIL
SCALE: 1'-0"=1'-0"
0 1/4" 1/2" 1" 2"

NOTE:

LATEX EXISTING CONC. SLAB (EITHER SIDE OF JOINT) TO LEVEL FLOOR.

**COORDINATE SLAB DEPRESSION W/WALK OFF MAT MANUFACTURE.



6 A7.3 FOOT GRILLE
SCALE: 1'-0"=1'-0"
0 1/4" 1/2" 1" 2"

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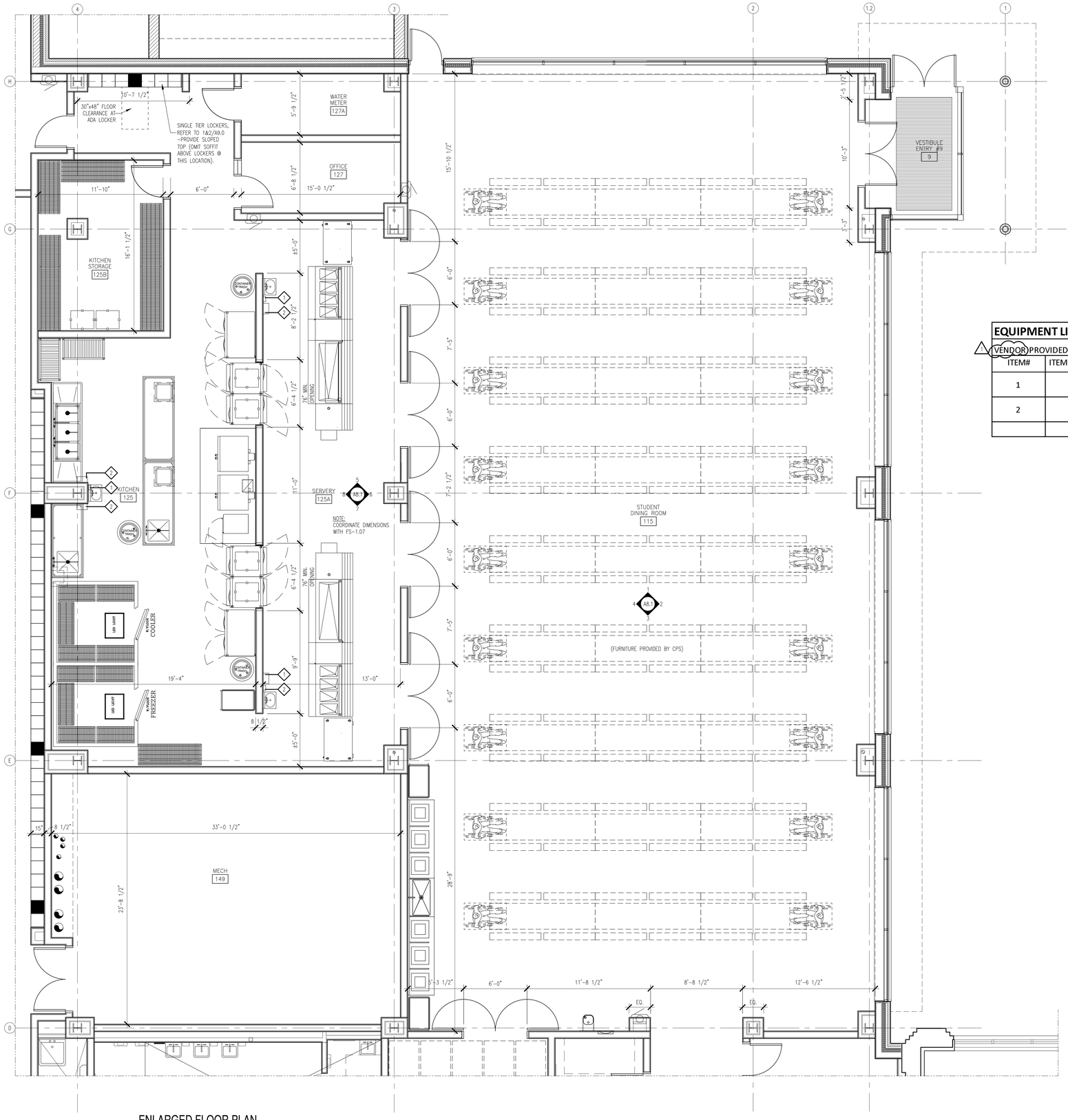
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A7.3

TITLE
SECTION & DETAILS

SHEET
A7.3



EQUIPMENT LIST - KITCHEN

(VENDOR) PROVIDED & INSTALLED — PLAN TAG: ◇

ITEM#	ITEM REF	DESCRIPTION	MODEL	PROVIDED BY	INSTALLED BY
1		SOAP DISPENSER	ADX12 #8888-06	ECO Labs	ECO labs
2		PAPER TOWEL DISPENSER	Tork H1 roll	Aramark/Sodexo	ECO labs

N

1 / A8.0 ENLARGED FLOOR PLAN SERVERY

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

0 1' 2' 4' 8'

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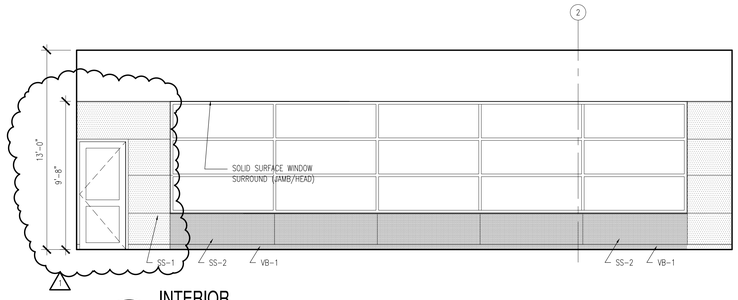
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A0.1

TITLE

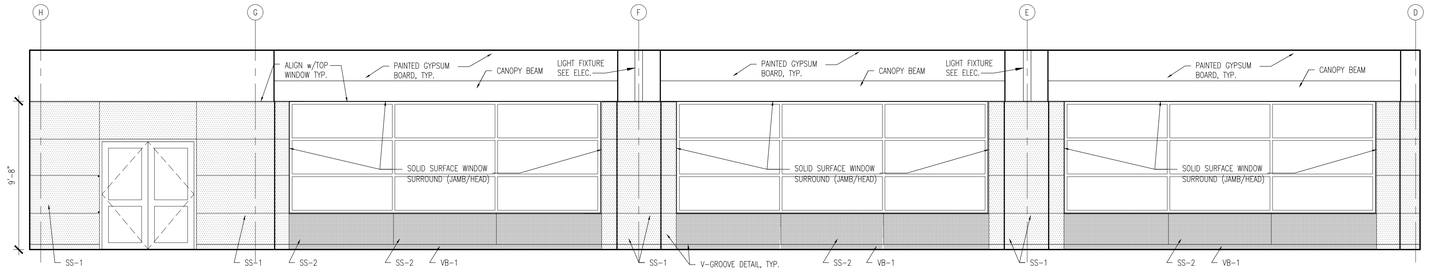
ENLARGED FLOOR PLAN

SHEET

A8.0



1 A8.1 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 0 2 2 4 4 8' 8'



2 A8.1 INTERIOR ELEVATION
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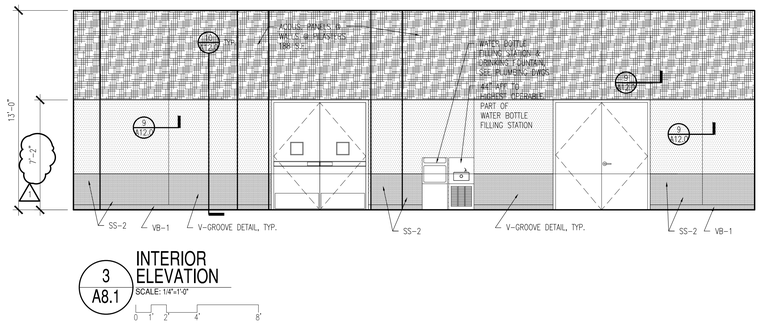
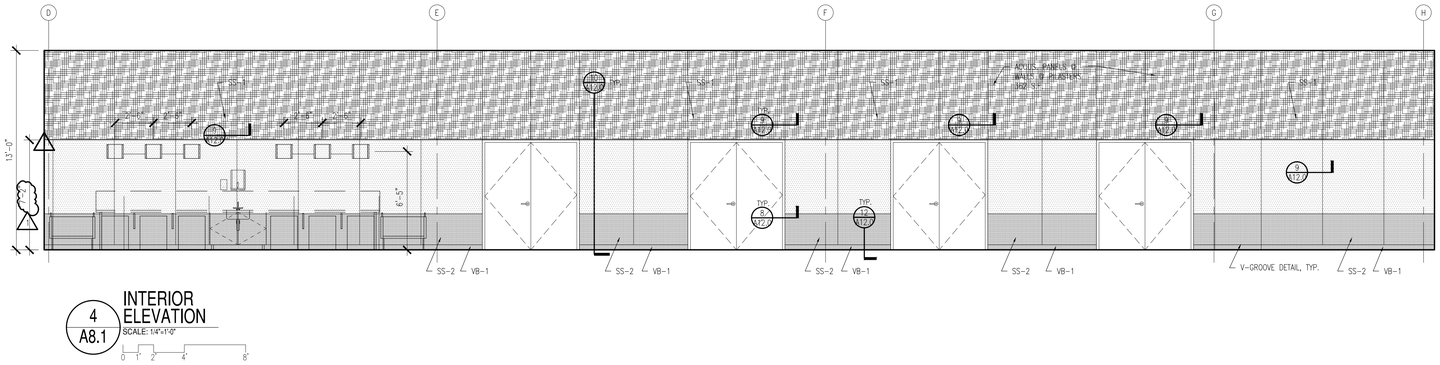
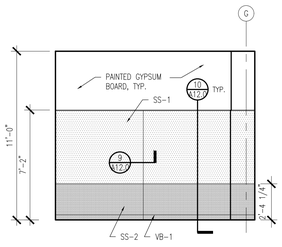
0 1 2 4 8'



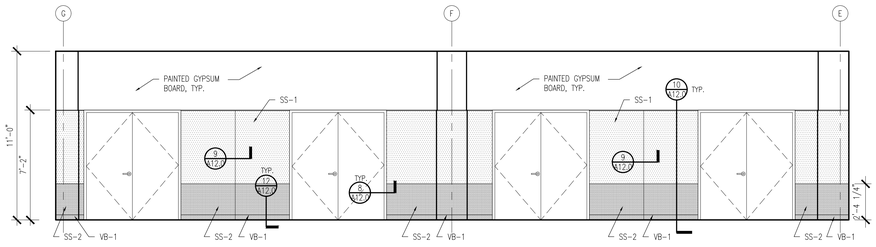
3 A8.1 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1 2 4 8'



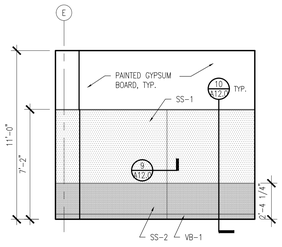
4 A8.1 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1 2 4 8'



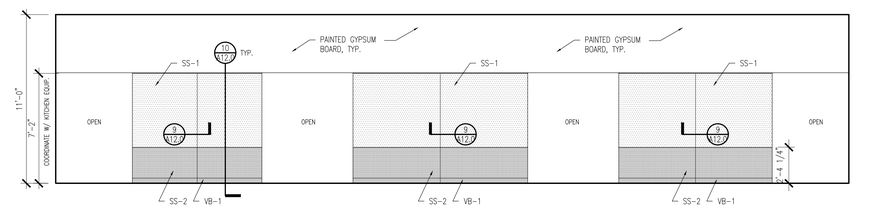
5 A8.1 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1 2 4 8'



6 A8.1 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1 2 4 8'



7 A8.1 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1 2 4 8'



8 A8.1 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1 2 4 8'

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DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
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FILE:	1618-01 A8.1

TITLE
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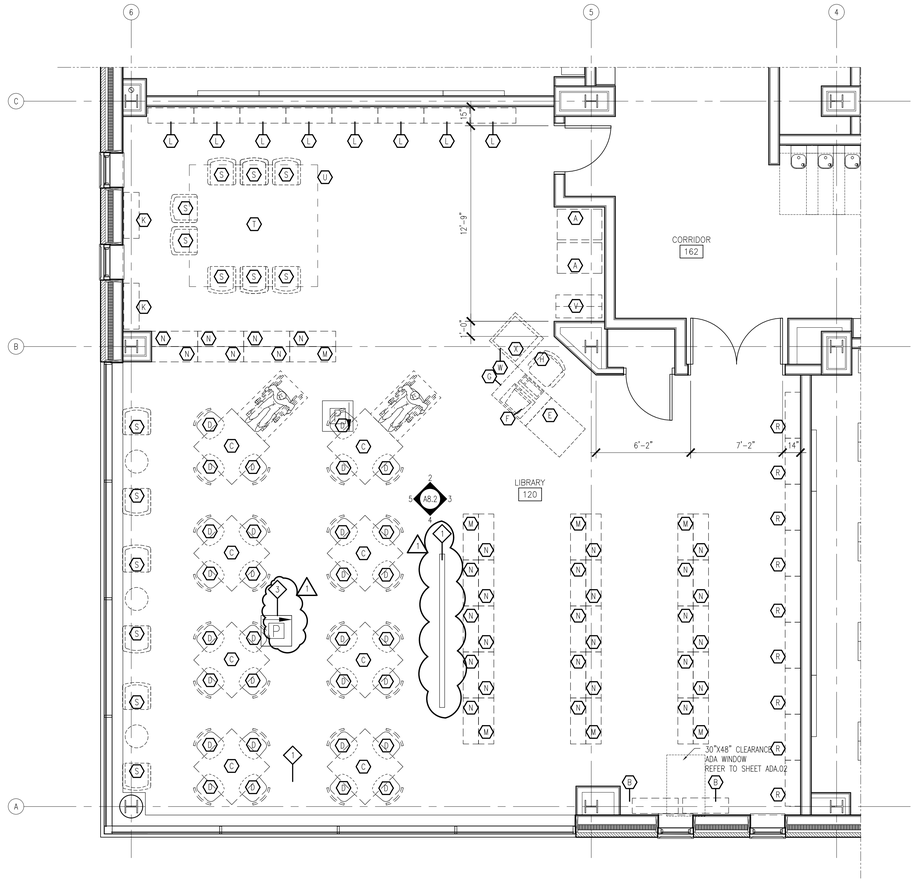
A8.1



N

1 A8.2 ENLARGED LIBRARY FLOOR PLAN
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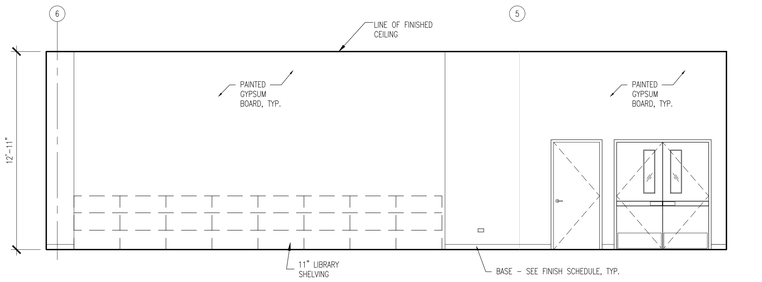
0 2' 4' 8' 16'



2 A8.2 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
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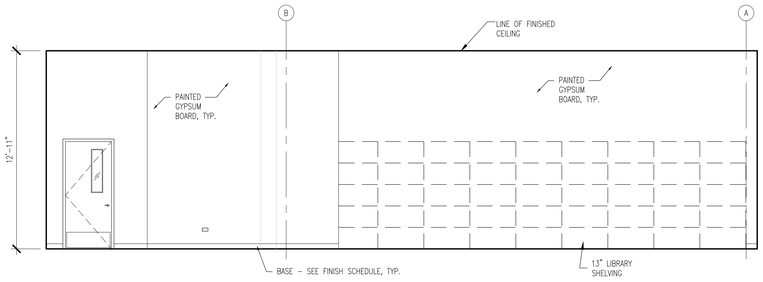

3 A8.2 INTERIOR ELEVATION
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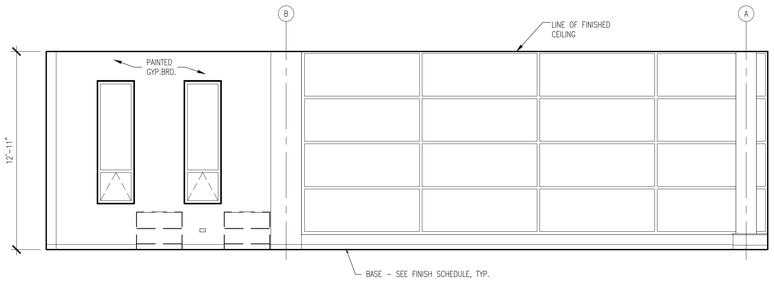
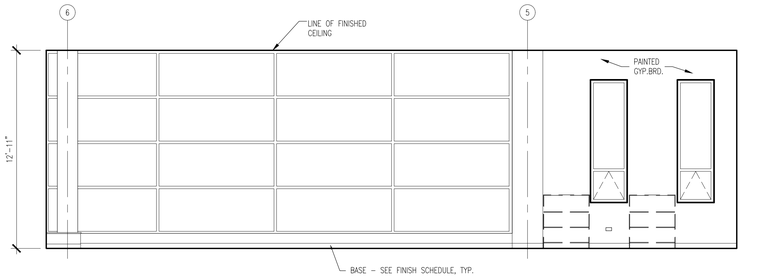
0 1' 2' 4' 8'



4 A8.2 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8'



5 A8.2 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8'

EQUIPMENT LIST (PER ROOM) - LIBRARY

PLAN TAG:

CONTRACTOR PROVIDED & INSTALLED

ITEM#	ITEM REF	DESCRIPTION	SIZE	SPEC.	QTY
1		8' FOOT PROJECTION SCREEN - WALL MOUNTED		115213	1
2		PROVIDE COAT HANGER ROD & SHELF 64/70" A.F.F.			1
3		CEILING MOUNTED PROJECTOR			1

PLAN TAG:

OWNER PROVIDED & INSTALLED

ITEM#	ITEM REF	DESCRIPTION	SIZE	SPEC	QTY
A		LAPTOP CART STORAGE	36"x24"x72 "H		2
B	OF-BC-1	2-SHELF BOOKCASE	36"x12"x30 "H		2
C	LI-TAB-1M	LIBRARY TABLE (MAPLE)	42"x42"x29 "H		8
D	LI-CHR-4	LIBRARY CHAIR	18"x16x32"		32
E	LI-DSK-16-M	MOD.LIB.DESK - OPEN DRAWER UNIT (MAPLE)	36"x30"x32 "H		1
F	LI-DSK-17-	MOD.LIB.DESK - COMPUTER DESK UNIT	36"x30"x32		2
G	LI-DSK-25-	MOD.LIB.DESK - FINISHED END PANEL	1"x30"x32"		1
H	OF-CHR-1	TASK CHAIR w/ARMS	17-21" SEAT HT.		2
J		LAPTOP CHARGING CART	24"x36"		2
K	LI-SHL-9-M	11" LIB. SHELVING (STARTER)	36"x11"x42 "H		2
L	LI-SHL-10-M	11" LIB. SHELVING (ADD-ON)	36"x11"x42 "H		9
M	LI-SHL-29	13" LIB. SHELVING (STARTER)	36"x13"x42		12
N	LI-SHL-30	13" LIB. SHELVING (ADD-ON)	36"x13"x42 "H		42
P	LI-SHL-31	13" LIB. SHELVING -TALL (STARTER)	36"x13"x84 "H		2
R	LI-SHL-32	13" LIB. SHELVING -TALL(ADD-ON)	36"x13"x84 "H		9
S	OF-CHR-6	LOUNGE CHAIR			8
T	EC-XX	RUG	(VARIES)		1
U	EC-9	WOOD TEACHER'S CHAIR	18"x16'', 14" SEAT		1
V	LI-STO-4	DOUBLE SIDED MOBILE LIBRARY CART	36"x18"x42		2
W		MOD.LIB.DESK - PRINTER DESK UNIT	30"x30"x32		1

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX

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CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO
MAYOR RAHM EMANUEL

ILEKIS ASSOCIATES
Architects • Planners
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MAIN: 312-419-0009
Fax: 312-899-0965
Email: info@ilekis.com
www.ilekis.com

Architect of Record

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ALPHONSE A. ILEKIS, AIA

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ISSUANCE

MARK	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	10/25/2016
2	ISSUED FOR DESIGN DEVELOPMENT	12/06/2016
3	ISSUED FOR 60% REVIEW	01/31/2017
4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

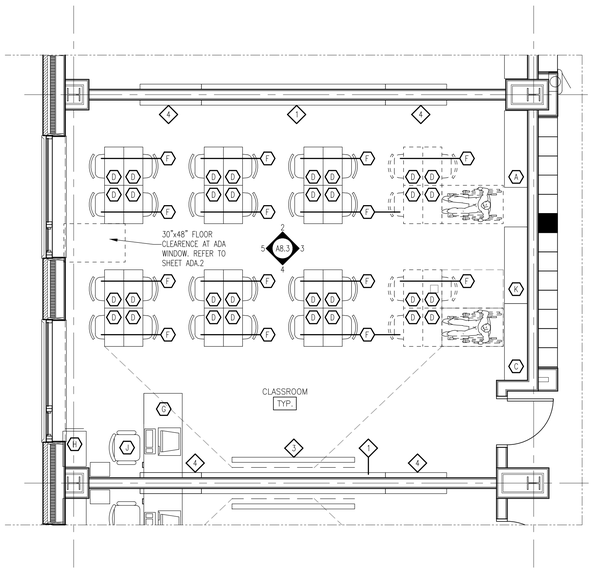
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A8.2

TITLE

ENLARGED FLOOR PLANS

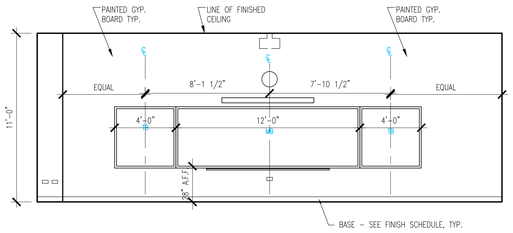
SHEET

A8.2

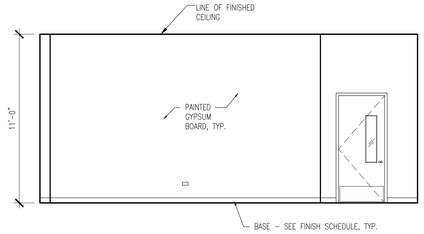


N

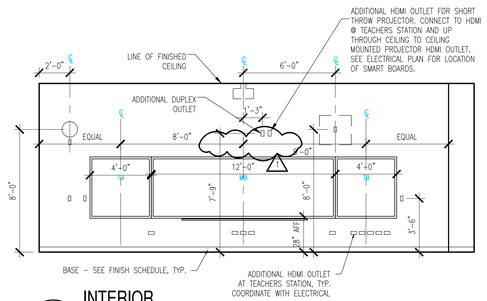
1 A8.3 ENLARGED TYPICAL CLASSROOM FLOOR PLAN
SCALE: 1/4"=1'-0"
0 2' 4' 8' 16'



2 A8.3 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8'

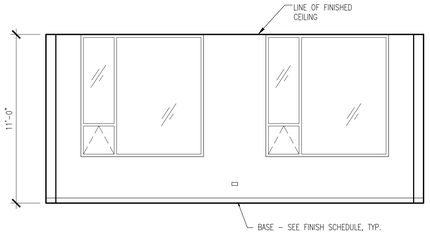


3 A8.3 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8'



4 A8.3 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8'

NOTE:
TO OPTIMIZE ACOUSTICAL PERFORMANCE, DO NOT ATTACH OPPOSING OUTLET BOXES SHOWN IN PLAN TO THE SAME METAL STUD



5 A8.3 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8'

EQUIPMENT LIST (PER ROOM) - TYPICAL CLASSROOM

PLAN TAG:

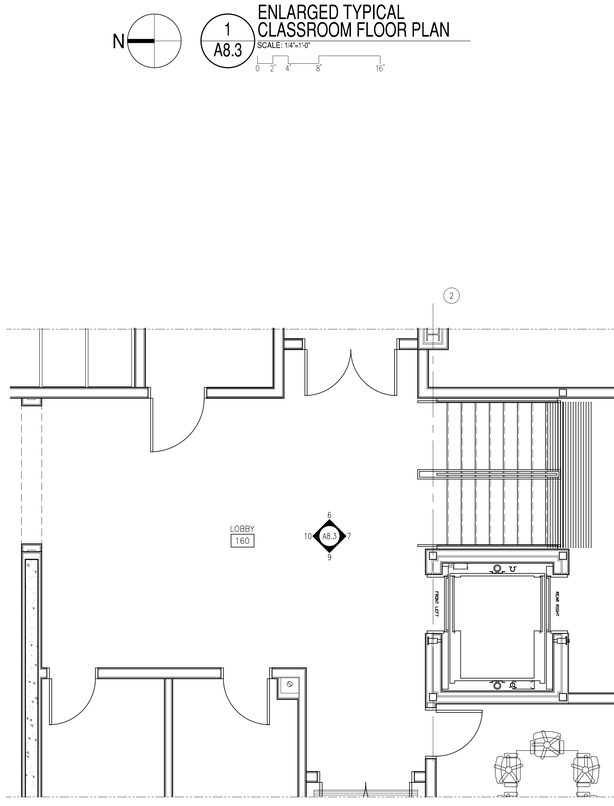
CONTRACTOR PROVIDED & INSTALLED

ITEM#	ITEM REF	DESCRIPTION	SIZE	SPEC.	QTY
1		12'x4' MARKERBOARD	144"x48"	101100	2
2		CONCENTRATOR ENCLOSURES (REFER TO ELECTRICAL DRAWINGS FORT CLASSROOMS WITH CONCENTRATION ENCLOSURES)			(SEE ELEC.)
3		8' PROJECTION SCREEN - WALL MOUNTED		115213	1
4	CL-MISC-15	4'x4' TACKBOARD	48"X48"	10100	4

PLAN TAG:

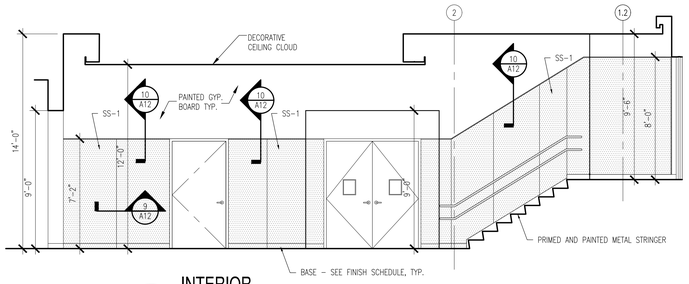
OWNER PROVIDED & INSTALLED

ITEM#	ITEM REF	DESCRIPTION	SIZE	SPEC	QTY
A	CL-STO-2	STORAGE CABINET	36"x24"x72" H		1(x2)
B	CL-STO-3	WARDROBE CABINET	36"x24"x72" H		1(x2)
C	OF-BC-3	(TALL) BOOKCASE	36"x12"x72" H		1(x2)
D	CL-DSK-3	STUDENT DESK w/BOOK BOX	24"x18"x22-30H		28
E	CL-DSK-5	ACCESSIBLE STUDENT DESK	36"x20"x26-30"H		2
F	CL-CHR-6	STUDENT CHAIR	15" SEAT HEIGHT		30
G	OF-DSK-1	SINGLE PEDESTAL TEACHER'S DESK	48"x30"x29"		1
H	OF-FL-1	2-DRAWER VERTICAL FILE	18"x30"x29" H		1
J	OF-CHR-1	TASK CHAIR w/ARMS	17-21" SEAT HEIGHT		1
K		LAPTOP CHARGING CART	24"x36"		1

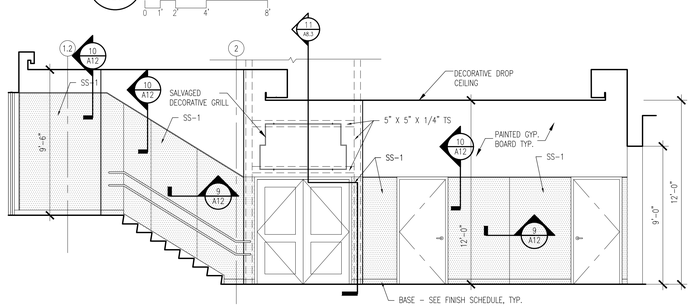


N

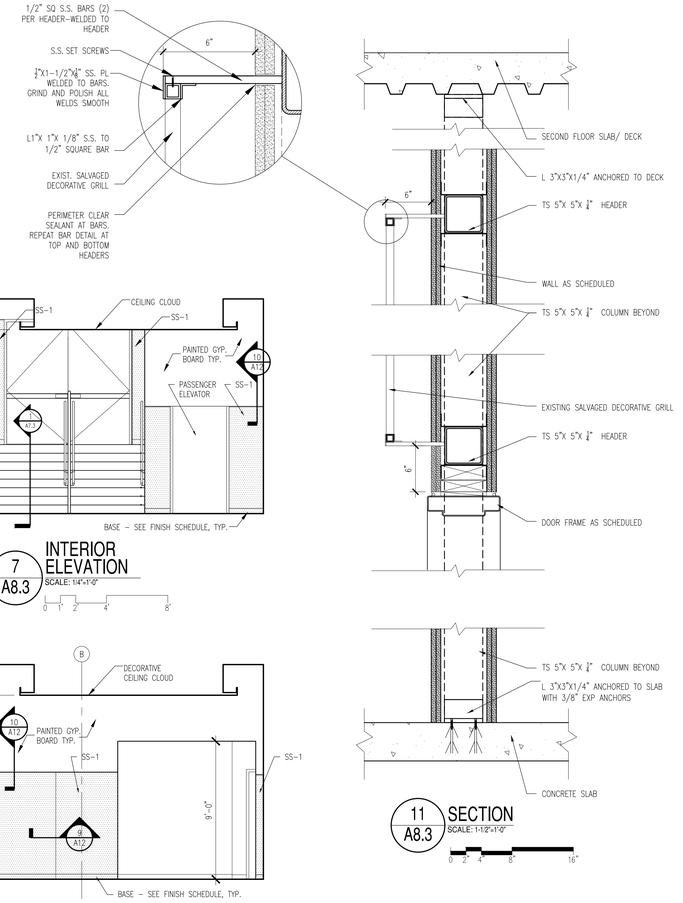
8 A8.3 ENLARGED LOBBY FLOOR PLAN
SCALE: 1/4"=1'-0"
0 2' 4' 8' 16'



6 A8.3 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8'



9 A8.3 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8'



7 A8.3 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8'

10 A8.3 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8'

11 A8.3 SECTION
SCALE: 1-1/2"=1'-0"
0 2' 4' 8' 16'

CITY REVIEW

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4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

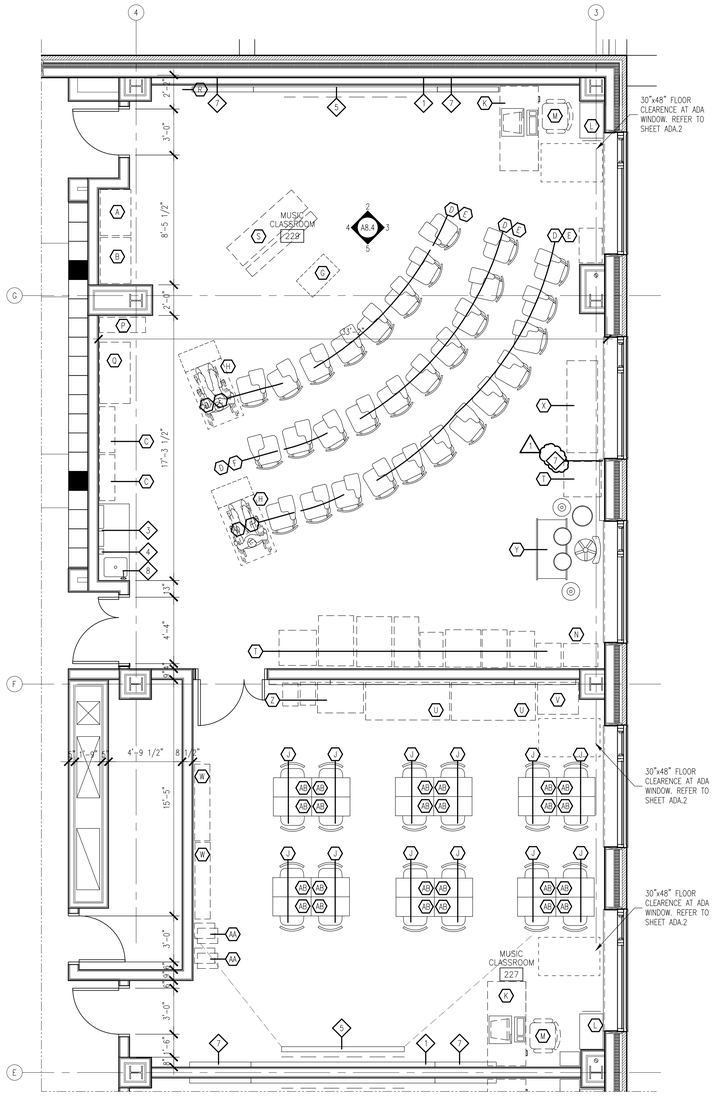
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A1.1

TITLE

ENLARGED FLOOR PLANS

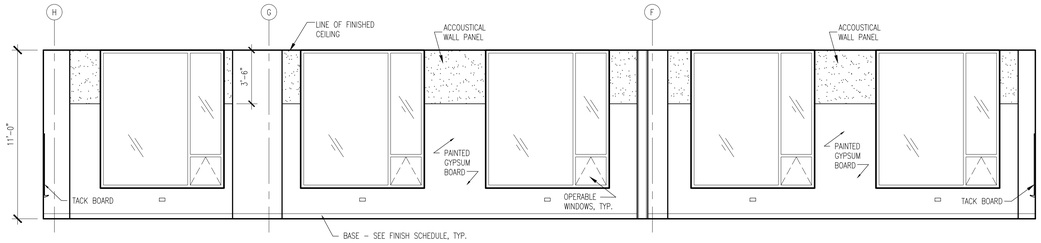
SHEET

A8.3

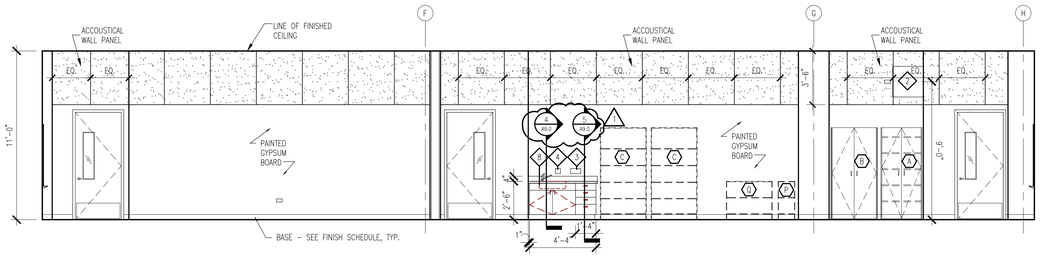


N

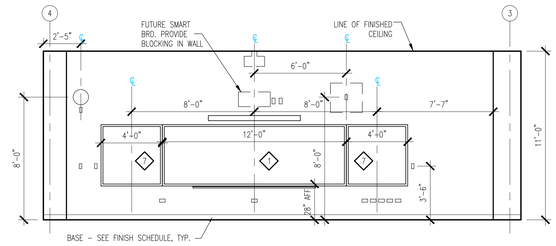
1 A8.4 ENLARGED FLOOR PLAN
MUSIC CLASSROOM
SCALE: 1/4"=1'-0"



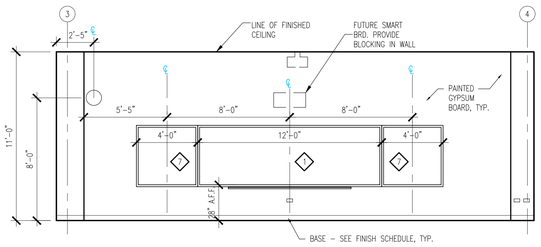
3 A8.4 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



4 A8.4 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



2 A8.4 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



5 A8.4 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"

EQUIPMENT LIST (PER ROOM) - MUSIC CLASSROOM

PLAN TAG:	CONTRACTOR PROVIDED AND INSTALLED				
ITEM#	ITEM REF	DESCRIPTION	SIZE	SPEC.	QTY
1		12'x4' MARKERBOARD	144"x48"	101100	2
2		CONCENTRATOR ENCLOSURES			2
5		8' FOOT PROJECTION SCREEN - WALL MOUNTED		115213	2
6		NOT USED			
7	CL-MISC-15	4'x4' TACKBOARD	48"x48"	101100	5
8		ADULT REACH SINK w/C-TOP		64023	1

OWNER PROVIDED & INSTALLED		PLAN TAG:			
ITEM#	ITEM REF	DESCRIPTION	SIZE	SPEC	QTY
A	CL-STO-2	STORAGE CABINET	36"x24"x72" H		1
B	CL-STO-3	WARDROBE CABINET	36"x24"x72" H		1
C	OF-BC-3	(TALL) BOOKCASE	36"x12"x72" H		1
D	MU-CHR-1	MUSIC CHAIR	54"x24x34"		28
E	MU-CHR-3	RIGHT-HANDED TABLET ATTACHMENT	36"x20"x26-30"H		26
F	MU-CHR-4	LEFT-HANDED TABLET ATTACHMENT	48"x30"x29"		2
G	MU-MISC-18	MUSIC STAND	18"x30"x29"		30
H	CL-DSK-5	ACCESSIBLE STUDENT DESK	17-21" SEAT HT.		4
J	CL-CHR-6	STUDENT CHAIR	4-6.5 Cu.Ft.		60
K	OF-DSK-1	SINGLE PEDESTAL TEACHER'S DESK	36"x35"x23.5"H		2
L	OF-FL-1	2-DRAWER VERTICAL FILE	36"x35"x22" H		2
M	OF-CHR-1	TASK CHAIR w/ ARMS	24"x36"		2
N		LAPTOP CHARGING CART			1
P	MU-MISC-19	MUSIC STAND STORAGE CART	36"x12"x30" H		1
Q	MU-STO-21	MOBILE PERCUSSION CABINET			1
R	MU-STO-1	CHORAL CABINET - 2 COLUMNS			1
S		UPRIGHT PIANO			1
T		MUSICAL INSTRUMENT STORAGE CABINETS			1
U		GUITARS & UKULELE STORAGE CABINET			1
V		SOUND BOARD MOVEABLE CART			1
W		ELECTRIC PIANO STORAGE			1
X		XYLAPHONE STORAGE			1
Y		DRUM SET STORAGE			1
Z		BARRINTONE SAX & TUBA STORAGE			1
AA		AMPLIFIERS STORAGE CABINET			1
AB		STUDENT DESK			24

PLAN TAG:	OWNER PROVIDED AND G.C. INSTALLED				
3		PAPER TOWEL DISPENSER PROVIDED BY ARAMARK/SODEXO, & INSTALLED BY G.C.		102813	1
4		SOAP DISPENSER PROVIDED BY ARAMARK/SODEXO, & INSTALLED BY G.C.		102813	1

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6	ISSUED FOR 100% REVIEW	04/4/2017
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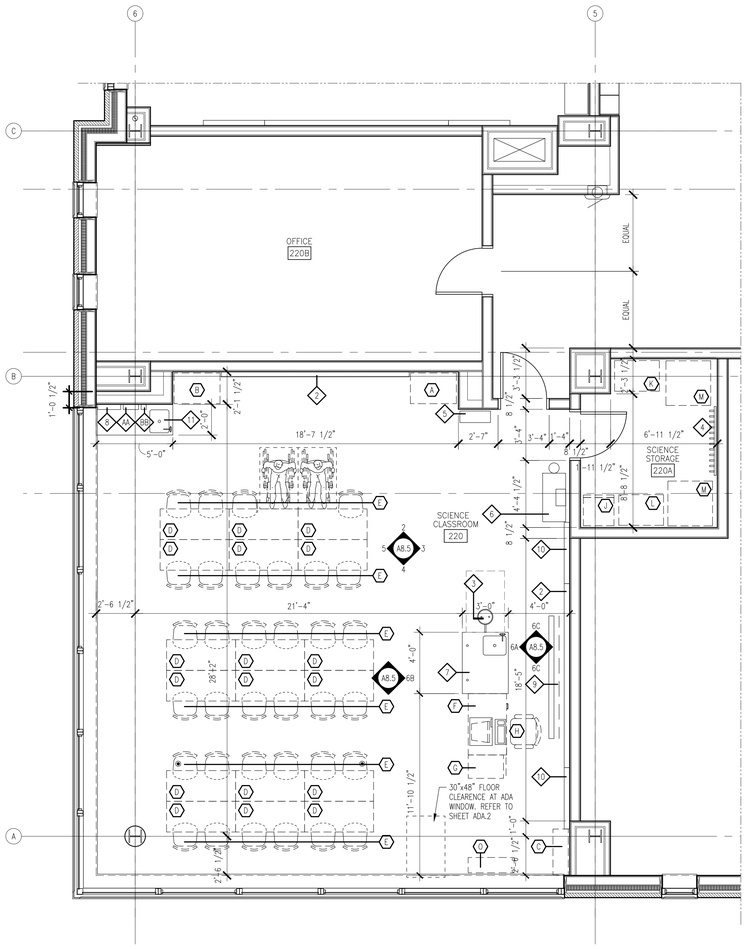
8	ADDENDUM 1	05/16/2017
9		
10		

DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A8.4

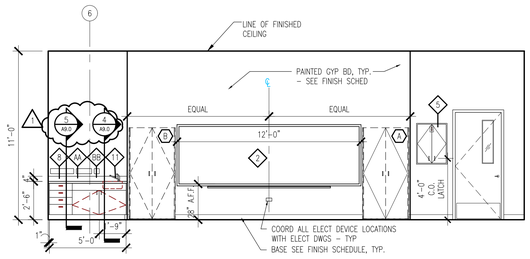
TITLE
ENLARGED FLOOR PLANS

SHEET
A8.4

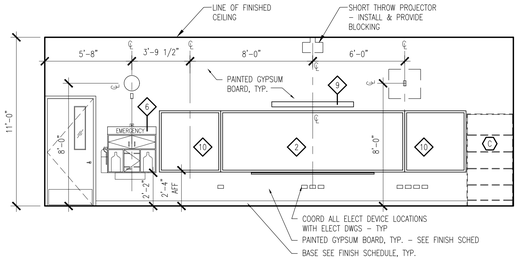


N

1 A8.5 ENLARGED FLOOR PLAN SCIENCE CLASSROOM
SCALE: 1/4"=1'-0"



2 A8.5 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



3 A8.5 INTERIOR ELEVATION
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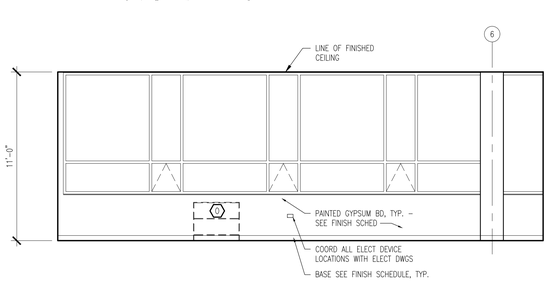
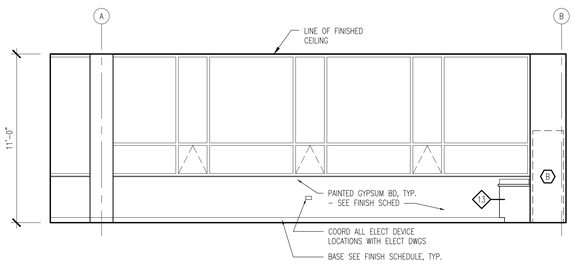
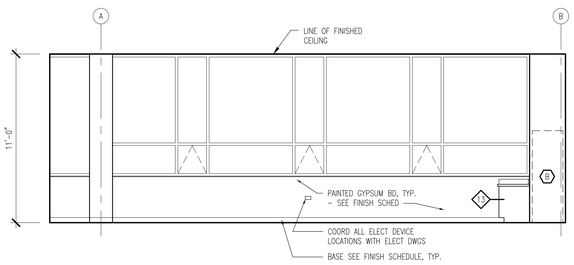
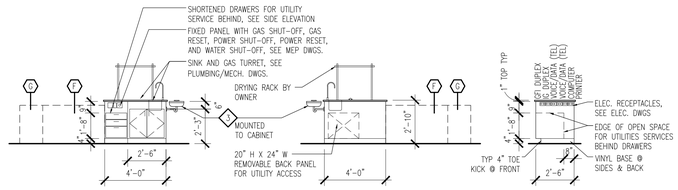


4 A8.5 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"





5 A8.5 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



6A A8.5 DEMO TABLE FRONT ELEV
SCALE: 1/4"=1'-0"

6B A8.5 DEMO TABLE BACK ELEV
SCALE: 1/4"=1'-0"

6C A8.5 DEMO TABLE TYP SIDE ELEV
SCALE: 1/4"=1'-0"

EQUIPMENT LIST (PER ROOM) - SCIENCE CLASSROOM

CONTRACTOR PROVIDED & INSTALLED — PLAN TAG:

ITEM#	ITEM REF	DESCRIPTION	SIZE	SPEC.	QTY
1		NOT USED			
2		12'x4' MARKERBOARD		224000	2
3		EMERGENCY EYEWASH		123553	1
4		LAB COAT HOOK UNIT		123553	1
5		GOGGLE SANITIZER (CAP.40)		123553	1
6		EMERGENCY CENTER (CABINET)		123553	1
7		DEMO TABLE w/ 16"x12"x8" SINK		123553	1
8		PLASTIC LAB. GLASSWARE & DRYING, DRAINING RACK		123553	1
9		8' FOOT PROJECTION SCREEN - WALL MOUNTED		115213	1
10	CL-MISC-15	4'x4' TACKBOARD		101100	2
11		ADULT REACH SINK w/C TOP		64023	1

OWNER PROVIDED & INSTALLED — PLAN TAG:

ITEM#	ITEM REF	DESCRIPTION	SIZE	SPEC	QTY
A	CL-STO-2	WARDROBE CABINET	36"x24"x72"H		1
B	CL-STO-3	STORAGE CABINET	36"x24"x72"H		1
C	OF-BC-3	(TALL) METAL BOOKCASE	36"x12"x72"H		1
D	CL-TAB-35-M	LABORATORY TABLE	54"x24x34"H		28
E	CL-CHR-9	STUDENT LAB STOOL	36"x20"x26-30"H		2
F	OF-DSK-1	SINGLE PEDESTAL TEACHER'S DESK	48"x30"x29		1
G	OF-FL-1	2-DRAWER VERTICAL FILE	18"x30"x29		1
H	OF-CHR-1	TASK CHAIR w/ ARMS	17-21" SEAT HT.		1
J		BAR REFRIGERATOR	4-6.5		1
K		HAZARDOUS (ACID) STORAGE CABINET	36"x35"x23.5"H		1
L		FLAMMABLE STORAGE CABINET	36"x35"x22"H		1
M		LAPTOP CHARGING CART	24"x36"		2
N		NOT USED			
O	OF-BC-1	BOOKCASE	36"x12"x30"H		1 @ RM 326

OWNER PROVIDED & CONTRACTOR INSTALLED — PLAN TAG:

ITEM#	ITEM REF	DESCRIPTION	SIZE	SPEC.	QTY
AA		PAPER TOWEL DISPENSER		102813	1
BB		SOAP DISPENSER		102813	1

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DRAWN BY: ILEKIS ASSOCIATES
SCALE: SEE DRAWING
PROJ. NAME: BYRNE ANNEX
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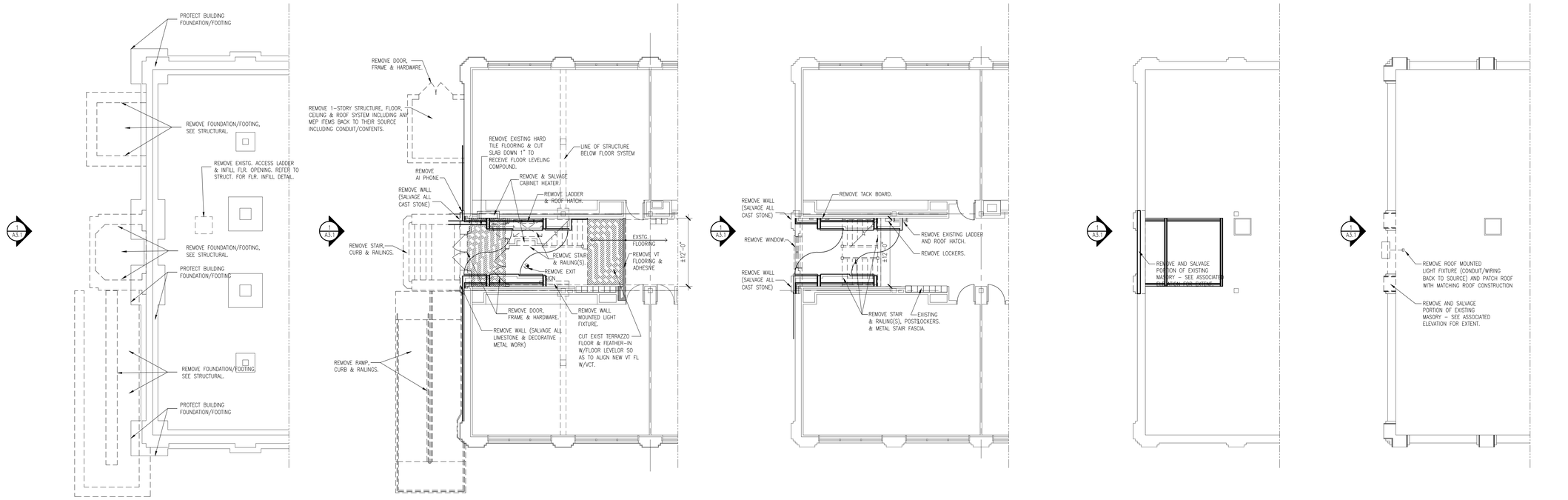
FILE: 1618-01 A8.5

TITLE
ENLARGED FLOOR PLANS

SHEET
A8.5



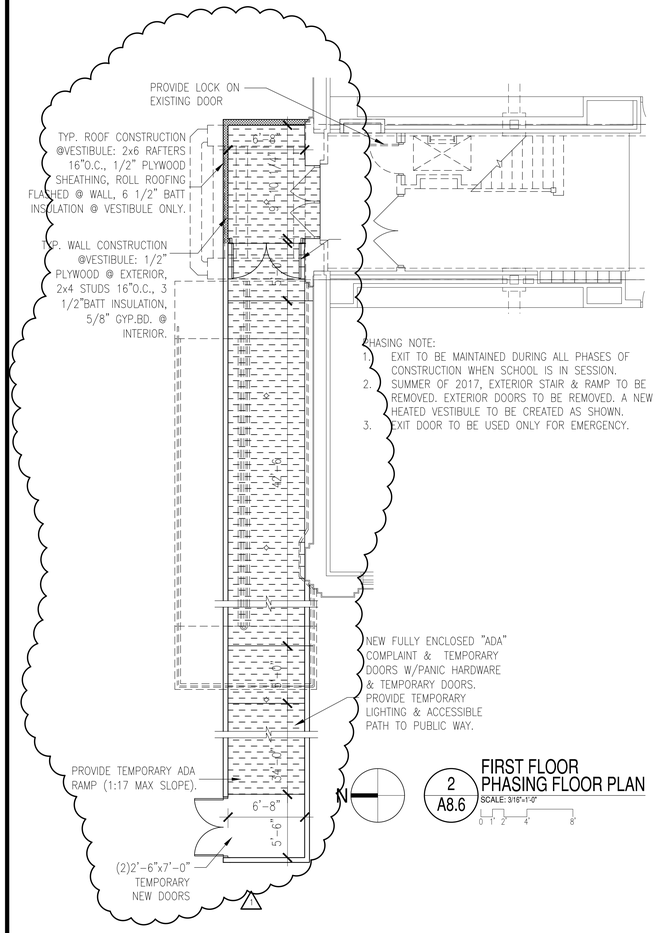
N — 1 A8.6 — LOWER LEVEL DEMOLITION PLAN — SCALE: 1/8"=1'-0" — 0 2 4 8 16'

N — 3 A8.6 — FIRST FLOOR DEMOLITION PLAN — SCALE: 1/8"=1'-0" — 0 2 4 8 16'

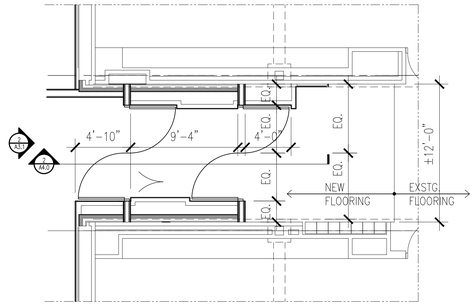
N — 5 A8.6 — SECOND FLOOR DEMOLITION PLAN — SCALE: 1/8"=1'-0" — 0 2 4 8 16'

N — 7 A8.6 — ATTIC DEMOLITION PLAN — SCALE: 1/8"=1'-0" — 0 2 4 8 16'

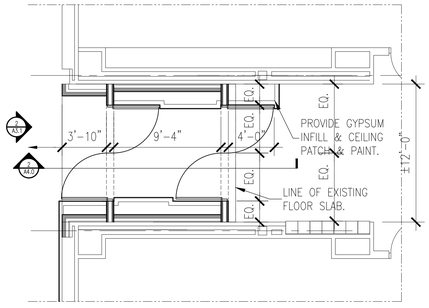
N — 9 A8.6 — ROOF DEMOLITION PLAN — SCALE: 1/8"=1'-0" — 0 2 4 8 16'



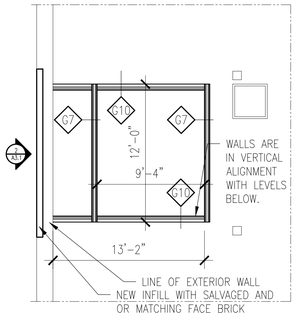
N — 2 A8.6 — FIRST FLOOR PHASING FLOOR PLAN — SCALE: 3/16"=1'-0" — 0 1' 2' 4' 8'



N — 4 A8.6 — FIRST FLOOR FLOOR PLAN — SCALE: 3/16"=1'-0" — 0 1' 2' 4' 8'



N — 6 A8.6 — SECOND FLOOR FLOOR PLAN — SCALE: 3/16"=1'-0" — 0 1' 2' 4' 8'



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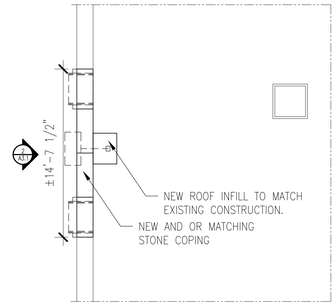
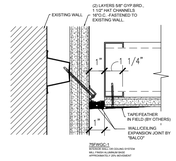
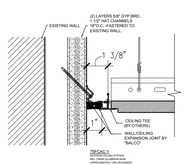


NOTE:
SEE A1.3 FOR ROOF PLAN AND COORDINATE.

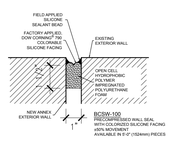
N — 10 A8.6 — ROOF PLAN — SCALE: 3/16"=1'-0" — 0 1' 2' 4' 8'



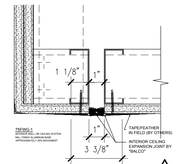
11 A8.6 — GYPSUM BOARD JOINT DETAIL BETWEEN ANNEX & EXIST. BLDG. — SCALE: 3"=1'-0"



12 A8.6 — ACOUSTICAL TILE CEILING JOINT DETAIL BETWEEN ANNEX & EXIST. BLDG. — SCALE: 3"=1'-0"



13 A8.6 — EXTERIOR WALL/WALL JOINT DETAIL BETWEEN ANNEX & EXIST. BLDG. — SCALE: 3"=1'-0"



14 A8.6 — GYPSUM CEILING/WALL JOINT DETAIL BETWEEN ANNEX & EXIST. BLDG. — SCALE: 3"=1'-0"

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THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE APPLICABLE CODES AND BUILDING REGULATIONS.

ALPHONSE A. ILEKIS, AIA

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DRAWN BY:	ILEKIS ASSOCIATES
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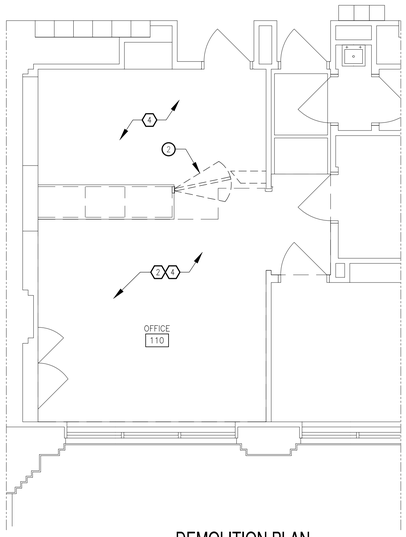
TITLE

ENLARGED FLOOR PLANS

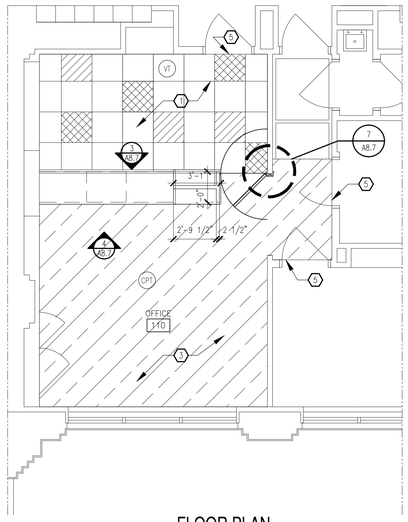
SHEET

A8.6



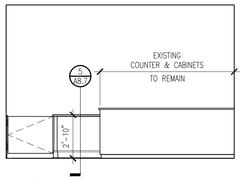
N

1 A8.7 DEMOLITION PLAN OFFICE 110
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8' 16'

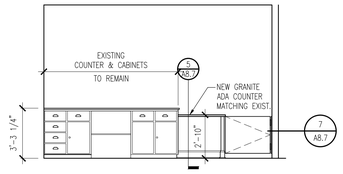


N

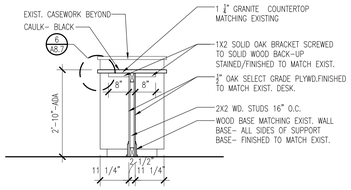
2 A8.7 FLOOR PLAN OFFICE 110
SCALE: 1/4"=1'-0"
0 2' 4' 8' 16'



3 A8.7 ELEVATION
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8'



4 A8.7 ELEVATION
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8'



5 A8.7 SECTION DETAIL
SCALE: 1/2"=1'-0"

FINISH SYMBOL LEGEND:

SUBSTRATE MATERIAL / FINISH MATERIAL

WALL FINISH | FLOOR FINISH | BASE FINISH | FINISH CEILING

MATERIAL FINISH

COLOR PATTERNING
CORRIDORS AS MARKED AND CLASSROOMS FOLLOWING RM 122

- VT-1 (10%)
- VT-2 (30%)
- VT-3 (60%)
- CPT

ABBREVIATIONS

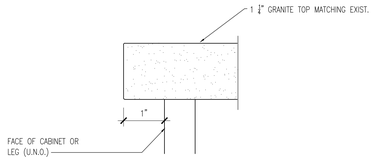
VT	RESILIENT TILE FLOORING
CT	CERAMIC TILE FLOOR
CPT	CARPET
SC	EPOXY COATING
SDRF	STATIC DISSIPATIVE RESILIENT FLOORING
EFM	ENTRY FLOOR MAT
RUB	INTEGRATED RUBBER NOSE AND TREAD
VB	VINYL BASE
CB	CERAMIC BASE
ACT	ACOUSTICAL CEILING TILE AND GRID

KEYNOTES:

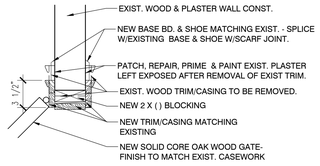
1. INSTALL NEW VT TILE IN RANDOM PATTERN OVER EXIST. VCT FLOOR. PATCH EXIST. VCT FLOORING SO AS TO PROVIDE CONTINUOUS SUBSTRATE FREE OF BUMPS & INDENTS.
2. REMOVE EXIST. CARPETING, ASSOCIATED PADDING, TACK STRIPS & PATCH EXIST. FLOORING SO AS TO PROVIDE CONTINUOUS SMOOTH SUBSTRATE FREE OF BUMPS & INDENTS FOR INSTALLATION OF NEW CARPETING.
3. FOLLOW SPECIFICATIONS AND INSTALL NEW CARPETING.
4. REMOVE EXIST. BASE SHOE & INSTALL NEW BASE SHOE MATCHING EXIST. WOOD SPECIES, COLOR, & FINISH.
5. NEW ADA COMPLIANT VINYL FLOOR TRANSITION.
6. REMOVE EXISTING GATE, ASSOCIATED HARDWARE, & ADJACENT COUNTER BASE & TOP. PATCH WALL, FLOORING, CASEWORK & TRIM TO MATCH EXIST.

DEMOLITION FLOOR PLAN KEYNOTES

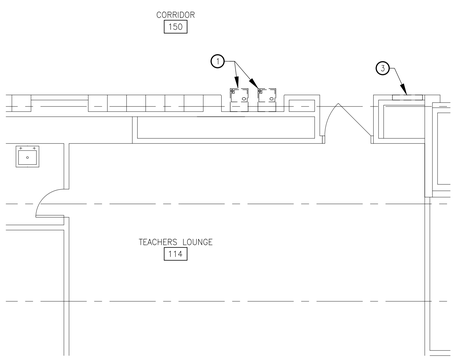
1. REMOVE EXISTING DRINKING FOUNTAINS AND REWORK THE PLUMBING PER NEW FIXTURES.
2. REMOVE EXISTING GATE, ASSOCIATED HARDWARE, & ADJACENT COUNTERBASE & TOP. PATCH WALL, FLOORING, CASEWORK & TRIM TO MATCH EXISTING.
3. REMOVE EXISTING GLAZED MASONRY AS REQUIRED.



6 A8.7 DETAIL - RECEPTION DESK EDGE
SCALE: N.T.S.



7 A8.7 GATE JAMB DETAIL
SCALE: 1 1/2"=1'-0"



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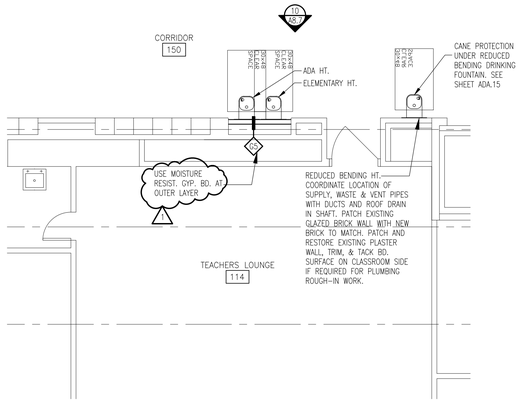
8 A8.7 DEMOLITION PLAN CORRIDOR 150
SCALE: 1/4"=1'-0"
0 2' 4' 8' 16'



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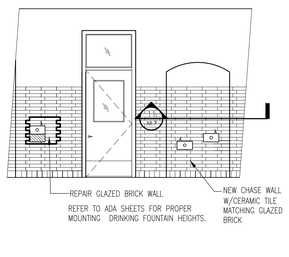
9 A8.7 FLOOR PLAN CORRIDOR 150
SCALE: 1/4"=1'-0"
0 2' 4' 8' 16'



10 A8.7 ELEVATION
SCALE: 1/4"=1'-0"
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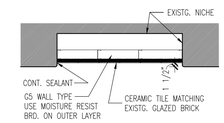

11 A8.7 ENLARGED DETAIL
SCALE: 1/2"=1'-0"

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX

5329 S. OAK PARK AVE.,
CHICAGO, IL
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO
MAYOR RAHM EMANUEL

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Email info@ilekis.com
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ACOUSTICAL ENGINEER

MVP SERVICES GROUP
CHICAGO, ILLINOIS
FOOD SERVICES CONSULTANT

ECOVIDAL DESIGN INC.
CHICAGO, ILLINOIS
LEED CONSULTANT

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE APPLICABLE CODES AND BUILDING REGULATIONS.

ALPHONSE A. ILEKIS, AIA

WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE SCHOOL HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2 REGARDLESS OF CONCENTRATIONS. THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES. FOR ALL SMALL SCALE DISTURBANCES, THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MIGRATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE. WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION PROJECT SPECIFICATIONS. WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

ISSUANCE

MARK	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	10/25/2016
2	ISSUED FOR DESIGN DEVELOPMENT	12/06/2016
3	ISSUED FOR 60% REVIEW	01/31/2017
4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

1

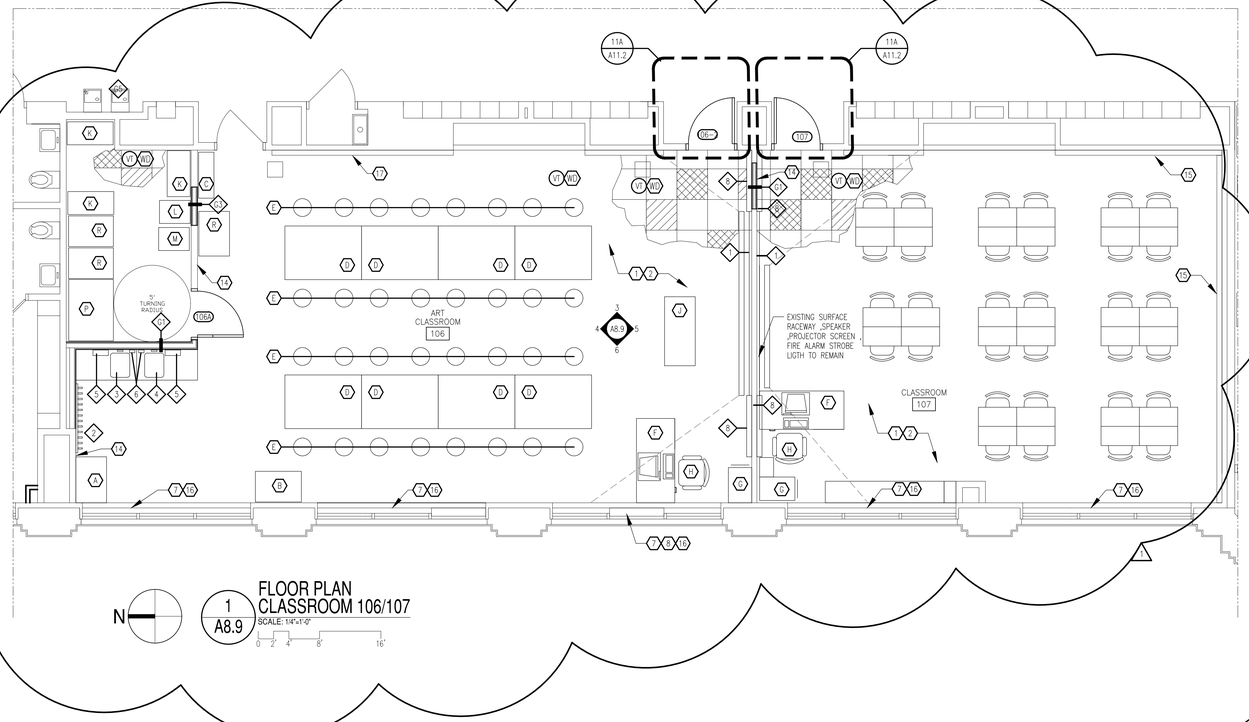
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A8.4

TITLE

ENLARGED FLOOR PLANS

SHEET

A8.7



N

1 A8.9 FLOOR PLAN CLASSROOM 106/107
SCALE: 1/4"=1'-0"
0 2 4 8 16

EQUIPMENT LIST (PER ROOM) - ART CLASSROOM

CONTRACTOR PROVIDED & INSTALLED — PLAN TAG:

ITEM#	ITEM REF	DESCRIPTION	SIZE	SPEC.	QTY
1		12' x4' MARKERBOARD	144.x40"	101100	2
2		APRON HOOK UNIT	54"x5" (36 HOOKS)	064023	1
3		ADULT-REACH SINK w/ C'TOP	60"x24"x34 "	064023	1
4		UNDER-12 SINK w/ C'TOP	60"x24"x30 "	064023	1
7		8' PROJECTION SCREEN - WALL MTD.		115213	1
8	CL-MISC-15	4' x 4' TACKBOARD	48" x48"	101100	4

OWNER PROVIDED & INSTALLED — PLAN TAG:

ITEM#	ITEM REF	DESCRIPTION	SIZE	SPEC	QTY
A	CL-STO-2	STORAGE CABINET	36"x24"x72 "H		1
B	CL-STO-3	WARDROBE CABINET	36"x24"x72 "H		1
C	OF-BC-3	(TALL) BOOKCASE	36"x12"x30 "H		1
D	CL-TAB-1	ART CLASSROOM TABLE	60"x42x3D" H		8
E	CL-CHR-9	STUDENT LAB STOOL	36"x2D"x26-30"H		32
F	OF-DSK-1	SINGLE PEDESTAL TEACHER'S DESK	48"x3D"x29 "H		1
G	OF-FL-1	2-DRAWER VERTICAL FILE	18"x30"x29 "H		1
H	OF-CHR-1	TASK CHAIR w/ ARMS	17-21" SEAT HT.		1
J	CL-TAB-35-M	EPOXY TOP TABLE (MAPLE)	54"x24"x34 "H		1
K	OF-MISC-5	OPEN SHELVING	36"x1B"x84 "H		3
L	OF-MISC-NC-21	MOBILE UTILITY CART	24"x18"x34 "H		1
M		(TALL) KITCHEN RACK w/ 5 PANS	24"x18"x72 "		1
N	CL-MISC-22	ART DRYING RACK (g'x18" SHELF, 2 SIDED)	18'x22"x60 "		1
P	CL-STO-6	FLAT FILE	48"x35"x16 "		2
R		LAPTOP CHARGING CART	24" X 36"		3

OWNER PROVIDED & G.C. INSTALLED — PLAN TAG:

5		PAPER TOWEL DISPENSER PROVIDED BY ARAMARK/SODEXO & INSTALLED BY G.C.		102813	1
6		SOAP DISPENSER PROVIDED BY ARAMARK/SODEXO & INSTALLED BY G.C.		102813	1

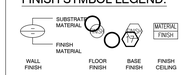
GENERAL NOTES:

1. SEE A0.1 FOR ROOM SIGN SCOPE.
2. SEE A12.0 FOR ROOM FINISH INFORMATION.
3. FOR CLARITY ENTIRE FLOOR PATTERN HAS NOT BEEN SHOWN, SEE CLASSROOMS ON A12.1–A12.2
4. SEE TYPICAL CLASSROOM ELEVATIONS 8/A8.9

KEYNOTES:

1. NEW VINYL FLOORING AND (3–COLOR RANDOM PATTERN). INSTALL SALVAGED WOOD QUARTER ROUND BASE. PROVIDE NEW MATCHING AS REQUIRED.
2. SCRAPE ALL EXISTING LOOSE PAINT SKIM COAT SAID AREAS & PRIME/PAINT WALL SURFACES & CEILING AT WINDOW BULKHEADS.
3. NOT USED
4. NOT USED
5. NOT USED
6. CEILING MOUNTED PROJECTOR LOCATION
7. PROVIDE WINDOW TREATMENT
8. PROVIDE CPS STANDARD TEACHER DROP SEE ELECTRICAL
9. PROVIDE ACOUSTICAL SUSPENDED CEILING GRID AND TILE.
10. NEW LIGHT FIXTURES, SEE ELECTRICAL.
11. IN EXTERIOR UNIT UPPER SASH WHERE WINDOW EXHAUST FANS HAVE BEEN REMOVED, PROVIDE 1" INSULATED GLAZING (+/– 28 ⅛" x 47") MATCHING EXISTING.
12. AT EXTERIOR WINDOW UNIT PROVIDE (+/– 29"x48" INSECT SCREEN MATCHING EXISTING).
13. PATCH ALL EXISTING WALL SURFACES ASSOCIATED W/REMOVAL OF EXISTING WALL MOUNTED DEVICES OR TRIM.
14. NEW WOOD BASE & CHAIR RAIL MATCHING EXISTING (PROVIDE SCORE JOINT AT INFILL CONDITIONS.
15. REFER TO SPECIFICATIONS & RESURFACE EXISTING CHALK BOARD W/ERASEABLE MARKER BRD. SURFACE.
16. REPLACE ALL EXISTING MIS–MATCHED/SEGMENTED WINDOW STOOL APRONS WITH NEW, TO MATCH EXISTING.
17. REMOVE EXISTING TRIM/MOLDING & CORK BRD. SURFACE & INSTALL NEW PORCELAIN MARKER BRD. SKIN OVER NEW 1/4" MASONITE. SCREW MASONITE INTO WOOD BACK–UP USING COUNTER–SUNK SCREWS. INSTALL NEW TRIM (MATCHING EXISTING) MAKING CERTAIN THAT TRIM OVERLAPS NEW MARKER BRD. SKIN.

FINISH SYMBOL LEGEND:

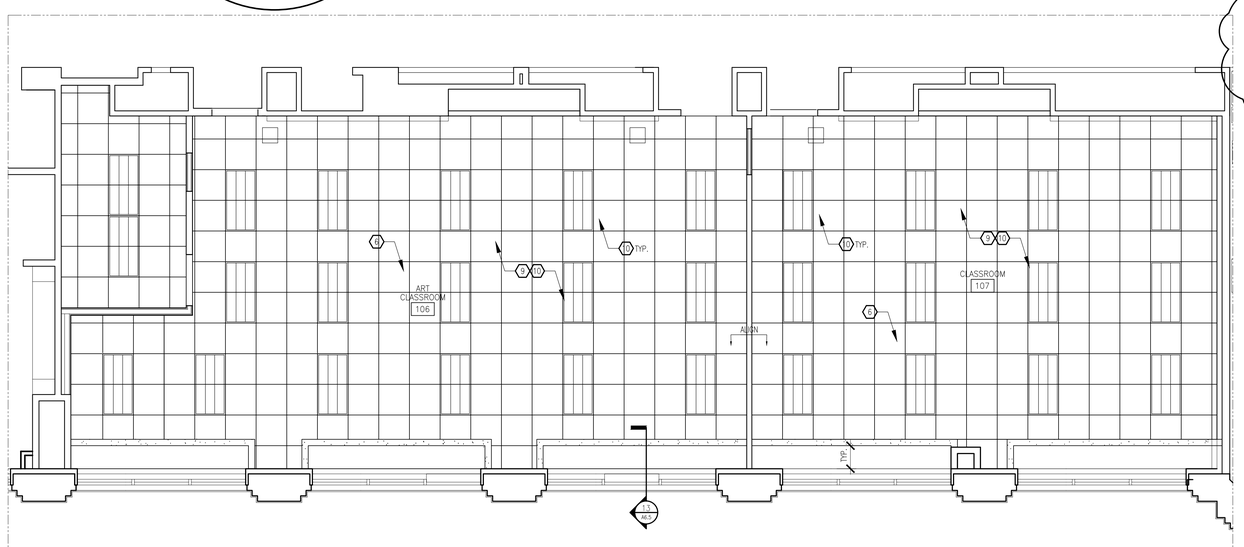


COLOR PATTERNING
CORRIDORS AS MARKED AND CLASSROOMS FOLLOWING RM 122

- VT-1 (10%)
- VT-2 (30%)
- VT-3 (60%)
- CPT

ABBREVIATIONS

VT	RESILIENT TILE FLOORING
CT	CERAMIC TILE FLOOR
CPT	CARPET
SC	EPOXY COATING
SDRF	STATIC DISSIPATIVE RESILIENT FLOORING
EFM	ENTRY FLOOR MAT
RUB	INTEGRATED RUBBER NOSE AND TREAD
VB	VINYL BASE
CB	CERAMIC BASE
ACT	**ACOUSTICAL CEILING TILE AND GRID**



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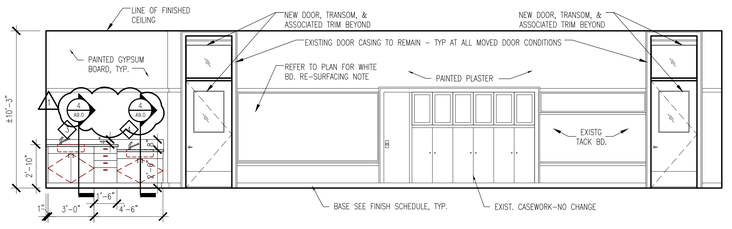
2 A8.9 REFLECTED CEILING PLAN CLASSROOM 106/107
SCALE: 1/4"=1'-0"
0 2 4 8 16



3 A8.9 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
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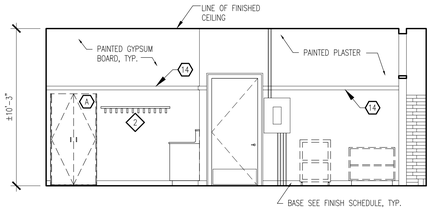

4 A8.9 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
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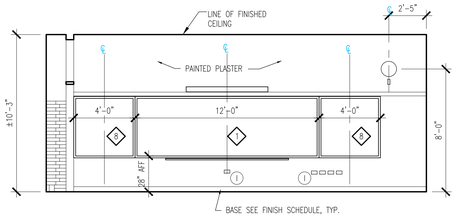

5 A8.9 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"
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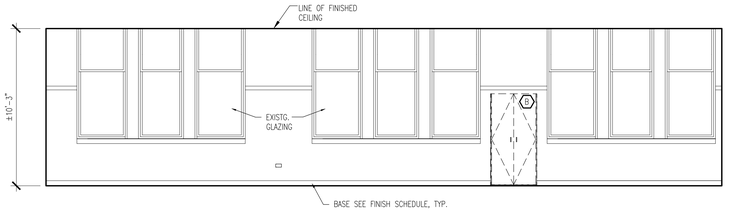

6 A8.9 INTERIOR ELEVATION
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ALPHONSE A. ILEKIS, AIA

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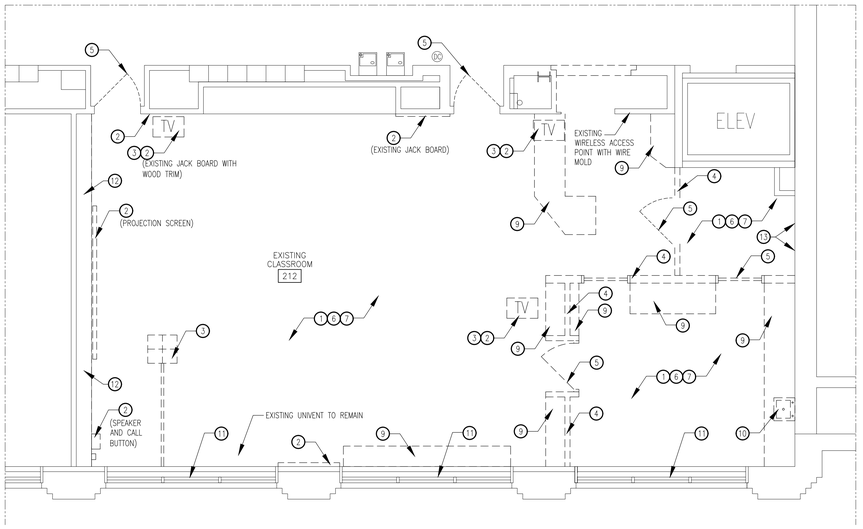
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A8.9

TITLE
ENLARGED FLOOR PLANS

SHEET
A8.9



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1 A8.10 DEMOLITION FLOOR PLAN - LIBRARY

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

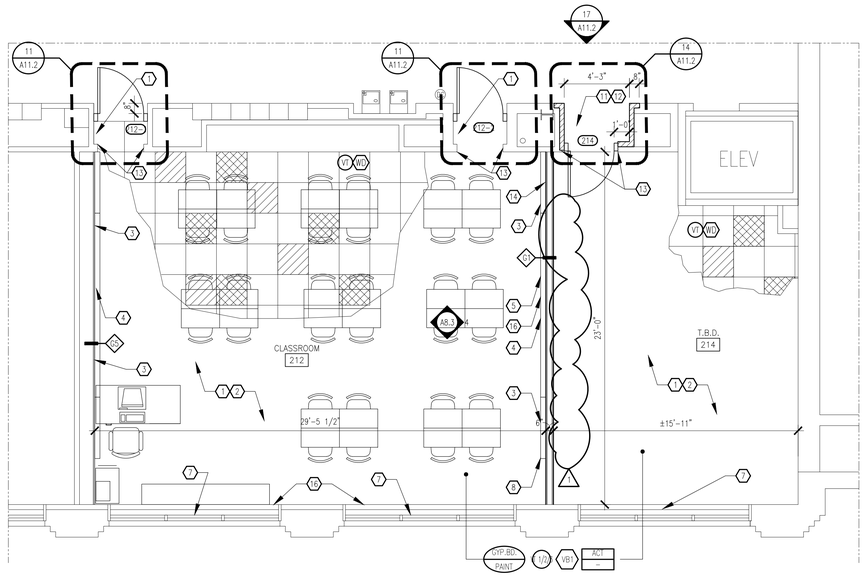
0 2 4 8 16

DEMOLITION GENERAL NOTES

1. CONTRACTOR IS TO CREATE A LIST OF ITEMS FOR DISPOSAL FOR REVIEW PRIOR TO START OF ANY WORK. ONCE SCHOOL HAS REVIEWED AND SINGED OFF, CONTRACTOR MAY RELOCATE OR DISPOSE OF ITEMS.
2. ALL FURNITURE WILL BE RELOCATED BY SCHOOL.
3. G.C. TO DISCONNECT ALL KITCHEN EQUIPMENT, FROM POWER, PLUMBING, MECHANICAL (DUCT OR GAS), ETC. FOR REMOVAL BY CPS.

DEMOLITION FLOOR PLAN KEYNOTES

1. SCRAPE ALL PAINTED SURFACES AND PREPARE FOR PAINT.
2. REMOVE WALL MOUNTED ITEM.
3. REMOVE ELECTRICAL WALL/ FLOOR MOUNTED ITEM, OUTLET AND OR CONDUIT AND OR WIRING BACK TO SOURCE.
4. REMOVE WALL AND ASSOCIATED ITEMS & ASSOCIATED ELECTRICAL DEVICES, DE-ENERGIZE ALL ELECTRICAL POWER CONNECTIONS, LOW VOLTAGE SYSTEMS, FA ALARM SYSTEMS, & ASSOCIATED CONDUITS, WIRING. RE-ROUTE CONDUITS & WIRING SO AS TO MAINTAIN CIRCUIT CONTINUITY TO ALL UP/DOWN STREAM DEVICES.
5. REMOVE DOOR, FRAME AND HARDWARE & PATCH EXISTING WALL SURFACES.
6. REMOVE AND SAVE ALL EXISTING WOOD QUARTER ROUND.
7. REMOVE EXISTING FINISH FLOOR.
8. REMOVE CEILING SYSTEM (ACOUSTICAL GRID/ TILE AND OR PLASTER SYSTEM IN ITS ENTIRETY INCLUDING LIGHT(S), SENSOR(S), MECHANICAL DIFFUSER(S), LIFE SAFETY, ETC.
9. REMOVE BUILT IN SHELVING OR MILLWORK
10. REMOVE SINK AND ALL ASSOCIATED PLUMBING BACK TO SOURCE, SEE PLUMBING.
11. REMOVE WINDOW TREATMENTS AND ASSOCIATED HARDWARE.
12. REMOVE EXISTING BUILT-IN SHELVING. INFILL OPENING FOR SEAMLESS SURFACE ALIGMENT W/ADJACENT WALL SURFACE.
13. REMOVE EXISTING WOOD BASE & SHOE.



N

3 A8.10 FLOOR PLAN

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

0 2 4 8 16

GENERAL NOTES:

1. SEE A0.1 FOR ROOM SIGN SCOPE.
2. SEE A12.0 FOR ROOM FINISH INFORMATION.
3. FOR CLARITY ENTIRE FLOOR PATTERN HAS NOT BEEN SHOWN, SEE CLASSROOMS ON A12.1-A12.2
4. SEE TYPICAL CLASSROOM ELEVATIONS 8/A8.8

KEYNOTES:

1. NEW VINYL FLOORING AND (3-COLOR RANDOM PATTERN). INSTALL SALVAGED WOOD QUARTER ROUND BASE. PROVIDE NEW MATCHING AS REQUIRED.
2. SCRAPE ALL EXISTING LOOSE PAINT SKIM COAT SAID AREAS & PRIME/PAINT WALL SURFACES & CEILING AT WINDOW BULKHEADS.
3. PROVIDE 4'X4' TRACK BOARD
4. PROVIDE 4'X12' MARKER BOARD
5. PROVIDE WALL MOUNTED PROJECTOR SCREEN.
6. CEILING MOUNTED PROJECTOR LOCATION.
7. PROVIDE WINDOW TREATMENT
8. PROVIDE CPS STANDARD TEACHER DROP SEE ELECTRICAL
9. PROVIDE ACOUSTICAL SUSPENDED CEILING GRID AND TILE.
10. NEW LIGHT FIXTURES, SEE ELECTRICAL.
11. INSTALL NEW $\frac{3}{4}$" T&G PLYWD. SUBFLOOR & $\frac{1}{4}$" CEMENT BD. UNDERLAYMENT AT NEW DOOR NICHE & INSTALL NEW VCT FLOORING MATCHING EXISTING FOR SEAMLESS FLOOR SURFACE ALIGNMENT W/EXISTING FLOORING.
12. REFER TO 15/A11.2 & PROVIDE NEW (2)3 $\frac{1}{2}$" X 4" X $\frac{1}{2}$" STEEL LINTEL SUPPORTING EXIST. CLAY TILE WALL ABOVE. PROVIDE SOFFIT FURRING & $\frac{5}{8}$" GYP. BD. SOFFIT AT DOOR NICHE.
13. PATCH ALL WALL AND CEILING SURFACES ASSOCIATED WITH REMOVAL OF EXIST WALLS SO AS TO MATCH EXISTING AREAS FOR SEAMLESS SURFACE ELEVATION ALIGNMENT AT ALL WALL, AND CEILING SURFACES.
14. PLUG & FINISH EXISTING TRIM @AREA OF REMOVED DOOR & ASSOCIATED ELECTRICAL DEVICES.
15. INSTALL NEW WINDOW STOOL APRON MATCHING EXISTING AT AREAS MISSING APRON.
16. PROVIDE BLOCKING IN WALL FOR FUTURE SMART BOARD.

FINISH SYMBOL LEGEND:

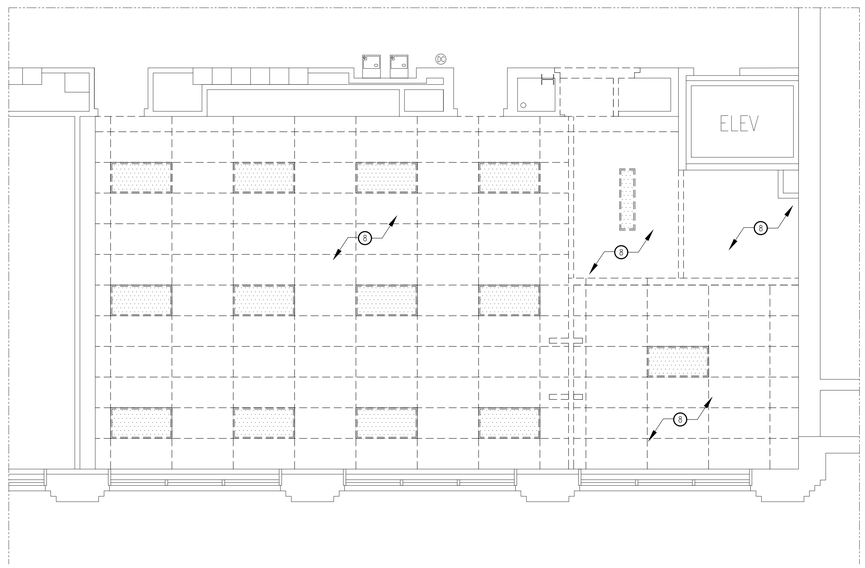
SUBSTRATE MATERIAL / FINISH MATERIAL

WALL FINISH | FLOOR FINISH | BASE FINISH | FINISH CEILING

COLOR PATTERNING CORRIDORS AS MARKED AND CLASSROOMS FOLLOWING RM 122	VT-1 (10%)
	VT-2 (30%)
	VT-3 (60%)
	CPT

ABBREVIATIONS

VT	RESILIENT TILE FLOORING
CT	CERAMIC TILE FLOOR
CPT	CARPET
SC	EPOXY COATING
SDRF	STATIC DISSIPATIVE RESILIENT FLOORING
EFM	ENTRY FLOOR MAT
RUB	INTEGRATED RUBBER NOSE AND TREAD
VB	VINYL BASE
CB	CERAMIC BASE
ACT	ACOUSTICAL CEILING TILE AND GRID



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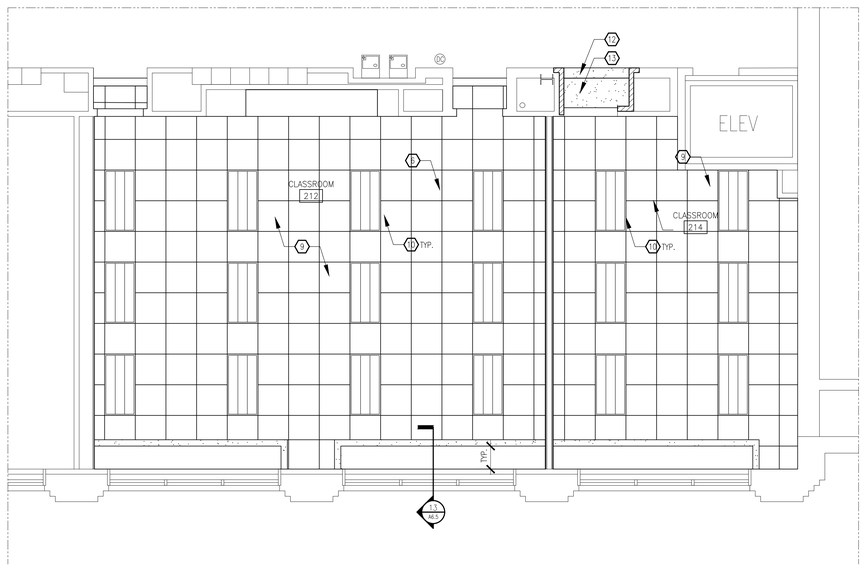
2 A8.10 DEMOLITION CEILING PLAN - LIBRARY

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

0 2 4 8 16



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4 A8.10 REFLECTED CEILING PLAN

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

0 2 4 8 16

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BYRNE ELEMENTARY SCHOOL ANNEX

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Architect of Record

HYDRO-THERMO-POWER INC.
CHICAGO, ILLINOIS
MECHANICAL, ELEC., PLUMBING & FP ENGINEER OF RECORD

STEARN - JOGLEKAR, LTD
CHICAGO, ILLINOIS
STRUCTURAL ENGINEER OF RECORD

MILHOUSE ENGINEERING & CONSTRUCTION, INC.
CHICAGO, ILLINOIS
CIVIL ENGINEER OF RECORD

SITE DESIGN GROUP
CHICAGO, ILLINOIS
LANDSCAPE ARCHITECT

SHINER & ASSOCIATES, INC.
CHICAGO, ILLINOIS
ACOUSTICAL ENGINEER

MVP SERVICES GROUP
CHICAGO, ILLINOIS
FOOD SERVICES CONSULTANT

ECOVIDAL DESIGN INC.
CHICAGO, ILLINOIS
LEED CONSULTANT

*WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE SCHOOL HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2 REGARDLESS OF CONCENTRATIONS. THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES. FOR ALL SMALL SCALE DISTURBANCES, THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MIGRATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE. WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION PROJECT SPECIFICATIONS WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

ISSUANCE

MARK	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	10/25/2016
2	ISSUED FOR DESIGN DEVELOPMENT	12/06/2016
3	ISSUED FOR 60% REVIEW	01/31/2017
4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

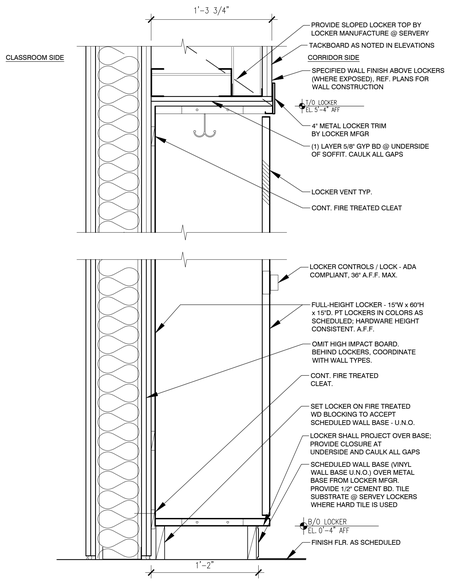
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A8.10

TITLE

ENLARGED FLOOR PLANS

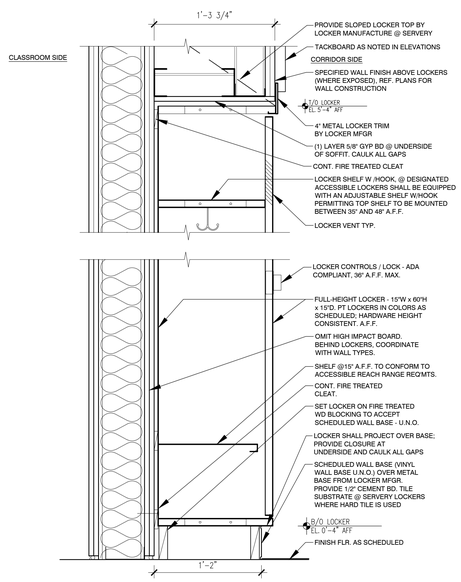
SHEET

A8.10



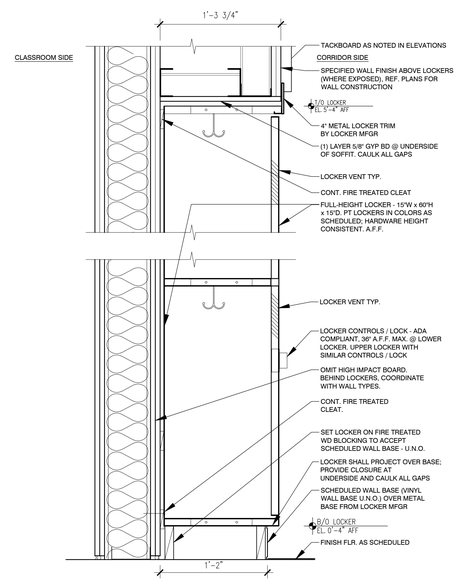
FULL-HEIGHT - NON ACCESSIBLE LOCKER

1 A9.0 TYPE "A" LOCKER DETAIL
SCALE: 1 1/2"=1'-0"



FULL-HEIGHT - ADA ACCESSIBLE LOCKER

2 A9.0 TYPE "B" ADA LOCKER DETAIL
SCALE: 1 1/2"=1'-0"



FULL-HEIGHT - NON-ACCESSIBLE DOUBLE TIER LOCKER

3 A9.0 TYPE "C" DOUBLE LOCKER DETAIL
SCALE: 1 1/2"=1'-0"

LOCKER NOTES:

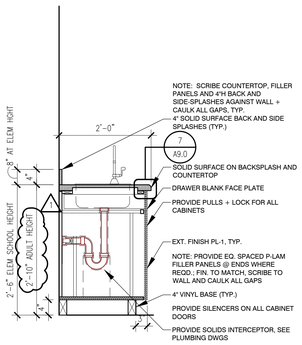
1. INSTALLER SHALL COORDINATE LOCATIONS OF AND INSTALL FIRE-TREATED WD. BLOCKING AND ANCHORAGE PER LOCKER MFGR. RECOMMENDATIONS.

2. EQUALLY SPACE LOCKERS IN EA. GROUPING / RUN, PROVIDE MATCHING FILLER PANELS WHERE REQ'D.

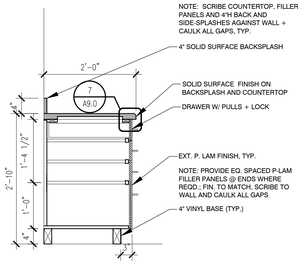
3. REFER TO PLANS & INTERIOR ELEVATIONS FOR LOCATIONS OF ACCESSIBLE LOCKERS (HATCHED).

4. ALL ACCESSIBLE LOCKERS SHALL INCLUDE:

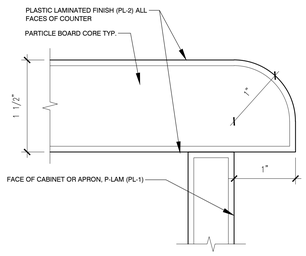
A. MAINTAIN 30" X 48" CLEAR FLOOR AREA IN FRONT OF ADA ACCESSIBLE LOCKER FOR ACCESS.
B. LEVER-OPERATED HARDWARE OR EQ. LOCATED @ 36" A.F.F.
C. BOTTOM SHELF MIN. 15" A.F.F.
D. TOP SHELF + ROD MAX. 48" A.F.F.
E. INTERNATIONAL SYMBOL OF ACCESSIBILITY STICKER ON EXTERIOR ADJACENT TO CONTROLS.
F. MAINTAIN 60" DIA. CLEAR TURNING RADIUS AREA WITHIN CORRIDOR.



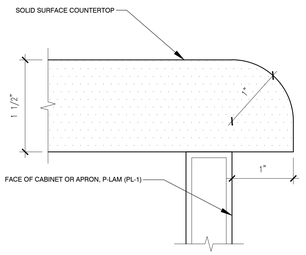
4 A9.0 ACCESSIBLE WORK SINK
SCALE: 3/4"=1'-0"



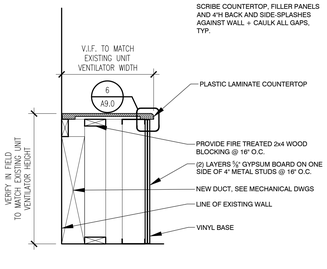
5 A9.0 BASE CABINET SECTION
SCALE: 3/4"=1'-0"



6 A9.0 STANDARD POST FORM EDGE DETAIL
SCALE: 1"=1'-0"



7 A9.0 SOLID SURFACE EDGE DETAIL
SCALE: DETAIL



8 A9.0 BASE CABINET SECTION
SCALE: 3/4"=1'-0"

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX
5329 S. OAK PARK AVE.,
CHICAGO, IL
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO
MAYOR RAHM EMANUEL

ILEKIS ASSOCIATES
Architects • Planners
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Chicago, Illinois 60606
MAIN: 312-419-0009
Fax: 312-899-0965
Email info@ilekis.com
www.ilekis.com
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THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE APPLICABLE CODES AND BUILDING REGULATIONS.

ALPHONSE A. ILEKIS, AIA

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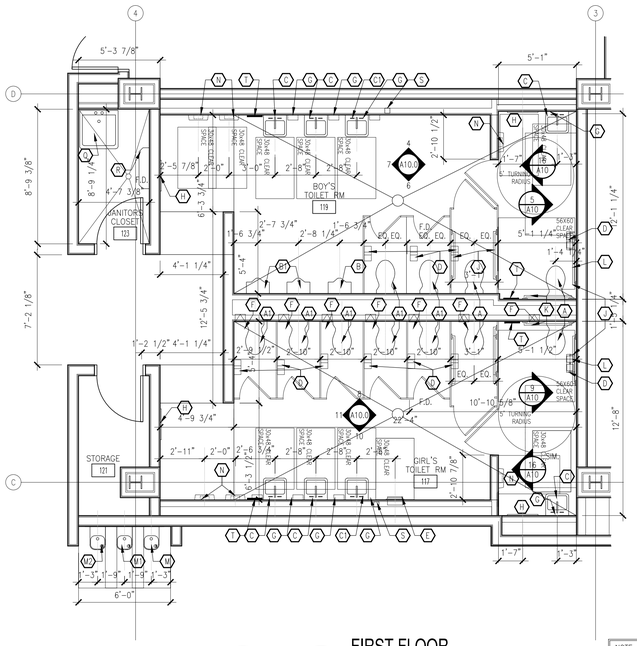
8	ADDENDUM 1	05/16/2017
9		
10		

1

DRAWN BY: ILEKIS ASSOCIATES
SCALE: SEE DRAWING
PROJ. NAME: BYRNE ANNEX
PROJECT #: 1618-01
FILE: **1618-01 A9.0**

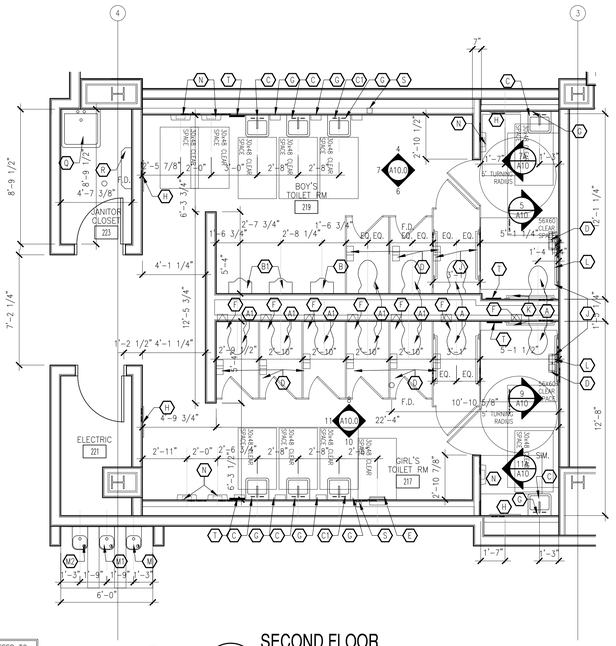
TITLE
INTERIOR DETAILS

SHEET
A9.0



1 A10.0 FIRST FLOOR TOILET ROOMS
SCALE: 1/4"=1'-0"

NOTE: GC TO REFER TO SCHEDULE 1&2 KEYNOTES FOR VARIOUS CHANGES ON FIXTURES AND OR ACCESSORIES.



2 A10.0 SECOND FLOOR TOILET ROOMS
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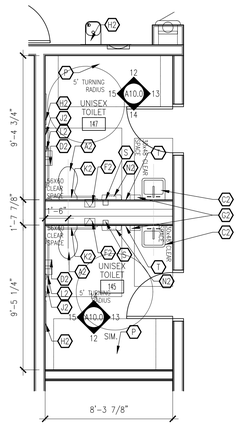
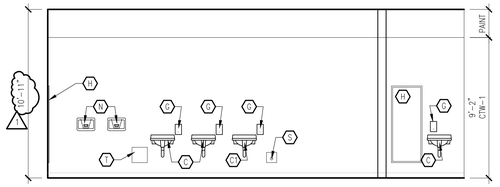
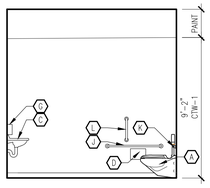


3 A10.0 FIRST FLOOR UNISEX TOILET ROOM
SCALE: 1/4"=1'-0"



4 A10.0 TOILET ROOM ELEVATION
SCALE: 1/4"=1'-0"



5 A10.0 TOILET ROOM ELEVATION
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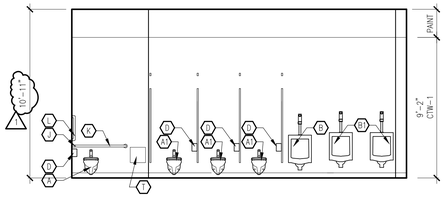

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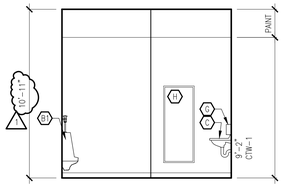
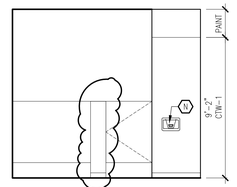
SCALE: 1/4"=1'-0"



7 A10.0 TOILET ROOM ELEVATION
SCALE: 1/4"=1'-0"



7A A10.0 TOILET ROOM ELEVATION
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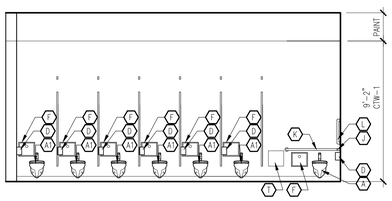

8 A10.0 TOILET ROOM ELEVATION
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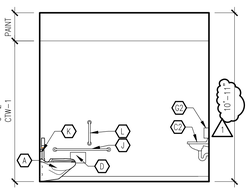

9 A10.0 TOILET ROOM ELEVATION
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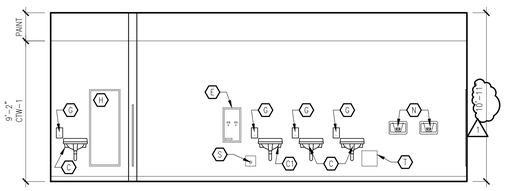

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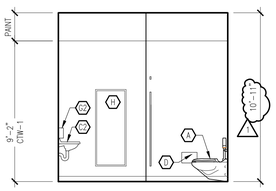

11 A10.0 TOILET ROOM ELEVATION
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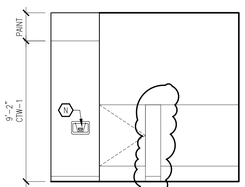

11A A10.0 TOILET ROOM ELEVATION
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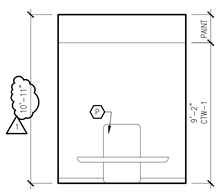

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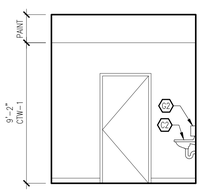

13 A10.0 TOILET ROOM ELEVATION
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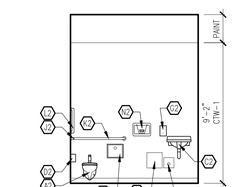

14 A10.0 TOILET ROOM ELEVATION
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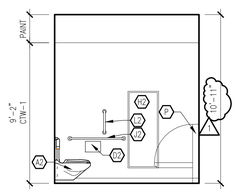

15 A10.0 TOILET ROOM ELEVATION
SCALE: 1/4"=1'-0"

TOILET FIXTURE & ACCESSORIES

REFER TO SHEET A10.1 FOR MOUNTING HEIGHTS AND ACCESSIBILITY NOTES

GENERAL NOTES:
G.C. SHALL PROVIDE ALL NECESSARY SUPPORTS (BLOCKING OR METAL) AS REQUIRED BY MANUFACTURER IN ALL LOCATIONS THROUGHOUT RESTROOMS IN STUD CAVITY.

SCHEDULE 1 - ELEMENTARY SCHOOL HEIGHTS

FOR TOILET ROOMS PRIMARILY USED BY GRADES 1–8
REACH RANGES FOR GREADES 1–8: 18" ABOVE FINISH FLOOR TO 40" ABOVE FINISH FLOOR

A	WATER CLOSET – ADA	TOILET SEAT @ 15" ABOVE FINISH FLOOR, CENTERLINE OF TOILET 15". MANUAL FLUSH VALVE
A1	WATER CLOSET – NON–ADA	MOUNT PER CPS STANDARDS. MANUAL FLUSH VALVE
B	URINAL – ADA	MOUNT AT 15" ABOVE FINISH FLOOR RIM HEIGHT
B1	URINAL – NON–ADA	MOUNT PER CPS STANDARDS
C	LAVATORY – ADA	MOUNT @ 31" ABOVE FINISH FLOOR RIM HEIGHT
C1	LAVATORY – NON–ADA	MOUNT PER CPS STANDARDS
D	TOILET PAPER DISPENSER	MOUNT AT 21" ABOVE FINISH FLOOR TO PAPER OUTLET (OWNER PROVIDED, GC TO INSTALL)
E	SANITARY NAPKIN VENDOR	MOUNT AT 29" ABOVE FINISH FLOOR TO OPERABLE CONTROLS
F	SANITARY NAPKIN DISPOSAL	MOUNT AT 30" ABOVE FINISH FLOOR TO TOP OF DOOR: MINIMUM 1½" CLEAR BELOW GRAB BAR
G	SOAP DISPENSER	MOUNT AT 35" MAXIMUM SPOUT HEIGHT (OWNER PROVIDED, GC TO INSTALL)
H	MIRROR, FULL LENGTH	MOUNT AT 12" ABOVE FINISH FLOOR TO BOTTOM
J	42" GRAB BAR	25" ABOVE FINISH FLOOR TO CENTERLINE OF BAR
K	36" GRAB BAR	25" ABOVE FINISH FLOOR TO CENTERLINE OF BAR
L	VERTICAL GRAB BAR	MOUNT AT 4" ABOVE HORIZONTAL GRAB BAR
M	ELECTRIC WATER COOLER	MOUNT (1) AT 30" ABOVE FINISH FLOOR TO SPOUT.
M1	ELECTRIC WATER COOLER	MOUNT (1) AT 36" ABOVE FINISH FLOOR TO SPOUT
N	ELECTRIC HAND DRYER	39" ABOVE FINISH FLOOR TO HIGHEST CONTROL

SCHEDULE 2 - ADULT HEIGHT

FOR TOILET ROOMS PRIMARILY USED BY ADULTS
REACH RANGES FOR ADULTS: 15" MIN. ABOVE FINISH FLOOR TO 48" ABOVE FINISH FLOOR

A2	WATER CLOSET – ADA	TOILET SEAT @ 17" ABOVE FINISH FLOOR, CENTERLINE OF TOILET 15". ELECTRIC FLUSH VALVE
C2	LAVATORY – ADA	MOUNT @ 34" ABOVE FINISH FLOOR RIM HEIGHT
D2	TOILET PAPER DISPENSER	MOUNT AT 21" ABOVE FINISH FLOOR TO PAPER OUTLET (OWNER PROVIDED, GC TO INSTALL)
F2	SANITARY NAPKIN DISPOSAL	MOUNT AT 25" ABOVE FINISH FLOOR TO CENTERLINE OF DOOR: MINIMUM 1 1/2" CLEAR BELOW GRAB BAR
G2	SOAP DISPENSER	MOUNT TIGHT TO SINK – 40" MAXIMUM TO CONTROLS (OWNER PROVIDED, GC TO INSTALL)
H2	MIRROR, FULL LENGTH	MOUNT AT 12" ABOVE FINISH FLOOR TO BOTTOM
J2	42" GRAB BAR	35" ABOVE FINISH FLOOR TO CENTERLINE OF BAR
K2	36" GRAB BAR	35" ABOVE FINISH FLOOR TO CENTERLINE OF BAR
L2	VERTICAL GRAB BAR	MOUNT AT 4" ABOVE HORIZONTAL GRAB BAR
M2	ELECTRIC WATER COOLER	MOUNT (1) AT 42" ABOVE FINISH FLOOR TO SPOUT.
N2	ELECTRIC HAND DRYER	39" ABOVE FINISH FLOOR TO HIGHEST CONTROL
P	ADULT ADJUSTABLE HEIGHT CHANGING TABLE – NOT IN CONTRACT.	MOUNT PER MANUFACTURER'S RECOMMENDATION (LAYOUT SHOWN WAS DESIGNED AROUND "MAX–ABILITY" PRESSALIT HEIGHT ADJUSTABLE MOTORIZED CHANGING TABLE). G.C. TO PROVIDE ALL NECESSARY BLOCKING IN WALL
Q	JANITORIAL SINK	–
R	STAINLESS STEEL SHELF	42" ABOVE FINISH FLOOR
S	LOCKING HOSE BIBB	SEE PLUMBING DRAWINGS
T	12"X12" STAINLESS STEEL ACCESS PANEL	T/ACCESS PANEL 24" A.F.F.

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CHICAGO, ILLINOIS
LEED CONSULTANT

WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE SCHOOL HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2. REGARDLESS OF CONCENTRATIONS, THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES. FOR ALL SMALL SCALE DISTURBANCES, THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MIGRATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE, WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION PROJECT SPECIFICATIONS.' 'WARNING. ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THE BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

ISSUANCE

MARK	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	10/25/2016
2	ISSUED FOR DESIGN DEVELOPMENT	12/06/2016
3	ISSUED FOR 60% REVIEW	01/31/2017
4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618–01 A10.0

TITLE
ENLARGED TOILET PLANS & ELEV

SHEET
A10.0

WINDOW SCHEDULE

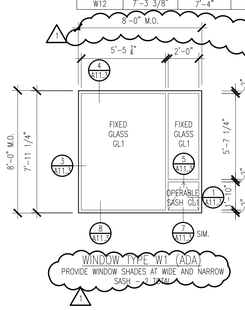
OPENING NO.	MASONRY OPENING WIDTH	MASONRY OPENING HEIGHT	TYPE	MATERIAL	NUMBER OF UNITS	LIGHT AREA EA. (SQFT)	TOTAL LIGHT AREA (SQFT)	AREA VENT EA. (SQFT)	TOTAL AREA VENT (SQFT)	REMARKS
W1	8'-0 3/4"	8'-0"	FIXED/VENTED	ALUMINUM	33	56.7	1871.10	3.67	121.11	
W2	2'-4 3/4"	8'-0"	FIXED/VENTED	ALUMINUM	17	14.80	251.6	3.67	62.39	
W3	2'-4 3/4"	8'-0"	FIXED	ALUMINUM	3	14.80	251.6	1840	1840	BUTT HINGES w/90 LIMIT DEVICE & CUSTODIAL LOCK(S)
W4	33'-0 1/8"	8'-0"	FIXED/VENTED	ALUMINUM	1	203.24	203.24	30.87	30.87	
W5	33'-0 1/8"	8'-0"	FIXED/VENTED	ALUMINUM	1	203.24	203.24	30.87	30.87	
W6	31'-0 1/8"	13'-0"	FIXED	ALUMINUM	1	361.48	361.48	–	–	
W7	31'-0 1/8"	13'-0"	FIXED	ALUMINUM	1	361.48	361.48	–	–	
W8	20'-5 1/4"	8'-0"	FIXED/VENTED	ALUMINUM	4	47.78	191.12	101.52	406.08	
W9	12'-10 1/2"	9'-8 1/4"	FIXED	ALUMINUM	1	95.60	95.60	–	–	
W9A	7'-0 1/2"	9'-8 1/4"	FIXED	ALUMINUM	1	55.2	55.2	–	–	
W10	20'-5 1/4"	8'-8"	FIXED/VENTED	ALUMINUM	1	138.38	138.38	23.86	23.86	
W11	2'-5"	3'-11	FIXED	ALUMINUM	2	7.24	14.48	–	–	
W12	7'-3 3/8"	7'-4"	FIXED	ALUMINUM	1	32.59	32.59	–	–	

GLAZED LEGEND

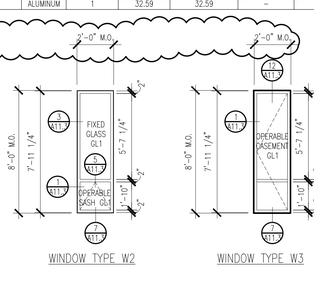
	NOTE: SEE SPECIFICATIONS FOR GLAZING AND THERMAL PERFORMANCE REQUIREMENTS
GL1	1" INSULATED EXTERIOR GLASS ASSEMBLY: 1/4" CLEAR OUTBOARD LITE, ½" AIR SPACE, ¼" INBOARD LITE
GL2	INTERIOR GLASS ASSEMBLY: (1) LAYER OF 1/4" CLEAR CERAMIC GLASS
GL3	INTERIOR GLASS ASSEMBLY: (1) LAYER 1/4" CLEAR TEMPERED GLASS
GL4	1" INSULATED EXTERIOR GLASS ASSEMBLY: TEMPERED 1/4" CLEAR OUTBOARD LITE, ½" AIR SPACE, TEMPERED ¼" INBOARD LITE

MAXIMUM FIRE-RATED GLASS SIZES

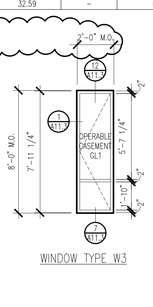
WALL RATING + OPENING LABEL	GLASS SIZE
UNRATED – NONE	NO LIMIT
1 HOUR – C RATING	1246 SQ IN.
2 HOUR – B RATING	100 SQ. IN. AND WIDTH NOT EXCEEDING 12 INCHES
3 OR 4 HOUR – A RATING	NO GLASS



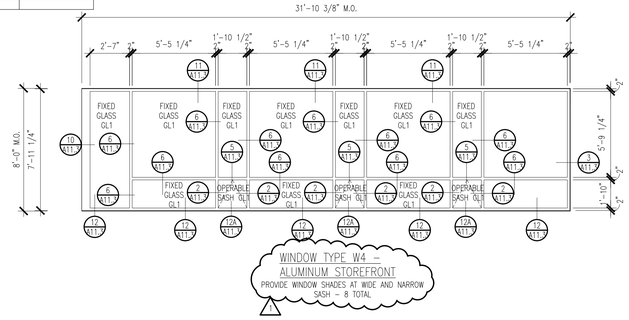
WINDOW TYPE W1 (ADA)
PROVIDE WINDOW SHADES AT WIDE AND NARROW SASH – 8 TOTAL



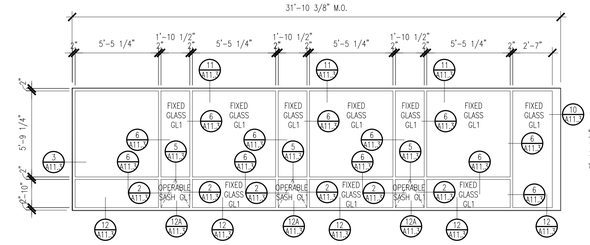
WINDOW TYPE W2



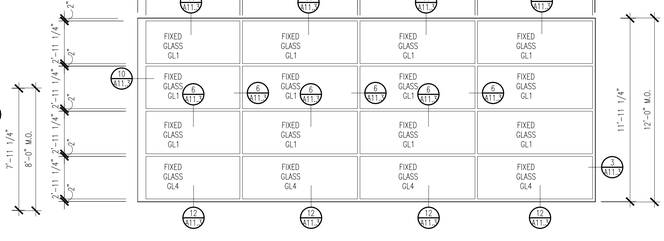
WINDOW TYPE W3



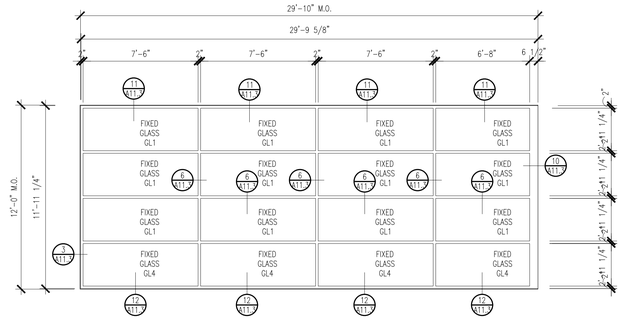
WINDOW TYPE W4 – ALUMINUM STOREFRONT
PROVIDE WINDOW SHADES AT WIDE AND NARROW SASH – 8 TOTAL



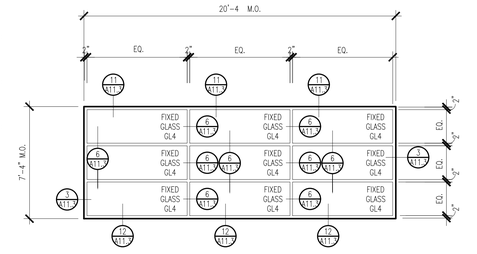
WINDOW TYPE W5 – ALUMINUM STOREFRONT
PROVIDE WINDOW SHADES AT WIDE AND NARROW SASH – 8 TOTAL



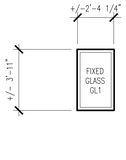
WINDOW TYPE W6 – ALUMINUM STOREFRONT
PROVIDE WINDOW SHADES AT EA. VERTICAL MULLION – 4 TOTAL



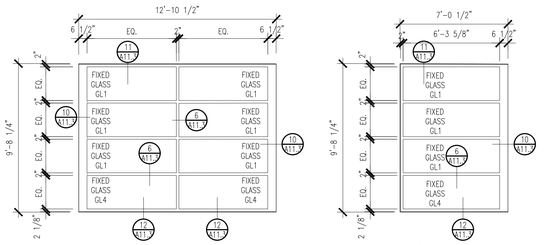
WINDOW TYPE W7 – ALUMINUM STOREFRONT
PROVIDE WINDOW SHADES AT EA. VERTICAL MULLION – 4 TOTAL



WINDOW TYPE W8 – ALUMINUM STOREFRONT
PROVIDE (3) EQUAL SHADES

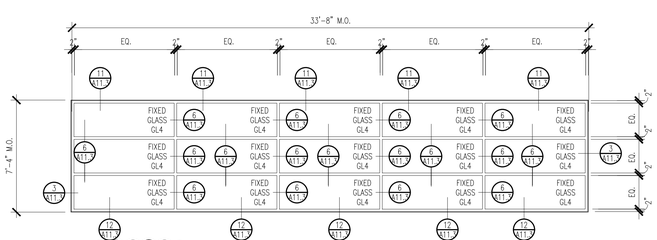


WINDOW TYPE W11 – EXISTG. BLDG. SASH @ ART ROOM REFER TO KEYNOTE 14 A8.8



WINDOW TYPE W9 – ALUMINUM STOREFRONT

WINDOW TYPE W9A – ALUMINUM STOREFRONT



WINDOW TYPE W10 – ALUMINUM STOREFRONT
PROVIDE (5) EQUAL SHADES

1 A11.1 **WINDOW TYPES**
SCALE: 1/4"=1'-0"
0 1' 2' 4' 8'

DOOR/FRAME SCHEDULE

PANIC HARDWARE	DOOR NUMBER	SHEET #	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAIL HEAD	DETAIL JAMB	DETAIL THRESHOLD	LABEL	HARDWARE SET	STC (MIN.) RATING	KNURLED	NOTES
EXISTING FIRST FLOOR																			
	106–2	01/A8.4	3'–0"	7'–0"	1 3/4"	6	WD	STAIN	B	HM	PT	11A	11A	16	C	76	30	–	N4,N20
	106A	01/A8.4	3'–0"	7'–0"	1 3/4"	1	WD	STAIN	A	HM	PT	13	–	–	B	61	–	–	N19
	107	01/A8.4	3'–0"	7'–0"	1 3/4"	6	WD	STAIN	B	HM	PT	11A	11A	16	C	76	30	–	N1,N3,N11
ANNEX FIRST FLOOR																			
*	5A	01/A1.1	(2)3'–0"	7'–4"	1 3/4"	4	AL	PRE–FIN	C	AL	PRE–FIN	8	2	10	–	51*	–	–	N3,N10,N13,N14,N18
*	5B	01/A1.1	(2)3'–0"	7'–0"	1 3/4"	4	AL	PRE–FIN	C	AL	PRE–FIN	9	5	–	–	53	–	–	
*	6–1A	01/A1.1	(2)3'–0"	7'–2"	1 3/4"	1	AL	PRE–FIN	A	AL	PRE–FIN	2	2	10	–	56*	–	–	N3,N17,N18
*	7	01/A1.1	(2)3'–0"	7'–0"	1 3/4"	4	AL	PRE–FIN	A	AL	PRE–FIN	2	2	10		51*	–	–	N3,N8,N10,N18
*	7–1	01/A1.1	(2)3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	–	57*	–	–	
*	8	01/A1.1	3'–0"	7'–2"	1 3/4"	5	AL	PRE–FIN	C	AL	PRE–FIN	8	2	–	–	55*	–	–	N1,N3,N11,N14
*	9A	01/A1.1	(2)3'–0"	7'–0"	1 3/4"	4	AL	PRE–FIN	C	AL	PRE–FIN	9 (SIMILAR)	2	10	–	51*	–	–	N1,N3,N10,N11,N18
*	9B	01/A1.1	(2)3'–0"	7'–2"	1 3/4"	4	AL	PRE–FIN	C	AL	PRE–FIN	9	5	–	–	53	–	–	N12
	CE–1	01/A1.1	(2)4'–0"	8'–0"	1 3/4"	1	FRP	PRE–FIN	A	HM	PT	3	3	–	–	63	–	X	N9
	BE–1	01/A1.1	4'–0"	7'–2"	1 3/4"	1	HM	PT	A	HM	PT	7	4	–	–	64	–	X	N3,N9,N16,N17,N18
	115	01/A1.1	(2) 3'–0"	7'–0"	1 3/4"	3	HM	PT	A	HM	PT	1	1	–	B	58	–	–	N6
	115A	01/A1.1	(2)3'–0"	7'–0"	1 3/4"	3	HM	PT	A	HM	PT	1	1	–	–	78	–	–	N6
	115B	01/A1.1	(2)3'–0"	7'–0"	1 3/4"	3	HM	PT	A	HM	PT	1	1	–	–	78	–	–	N6
	115C	01/A1.1	(2)3'–0"	7'–0"	1 3/4"	3	HM	PT	A	HM	PT	1	1	–	–	78	–	–	N6
	115D	01/A1.1	(2)3'–0"	7'–0"	1 3/4"	3	HM	PT	A	HM	PT	1	1	–	–	78	–	–	N6
	115E	01/A1.1	(2)3'–0"	7'–0"	1 3/4"	3	HM	PT	A	HM	PT	1	1	–	B	78	–	–	N9
	118	01/A1.1	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	30	–	N4
	120A	01/A1.1	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	59*	–	–	
	120B	01/A1.1	1'–10"	7'–0"	1 3/4"	1	WD	STAIN	A	HM	PT	1	1	–	–	65	–	–	
	120C	01/A1.1	(2)3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	60*	30	–	N4
	121	01/A1.1	3'–0"	7'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	C	62	–	–	N9
	122	01/A1.1	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	30	–	N4
	123	01/A1.1	3'–0"	7'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	C	66	–	X	N9
	124	01/A1.1	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	30	–	N4
	125	01/A1.1	3'–0"	7'–0"	1 3/4"	3	HM	PT	A	HM	PT	1	1	–	B	74	–	–	N18
	125B	01/A1.1	3'–0"	7'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	B	73	–	–	N9,N18
	126	01/A1.1	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	30	–	N4
	127	01/A1.1	3'–0"	7'–0"	1 3/4"	2	HM	PT	E	HM	PT	1	1	–	–	70	–	–	
	127A	01/A1.1	3'–0"	7'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	B	61	–	X	N9
	128	01/A1.1	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	30	–	N4
	141	01/A1.1	3'–0"	7'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	B	66	–	X	N9
	142	01/A1.1	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	77	–	–	
	143	01/A1.1	3'–0"	7'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	B	66	–	X	N9
	144	01/A1.1	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	70	–	–	
	145	01/A1.1	3'–0"	7'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	B	79	–	–	
	146	01/A1.1	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	70	–	–	
	147	01/A1.1	3'–0"	7'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	B	79	–	–	
	148	01/A1.1	3'–6"	7'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	B	66	–	X	N9
	149	01/A1.1	(2)3'–0"	7'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	B	67	40	X	N4,N5,N9
*	159A	01/A1.1	(2)4'–0"	8'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	A	54*	–	–	N7
*	159B	01/A1.1	(2)4'–0"	8'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	A	54*	–	–	N7
*	162	01/A1.1	(2)3'–0"	7'–0"	1 3/4"	4	AL	PRE–FIN	B	AL	PRE–FIN	9	5	–	–	54*	–	–	N7,N8
EXISTING SECOND FLOOR																			
	212–1	03/A8.10	3'–0"	7'–0"	1 3/4"	6	WD	STAIN	B	HM	PT	13	11	16	C	75	30	–	N4,N20
	212–2	03/A8.10	3'–0"	7'–0"	1 3/4"	6	WD	STAIN	B	HM	PT	13	11	16	C	75	30	–	N4,N20
	214	03/A8.10	3'–0"	7'–0"	1 3/4"	6	WD	STAIN	B	HM	PT	18	16	16	C	69	30	–	N4
ANNEX SECOND FLOOR																			
*	6–2	01/A1.2	(2)3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	–	52*	–	–	N2
*	7–2	01/A1.2	(2)3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	–	52*	–	–	N2
	215	01/A1.2	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	–	–	
	216	01/A1.2	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	30	–	N4
	218	01/A1.2	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	30	–	N4
	220	01/A1.2	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	30	–	N4
	220A	01/A1.2	3'–0"	7'–0"	1 3/4"	1	WD	STAIN	A	HM	PT	1	1	–	B	68	–	X	N9
	220B	01/A1.2	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	72	–	–	
	220C	01/A1.2	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	71	30	–	N4
	221	01/A1.2	3'–0"	7'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	C	66	30	X	N9
	222	01/A1.2	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	30	–	N4
	223	01/A1.2	3'–0"	7'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	C	62	–	X	N9
	224	01/A1.2	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	30	–	N4
	225	01/A1.2	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	30	–	N4
	226	01/A1.2	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	30	–	N4
	227	01/A1.2	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	40	X	N4,N5
	227A	01/A1.2	3'–0"	7'–0"	1 3/4"	1	WD	STAIN	A	HM	PT	1	1	–	B	66	–	–	N9
	228	01/A1.2	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	30	–	N4
	229A	01/A1.2	3'–0"	7'–0"	1 3/4"	2	WD	STAIN	A	HM	PT	1	1	–	C	75	40	–	N4,N5
	229B	01/A1.2	3'–0"/1–4	7'–0"	1 3/4"	1	WD	STAIN	A	HM	PT	1	1	–	B	80	40	–	N4,N5
	229C	01/A1.2	3'–0"/1"–4"	7'–0"	1 3/4"	1	WD	STAIN	A	HM	PT	1	1	–	C	80	40	–	N4,N5
	241	01/A1.2	3'–0"	7'–0"	1 3/4"	1	WD	STAIN	A	HM	PT	1	1	–	B	62	–	–	N9
*	260	01/A1.2	(2)4'–0"	8'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	A	54*	–	–	N7
*	260A	01/A1.2	(2)4'–0"	8'–0"	1 3/4"	1	HM	PT	A	HM	PT	1	1	–	A	54*	–	–	N7

DOOR AND FRAME SCHEDULE

1. PROVIDE FRAME ANCHORS TO ACCOMMODATE PARTITION TYPES AND REQUIREMENTS FOR FIRE RATING.
2. AT GYPSUM BOARD PARTITIONS, SPOT GROUT FRAMES AT EACH JAMB ANCHOR. FULLY GROUT ALL EXTERIOR/ALL FRAMES, INSULATE JAMB FRAMING.
3. AT ALL MASONRY PARTITIONS, SOLIDLY GROUT THE ENTIRE VOID IN THE HOLLOW METAL FRAME.
4. PROVIDE SEALANT AT JUNCTURE OF ALL FRAMES TO PARTITIONS AND FRAMES TO FLOOR W/ RATING AS REQ'D. AT NON-RATED ASSEMBLIES CAULK IN COLOR TO MATCH FRAME PAINT COLOR.
5. AT FRAMES ANCHORED TO MASONRY PROVIDE 3/8" DIA. EXPANSION ANCHORS WITH FLAT COUNTERSUNK HEADS. DIMPLE FRAME WITH 1/16" DEPRESSION TO RECEIVE SCREW HEAD. PROVIDE METAL BODY PUTTY FILL OVER SCREW HEAD + GRIND SMOOTH, PRIME + PAINT.
6. PAINT ALL METAL GLAZING STOPS, ROUND LITE KIT TRIM TO MATCH FINAL DOOR / FRAME FINISH.
7. HEIGHT & WIDTH OF DOOR OPENING INDICATED ON SCHEDULE ARE DIMENSIONS EXCLUSIVE OF HOLLOW METAL FRAME.
8. ALL B-LABEL AND C-LABEL OPENING PROTECTIVES INCLUDING LITES, DOOR LITES, AND SIDE LITES SHALL RECEIVE 5/16" CERAMIC FIRE RATED GLAZING AND BE INSTALLED WITH FIRE GLAZING COMPOUND.
9. ALL DOOR FRAMES SHALL MATCH THE FIRE DOOR RATING AND UL LABEL.
10. ALL HOLLOW METAL DOORS/FRAMES SHALL BE PAINTED. SEE FINISH SCHEDULE FOR COLOR.
11. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS AND QUANTITIES PRIOR TO FABRICATION AND IS RESPONSIBLE FOR FIT AND OPERATION.
12. REFERENCE THIS SHEET FOR GLAZING SCHEDULE / DESCRIPTION.
13. SEE SPECIFICATION SECTION 08 71 00, "DOOR HARDWARE" FOR HARDWARE SETS.

FINISH HARDWARE GENERAL NOTES:

1. ACCESSIBILITY REQUIREMENTS:
   A. ALL DOORS TO REQUIRED ACCESSIBLE ROOMS AND SPACES TO RECEIVE HARDWARE PER ADAAG 4.13.9 MINIMUM 32" CLEAR OPENING, AND COMPLY WITH ALL ADAAG 4.13 REQUIREMENTS.
   B. ALL DOORS TO HAZARDOUS ROOMS, INCLUDING ALL ELECTRICAL, MECHANICAL, MDF ROOM AND SIMILAR ROOMS SHALL HAVE KNURLED HARDWARE PER ADAAG SECTION 4.27.3 SEE KEYNOTE "N9" AND IN SCHEDULE.
2. ORNAMENTAL STEEL FENCE GATES:
   A. PROVIDE ADA COMPLIANT LATCH HARDWARE AND LOCK HASP. REFER TO LANDSCAPE PLANS/DETAILS AND SITE PLAN. COORDINATE W/ FENCING CONTRACTOR AS REQ'D.

HARDWARE KEY:

N1 INTEGRAL WINDOW W/WALL COORD. W/GC. AND W/MFR. AS REQ'D
N2 DOORS ON ELECTROMAGNETIC HOLD OPENS - SEE ELECTRICAL SHEETS
N3 PROVIDE + INSTALL WEATHERSTRIPPING ON ALL SIDES
N4 PROVIDE + INSTALL ACOUSTICAL SOUND SEAL ON JAMB AND HEAD TO ACHIEVE STC RATING INDICATED ON SCHEDULE
N5 PROVIDE & INSTALL ACOUSTICAL DOOR BOTTOM SOUND SEAL.
N6 PROVIDE & INSTALL FLOOR KICKS AS HOLD OPENS.
N7 PROVIDE 6 ½" FRAME.
N8 PROVIDE 2'-2" TRANSOM.
N9 PROVIDE AND INSTALL KNURLED HARDWARE PER IAC AND ANSI A117.12003
N10 ELECTRIC STRIKE, TIE TO AIPHONE
N11 PROVIDE 2'-8" TRANSOM.
N12 PROVIDE 2'-4" TRANSOM.
N13 PROVIDE 6'-7" TRANSOM.
N14 EXIT ONLY
N15 PROVIDE 2'-2" FRP INSULATED TRANSOM.
N16 PROVIDE EXTRA HEAVY HINGES
N17 INSULATED EXTERIOR DOOR/FRAME
N18 PROVIDE DOOR SWEEP, REF. TO HW SET. IF NOT OTHERWISE INDICATED, PROVIDE PEMKO 18100CP; OTHER MANUFACTURERS PRODUCTS MEETING DESIGN CRITERIA WILL BE CONSIDERED SUBJECT TO COMPLIANCE WITH PROJECT REQUIREMENTS
N19 FRAME WIDTH TO MATCH WALL THICKNESS, INSTALL WOOD CASING MATCHING EIST. (BOTH SIDES).

COORDINATE LOCKSET AND KEYING WITH SCHOOL ENGINEER. GENERAL CONTRACTOR TO PROVIDE SIGN-OFF.

THE HARDWARE SETS OF DOORS WITH AN * THAT HAVE PANIC HARDWARE

ALL REQUIRED FIRE RATED DOORS & ACCESSORIES TO COMPLY WITH CBC - 7 (15-12-090)

ABBREVIATIONS:

AL	ALUMINUM
ANOD	ANODIZED
HC	HOLLOW CORE-WOOD
HM	HOLLOW METAL
GALV	GALVANIZED STEEL
SS	STAINLESS STEEL
ST	STEEL
WD	WOOD
FRP	FIBER REINFORCED PANEL
PRE-FIN	PRE-FINISHED
NR	NOT REQUIRED
NA	NOT APPLICABLE

CITY REVIEW

BOARD OF EDUCATION COMMISSIONER
Chicago Public Schools

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THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE APPLICABLE CODES AND BUILDING REGULATIONS.

ALPHONSE A. ILEKIS, AIA

"WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE SCHOOL HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2 REGARDLESS OF CONCENTRATIONS, THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES. FOR ALL SMALL SCALE DISTURBANCES, THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MIGRATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE. WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION PROJECT SPECIFICATIONS."

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ISSUANCE

MARK	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	10/25/2016
2	ISSUED FOR DESIGN DEVELOPMENT	12/06/2016
3	ISSUED FOR 60% REVIEW	01/31/2017
4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

DRAWN BY: ILEKIS ASSOCIATES
SCALE: SEE DRAWING
PROJ. NAME: BYRNE ANNEX
PROJECT #: 1618-01
FILE: **1618-01 A11.0**

TITLE
OPENING SCHEDULE

SHEET
A11.1

FINISH LEGEND

BASIS OF DESIGN LISTED. SEE SPECIFICATION FOR OTHER PRODUCT NAMES & MANUFACTURERS. APPROVAL SUBJECT TO COMPLIANCE W/ PROJECT REQUIREMENTS.

FLOOR FINISH

SYMBOL	MATERIAL	DESCRIPTION
FG	FOOT GRILLE STAINLESS STEEL	ENTRANCE FOOT GRILLE
DW2	DETECTABLE WARNING	JOHNSONITE DIAMOND PATT. STAIR LANDING COLOR TBD COMPLYING W/ TACTILE WARNING REQMTS. OF IAC FIGS. 40 +41.
RUB	RUBBER TREAD AND NOSING	JOHNSONITE COLOR TBD, MATCHING DETECTABLE WARNING TILE TO VT 2 OR 3
SC	CONCRETE FLOORING	SEE SPECIFICATION 09 97 24
CT1	CERAMIC FLOOR TILE	DAL TILE, VOLUME 1.0 AURAL SAND VL77 (12"X12" TILE)
VT1	SOLID VINYL	JOHNSONITE TARKETT iQ GRANIT (24" X 24" TILE) - 411 PRIM ROSE - 10% OF TOTAL MATRIX
VT2	SOLID VINYL	JOHNSONITE TARKETT iQ GRTSD-XX (24" X 24" TILE) - 716 KAHLUA - 30% OF TOTAL MATRIX
VT3	SOLID VINYL	JOHNSONITE TARKETT iQ GRTSD-XX (24" X 24" TILE) - 714 MISTY - 60% OF TOTAL MATRIX
QT	QUARRY TILE	STANDARD RED COLOR TILE - SUBMIT FOR ARCHITECT'S APPROVAL.
CPT	CARPET TILE	SHAW CONTRACT GROUP - BEYOND THE FOLD 5T060 DOLPHIN ECRU 60105 (18"X36" CARPET TILE)

WALL FINISH

SS-1	SOLID SURFACE	WILSONART AVALANCHE MELANGE 9175 ML (3) 13MM - VERTICAL INSTALLATION ONLY
SS-2	SOLID SURFACE (ACCENT & WINDOW SILLS)	WILSONART MARZIPAN MIRAGE 9130 MG (2) 13MM - VERTICAL INSTALLATION ONLY
CTW-1	CERAMIC FLOOR TILE	DAL TILE, VOLUME 1.0 AURAL SAND VL77 (12"X12" TILE)
CTW-2	CERAMIC FLOOR TILE	DAL TILE, VOLUME 1.0 VICTORY RED VL85 (12"X12" TILE)
FRP	FIBER GLASS REINFORCED PANEL	TBD - SELECTION TO BE MADE DURING SUBMITTAL REVIEW
PT-1	PAINT 1	MAIN COLOR, BENJAMIN MOORE - OC-14 ANTIQUE LACE
PT-2	PAINT 2	ACCENT COLOR, BENJAMIN MOORE - HC-8 DORSET GOLD
PT-3	PAINT 3	ACCENT COLOR, BENJAMIN MOORE - HC-80 BLEEKER BEIGE
PT-4	PAINT 4	ACCENT COLOR, BENJAMIN MOORE - 2129-60 MT. RAINER GRAY
PT-5	PAINT 5	ACCENT COLOR, BENJAMIN MOORE - 2021-50 YELLOW LOTUS
PT-6		STEEL STRINGERS, RAILING AND OR GUARD RAILS.
PT-8	VAIRES	INTERIOR HOLLOW METAL FRAMES TO BE PAINTED THE COLOR OF THE WALL THEYRE ATTACHED TO (IN SOME CASES THE FRAME WILL BE 2 COLORS DEPENDING ON ROOM COLOR ON EACH SIDE)
PT-9		INTERIOR HOLLOW METAL FRAMES AND DOORS
PT-10		ALL EXTERIOR HOLLOW METAL FRAMES (MATCH WINDOW FRAMES)
PT-11	PAINT 11	CEILING - GYP. BD. SOFFIT OR WINDOW HEADS

TOILET PARTITIONS

SYMBOL	MATERIAL	DESCRIPTION
SP	SOLID POLYMER	TBD - SELECTION TO BE MADE DURING SUBMITTAL REVIEW

LOCKERS

L1	CORRIDOR - STUDENT LOCKERS (TYPE A, B OR C)	RED COLOR - FINAL SELECTION TO BE MADE DURING SUBMITTAL REVIEW
L2	SERVERY CORRIDOR - 127B	DARK COLOR - FINAL SELECTION TO BE MADE DURING SUBMITTAL REVIEW

ACOUSTICAL PANELS

ACT	ACOUSTICAL CEILING TILE AND GRID	TBD

BASE FINISH

VB 1	VINYL COVE BASE	JOHNSONITE, 09 CLAY WB
VB 2	VINYL STRAIGHT BASE	JOHNSONITE, 31 ZEPHYR CB (AT CARPET ONLY)

CEILING/SOFFIT FINISH

MATERIAL -	SATC (SUSPENDED ACOUSTIC TILE)	SEE REFLECTED CEILING PLANS
GYP BD 1 PAINT	GYP BD (GYPSUM WALL BOARD)	BENJAMIN MOORE
-		

MILLWORK/CASEWORK

PL-1	PLASTIC LAMINATE	TBD
PL-2	PLASTIC LAMINATE	TBD
PL-3	PLASTIC LAMINATE	TBD
SS-4	SOLID SURFACE	TBD

WINDOW COVERINGS

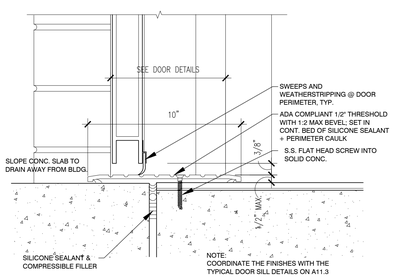
WC-1	WINDOW COVERING	STYLE: CLASSROOM SHADES COLOR TO BE SELECTED FROM MANF. STANDARD COLOR, W/WHITE HOUSING AND FASCIA; SEE REF. CLG. COORD. WITH WINDOW INSTALLER/MFR, TYP. ALL WINDOWS EXCEPT IN CORRIDORS, STAIRWELLS AND VESTIBULES, ALIGN UNITS WITH VERTICAL MULLIONS (TYP.)

ROOM FINISH LEGEND ABBREVIATIONS

FLOOR		BASE		WALL		CEILING	
CONC	CONCRETE	CB	CERAMIC COVE BASE	AP	ACOUSTICAL WALL PANELS	ACT	ACOUSTICAL CEILING TILE
SC	EPOXY COATING	EP	COVE EPOXY FLOORING BASE	BR	BRICK	CP	CEMENT PLASTER
CT	CERAMIC TILE	VB	VINYL COVE 4" HIGH	C	CONCRETE	EC	EXPOSED CONCRETE
DW	DETECTABLE WARNING	VS	VINYL STAIGHT 4" HIGH	CB	CHALK BOARD	EP	EPOXY PAINT
VCT	SOLID VINYL TILE	AC	ARCHITECTURAL CONCRETE	CMU	CONCRETE MASONRY UNIT	EXPC	EXPOSED CONSRUCTION
TC	TRAFFIC COATING	TC	TRAFFIC COATING	CTW	CERAMIC TILE WALL	GB	GYPSUM BOARD
QT	QUARRY TILE			EP	EPOXY PAINT	GP	GYPSUM PLASTER
VCT-	SOLID VINYL TILE			GYP BD	GYPSUM BOARD	MD	EXPOSED METAL DECK
SD	DISSIPATIVE			MP	METAL PANEL	PL	PLASTER
				MB	MARKER BOARD	PT	PAINT
				PS	PROJECTION SCREEN		
				PL	PLASTIC LAMINATE	OTHER	
				PT	PAINT	CP	COMPOSITE PLASTIC
				TB	TACK BOARD	L	LOCKERS
				SMB	SHT MARKER BOARD	PL	PLASTIC LAMINATE
				SS	SOLID SURFACE	SS	SOLID SURFACE
				FRP	FIBERGLASS REINFORCED PANEL	WC	WINDOW COVERING
						ICMWP	INSULATED CORE METAL WALL PANEL

FINISH NOTES:

1. INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS 1 WITH A FLAME SPREAD RATING 0-25, AND SMOKE DEVELOPED OF 200 PER CBC 8(15-8-380 TO 430)
2. ALL FLOOR COVERINGS SHALL BE CLASS A INTERIOR FINISH WITH CRITICAL RADIANT FLUX OF 0.45 WATTS PER SQ. CM. OR HIGHER, PER CBC 7(15-8-400)
3. ALL H.M. DOORS + FRAMES TO BE PAINTED PT-10 UNO IN DOOR SCHEDULE & INTERIOR ELEVATION COLORS. ALL H.M. FRAMES AT INTERIOR LITES TO BE PAINTED PT-10.
4. REFER TO A12.1 FOR GENERAL FINISH NOTES



1 A12.0 EXTERIOR DOOR SILL
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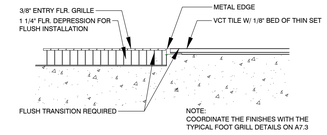

2 A12.0 FOOT GRILLE TO CT TRANSITION
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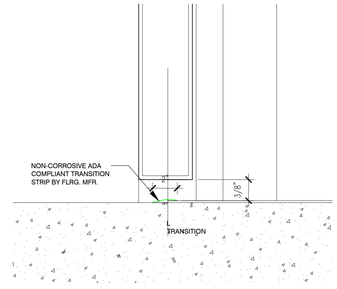
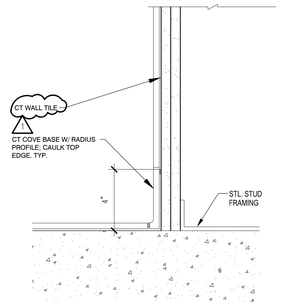


3 A12.0 CONCRETE TO VT TRANSITION
SCALE: 3"=1'-0"



4 A12.0 CERAMIC FLOORING COVE BASE
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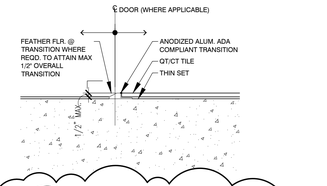

5 A12.0 VT TO CT/QT TRANSITION
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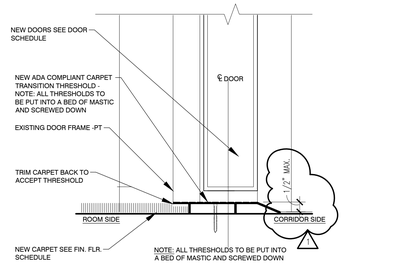

6 A12.0 CARPET TO VT TRANSITION
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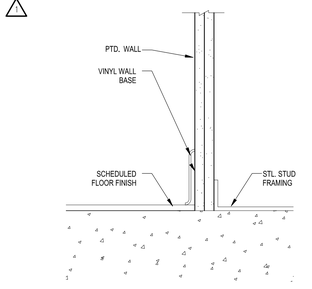
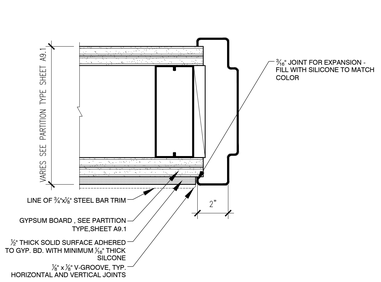
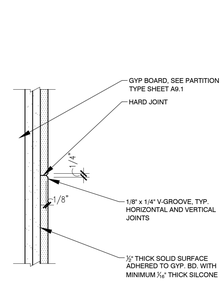


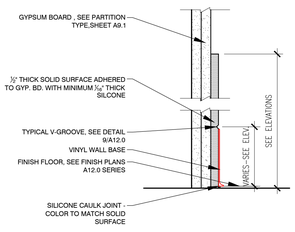
7 A12.0 VINYL FLOOR BASE AT GYP. BD. PARTITION
SCALE: 3"=1'-0"



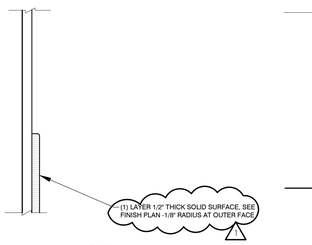
8 A12.0 TYPICAL JAMB DETAIL WITH SOLID SURFACE FINISH
SCALE: 3"=1'-0"



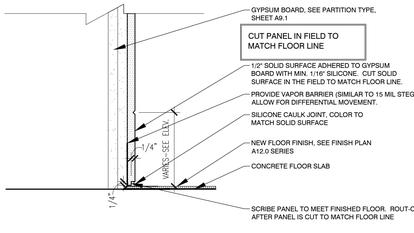
9 A12.0 1/8"x1/8" TYPICAL V-GROOVE DETAIL @ HORIZONTAL & VERTICAL JOINTS
SCALE: 3"=1'-0"



10 A12.0 TYPICAL JAMB DETAIL WITH SOLID SURFACE FINISH
SCALE: 3"=1'-0"



11 A12.0 TYPICAL CAP DETAIL
SCALE: 3"=1'-0"



12 A12.0 TYPICAL SOLID SURFACE & VT DETAIL
SCALE: 3"=1'-0"

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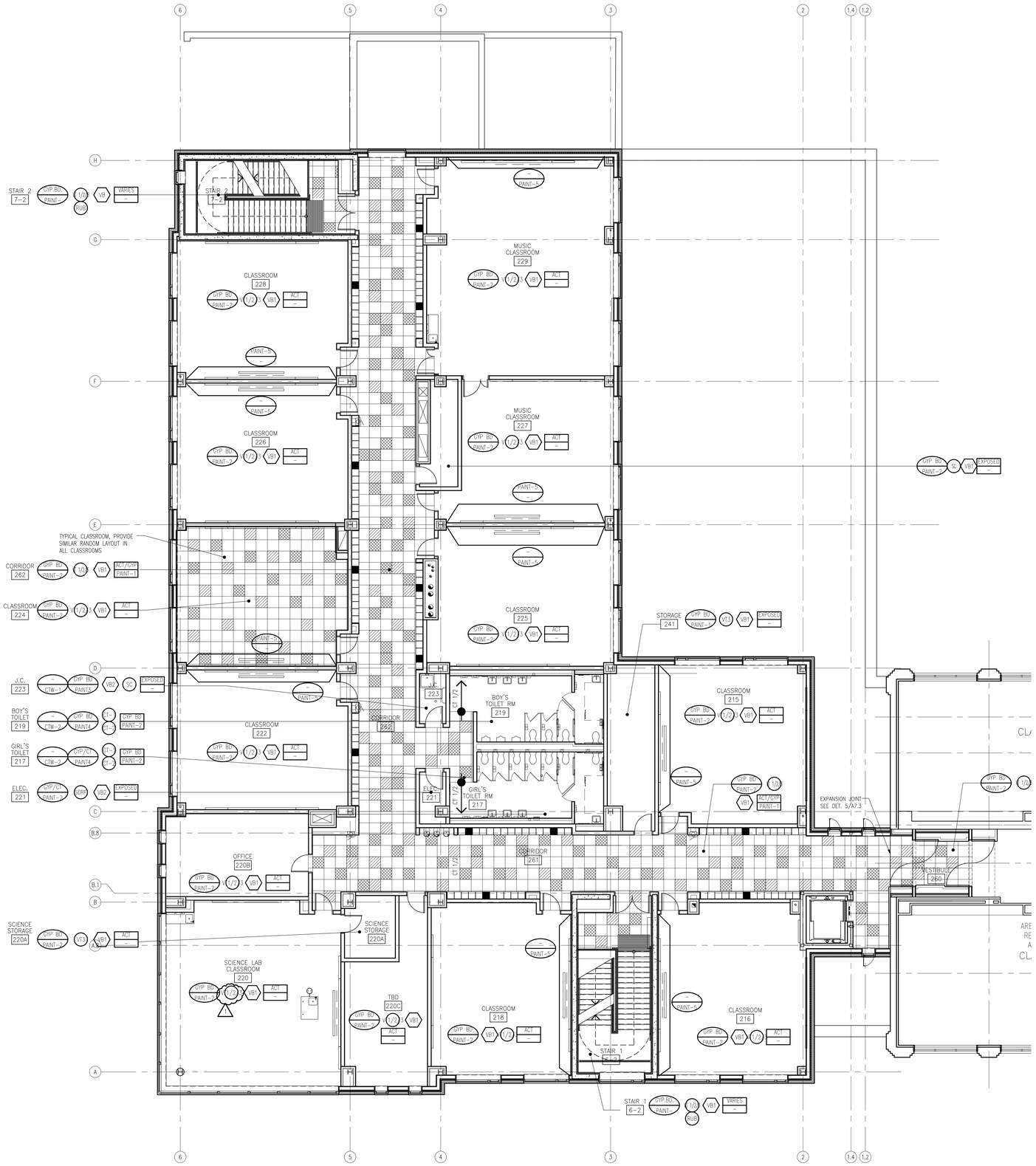
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	**1618-01 A12.0**

TITLE

FINISH SCHEDULE AND DETAILS

SHEET

A12.0



PROJECT NORTH

1 / A12.2 SECOND FLOOR FINISH PLAN

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

0 2 4 8 16'

GENERAL FINISH NOTES:

1. ALL WALLS SHALL RECEIVE SCHEDULED / NOTED FINISH IN ALL EXPOSED AREAS AND ON ALL EXPOSED SURFACES EXTENDED TO FINISHED CEILING UNLESS OTHERWISE NOTED.
2. ALL INTERIOR HOLLOW METAL DOORS, FRAMES, AND SIDE-LITE OR HOLLOWED METAL "LITE" FRAMES SHALL BE PRIMED PAINTED UNLESS NOTED OTHERWISE.
3. ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES SHALL BE PRIMED PAINTED UNLESS NOTED OTHERWISE.
4. ALL INTERIOR MISCELLANEOUS METAL EXPOSED TO VIEW, INCLUDING BUT NOT LIMITED TO STAIR STRUCTURE, RISERS, SUPPORTS, GUARDRAILS, PICKETS, STEEL MESH, EXPOSED CHANNELS, ETC., SHALL BE PRIMED PAINTED UNLESS NOTED OTHERWISE.
5. WHERE QUARRY TILE OR CERAMIC TILE ARE SCHEDULED PROVIDE BULLNOSED TRIM AT BASE TO WALL AND VERTICAL TRANSITIONS, PROVIDE COVE PROFILE AT ALL FLOOR TO WALL TRANSITIONS.
6. ALL TRANSITION STRIPS AND REDUCER STRIPS SHALL BE ADA COMPLIANT AND OF APPROPRIATE SIZE AND STYLE. COLOR AND STYLE SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. SEE SHEET A12.0 FOR TYPICAL TRANSITION DETAILS. ALIGN BENEATH DOORS AND AT DOOR THRESHOLDS UNLESS NOTED OTHERWISE.
7. ALL PAINTED CONCRETE MASONRY UNIT(S) WALLS SCHEDULED OR NOTED WITH TRAFFIC COATING. FINISH SHALL HAVE INTEGRAL TRAFFIC COATING BASE INCLUDING MANUFACTURERS RECOMMENDED FLOOR/WALL TRANSITION (FLOOR/EQUIPMENT PAD TRANSITIONS SIMILAR). ALL OTHER PAINTED CONCRETE MASONRY UNIT(S) WALLS SHALL RECEIVE RESILIENT BASE UNLESS NOTED OTHERWISE. COVE PROFILE BASE SHALL BE USED ON CONCRETE MASONRY UNIT(S) WALLS AT ALL OTHER FLOOR SURFACES UNLESS NOTED OTHERWISE.
8. ALL GYPSUM BOARD WALLS SHALL RECEIVE RESILIENT BASE UNLESS NOTED OTHERWISE. COVE PROFILE BASE SHALL BE USED ON GYPSUM BOARD. WALLS AT ALL OTHER FLOOR SURFACES UNLESS NOTED OTHERWISE.
9. AT LOCATIONS WHERE WALL FINISH CHANGES AT EXPOSED JAMBS FINISH SHALL OCCUR AT WALL CENTERLINE UNLESS NOTED OTHERWISE
10. INTERIOR WAINSCOT AT DINING ROOM SHALL BE SOLID SURFACE MATERIAL.
11. ALL "OUTSIDE" CORNERS AT GYPSUM WALLBOARD PARTITIONS SHALL RECEIVE HIGH IMPACT CORNER GUARDS.
12. REFER TO PLANS AND ELEVATIONS FOR REQUIRED SHELVING (OTHER THAN SCHEDULED CASEWORK).
13. ALL FLOORING MATERIAL CHANGES SHALL OCCUR AT CENTER OF DOOR SIDE STOP UNLESS NOTED OTHERWISE
14. ALL MECHANICAL ROOMS INCLUDING ALL EQUIPMENT PADS SHALL RECEIVE EPOXY COATING (SC) +4" INTEGRAL TRAFFIC COATING BASE, AND PAINT ON WALLS. PROVIDE FRP WHERE SHOWN ON FINISH PLAN, CAULK TO WALL BASE, HOLD OFF ADJACENT SURFACES 3/8"-1/2" AT ALL TERMINATIONS AND PENETRATIONS, INSTALL BACKER ROD AND SEALANT.
15. ALL INTERIOR WINDOWS SILLS LOCATED WITHIN GYPSUM BOARD WALLS SHALL BE CONTINUOUS PRE-FINISHED ALUMINUM SILL RECEPTOR WITH WELDED JOINTS, AND END DAMS SET IN CONTINUOUS BED OF SILICON SEALANT. COLOR TO MATCH WINDOW FRAME XX|AX.XX
16. REFER TO PLANS AND INTERIOR ELEVATIONS FOR LOCATION OF ALL TACK, MARKER BOARDS, AND SHEET MARKER BOARDS.
17. REFER TO REFLECTED CEILING PLANS FOR CEILING FINISHES AND TYPES.
18. EXTEND SCHEDULED WALL FINISH/PATTERN MINIMUM 8" ABOVE FINISHED CEILING, PROVIDE STANDARD SMOOTH CONCRETE MASONRY UNIT(S) IN ALL UNEXPOSED AREAS (INCLUDING CEILING PLENUM) TO UNDERSIDE OF THE METAL DECK UNLESS NOTED OTHERWISE.
19. CASEWORK SHALL RECEIVE RESILIENT BASE UNLESS NOTED OTHERWISE
20. SCHEDULED/NOTED FLOOR FINISHES SHALL EXTEND BENEATH ALL BUILT-IN CASEWORK.
21. ALL ROOMS WITH SCHEDULED CARPETING TO RECEIVE STRAIGHT (COVE-LESS) VINYL BASE UNLESS NOTED OTHERWISE.
22. ALL ROUND COLUMNS TO RECEIVE STRAIGHT (COVE-LESS) VINYL BASE.

FINISH SYMBOL LEGEND:

SUBSTRATE MATERIAL / FINISH MATERIAL — WALL FINISH

(INS) — FLOOR FINISH

(INS) — BASE FINISH

MATERIAL / FINISH — FINISH CEILING

COLOR PATTERNING

CORRIDORS AS MARKED AND CLASSROOMS FOLLOWING RM 122

VT-1 (10%)

VT-2 (30%)

VT-3 (60%)

CPT

ABBREVIATIONS

VT	RESILIENT TILE FLOORING
CT	CERAMIC TILE FLOOR
CPT	CARPET
SC	EPOXY COATING
SDRF	STATIC DISSIPATIVE RESILIENT FLOORING
EFM	ENTRY FLOOR MAT
RUB	INTEGRATED RUBBER NOSE AND TREAD
VB	VINYL BASE
CB	CERAMIC BASE
ACT	ACOUSTICAL CEILING TILE AND GRID
FRP	FIBER REINFORCED PANELS
SS	SOLID SURFACE

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8	ADDENDUM 1	05/16/2017
9		
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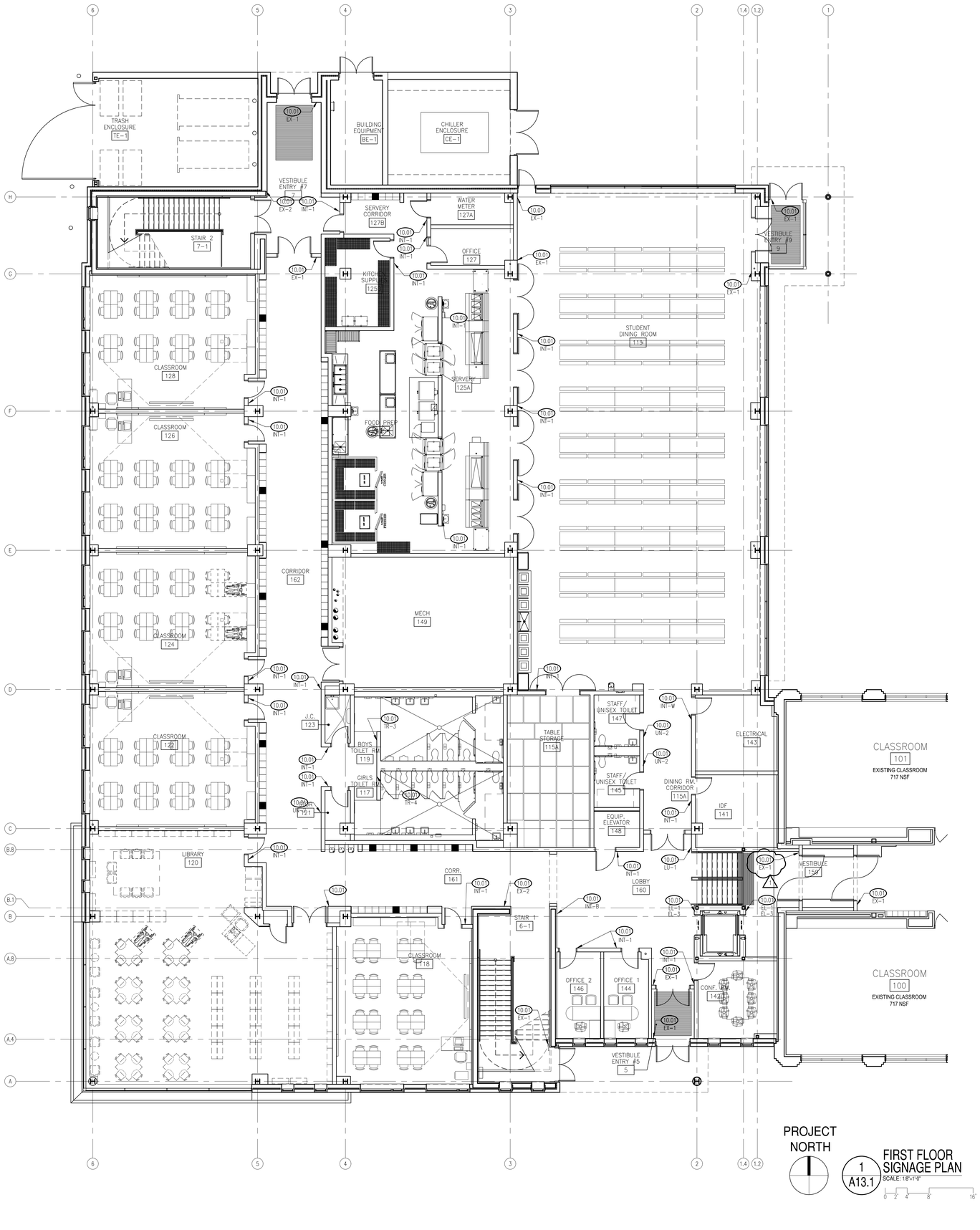
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A12.2

TITLE

SECOND FLOOR FINISH PLAN

SHEET

A12.2



ARCHITECTURAL
SCOPE OF WORK

GENERAL NOTES:
1. SEE A0.1 FOR EXTERIOR SIGNS LOCATIONS
2. SEE A0.1 FOR INTERIOR SIGNS FOR RENOVATION OF EXISTING SCHOOL.
3. REFER TO SHEET A0.1 FOR DIRECTIONAL SIGNAGE TO ACCESSIBLE TOILET ROOMS AND ASSISTIVE LISTENING DEVICE SIGNAGE LOCATIONS.

DIVISION 10
10.01- PROVIDE NEW INTERIOR SIGNAGE. NUMBER DENOTES SIGN GYP AS SHOWN ON SHEET ADA.08

SIGNAGE SCHEDULE

	ROOM NUMBER	ROOM NAME	TYPE	SIGN TEXT (NAME AND NUMBER	REMARKS
Exist 1st Flr					
	106	Classroom	INT-1		N/A
	107	Classroom	INT-1		N/A
	110	Classroom	INT-1		N/A
1st Floor					
	5	Vestibule	SEE A0.1	VESTIBULE	(ENTRY #6)
	115	Student Dining Rm	INT-1	MULIT-PURPOSE (DINING)	
		Student Dining Rm	SEE A0.1	--	(ENTRY #8)
	115A	Table Storage	INT-1	TABLE STORAGE ROOM	
	117	Girls Toilet Rm	TR-1	GIRLS TOILET	
	6-1	Stair 1	EX-2	STAIR 6	
	118	Classroom	INT-1	CLASSROOM	
	119	Boys Toilet Rm	TR-2	BOYS TOILET	
	120	Library	INT-1	LIBRARY	2 SIGNS
	121	Storage	INT-1	STORAGE	
	122	Classroom	INT-1	CLASSROOM	
	123	Jan Closet	INT-1	JANITOR CLOSET	
	124	Classroom	INT-1	CLASSROOM	
	125	Hybrid Kitchen	INT-1	HYBRID KITCHEN	
	125A	Servery	INT-1	SERVERY	4 SIGNS
	125B	Kitchen Storage	INT-1	KITCHEN SUPPLIES	
	126	Classroom	INT-1	CLASSROOM	
	127	Kitchen Office	INT-1	OFFICE	
	127A	Water Meter Rm	INT-1	WATER METER ROOM	
	128	Classroom	INT-1	CLASSROOM	
	7	Entry Vestibule #7	SEE A0.1	VESTIBULE	(ENTRY #7)
	7-1	Stair 2	EX-2	STAIR 7	
	141	MDF	INT-1	MDF ROOM	
	142	Conference Rm	INT-1	CONFERENCE ROOM	
	143	Electrical	INT-1	ELECTRICAL ROOM	
	144	Office 1	INT-1	OFFICE	
	145	Unisex Toilet	UN-2	UNISEX TOILET ROOM	
	146	Office 2	INT-1	OFFICE	
	147	Unisex Toilet	UN-2	UNISEX TOILET ROOM	
	148	Elevator Equipment	INT-1	ELEVATOR EQUIPMENT ROOM	
	149	Mech	INT-1	MECHANICAL ROOM	
	9	Vestibule Entry #9	SEE A0.1	VESTIBULE	(ENTRY #9)
	159	Vestibule	SEE A0.1	VESTIBULE	2 SIGNS
	160	Lobby	--	--	N/A
	161	Corridor	--	--	N/A
	162	Corridor	--	--	N/A
	BE-1	Exterior Bldg Equip	SEE A0.1	EXTERIOR BUILDING EQUIPMENT	
	CE-1	Chiller Enclosure	--	--	N/A
	TE-1	Trash Enclosure	--	--	N/A
Exist 2nd Flr					
	212	Classroom	INT-1		N/A
	214	Classroom	INT-1		N/A
2nd Floor					
	215	Classroom	INT-1	CLASSROOM	
	216	Classroom	INT-1	CLASSROOM	
	6-2	Stair 1	EX-2	STAIR 6	
	217	Girls Toilet Rm	TR-1	GIRLS TOILET	
	218	Classroom	INT-1	CLASSROOM	
	219	Boys Toilet Rm	TR-2	BOYS TOILET	
	220	Classroom-Lab	INT-1	SCIENCE ROOM	
	220A	Science Storage	INT-1	SCIENCE STORAGE ROOM	
	220B	Office	INT-1	OFFICE	
	220C	Office	INT-1	OFFICE	
	221	Electric Rm	INT-1	ELECTRICAL ROOM	
	222	Classroom	INT-1	CLASSROOM	
	223	Janitor Closet	INT-1	JANITOR CLOSET	
	224	Classroom	INT-1	CLASSROOM	
	225	Classroom	INT-1	CLASSROOM	
	226	Classroom	INT-1	CLASSROOM	
	227	Music Classroom	INT-1	MUSIC CLASSROOM	
	227A	Pump Rm	INT-1	PUMP ROOM	
	228	Classroom	INT-1	CLASSROOM	
	229	Music Classroom	INT-1	MUSIC ROOM	2 SIGNS
	7-2	Stair 2	EX-2	STAIR 7	
	241	Storage	INT-1	STORAGE	
	260	Vestibule	INT-1	VESTIBULE	2 SIGNS
	261	Corridor	--	--	N/A
	262	Corridor	--	--	N/A

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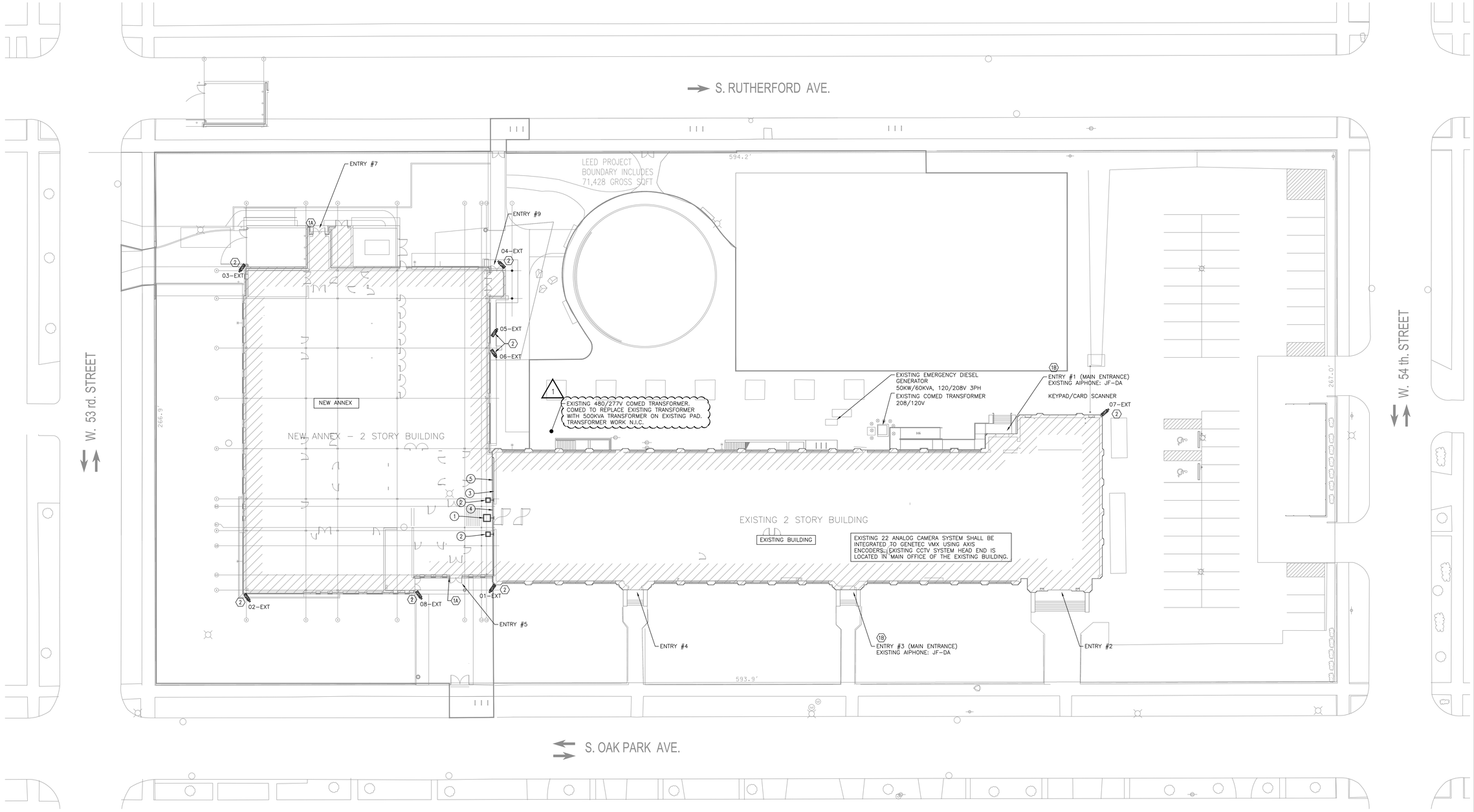
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 A13.1A

TITLE
FIRST FLOOR SIGNAGE PLAN

SHEET
A13.1



N

1 / E1.0 SITE PLAN
SCALE: 1"=20'-0"

SITE PLAN DEMOLITON KEYNOTES:

1. EXISTING ROOF MOUNTED LIGHTING FIXTURE TO REMAIN.
2. REMOVE AND SALVAGE EXISTING WALL PACK LIGHTING FIXTURE. DISCONNECT POWER TO FIXTURE. MAINTAIN CIRCUIT CONTINUITY. TURN OVER LIGHTING FIXTURES TO CPS.
3. SALVAGE EXISTING CAMERA. REMOVE CABLING AND EXPOSED CONDUIT BACK TO SOURCE. TURN OVER SALVAGED CAMERA TO CPS.
4. SALVAGE EXISTING AIPHONE (JF-DV). REMOVE CABLING AND EXPOSED CONDUIT BACK TO SOURCE. TURN OVER SALVAGED DEVICE TO CPS.
5. EXISTING SURFACE MOUNTED JUNCTION BOX. REMOVE JUNCTION BOX AND ASSOCIATED WIRING. IF ACTIVE CIRCUIT REMOVE TO NEAREST JUNCTION BOX INSIDE BUILDING AND MAINTAIN CIRCUIT CONTINUITY. JUNCTION BOX APPROX. 15-20' ABOVE GRADE.

GENERAL NOTE:

FOR SITE LIGHT POLE SCOPE OF WORK REFER TO CIVIL DRAWINGS.

SITE PLAN KEYNOTES:

1. PROVIDE "AIPHONE" SECURED SYSTEM PER SPEC. 28 13 15 ACCESS CONTROL SYSTEM (INTERCOM, DOOR BUZZER, CAMERA, ETC.) WITH A LOCKABLE WEATHERPROOF ENCLOSURE. PROVIDE ELECTRIC STRIKE AT EACH ACTIVE DOOR LEAF FOR REMOTE RELEASE CAPABILITY - ALL ACTIVE DOOR LEAFS AT THIS LOCATION SHOULD BE OPENED IN A SYNCHRONIZED MANNER (EXTERIOR DOOR FIRST AND INTERIOR DOOR OPENING ON A DELAY). AIPHONE SYSTEM, ELECTRIC STRIKES AND/OR DOOR OPERATORS ARE TO BE FULLY CONTROLLED BY MASTER HEAD UNIT(S) AS OUTLINED BELOW. REFER TO SHEETS E1.1A ANNEX BUILDING ENLARGED PLAN AND E1.1B EXISTING BUILDING FIRST FLOOR PLAN FOR ADDITION AIPHONE INFOMATION AND SHEET E5.3 DETAIL 3. ADJOINING LETTER INDICATES THE FOLLOWING:
   - A. NEW AIPHONE LOCATION - PROVIDE AIPHONE
   - B. ORIGINAL AIPHONE LOCATION - PROVIDE AIPHONE
   - C. MAIN OFFICE 110 PROVIDE MASTER HEAD UNIT CONTROL & HOMERUN TO EXITS #1, 3, 5, 7.
   - D. CORRIDOR 150, PROVIDE MASTER HEAD UNIT CONTROL & HOMERUN TO EXITS #1, 3, 5, 7.
   - E. FOOD PREP OFFICE 127, PROVIDE HEAD UNIT CONTROL & HOMERUN TO EXIT #7.
2. PROVIDE DVS CAMERA AND ASSOCIATED CABLING. REFER TO DETAILS ON SHEETS E5.5 AND E5.6 AND SPECIFICATION 28 23 09.

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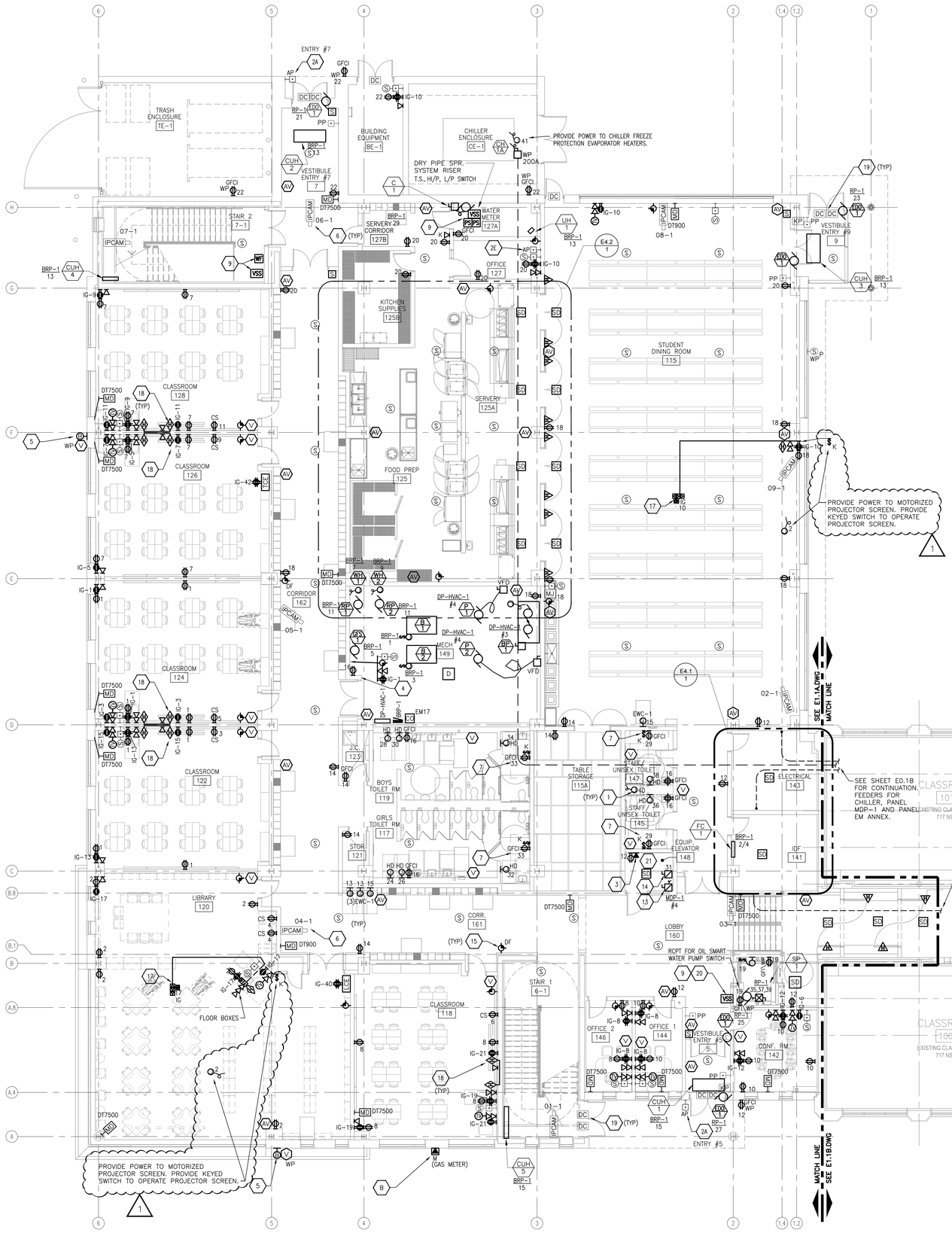
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	1618-01 E1.0

TITLE

SITE PLAN

SHEET

E1.0



GENERAL NOTES:

1. SCHOOL ANNEX HAS A PLENUM RETURN CEILING SYSTEM. INSTALLATION SHALL COMPLY WITH ALL CEC PLENUM REQUIREMENTS.
2. ALL PENETRATIONS THROUGH FIRE RATED BUILDING SURFACES MUST BE EFFECTIVELY AND TIGHTLY SEALED EMPLOYING APPROVED METHODS AND USING FIRE PROOFING MATERIAL HAVING SAME FIRE RATING AS PENETRATED SURFACES.
3. FOR ALL ADA MOUNTING HEIGHTS REFER TO ARCHITECTURAL SHEETS.
4. ANNEX BUILDING WILL HAVE A CHICAGO APPROVED SPRINKLER SYSTEM.
5. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSION. ALL DIMENSIONS TO BE VERIFIED IN FIELD.

KEYNOTES:

1. PROVIDE POWER TO TRANSFORMER PROVIDED BY PLUMBING TRADE FOR PLUMBING FIXTURE SENSOR (WATER CLOSET). PROVIDE ALL WIRING AND CONNECTIONS FOR A COMPLETE AND OPERATING SYSTEM. SEE 4/E5.4.
2. PROVIDE "AIPHONE" SECURED SYSTEM PER SPEC. 28 13 15 ACCESS CONTROL SYSTEM (INTERCOM, DOOR BUZZER, CAMERA, ETC.) WITH A LOCKABLE WEATHERPROOF ENCLOSURE. PROVIDE ELECTRIC STRIKE AT EACH ACTIVE DOOR LEAF FOR REMOTE RELEASE CAPABILITY – ALL ACTIVE DOOR LEAFS AT THIS LOCATION SHOULD BE OPENED IN A SYNCHRONIZED MANNER (EXTERIOR DOOR FIRST AND INTERIOR DOOR OPENING ON A DELAY). AIPHONE SYSTEM, ELECTRIC STRIKES AND/OR DOOR OPERATORS ARE TO BE FULLY CONTROLLED BY MASTER HEAD UNIT(S) AS OUTLINED BELOW. REFER TO SHEET E5.3 DETAIL 3. ADJOINING LETTER IN KEYNOTE INDICATES THE FOLLOWING:
   A. NEW AIPHONE LOCATION – PROVIDE AIPHONE
   B. ORIGINAL AIPHONE LOCATION – PROVIDE AIPHONE
   C. MAIN OFFICE 110 PROVIDE MASTER HEAD UNIT CONTROL & HOMERUN TO EXITS #1, 3, 5, 7.
   D. CORRIDOR 150, PROVIDE MASTER HEAD UNIT CONTROL & HOMERUN TO EXITS #1, 3, 5, 7.
   E. FOOD PREP OFFICE 127, PROVIDE HEAD UNIT CONTROL & HOMERUN TO EXIT #7.
3. PROVIDE PHONE LINE FOR ELEVATOR. COORDINATE LOCATION WITH ELEVATOR EQUIPMENT.
4. PROVIDE EMERGENCY SHUTDOWN SWITCH FOR BOILERS. EATON HT 800 OR APPROVED EQUAL WITH 3 CONTACTS AND A RED, MUSHROOMHEAD TYPE (40mm), TWO-POSITION MAINTAINED BUTTON. HARDWIRE DIRECTLY TO THE MASTER FUEL TRIP RELAY AND CAN BE WIRED AS AN INPUT TO THE BURNER MANAGEMENT SYSTEM LOGIC AS WELL. THIRD CONTACT FOR BAS CONNECTION. THE SWITCH WILL BE LABELED "EMERGENCY FUEL BURNER SWITCH". COORDINATE WITH DIVISION 23 AND BMS DRAWINGS AND SPECIFICATIONS.
5. WIRE ALL INDOOR AND OUTDOOR BELLS COMPLETE IN PLACE, READY FOR OPERATION. PROVIDE 120V ELECTRICAL CIRCUIT TO BELL.
6. PROVIDE DVS CAMERA AND ASSOCIATED CABLING. REFER TO DETAILS ON SHEETS E5.5 AND E5.6 AND SPECIFICATION 28 23 09.
7. CHANGING TABLE RECEPTACLE WITH KEYED OPERATED SWITCH. VERIFY EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
8. PROVIDE VOICE OUTLET FOR AUTOMATIC METER READER. SEE DETAIL 1/E5.7. COORDINATE LOCATION WITH METERS.
9. FLOW SWITCHES, PRESSURE SWITCHES, AND TAMPER SWITCHES, PROVIDED BY FIRE PROTECTION, WIRED BY ELECTRICAL TRADE.
10. PROVIDE LIGHTING CONTROL RELAY PANEL AND ASTRONOMICAL TIMER FOR LIGHTING CONTROL. SEE LIGHTING RELAY CONTROL PANEL SCHEDULE ON E8.0.
11. PROVIDE CONDUIT AND WIRING FOR DOOR HOLD OPEN SYSTEM. REFER TO DOOR HOLDER RISER DIAGRAM 1/E5.4.
12. NOT USED.
13. 3P-100A FUSED DISCONNECT SWITCH FOR ELEVATOR FED FROM PANEL MDP. COORDINATE FUSE SIZE WITH ELEVATOR PROVIDED. COORDINATE LOCATION WITH ELEVATOR EQUIPMENT.
14. 1P-15A FUSED DISCONNECT FOR ELEVATOR LIGHTS. COORDINATE WITH ELEVATOR EQUIPMENT.
15. PROVIDE SHOCK SENSORS FOR 2ND FLOOR WINDOWS WITH LOW ROOF BELOW. CONNECT TO THE INTRUSION DETECTION SYSTEM.
16. PROVIDE SUPERVISORY SPRINKLER CONTROL PANEL AND TRANSPONDER PANEL FOR FIRE ALARM SYSTEM.
17. PROVIDE NEW EXTRA DEEP BACKBOX WITH HDMI JACK FOR VIDEO PROJECTOR, VERIFY EXACT LOCATION WITH CPS. PROVIDE 1" CONDUIT WITH HDMI CABLE UP TO CEILING VIDEO PROJECTOR HDMI JACK. TERMINATE CABLE AT EACH OUTLET. SEE DETAILS E5.1 AND A8.3 FOR PROJECTOR DETAIL.
18. PROVIDE SHORT THROW PROJECTOR OUTLETS. SEE DETAILS ON E5.1.
19. DOOR CONTACT WITH IP COMMUNICATOR INTEGRATED INTO THE EXISTING INTRUSION SYSTEM AT MAIN BUILDING. TYPICAL FOR ALL EXTERIOR DOOR.
20. SPRINKLER VALVE SUPERVISORY (TAMPER) SWITCH (VSS) SHALL BE CONNECTED TO SEPARATE ZONE ON FACP.
21. PROVIDE RELAYS IN ELEVATOR EQUIPMENT ROOM FOR ELEVATOR CONTROLLER INTERFACE.

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX

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ALPHONSE A. ILEKIS, AIA

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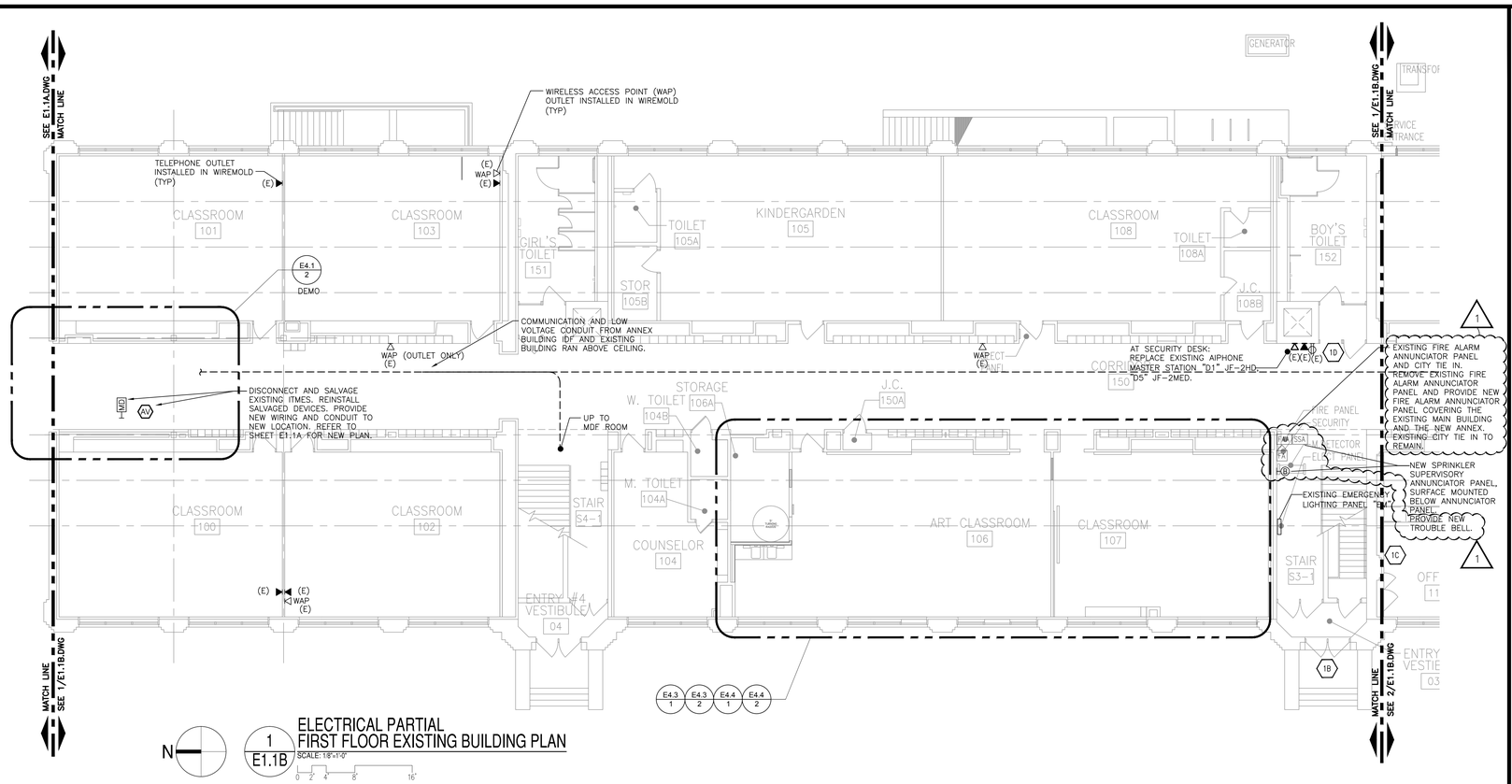
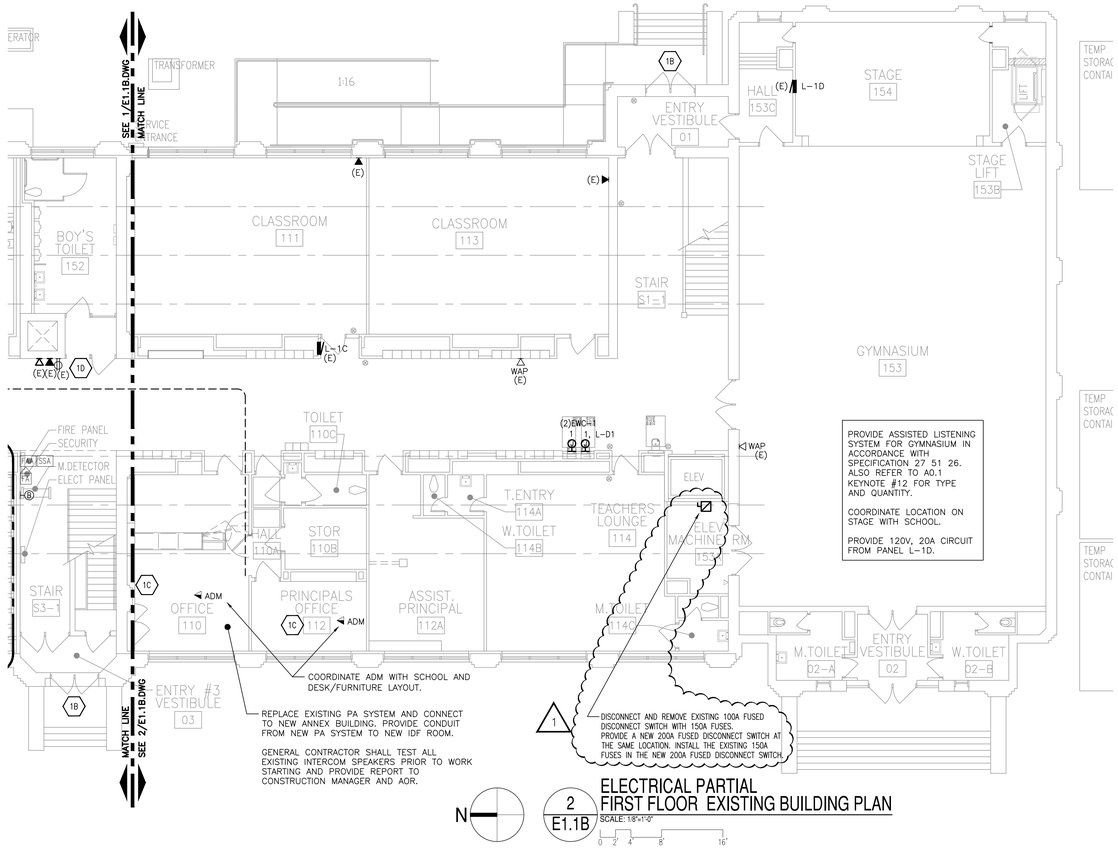
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	16538 E1.1A

TITLE
FIRST FLOOR ELECTRICAL PLAN – ANNEX

SHEET
E1.1A





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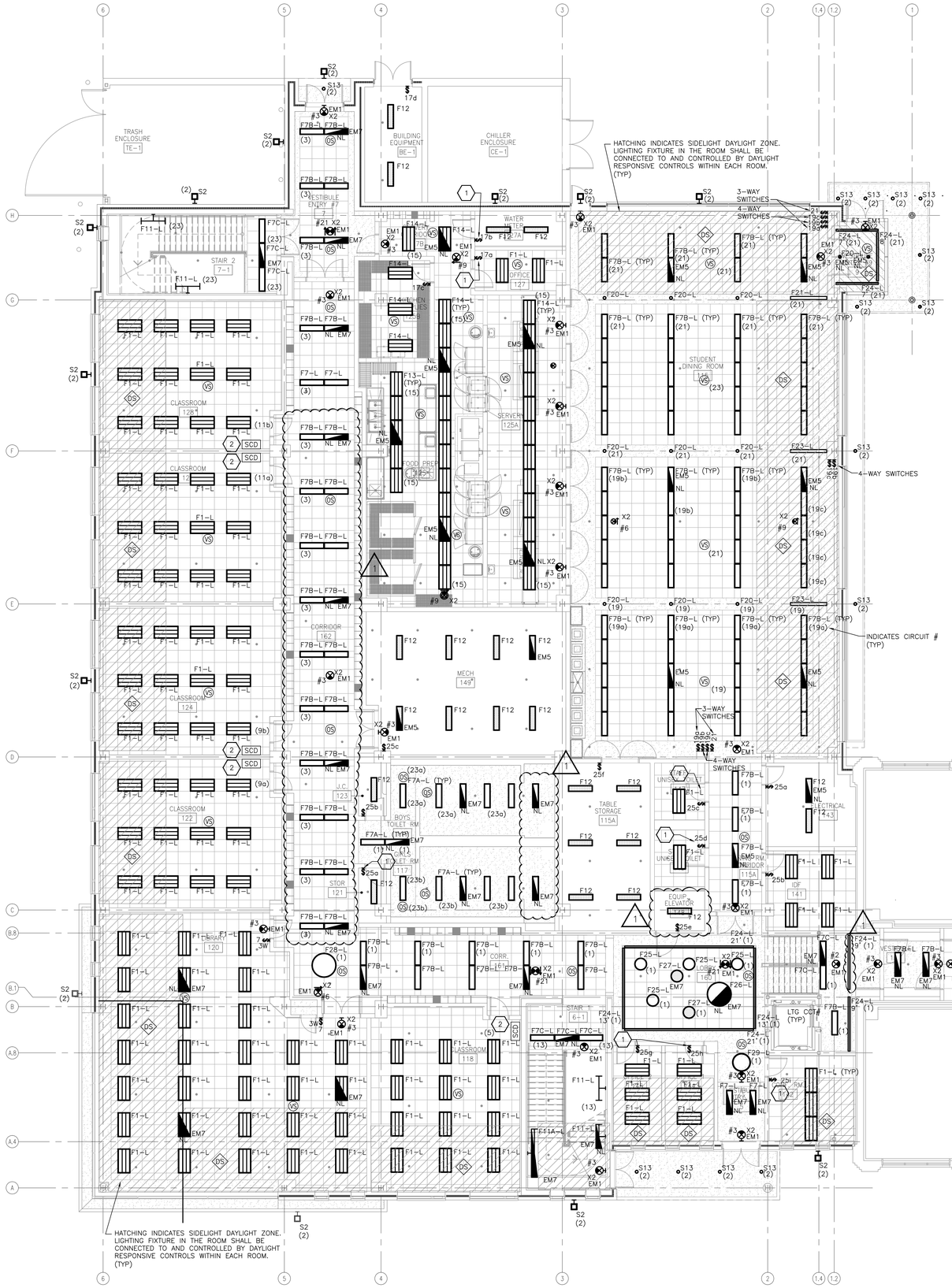
1

DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	16538 E1.1B

TITLE
ELECTRICAL FIRST FLOOR PLAN

SHEET
E1.1B



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1 / E2.1A FIRST FLOOR ELECTRICAL RCP - ANNEX

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

0 2 4 8 16'

GENERAL NOTES:

1. SCHOOL ANNEX ADDITION HAS A PLENUM RETURN CEILING SYSTEM. INSTALLATION SHALL COMPLY WITH ALL CEC PLENUM REQUIREMENTS.
2. ALL PENETRATIONS THROUGH FIRE RATED BUILDING SURFACES MUST BE EFFECTIVELY AND TIGHTLY SEALED EMPLOYING APPROVED METHODS AND USING FIRE PROOFING MATERIAL HAVING SAME FIRE RATING AS PENETRATED SURFACES.
3. LIGHTING FIXTURES FED FROM PANEL LP-1 LOCATED IN ELECTRICAL ROOM 137 UNLESS OTHERWISE NOTED. EXTERIOR LIGHTING, NIGHT LIGHTING, STAIRWAY, CORRIDOR LIGHTING CONTROLLED BY LIGHTING RELAY CONTROL PANEL. SEE SHEET E8.1.
4. CONDUIT SERVING EXTERIOR LIGHTING SHALL BE CONCEALED WITHIN NEW WALLS OR THE GROUND. SURFACE MOUNTED CONDUIT SHALL NOT BE USED.
5. REFER TO SHEET E8.1 FOR LIGHTING RELAY CONTROL PANEL
6. REFER TO SHEET E4.1, DETAIL 3 FOR TYPICAL CLASSROOM LIGHTING CONTROL DETAIL.

LIGHTING KEYNOTES:

1. PROVIDE DUAL TECHNOLOGY WALL SWITCH VACANCY SENSOR.
2. PROVIDE FOR EACH CLASSROOM WALL DIMMING STATION WITH MULTI-BUTTON CONTROLS (ON, OFF, 2 PRE-SET SCENES, DIMMING UP AND DOWN), CEILING VACANCY SENSOR, DAYLIGHT PHOTO SENSOR, AND ROOM LIGHTING CONTROLS. SEE TYPICAL CLASSROOM LIGHTING CONTROL DETAIL 3/E4.1. LIGHTING CIRCUIT NOTED IS FOR ALL LIGHTING FIXTURES WITHIN ROOM.

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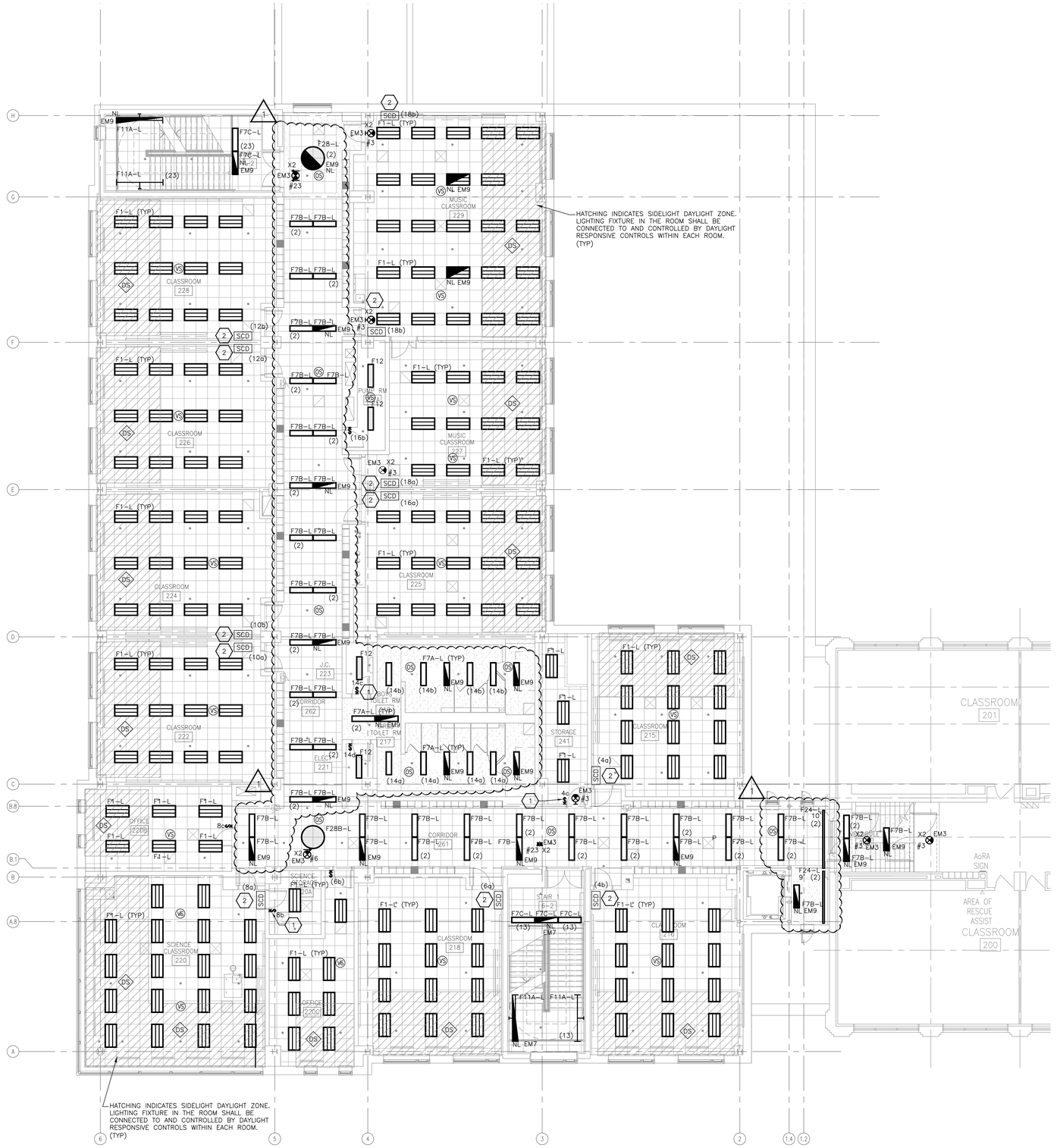
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	16538 E2.1A

TITLE

FIRST FLOOR ELECTRICAL RCP – ANNEX

SHEET

E2.1A



N

1 / E2.2A SECOND FLOOR ELECTRICAL PLAN- ANNEX

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

0 2' 4' 8' 16'

GENERAL NOTES:

1. SCHOOL ANNEX ADDITION HAS A PLENUM RETURN CEILING SYSTEM. INSTALLATION SHALL COMPLY WITH ALL CEC PLENUM REQUIREMENTS.
2. ALL PENETRATIONS THROUGH FIRE RATED BUILDING SURFACES MUST BE EFFECTIVELY AND TIGHTLY SEALED EMPLOYING APPROVED METHODS AND USING FIRE PROOFING MATERIAL HAVING SAME FIRE RATING AS PENETRATED SURFACES.
3. LIGHTING FIXTURES FED FROM PANEL LP-1 LOCATED IN ELECTRICAL ROOM 137 UNLESS OTHERWISE NOTED. EXTERIOR LIGHTING, NIGHT LIGHTING, STAIRWAY, CORRIDOR LIGHTING CONTROLLED BY LIGHTING RELAY CONTROL PANEL. SEE SHEET E8.1.
4. CONDUIT SERVING EXTERIOR LIGHTING SHALL BE CONCEALED WITHIN NEW WALLS OR THE GROUND. SURFACE MOUNTED CONDUIT SHALL NOT BE USED.
5. REFER TO SHEET E8.1 FOR LIGHTING RELAY CONTROL PANEL
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LIGHTING KEYNOTES:

(1) PROVIDE DUAL TECHNOLOGY WALL SWITCH VACANCY SENSOR.

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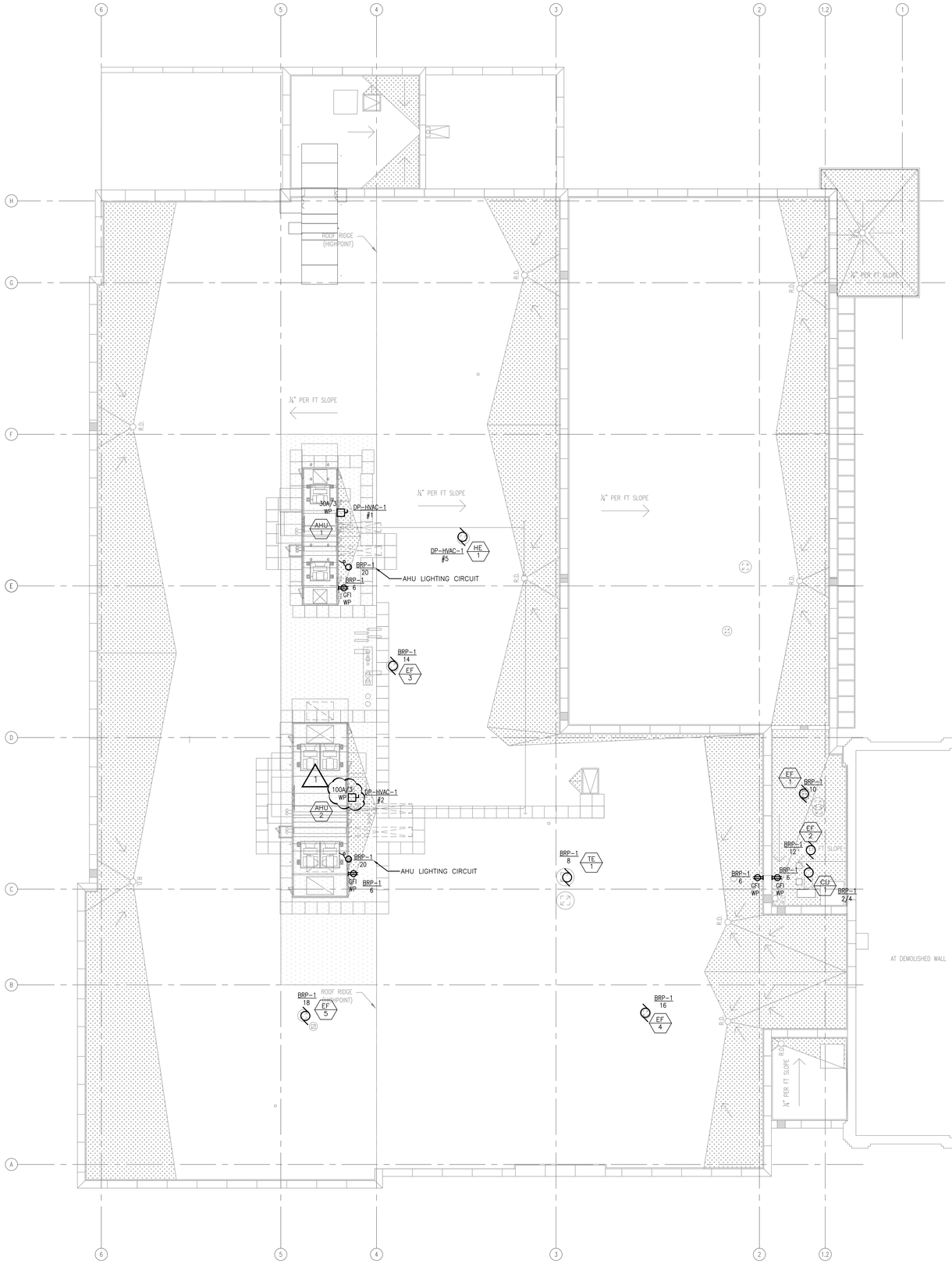
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	16538 E2.2A

TITLE

SECOND FLOOR ELECTRICAL RCP – ANNEX

SHEET

E2.2A



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STEARN - JOGLEKAR, LTD
CHICAGO, ILLINOIS
STRUCTURAL ENGINEER OF RECORD

MILHOUSE ENGINEERING & CONSTRUCTION, INC.
CHICAGO, ILLINOIS
CIVIL ENGINEER OF RECORD

SITE DESIGN GROUP
CHICAGO, ILLINOIS
LANDSCAPE ARCHITECT

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ACOUSTICAL ENGINEER

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FOOD SERVICES CONSULTANT

ECOVIDAL DESIGN INC.
CHICAGO, ILLINOIS
LEED CONSULTANT

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ALPHONSE A. ILEKIS, AIA

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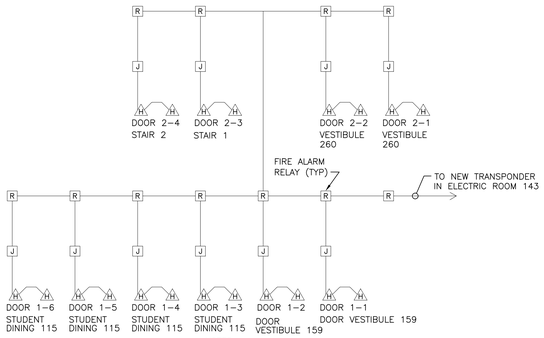
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	16538 E3.1A

TITLE
ROOF ANNEX PLAN

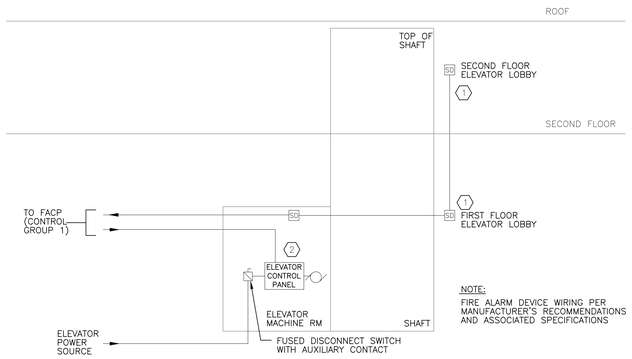
SHEET
E3.1A



NOTES:

1. DOOR HOLDER SHALL RELEASE DOORS FROM OPEN POSITION UPON A GENERAL ALARM DETECTED AT THE FIRE CONTROL PANEL OR UPON ACTIVATION OF EITHER SMOKE DETECTOR LOCATED ON EACH SIDE OF THE DOOR.
2. MINIMUM CONDUIT SIZE SHALL BE 3/4"

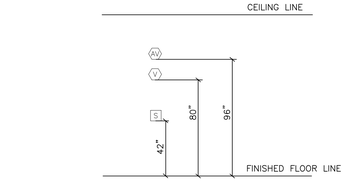
1 / E5.4 DOOR HOLDER RISER DIAGRAM
SCALE: NONE



NOTES.

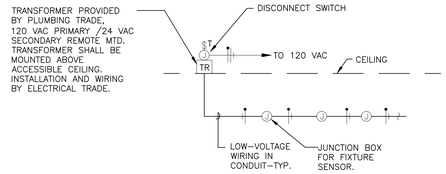
1. TEMPERATURE SETTING OF THIS DETECTOR SHALL BE ±50° BELOW SETTING OF SPRINKLERS HEAD. (SETTING OF SPRINKLER HEAD SHOULD BE ± 185°.)
2. PROVIDE RELAYS IN ELEVATOR EQUIPMENT ROOM FOR ELEVATOR CONTROLLER INTERFACE.

2 / E5.4 ELEVATOR FIRE PROTECTION CONTROL SCHEMATIC
SCALE: NONE



PER AGREEMENT WITH DCAP, FIRE, AND MOPD, THE VISUAL ALARM (STROBE) CAN ALSO BE INSTALLED AT 96" ABOVE THE FINISHED FLOOR, THUS ENABLING THE INSTALLATION OF A SINGLE COMBINATION VISUAL AND AUDIBLE DEVICE. IN AREAS WHERE THE CEILING HEIGHT DOES NOT ALLOW FOR 96" MOUNTING HEIGHT, THE COMBINATION DEVICE SHALL BE MOUNTED 6" BELOW THE CEILING PLANE.

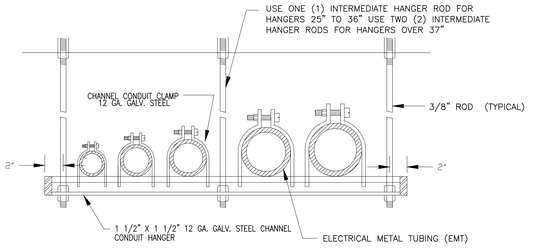
3 / E5.4 FIRE ALARM DEVICE MOUNTING HEIGHT DIAGRAM
SCALE: NONE

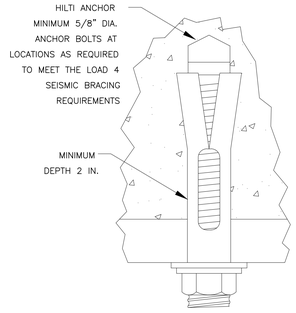


NOTES:

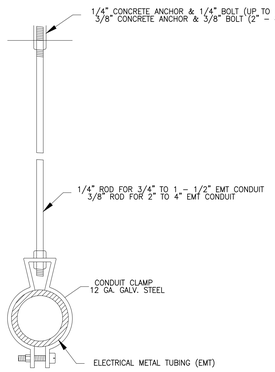
1. PLUMBING FIXTURE SENSOR SCHEMATIC WIRING DIAGRAM IS DIAGRAMMATIC ONLY.
2. ABOVE DIAGRAM APPLIED TO ALL VALVE SENSORS INCLUDING BUT NOT LIMITED TO, TOILET FLUSH VALVES AND SINK VALVES. SEE DWGS. FOR LOCATIONS.
3. PROVIDE ALL HARDWARE, WIRING AND FINAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
4. VERIFY EXACT REQUIREMENTS IN THE FIELD WITH THE PLUMBING CONTRACTOR.
5. ALL TRANSFORMERS SHALL BE ACCESSIBLE COORDINATE ACCESS PANELS, IF REQUIRED WITH THE GENERAL CONTRACTOR,

4 / E5.4 PLUMBING FIXTURE SENSOR WIRING DIAGRAM
SCALE: NONE

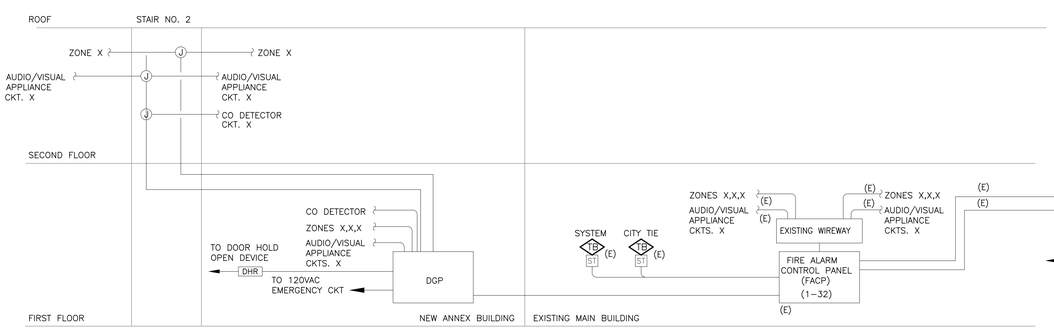




8 / E5.4 CONCRETE INSERT
SCALE: NONE



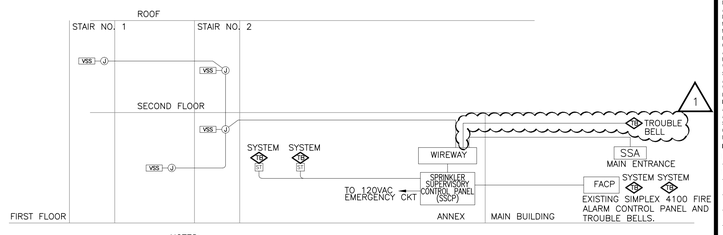
5 / E5.4 TYPICAL CONDUIT HANGER DETAILS
SCALE: NONE



NOTES:

1. RISER DIAGRAM ABOVE IS DIAGRAMMATIC AND IS SHOWN TO PROVIDE A GENERAL OVERVIEW OF MAJOR SYSTEM COMPONENTS AND THEIR INTERCONNECTIONS. THIS DIAGRAM IS NOT TO BE USED FOR FIELD INSTALLATION PURPOSES.
2. SEE PLANS FOR DEVICE LOCATIONS AND QUANTITIES.
3. PROVIDE ALL ANCILLARY COMPONENTS, HARDWARE, POWER CONNECTIONS AND WIRING AS REQUIRED FOR A COMPLETE AND OPERATING FIRE ALARM SYSTEM.
4. COORDINATE DUCT DETECTOR WIRING WITH MECHANICAL TRADE.

6 / E5.4 FIRE ALARM SYSTEM RISER DIAGRAM
SCALE: NONE



NOTES:

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2. ALL WIRING SHALL BE IN CONDUIT, 3/4" MINIMUM. ALL WIRING SHALL BE PROVIDED PER MANUFACTURER'S RECOMMENDATIONS.
3. SEE PLANS FOR DEVICE LOCATIONS AND QUANTITIES.
4. PROVIDE ALL ANCILLARY COMPONENTS, HARDWARE, POWER CONNECTIONS AND WIRING AS REQUIRED FOR A COMPLETE AND OPERATING VALVE SUPERVISORY (TAMPER) SYSTEM.
5. ITEMS ARE NEW UNLESS NOTED AS EXISTING.

7 / E5.4 SPRINKLER SUPERVISORY SYSTEM RISER DIAGRAM
SCALE: NONE

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX

5329 S. OAK PARK AVE.,
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CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO
MAYOR RAHM EMANUEL

ILEKIS ASSOCIATES
Architects • Planners
223 WEST JACKSON BLVD.,
SUITE 1000
Chicago, Illinois 60606
MAIN: 312–419–0009
Fax: 312–899–0965
Email info@ilekis.com
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Architect of Record

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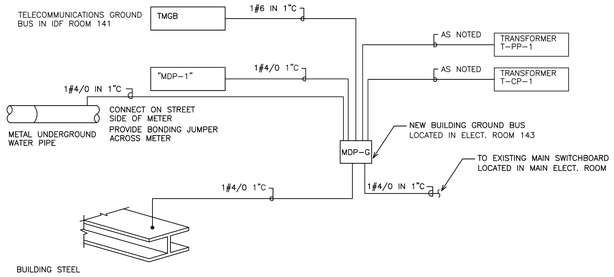
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	16538 E5.4

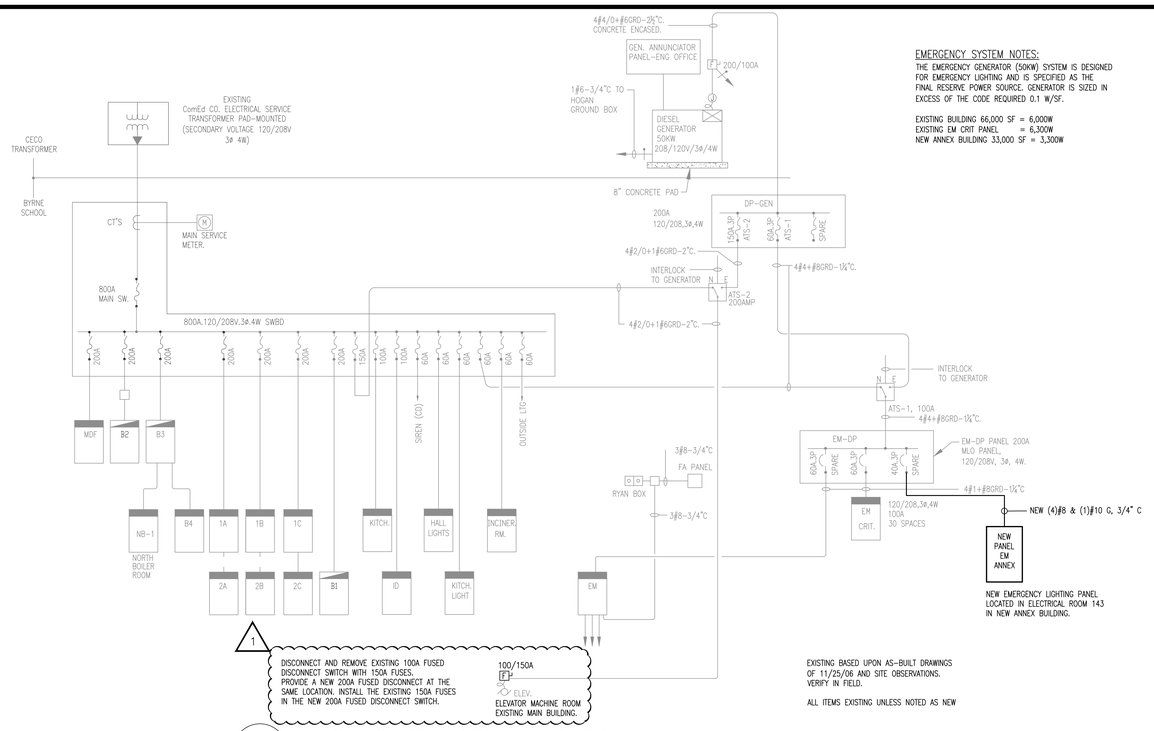
TITLE
ELECTRICAL DETAILS

SHEET
E5.4



NOTE:
REFER TO GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS SECTION 26 05 26 SPECIFICATION.

2 E6.0 BUILDING SYSTEM GROUNDING DETAIL
SCALE: NONE



3 E6.0 EMERGENCY POWER ONE LINE DIAGRAM
SCALE: NONE

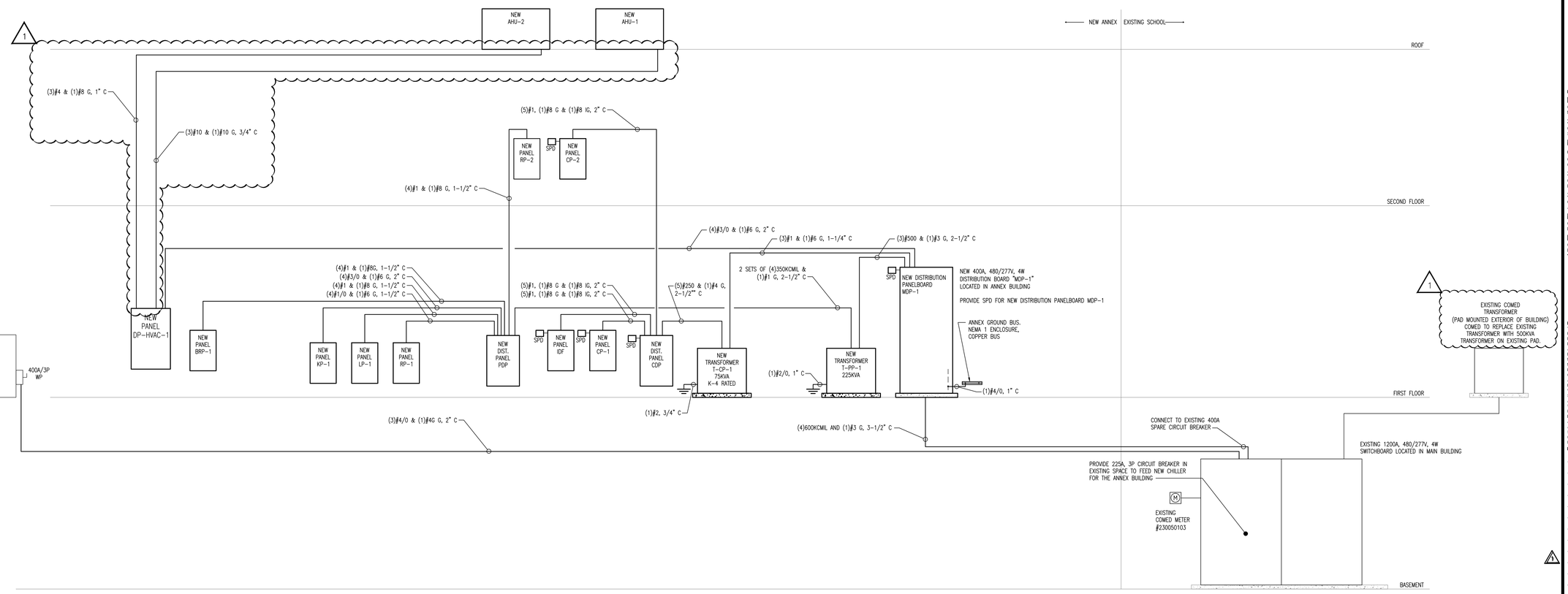
EMERGENCY SYSTEM NOTES:

THE EMERGENCY GENERATOR (50KW) SYSTEM IS DESIGNED FOR EMERGENCY LIGHTING AND IS SPECIFIED AS THE FINAL RESERVE POWER SOURCE. GENERATOR IS SIZED IN EXCESS OF THE CODE REQUIRED 0.1 W/SF.

EXISTING BUILDING 66,000 SF = 6,000W
EXISTING EM CRIT PANEL = 6,300W
NEW ANNEX BUILDING 33,000 SF = 3,300W

EXISTING BASED UPON AS-BUILT DRAWINGS OF 11/25/06 AND SITE OBSERVATIONS. VERIFY IN FIELD.

ALL ITEMS EXISTING UNLESS NOTED AS NEW



1 E6.0 ELECTRICAL RISER DIAGRAM
SCALE: NONE

BYRNE ELEMENTARY SCHOOL SERVICE: 480Y/277V-3ø-4W	
LOAD CALCULATIONS	**A**
EXISTING PEAK DEMAND, PER COMED ACCOUNT = 136.08KW * AMPERAGE @0.85PF * 125%	241
NEW LOADS	466
TOTAL NEW LOAD	707

NOTE: SCHOOL ALSO HAS A 208Y/120V SERVICE (EXISTING TO REMAIN) IN ADDITION TO THE 480/277V SERVICE. EACH SERVICE IS METERED SEPARATELY.

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DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	16538 E6.0

TITLE
ELECTRICAL RISER DIAGRAMS

SHEET
E6.0

PANEL DISTRIBUTION: MDP-1

SERVICE: 480/277V, 3 PH, 3 W + GND
BUS SIZE: 400 A | LOAD: | NOTES:
MAIN DEVICE: 400 A | CONN 298.9 kVA
SSCR: 65KAIC | DEM. 249.7 kVA
DEM. 300.5 Amps

FEEDER No:	FEEDER CONTROLLED	LOAD (kVA) CONN.	LOAD (kVA) DEM.	DEVICES (A) FRAME	DEVICES (A) C/B	REMARKS
1	TRANSFORMER T-PP-1 / PANEL "PDP"	165.0	123.7	400	350	
2	TRANSFORMER T-CP-1 / PANEL "CDP"	35.9	35.9	225	125	
3	PANEL "DP-HVAC-1"	80.6	72.6	225	200	
4	ELEVATOR	17.5	17.5	225	TBD	(ESTIMATED LOAD, COORDINATE OVERCURRENT PROTECTION WITH EQUIPMENT PROVIDED)
5	SPD			100	60	
6	SPACE			100		
7	SPACE			100		
8	SPACE			100		
9	SPACE			100		

PANEL DISTRIBUTION: PDP

SERVICE: 208/120V, 3 PH, 3 W + GND
BUS SIZE: 600 A | LOAD: | NOTES:
MAIN DEVICE: 600 A | CONN 165.0 kVA
SSCR: 65AIC | DEM. 123.7 kVA
DEM. 343.7 Amps

FEEDER No:	FEEDER CONTROLLED	LOAD (kVA) CONN.	LOAD (kVA) DEM.	DEVICES (A) FRAME	DEVICES (A) C/B	REMARKS
1	PANEL "LP-1"	20.7	20.7	100	100	
2	PANEL "RP-1"	38.9	28.2	225	150	
3	PANEL "RP-2"	30.6	20.8	100	100	
4	PANEL "KP-1"	56.5	38.8	225	200	
5	PANEL "BRP-1"	18.3	15.3	100	90	
6	SPACE			100		
7	SPACE			100		
8	SPACE			100		

PANEL DISTRIBUTION: CDP

SERVICE: 208/120V, 3 PH, 5 W + GND
BUS SIZE: 225 A | LOAD: | NOTES:
MAIN DEVICE: 225 A | CONN 35.9 kVA
SSCR: 10KAIC | DEM. 35.9 kVA
DEM. 99.6 Amps

FEEDER No:	FEEDER CONTROLLED	LOAD (kVA) CONN.	LOAD (kVA) DEM.	DEVICES (A) FRAME	DEVICES (A) C/B	REMARKS
1	PANEL "IDF"	11.6	11.6	100	100	
2	PANEL "CP-1"	9.7	9.7	100	100	
3	PANEL "CP-2"	14.6	13.3	225	110	
4	SPD			100	60	
5	SPARE			100	100	
6	SPACE			100		
7	SPACE			100		
8	SPACE			100		

PANELBOARD: BRP-1

SERVICE: 208/120V, 3 PH, 4 W + GND
BUS SIZE: 125 A | LOAD:
MAIN DEVICE: 100 A | CONN 18.3 kVA
SSCR: XXKAIC | DEM. 15.3 kVA
MOUNTING: SURFACE | DEM. 42.4 Amps

CKT #	TRIP/ POLE	CIRCUIT DESCRIPTION	CONNECTED LOAD (VA) PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	TRIP/ POLE	CKT #
1	20/1	BOILER B-1	480 1,840			FC-1, CU-1	25/2	2
3	20/1	BOILER B-2		480 1,840				4
5	25/1	GFS-1			1,590 720	4 RECEPTACLES ROOF	20/1	6
7	20/1	WATER HEATER WH-1	480 1,840			TE-1 ROOF	30/1	8
9	20/1	WATER HEATER WH-2		480 530		EF-1 ROOF	20/1	10
11	20/1	RP-1, RP-2			1,060 1,180	EF-2 ROOF	20/1	12
13	20/1	CUH-2, CUH-3, CUH-4, UH-1	870 700			EF-3 ROOF	20/1	14
15	20/1	CUH-1, CUH-5		530 530		EF-4 ROOF	20/1	16
17	20/1	UH-2, AIR COMPRESSOR C-1			660 20	EF-5 ROOF	20/1	18
19	20/1	CP-1	700 640			AHU-1,AHU-2 LTG CCT ROOF	20/1	20
21	20/1	CP-2		1,130		SPARE	20/1	22
23		SPACE				SPARE	20/1	24
25		SPACE				SPARE	20/1	26
27		SPACE				SPARE	20/1	28
29		SPACE				SPARE	20/1	30
31		SPACE				SPARE	20/1	32
33		SPACE				SPARE	20/1	34
35		SPACE				SPARE	20/1	36
37		SPACE				SPARE	20/1	38
39		SPACE				SPARE	20/1	40
41		SPACE				SPARE	20/1	42
TOTAL CONNECTED LOADS:			7,550	5,520	5,230			

PANELBOARD: LP-1

SERVICE: 208/120V, 3 PH, 4 W + GND
BUS SIZE: 125 A | LOAD:
MAIN DEVICE: 100 A | CONN 20.7 kVA
SSCR: 18KAIC | DEM. 20.7 kVA
MOUNTING: SURFACE | DEM. 57.5 Amps

CKT #	TRIP/ POLE	CIRCUIT DESCRIPTION	CONNECTED LOAD (VA) PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	TRIP/ POLE	CKT #
1	20/1	1ST FLOOR CORRIDOR	820 1,300			2ND FLOOR COORIDOR	20/1	2
3	20/1	1ST FLOOR CORRIDOR		900 1,130		CLASSROOM 215, 216, RM241	20/1	4
5	20/1	CLASSROOM 118			480 760	CLASSROOM 218, OFFICE 220C	20/1	6
7	20/1	LIBARIRY 120	1,040 1,000			ROOMS 220, 220A, 220B	20/1	8
9	20/1	CLASSROOMS 122, 124		960 960		CLASSROOMS 222, 224	20/1	10
11	20/1	CLASSROMS 126, 128			960 960	CLASSROOMS 226, 228	20/1	12
13	20/1	STAIRS1	490 370			TLT 217, 219, JC 223, ELEC 221	20/1	14
15	20/1	FOOD PREP 125, SRVRY 125A		1,300 720		CLASSROOM 226, RM 227A	20/1	16
17	20/1	ROOMS 127, 127A, 125B			460 1,440	MUSIC CLASSROOM 227, 229	20/1	18
19	20/1	DINING ROOM 115	1,080			SPACE		20
21	20/1	DINING ROOM 115		930		SPACE		22
23	20/1	STAIR 2			370	SPACE		24
25	20/1	ROOM 115A, 141,143-148	1,394			SPACE		26
27		SPACE				SPACE		28
29		SPACE				SPACE		30
31		SPACE				SPACE		32
33		SPACE				SPACE		34
35		SPACE				SPACE		36
37		SPACE				SPACE		38
39		SPACE				SPACE		40
41	20/1	EXTERIOR LIGHTING			870	SPACE		42
TOTAL CONNECTED LOADS:			7,494	6,900	6,300			

PANELBOARD: RP-2

SERVICE: 208/120V, 3 PH, 4 W + GND
BUS SIZE: 125 A | LOAD:
MAIN DEVICE: 100 A | CONN 30.6 kVA
SSCR: 18KAIC | DEM. 20.8 kVA
MOUNTING: SURFACE | DEM. 57.8 Amps

CKT #	TRIP/ POLE	CIRCUIT DESCRIPTION	CONNECTED LOAD (VA) PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	TRIP/ POLE	CKT #
1	20/1	CLASSROOM 228, 226	1,440 1,440			CLASSROOM 227, 229	20/1	2
3	20/1	CLASSROOM 228 CS		600 600		CLASSROOM 229 CS	20/1	4
5	20/1	CLASSROOM 226 CS			600 720	CLASSROOMS 225	20/1	6
7	20/1	CLASSROOM 222, 224	1,440 600			CLASSROOM 227 CS	20/1	8
9	20/1	CLASSROOM 224 CS		600 1,080		6 RCPTS. CORR, JC, PUMP RM, ELEC RM	20/1	10
11	20/1	CLASSROOM 222 CS			600 1,080	5 RECEPTACLES, 215, 241	20/1	12
13	20/1	CLASSROOM 220	1,080 1,440			CLASSROOM 216, 218	20/1	14
15	20/1	CLASSROOM 220 2 x CS		1,200 600		CLASSROOM 216 CS	20/1	16
17	20/1	ROOMS 220B, 220C			900 600	CLASSROOM 218 CS	20/1	18
19	20/1	HAND DRYER-BOYS 119	1,500 540			3 RECEPTACLES	20/1	20
21	20/1	HAND DRYER-BOYS 119		1,500 600		CLASSROOM 215 CS	20/1	22
23	20/1	HAND DRYER-GIRLS 117			1,500 1,500	HAND DRYER-BOYS 119	20/1	24
25	20/1	HAND DRYER-GIRLS 117	1,500 1,500			HAND DRYER-GIRLS 117	20/1	26
27	20/1	ROOMS 220, 220A		760 600		CLASSROOM 225 CS	20/1	28
29	20/1 GFCI CB	2 EWC			920	SPARE	20/1	30
31	20/1 GFCI CB	1 EWC	460			SPARE	20/1	32
33	30/1	REFRIGERATOR RM 220A		700		SPARE	20/1	34
35	20/1	CHANGING TBL RCPTS 217,219			360	SPARE	20/1	36
37	20/1	SPARE				SPARE	20/1	38
39	20/1	SPARE				SPARE	20/1	40
41	20/1	SPARE				SPARE	20/1	42
TOTAL CONNECTED LOADS:			12,940	8,840	8,780			

PANELBOARD: CP-1

SERVICE: 208/120V, 3 PH, 5 W + GND + ISO GND
BUS SIZE: 125 A | LOAD:
MAIN DEVICE: 100 A | CONN 9.7 kVA
SSCR: 10KAIC | DEM. 9.7 kVA
MOUNTING: SURFACE | DEM. 26.9 Amps

CKT #	TRIP/ POLE	CIRCUIT DESCRIPTION	CONNECTED LOAD (VA) PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	TRIP/ POLE	CKT #
1	20/1	CLASSROOM 124, MECH 145	900 250			KITCHEN CASHIER STATION	20/1	2
3	20/1	CLASSROOM 124		360 250		KITCHEN CASHIER STATION	20/1	4
5	20/1	CLASSROOM 126			540 180	CONF RM 142	20/1	6
7	20/1	CLASSROOM 126	360 1,440			OFFICE ROOMS 144, 146	20/1	8
9	20/1	CLASSROOM 128		540 540		DINING RM 115, OFFC 127, BE-1	20/1	10
11	20/1	CLASSROOM 128			360 540	CONF RM 142	20/1	12
13	20/1	CLASSROOM 122	540			SPARE	20/1	14
15	20/1	CLASSROOM 122		360		SPARE	20/1	16
17	20/1	LIBRARY 120			900	SPARE	20/1	18
19	20/1	CLASSROOM 118	540			SPARE	20/1	20
21	20/1	CLASSROOM 118		360		SPARE	20/1	22
23	20/1	SPARE				SPARE	20/1	24
25	20/1	SPARE				SPARE	20/1	26
27	20/1	SPARE				SPARE	20/1	28
29	20/1	SPARE				SPARE	20/1	30
31	20/1	SPARE				SPARE	20/1	32
33	30/1	SPARE				SPARE	20/1	34
35	20/1	SPARE				SPARE	20/1	36
37						SPARE	20/1	38
39	30/3	SPD			360	LIBRARY 120 LCE	20/1	40
41						CLASSROOM 126 - TCE	20/1	42
TOTAL CONNECTED LOADS:			4,030	2,770	2,880			

PANELBOARD: CP-2

SERVICE: 208/120V, 3 PH, 5 W + GND + ISO GND
BUS SIZE: 125 A | LOAD:
MAIN DEVICE: 100 A | CONN 14.6 kVA
SSCR: 10KAIC | DEM. 13.3 kVA
MOUNTING: SURFACE | DEM. 36.9 Amps

CKT #	TRIP/ POLE	CIRCUIT DESCRIPTION	CONNECTED LOAD (VA) PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	TRIP/ POLE	CKT #
1	20/1	CLASSROOM 228	540 540			CLASSROOM 229	20/1	2
3	20/1	CLASSROOM 228		540 360		CLASSROOM 229	20/1	4
5	20/1	CLASSROOM 226			540 360	CLASSROOM 225	20/1	6
7	20/1	CLASSROOM 226	540 360			CLASSROOM 225	20/1	8
9	20/1	CLASSROOM 224		540 720		CLASSROOM 215, STRG 241	20/1	10
11	20/1	CLASSROOM 224			540 360	CLASSROOM 215	20/1	12
13	20/1	CLASSROOM 222	540 540			CLASSROOM 216	20/1	14
15	20/1	CLASSROOM 222		540 540		CLASSROOM 216	20/1	16
17	20/1	CLASSROOM 220			540 540	CLASSROOM 218	20/1	18
19	20/1	CLASSROOM 220	360 540			CLASSROOM 218	20/1	20
21	20/1	ROOMS 220B		900 540		CLASSROOM 227	20/1	22
23	20/1	ROOMS 220C			900 360	CLASSROOM 227	20/1	24
25	20/1	CLASSROOM 220 LCE	360			SPARE	20/1	26
27	20/1	CLASSROOM 224 QCE		360		SPARE	20/1	28
29	20/1	CLASSROOM 229 CCE			360	SPARE	20/1	30
31	20/1	SPARE				SPARE	20/1	32
33	30/1	SPARE				SPARE	20/1	34
35	20/1	SPARE				SPARE	20/1	36
37						SPARE	20/1	38
39	30/3	SPD		360		SPARE	20/1	40
41					360	SPARE	20/1	42
TOTAL CONNECTED LOADS:			4,320	5,400	4,860			

PANELBOARD: KP-1 KITCHEN PANEL

SERVICE: 208/120V, 3 PH, 4 W + GND
BUS SIZE: 225 A | LOAD:
MAIN DEVICE: 200 A | CONN 56.5 kVA
SSCR: 18KAIC | DEM. 38.8 kVA
MOUNTING: SURFACE | DEM. 107.8 Amps

CKT #	TRIP/ POLE	CIRCUIT DESCRIPTION	CONNECTED LOAD (VA) PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	TRIP/ POLE	CKT #
1	20/1	#02 MILK COOLER	370 370			#02 MILK COOLER	20/1	2
3	20/1	#03 COLD FOOD STATION		600 600		#03 COLD FOOD STATION	20/1	4
5	30/2	#05 HOT FOOD STATION			2,210 2,210	#05 HOT FOOD STATATION	30/2	6
7			2,210 2,210					8
9	20/2	#08 HEATED CABINET		1,000 1,000		#08 HEATED CABINET	20/2	10
11					1,000 1,000			12
13	20/1	#09 REFRIGERATOR	1,070 1,070			#09 REFRIGERATOR	20/1	14
15	25/1	#10 GAS CONVECTION OVEN		2,160 2,160		#10 GAS CONVECTION OVEN	25/1	16
17					3,360 1,000	#25 WALK-IN CER LTS/DOOR	20/1	18
19	40/3	#11 ELECTRIC STEAMER	3,360 990			#26 COOLER	20/2	20
21				3,360 990				22
23					3,360 2,080	#27 FREEZER	30/2	24
25	40/3	#11 ELECTRIC STEAMER	3,360 2,080					26
27				3,360 1,180		2 x C-1 RECEPTACLES	20/1	28
29	20/1	#12 EXHAUST HOOD			1,000 1,000	2 x C-1 RECEPTACLES	20/1	30
31	15/1	#33 REFRIGERATOR	1,050 1,180			2 x C-1 RECEPTACLES	20/1	32
33	15/1	#33 REFRIGERATOR		1,050 1,000		2 x C-1 RECEPTACLES	20/1	34
35		SPACE			500	C-3 RECEPTACLES	20/1	36
37		SPACE				SPACE		38
39		SPACE				SPACE		40
41		SPACE				SPACE		42
TOTAL CONNECTED LOADS:			19,320	18,460	18,720			

PANELBOARD: RP-1

SERVICE: 208/120V, 3 PH, 4 W + GND
BUS SIZE: 225 A | LOAD:
MAIN DEVICE: 150 A | CONN 38.9 kVA
SSCR: 18KAIC | DEM. 28.2 kVA
MOUNTING: SURFACE | DEM. 78.2 Amps

CKT #	TRIP/ POLE	CIRCUIT DESCRIPTION	CONNECTED LOAD (VA) PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	TRIP/ POLE	CKT #
1	20/1	CLASSROOM 122, 124	1,440 720			LIBRARY 120	20/1	2
3	20/1	CLASSROOM 122 - CS		600 1,200		LIBRARY 120 2 x CS	20/1	4
5	20/1	CLASSROOM 124 - CS			600 600	CLASSROOM 118 - CS	20/1	6
7	20/1	CLASSROOM 126, 128	1,440 1,080			CLASSROOM 118, 146	20/1	8
9	20/1	CLASSROOM 126 - CS		600 1,080		ROOMS 142, 144	20/1	10
11	20/1	CLASSROOM 128 - CS			600 1,260	7 RECEPTACLES	20/1	12
13	20/1 GFCI CB	2 EWC	1,200 1,080			6 RECEPTACLES	20/1	14
15	20/1 GFCI CB	2 EWC		1,200 900		5 RECEPTACLES	20/1	16
17	20/1	RECEPTACLES IDF ROOM			1,080	6 RECEPTACLES	20/1	18
19	20/1	ELEVATOR PIT LTG/RCPT	280 1,080			6 RECEPTACLES	20/1	20
21	20/1	ELECTR. DOOR OPERATOR		1,180 1,080		6 RECEPTACLES	20/1	22
23	20/1	ELECTR. DOOR OPERATOR			1,180 1,500	HAND DRYER-GIRLS TLT 117	20/1	24
25	20/1	ELECTR. DOOR OPERATOR	1,180 1,500			HAND DRYER-GIRLS TLT 117	20/1	26
27	20/1	ELECTR. DOOR OPERATOR		1,180 1,500		HAND DRYER-GIRLS TLT 117	20/1	28
29	20/1	CHANGING TBL RCPTS 1457,147			360 1,500	HAND DRYER-BOYS TLT 119	20/1	30
31	20/1 GFCI CB	ELEVATOR 120V CIRCUIT	1,000 1,500			HAND DRYER-BOYS TLT 119	20/1	32
33	30/1	CHANGING TBL RCPTS 117,119		360 1,500		HAND DRYER-BOYS TLT 119	20/1	34
35					290 1,500	HAND DRYER-UNI TLT 145	20/1	36
37	20/3	SP-1 ELEV SUMP PUMP	290 1,500			HAND DRYER- UNI TLT 147	20/1	38
39				290		SPARE	20/1	40
41	20/1	CHILLER FREEZE PROTECTION			500	SPARE	20/1	42
TOTAL CONNECTED LOADS:			15,290	12,670	10,970			

PANELBOARD: EM ANNEX

SERVICE: 208/120V, 3 PH, 4 W + GND
BUS SIZE: 100 A | LOAD:
MAIN DEVICE: 40 A | CONN 3.0 kVA
SSCR: 10KAIC | DEM. 3.0 kVA
MOUNTING: SURFACE | DEM. 8.3 Amps

CKT #	TRIP/ POLE	CIRCUIT DESCRIPTION	CONNECTED LOAD (VA) PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	TRIP/ POLE	CKT #
1	20/1	1ST FLOOR EXIT SIGNS	130			SPACE		2
3	20/1	2ND FLOOR EXIT SIGN		50		SPACE		4
5	20/1	1ST FLOOR EM LTG			690	SPACE		6
7	20/1	1ST FLOOR EM LTG	650			SPACE		8
9	20/1	2ND FLOOR EM LTG		440		SPACE		10
11	20/1	FIRE ALARM			500	SPACE		12
13	20/1	FIRE ALARM	500			SPACE		14
15	20/1	TROUBLE BELLS		10		SPACE		16
17	20/1	CO DETECTORS			10	SPACE		18
TOTAL CONNECTED LOADS:			1,280	500	1,200			

PANELBOARD: IDF

SERVICE: 208/120V, 3 PH, 5 W + GND + ISO GND
BUS SIZE: 125 A | LOAD:
MAIN DEVICE: 100 A | CONN 11.6 kVA
SSCR: 10KAIC | DEM. 11.6 kVA
MOUNTING: SURFACE | DEM. 32.2 Amps

CKT #	TRIP/ POLE	CIRCUIT DESCRIPTION	CONNECTED LOAD (VA) PHASE A	PHASE B	PHASE C	CIRCUIT DESCRIPTION	TRIP/ POLE	CKT #
1	20/1	IDF RACK RECEPTACLES	800			SPACE	20/1	2
3	20/1	IDF RACK RECEPTACLES		800		SPACE	20/1	4
5	20/1	IDF RACK RECEPTACLES			800	SPACE	20/1	6
7	20/1	IDF RACK RECEPTACLES	800			SPACE	20/1	8
9	20/1	IDF RACK RECEPTACLES		800		SPACE	20/1	10
11	20/1	IDF RACK RECEPTACLES				SPACE	20/1	12
13	20/1	IDF RACK RECEPTACLES	400			SPACE	20/1	14
15	20/1	IDF RACK RECEPTACLES		800		SPACE	20/1	16
17	20/1	IDF RACK RECEPTACLES			800	SPACE	20/1	18
19	20/1	IDF RACK RECEPTACLES	400			SPACE	20/1	20
21	20/1	IDF RACK RECEPTACLES		800		SPACE	20/1	22
23	20/1	IDF RACK RECEPTACLES			800	SPACE	20/1	24
25	20/1	IDF RACK RECEPTACLES	400			I	20/1	26
27	20/1	IDF RACK RECEPTACLES		800		SPACE	20/1	28
29	20/1	IDF RACK RECEPTACLES			800	SPACE	20/1	30
31	20/1	IDF RACK RECEPTACLES	400			SPACE	20/1	32
33	30/1	IDF WALL RECEPTACLES		800		SPACE	20/1	34
35	20/1	IDF WALL RECEPTACLES			400	SPACE	20/1	36
37	20/1	SPARE						38
39	20/1	SPARE				SPD	30/3	40
41	20/1	SPARE						42
TOTAL CONNECTED LOADS:			3,200	4,800	3,600			

PANEL DISTRIBUTION: DP-HVAC-1

SERVICE: 480/277V, 3 PH, 3 W + GND
BUS SIZE: 225 A | LOAD: | NOTES:
MAIN DEVICE: 200 A | CONN 80.6 kVA
SSCR: 18KAIC | DEM. 72.6 kVA
DEM. 87.4 Amps

FEEDER No:	FEEDER CONTROLLED	LOAD (kVA) CONN.	LOAD (kVA) DEM.	DEVICES (A) FRAME	DEVICES (A) C/B	REMARKS
1	AHU-1	15.3	15.3	100	30	SINGLE POINT POWER CONNECTION
2	AHU-2	43.0	43.0	100	80	SINGLE POINT POWER CONNECTION
3	BOOSTER PUMP SYSTEM BP-1	8.0	8.0	100	15	
4	PUMPS P-1	6.3	6.3	100	15	
5	PUMPS P-2	6.3	6.3	100	15	
6	HE-1	1.7	1.7	100	15	
7	SPACE			100		
8	SPACE			100		
9						
10						

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX
5329 S. OAK PARK AVE.,
CHICAGO, IL
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO
MAYOR RAHM EMANUEL

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MILHOUSE ENGINEERING & CONSTRUCTION, INC.
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SITE DESIGN GROUP
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LANDSCAPE ARCHITECT

SHINER & ASSOCIATES, INC.
CHICAGO, ILLINOIS
ACOUSTICAL ENGINEER

MVP SERVICES GROUP
CHICAGO, ILLINOIS
FOOD SERVICES CONSULTANT

ECOVIDAL DESIGN INC.
CHICAGO, ILLINOIS
LEED CONSULTANT

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE APPLICABLE CODES AND BUILDING REGULATIONS.

ALPHONSE A. ILEKIS, AIA

WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE SCHOOL HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2 REGARDLESS OF CONCENTRATIONS. THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES. FOR ALL SMALL SCALE DISTURBANCES, THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MIGRATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE, WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION PROJECT SPECIFICATIONS 1 WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THE BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

ISSUANCE

MARK	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	10/25/2016
2	ISSUED FOR DESIGN DEVELOPMENT	12/06/2016
3	ISSUED FOR 60% REVIEW	01/31/2017
4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/28/2017
8	ADDENDUM 1	05/16/2017
9		
10		

DRAWN BY: ILEKIS ASSOCIATES
SCALE: SEE DRAWING
PROJ. NAME: BYRNE ANNEX
PROJECT #: 1618-01
FILE: 16538 E8.0

TITLE
ELECTRICAL SCHEDULES

SHEET
E8.0

LIGHTING RELAY CONTROL PANEL

RELAY #	PANEL	CIRCUIT	DESCRIPTION	LOCAL SWITCH	CONTROLLED BY MASTER SWITCH	TIME CONTRL	PHOTO CELL CONTROL	CONTROL GROUP *	COMMENTS
1	LP1		EXTERIOR WALL PAKS			YES	YES	EX	TIME CLOCK ON - TIME CLOCK OFF
2	LP1		EXIT SIGNS - FIRST FLOOR		EM			P	
3	LP1		EMERENCY LIGHTING 1ST FLOOR		EM			P	
4	LP1		EXIT SIGNS - 2ND FLOOR		EM			P	
5	LP1		EMERENCY LIGHTING 2ND FLOOR		EM			P	
6	LP1		NORMAL LIGHTING 1ST FLR CORRIDOR & STAIRS		M			P	
7	LP1		NORMAL LIGHTING 2ND FLR CORRIDOR & STAIRS		M			P	
8	LP1								
9	LP1								
10	LP1								
11	LP1								
12	LP1								

* LETTERS CORRESPOND TO DIFFERENT CONTROL GROUPS, DESIGNATED AS FOLLOWS:
EX - EXTERIOR LIGHTING
P - PUBLIC INTERIOR LIGHTING

LIGHTING CONTROL NOTES:

1. THE ANNEX BUILDING NORMAL LIGHTING AND EMERGENCY LIGHTING MASTER SWITCHES SHALL TURN LIGHTS ON AND OFF FOR THE VARIOUS PARTS OF THE BUILDING AS INDICATED IN THE SCHEDULE ABOVE. LIGHTING RELAY CONTROL PANEL SHALL CONTROL ALL CIRCUITS AS INDICATED ABOVE. PROVIDE LIGHTING CONTACTORS AND ENCLOSURE.
2. A REGULAR USE TIME OF DAY SCHEDULE FOR THE BUILDING SHALL EXIST, AS WELL AS AN UNOCCUPIED SCHEDULE. SWITCHING BETWEEN SCHEDULES SHALL BE CONTROLLED BY THE RELAY CONTROL PANEL'S ASTRONOMICAL TIME CLOCK. THE ASTRONOMICAL TIME CLOCK SHALL COORDINATE THE OPERATIONS OF THE PROGRAMMABLE TIME AND DATE OPERATIONS.
3. THE LIGHTING CONTROL DESIGN IS BASED ON A LC&D RELAY CONTROL PANEL OR ENGINEER APPROVED EQUIVALENT.
4. ALL TIMED SWEEPS SHALL BE PRECEDED BY A 5 MINUTE BLINK WARN SEQUENCE. BLINK SEQUENCE SHALL BE FIELD ADJUSTABLE.
5. NOT USED
6. PROVIDE ALL WIRING AND CONDUIT AS REQUIRED FOR A FULLY OPERATIONAL LIGHTING CONTROL SYSTEM.
7. ELECTRICAL TRADE SHALL TEST THAT ALL BRANCH LOAD CIRCUITS ARE OPERATIONAL BEFORE CONNECTING LOADS TO SYSTEM LOAD TERMINALS, AND THEN DE-ENERGIZE ALL CIRCUITS BEFORE INSTALLATION.
8. POWER SHALL NOT BE APPLIED TO THE RELAY SYSTEM DURING CONSTRUCTION AND PRIOR TO TURN-ON UNLESS SPECIFICALLY AUTHORIZED BY WRITTEN INSTRUCTIONS FROM THE MANUFACTURER.

9.4.1 LIGHTING LEVELS TABLE

SCHOOL LIGHTING LEVELS TABLE

Room Type Classification	2000 IES FOOTCANDLES	Recommended Design Foot-candles Direct Lighting (1)	Recommended Design Foot-candles Indirect Lighting
ADMINISTRATIVE			
Offices/Receptionist	50-55	50	50
Storage Rooms	10	25	25
Restrooms	5	25-30	25-30
Conference/Resource Rooms	30-100	50	50
Health Clinic	50	50	50
Teacher Prep/Workroom	50	50	50
CLASSROOMS-GENERAL	50-55	50-55	50-55
Art Rooms/Kiln	50-55	50-55	50-55
Modular Technology Labs	-	-	-
CADD Labs	30	30	30
Industrial Tech/Production Labs	100	100	100
Computer Labs	30	30	30
Graphics Labs	30-100	30-100	30-100
Life Skills Labs	50-55	50-55	50-55
Science Labs	50-55	50-55	50-55
Laundry Rooms	-	-	-
Music Rooms	50-55	50-55	50-55
Large Group Instruction Rooms	50-55	50-55	50-55
MEDIA CENTER	-	60	60
Active Areas	30 vertical	50	40
Inactive Areas	5 vertical	40	40
ATHLETIC AREAS			
Gymnasium – Elementary School	100	80	-
Gymnasium – Middle School	100	80	-
Gymnasium – High School	100	80	-
Multi-use P.E. Rooms	-	60	-
Locker Rooms	10	35	25
STUDENT DINING/AUDITERIAS			
Assembly	10-20	40	-
Stage/Work Lights	30	40	-
Makeup/Dressing Rooms	30-50	50	-
Theatrical Control Room	10-30	30	-
Equip room with dimmable incandescent lighting offering 10 foot-candles of illumination.			
STUDENT DINING (Used for testing)	10-50	50	40
Cooking	50	75-80 (2)	-
Food Preparation	50	75-80 (2)	-
Serving Line	50	75-80 (2)	-
Ware Washing	10	75-80 (2)	-
CUSTODIAL CLOSETS	10-30	20-30	-
ELECRICAL ROOMS	30	20-30	-
MECHANICAL ROOMS	30	30	-
PARKING AREA	2	1 (3)	-
DRIVEWAYS	3	.5 (3)	-
CIRCULATION AREAS			
Building Entries	10	5-10 (3)	-
Corridors	10	30	30
Corridors with Lockers	10	30	30
Stairways	10	30	30
Roadways	1		
Parking and walkways	2		

(1) Maintenance factor 70%
(2) Foot-candles shall comply with local health department regulations
(3) Foot-candles shall conform to section 3211

NOTE:
REFER TO GENERAL NOTE #6 IN LIGHTING FIXTURE SCHEDULE.

FIXTURE SCHEDULE

	DESCRIPTION	LIGHT SOURCE-TYPE	LED DRIVER TYPE	MOUNTING	MANUFACTURER / CATALOG SERIES	VOLTAGE	INPUT WATTAGE	
F1-L	2x4 LED ambient lensed troffer	LED 3500K	INTEGRAL LED DRIVER	RECESSED	**Lithonia - 2TLED Series (4800 LUMENS) 2TL4 48L FW A12 EZ1 LP835 CP** Metalux - 2GR LED Series Philips Day-Brite - Specplus Series Columbia - LLT24 Series	120	40	CHICAGO PLENUM RATED
F7-L	1x4 LED ambient Lensed troffer	LED 3500K	INTEGRAL LED DRIVER	RECESSED	**Lithonia - TL4LED Series TL4 20L FW A12 EZ1 LP835 CP** Metalux - GR LED Series Philips Day-Brite - Specplus Series Columbia - LLT14 Series	120	21	CHICAGO PLENUM RATED
F7A-L	1x4 LED ambient Lensed troffer (SAME AS F7 EXCEPT FIXTURES LOCATED IN GYB BOARD CEILINGS)	LED 3500K	INTEGRAL LED DRIVER	RECESSED	**Lithonia - TL4LED Series TL4 20L FW A12 EZ1 LP835 CP XXXXXXXXX** Metalux - GR LED Series Philips Day-Brite - Specplus Series Columbia - LLT14 Series	120	21	CHICAGO PLENUM RATED PROVIDE DRYWALL GRID ADAPTER FOR FIXTURES
F7B-L	1x4 LED ambient Lensed troffer (SAME AS F7 EXCEPT 3000 LUMENS, 30W)	LED 3500K	INTEGRAL LED DRIVER	RECESSED	**Lithonia - TL4LED Series TL4 30L FW A12 EZ1 LP835 CP** Metalux - GR LED Series Philips Day-Brite - Specplus Series Columbia - LLT14 Series	120	30	CHICAGO PLENUM RATED
F7C-L	1x4 LED ambient Lensed troffer (SAME AS F7 EXCEPT 4000 LUMENS, 45W)	LED 3500K	INTEGRAL LED DRIVER	RECESSED	**Lithonia - TL4LED Series TL4 40L FW A12 EZ1 LP835 CP** Metalux - GR LED Series Philips Day-Brite - Specplus Series Columbia - LLT14 Series	120	45	CHICAGO PLENUM RATED
F11-L	4' LED WALL MOUNT FIXTURE, STAIRS	LED 3500K	INTEGRAL LED DRIVER	WALL	LITHONIA - WL SERIES **METALUX - SNLED SERIES 4SNLED-LD4-60HL-LN-UNV-L835-CD1**	120	51	
F11A-L	8' LED WALL MOUNT FIXTURE, STAIRS	LED 3500K	INTEGRAL LED DRIVER	WALL	LITHONIA - WL SERIES **METALUX - SNLED SERIES 8TSNLED-LD4-130HL-LN-UNV-L835-CD2**	120	130	
F12	4' Fluorescent Industrial Strip with wire guard	2 LAMPS 3500K	F32T8 EXTRA LONG LAMP LIFE 60,000h	Energy efficient Program start electronic	Day-Brite/Benjamin - IA Series H.E. Williams - 81 Series Lightolier - TU Series Lithonia - EJS Series Metalux - DMF Series	120	58	
F14-L	2X4 LED LENSED TROFFER W/ A19 LENS, ALUMINUM DOOR FRAM & GASKETED	LED 3500K	INTEGRAL LED DRIVER	RECESSED	Metalux - 2GR LED Series **ATW-SW4-24GR-FA-LD4-64-A19/126-UNV-GL-L835-CD-1-G3-U** Philips Day-Brite - Specplus Series Columbia - LLT24 Series	120	65	HYBRID KITCHEN SERVERY AREAS CHICAGO PLENUM RATED
F14A-L	2X4 LED LENSED TROFFER W/ A19 LENS, ALUMINUM DOOR FRAM & GASKETED (SAME AS F14 EXCEPT 3800 LUMEN RATED)	LED 3500K	INTEGRAL LED DRIVER	RECESSED	Metalux - 2GR LED Series **ATW-SW4-24GR-FA-LD4-38-A19/126-UNV-GL-L835-CD-1-G31-U** Philips Day-Brite - Specplus Series Columbia - LLT24 Series	120	36	HYBRID KITCHEN STORAGE CHICAGO PLENUM RATED
F20-L	4" diameter LED downlight	LED 3500K	Integral LED driver	Recessed	Lightolier - C4LDL-VB series Gotham - EVO series Portfolio - LD4A09 series **LD4ACP13 D010TE ERW4A 1383SCP 4LW0LI**	120	22.4	CHICAGO PLENUM RATED
F23-L	PLASTER-IN LED SYSTEM	LED 3500K	INTEGRAL LED DRIVER	RECESSED	PURE LIGHTING - PURE LIGHTING TRULINE .5 **TL.5-2WDC-XPT-35K**	24V DC	2W/FT	PROVIDE REMOTE POWER SUPPLY LENGTH AS INDICATED ON DRAWINGS
F24-L	LINEAR COVE LIGHT	LED 3500K	INTEGRAL LED DRIVER	COVE	**FOCAL POINT - COVERT FCOL-HS-500LF-35K-1C-120-LD1-CV-XX**	120	5W/FT	LENGTH AS INDICATED ON DRAWINGS
F25-L	2' ROUND LED FIXTURE	LED 3500K	INTEGRAL LED DRIVER 0-10V, 10% DIMMING	RECESSED	**FOCAL POINT - SKYDOME FSDL-22-FLXP-CX-4000L-35K-1C-120-LD1-U-CP-XX**	120	62	CHICAGO PLENUM RATED
F26-L	4' ROUND LED FIXTURE	LED 3500K	INTEGRAL LED DRIVER 0-10V, 10% DIMMING	SUSPENDED 18" STEMS	**FOCAL POINT - SKYDOME FSDL-44-CX-7000L-35K-1C-UNV-LD1-S18-TC-XX**	120	77	
F27-L	2' ROUND LED FIXTURE	LED 3500K	INTEGRAL LED DRIVER 0-10V, 10% DIMMING	SUSPENDED 18" STEMS	**FOCAL POINT - SKYDOME FSDL-22-CX-2000L-35K-1C-UNV-LD1-S18-TC-XX**	120	25	
F28-L	4' ROUND LED FIXTURE	LED 3500K	INTEGRAL LED DRIVER 0-10V, 10% DIMMING	RECESSED	**FOCAL POINT - SKYDOME FSDL-44-FLXP-CX-7000L-35K-1C-120-LD1-U-CP-WH**	120	70	CHICAGO PLENUM RATED
F29-L	3' ROUND LED FIXTURE	LED 3500K	INTEGRAL LED DRIVER 0-10V, 10% DIMMING	RECESSED	**FOCAL POINT - SKYDOME FSDL-33-FLXP-CX-7000L-35K-1C-120-LD1-U-CP-WH**	120	93	CHICAGO PLENUM RATED
S2	LED EXTERIOR WALL-PACK; FULL CUT-OFF, ACRYLIC LENS	LED 4000K	Integral LED driver	WALL	**LITHONIA - OLWX1-LED-40W-40K** McGRAW-EDISON - IST-FO2-LED-E1-GZW-BK QUALITY - QLW 16G1 BetaLED- CREE - SEC-EDG	120	40	Listed for wet locations
S13	LED exterior 4" recessed downlight	LED 4000K	Integral LED driver	RECESSED	GOTHAM 4" EVO PHILIPS Calculite LED 4" **EATON PORTFOLIO LD4B SERIES LD4B10D010 EU4B10208040 4LBWH1**	120	10	Listed for wet locations
X2	EXIT DIRECTIONAL SIGN	LED	Integral LED driver	SURFACE/CEILING / FOR WALL-MOUNTED	Sure-Lites - CHX Series	120	3	CITY OF CHICAGO APPROVED

GENERAL NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION.
2. CATALOG NUMBERS REPRESENT GENERAL SERIES INFORMATION ONLY.
3. ALL FIXTURES FUSIBLE.
4. PROVIDE PATTERN 19 LENSES IN KITCHEN, SERVIERIES AND TOILETS. PATTER 12 LENSES SHALL BE PROVED FOR OTHER INTERIOR LIGHTING FIXTURES.
5. CONFIRM LIGHTING FIXTURES COLORS WITH ARCHITECT PRIOR TO ORDERING.
6. MANUFACTURER / CATATLOG SERIES FIXTURE IN BOLD INDICATE BASIS OF DESIGN FIXTURES. IF OTHER FIXTURE PROVIDED LIGHTING LEVELS SHALL MEET CPS RECOMMENDED DESIGN FOOTCANDLES LIGHTING LEVELS LISTED IN CPS DESIGN GUIDELINS. SEE THIS SHEET.

MOTOR/EQUIPMENT WIRING SCHEDULE

TAG	DESCRIPTION	LOCATION	LOAD VOLT	PHASE	HP	KW	AMPS	FEED FROM PANEL	CCT(S)	OCP SIZE	POLE	WIRING (MIN.) NO.	SIZE	CONDUIT SIZE	GND WIRE SIZE	DISCONNECT SIZE	POLE	FUSE	STARTER SIZE	TYPE	SEE NOTES
CH-1	CHILLER	GROUND LEVEL	460	3		93.55	166	480V SWITCHBOARD		225	3	3	4/0	2	4	400	3	NF			7
AHU-1 (SF-1)	AHU-1 SUPPLY FAN	ROOF	480	3	7.5		19.2	DP-HVAC-1	1	30	3	3	10	3/4	10	30	3	NF			3,4, 15
AHU-1 (RF-1)	AHU-1 EXH/RECIRC FAN	ROOF	480	3	5.5																4
AHU-2 (SF-2)	AHU-2 SUPPLY FANS	ROOF	480	3	(2) 10		54	DP-HVAC-1	2	80	3	3	4	1	8	100	3	NF			3,4, 15
AHU-2 (RF-2)	AHU-2 EXH/RECIRC FANS	ROOF	480	3	(2) 7.5																4
CP-1	COIL PUMP (AHU-1)	MECH/UTILITY	120	1	1/4		5.8	BRP-1	19	20	1	2	12	3/4	12						5
CP-2	COIL PUMP (AHU-2)	MECH/UTILITY	120	1	1/2		9.8	BRP-1	21	20	1	2	12	3/4	12						5
B-1	BOILER	MECHANICAL ROOM 149	115	1			4	BRP-1	1	20	1	2	12	3/4	12						
B-2	BOILER	MECHANICAL ROOM 149	115	1			4	BRP-1	3	20	1	2	12	3/4	12						
P-1	PUMP	MECHANICAL ROOM 149	480	3	5		7.6	DP-HVAC-1	4	20	3	3	12	3/4	12						4
P-2	PUMP	MECHANICAL ROOM 149	480	3	5		7.6	DP-HVAC-1	5	20	3	3	12	3/4	12						4
GPS-1	GLYCOL PRESSURE FILL PUMP	MECHANICAL ROOM 149	120	1	3/4		13.8	BRP-1	5	25	1	2	10	3/4	10	30	1	NF			
BP-1	BOOSTER PUMP	MECHANICAL ROOM 149	480	3	(2) 3		11	DP-HVAC-1	3	15	3	3	12	3/4	12						
EF-1	EXHAUST FAN	ROOF	120	1	1/6		4.4	BRP-1	10	20	1	2	12	3/4	12						
EF-2	EXHAUST FAN	ROOF	120	1	1/2		9.8	BRP-1	12	20	1	2	12	3/4	12						
EF-3	EXHAUST FAN	ROOF	120	1	1/4		5.8	BRP-1	14	20	1	2	12	3/4	12						
EF-4	EXHAUST FAN	ROOF	120	1	1/6		4.4	BRP-1	16	20	1	2	12	3/4	12						
EF-5	EXHAUST FAN	ROOF	120	1	1/2		0.17	BRP-1	18	20	1	2	12	3/4	12						
TE-1	TOILET EXHAUST FAN	ROOF	120	1	1		16	BRP-1	8	30	1	2	10	3/4	10						
HE-1	FOOD PREP UPBLAST ROOF EXHAUST	ROOF	480	3	3/4		1.6	DP-HVAC-1	6	15	3	3	12	3/4	12						
ELEVATOR	ELEVATOR	ELEVATOR EQUIP 148	480	3	25		34	MDP-1	4	TBD	3	3	TBD	3/4	TBD						7,11,12, 13
SP-1	ELEVATOR PIT SUMP PUMP	ELEVATOR PIT	208	3	1/2		2.5	RP-1	35,37,39	20	3	3	12	3/4	12						8
COMPACTOR	TRASH COMPACTOR	EXTERIOR	208	3			TBD	BRP-1	21,23,25	60	3	3	8	3/4	10	60	3	NF			7
WH-1	GAS FIRED WATER HEATER	MECHANICAL ROOM 149	115	1			4	BRP-1	7	20	1	2	12	3/4	12						
WH-2	GAS FIRED WATER HEATER	MECHANICAL ROOM 149	115	1			4	BRP-1	9	20	1	2	12	3/4	12						
RP-1	HOT WATER RECIRCULATION PUMP	MECHANICAL ROOM 149	115	1	1/6		4.4	BRP-1	11	20	1	2	12	3/4	12						
RP-2	HOT WATER RECIRCULATION PUMP	MECHANICAL ROOM 149	115	1	1/12		1.75	BRP-1	11	20	1	2	12	3/4	12						
FC-1	FAN COIL	MDF ROOM	208	1			0.48	BRP-1	2,4												14
FC-2	FAN COIL	ART CLASSROOM 106 (MAIN BUILDING)	120	1	1/4		5.8	L-1K	3	20	1	2	12	3/4	12						6
CU-1	CONDENSING UNIT	ROOF	208	1			14.8	BRP-1	2,4	25	2	2	10	3/4	10	30	2	NF			14
CUH-1	HOT WATER CABINET UNIT HEATER	VESTIBULE #9	115	1			2.2	BRP-1	15	20	1	2	12	3/4	12						9
CUH-2	HOT WATER CABINET UNIT HEATER	VESTIBULE #7	115	1			2.2	BRP-1	13	20	1	2	12	3/4	12						9
CUH-3	HOT WATER CABINET UNIT HEATER	STAIR #1	115	1			2.2	BRP-1	13	20	1	2	12	3/4	12						9
CUH-4	HOT WATER CABINET UNIT HEATER	STAIR #2	115	1			1.4	BRP-1	13	20	1	2	12	3/4	12						9
CUH-5	HOT WATER CABINET UNIT HEATER	VESTIBULE #5	115	1			2.2	BRP-1	15	20	1	2	12	3/4	12						9
UH-1	HOT WATER UNIT HEATER	STORAGE RM 241	115	1			1.2	BRP-1	13	20	1	2	12	3/4	12						
UH-2	HOT WATER UNIT HEATER	WATER METER RM 127A	115	1			0.8	BRP-1	17	20	1	2	12	3/4	12						
C-1	AIR COMPRESSOR	WATER METER RM 127A	115	1	1/6		4.4	BRP-1	17	20	1	2	12	3/4	12	30	1	NF			

1. EXHAUST FAN PROVIDED WITH DISCONNECT SWITCH. ELECTRICAL TRADE SHALL CONNECT POWER.
2. DUPLEX VARIABLE SPEE PUMP SYSTEM PROVIDED BY PLUMBING TRADE. ELECTRICAL TRADE TO CONNECT POWER TO CONTROLLER.
3. AHU IS PROVIDED WITH A CONVENIENCE OUTLET. (COORDINATE WITH HVAC)
4. FACTORY PROVIDED COMBINATION ADJUSTABLE FREQUENCY DRIVE W/ DISCONNECT. ELECTRICAL TRADE TO CONNECT POWER.
5. PROVIDE SAFETY DISCONNECT WITH EARLY BREAK AUXILLIARY CONTACTS INTERFACING WITH VFD.
6. FACTORY PROVIDED DISCONNECT.
7. COORDINATE FEEDER SIZE AND MAXIMUM OVERCURRENT PROTECTION WITH ACTUAL EQUIPMENT PROVIDED. FEEDER SIZE AND OVERCURRENT PROTECTION INDICATED ARE BASED UPON BASIS OF DESIGN EQUIPMENT.
8. STARTER WITH OVERLOAD PROVIDED BY PLUMBING TRADE. ELECTRICAL TRADE SHALL CONNECT POWER.
9. PROVIDE TOGGLE OPERATED, NEMA TYPE 1, MANUAL, SINGLE SPEED , STARTER.
10. VARIABLE FREQUENCY DRIVE PROVIDED. ELECTRICAL TRADE TO CONNECT POWER.
11. CONTROL PANEL FURNISHED WITH EQUIPMENT.
12. PROVIDE DUAL ELEMENT TIME DELAY FUSES.
13. A FOURTH WIRE OF SAME SIZE AS THREE PHASE WIRES IS REQUIRED FOR GROUNDING PURPOSE TO MINIMIZE ELECTRICAL NOISE INTERFERENCE. THE GROUNDING WIRE MUST BE CONNECTED TO THE BUILDINGS ELECTRICAL GROUND SYSTEM. IF BATTERY OPERATION LOWERING IS PROVIDED, A MECHANICAL AUXILIARY CONTACT SHALL BE INSTALLED ON THE DISCONNECT SWITCH FOR EACH CAR. COORDINATE REQUIREMENTS WITH FURNISHED ELEVATOR.
14. COORDINATE POWER TO FAN COIL UNIT WITH ROOF MOUNTED COMPRESSOR UNIT. PROVIDE WIRING BETWEEN ROOF MOUNTED COMPRESSOR AND FAN COIL UNIT. CONNECT PER MANUFACTURER'S WIRING DIAGRAM.
15. SINGLE POINT POWER CONNECT FOR AIR HANDLING UNITS.

SINGLE FACE EXIT-DIRECTIONAL SIGNS

CHICAGO CODE No.	DESCRIPTION
#2	STAIRWAY
#3	EXIT
#5	STAIRS →
#6	EXIT →
#8	← STAIRS
#9	← EXIT
#11	← STAIRS
#12	← EXIT

DOUBLE FACE EXIT-DIRECTIONAL SIGNS

CHICAGO CODE No.	DESCRIPTION
#17	STAIRS
#18	EXIT
#20	STAIRS →
#21	EXIT →
#23	← STAIRS
#24	← EXIT

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX
5329 S. OAK PARK AVE.,
CHICAGO, IL
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO
MAYOR RAHM EMANUEL

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HYDRO-THERMO-POWER INC.
CHICAGO, ILLINOIS
MECHANICAL, ELEC., PLUMBING & FP ENGINEER OF RECORD

STEARN - JOGLEKAR, LTD
CHICAGO, ILLINOIS
STRUCTURAL ENGINEER OF RECORD

MILHOUSE ENGINEERING & CONSTRUCTION, INC.
CHICAGO, ILLINOIS
CIVIL ENGINEER OF RECORD

SITE DESIGN GROUP
CHICAGO, ILLINOIS
LANDSCAPE ARCHITECT

SHINER & ASSOCIATES, INC.
CHICAGO, ILLINOIS
ACOUSTICAL ENGINEER

MVP SERVICES GROUP
CHICAGO, ILLINOIS
FOOD SERVICES CONSULTANT

ECOVIDAL DESIGN INC.
CHICAGO, ILLINOIS
LEED CONSULTANT

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE APPLICABLE CODES AND BUILDING REGULATIONS.

ALPHONSE A. ILEKIS, AIA

WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE SCHOOL HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2 REGARDLESS OF CONCENTRATIONS, THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES. FOR ALL SMALL SCALE DISTURBANCES, THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MIGRATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA 1926.62 COMPLIANCE. WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION PROJECT SPECIFICATIONS.
WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

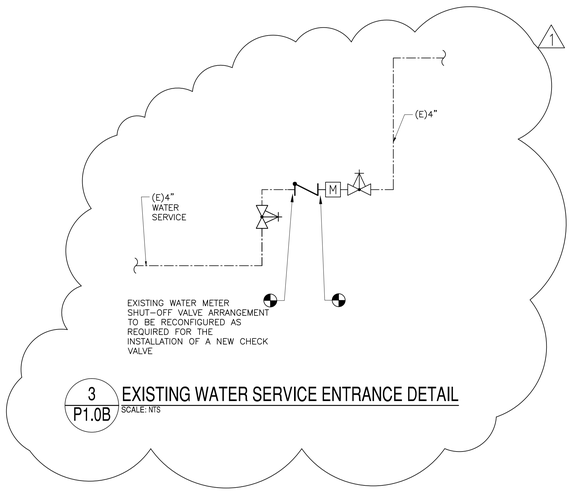
ISSUANCE

MARK	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	10/25/2016
2	ISSUED FOR DESIGN DEVELOPMENT	12/06/2016
3	ISSUED FOR 60% REVIEW	01/31/2017
4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

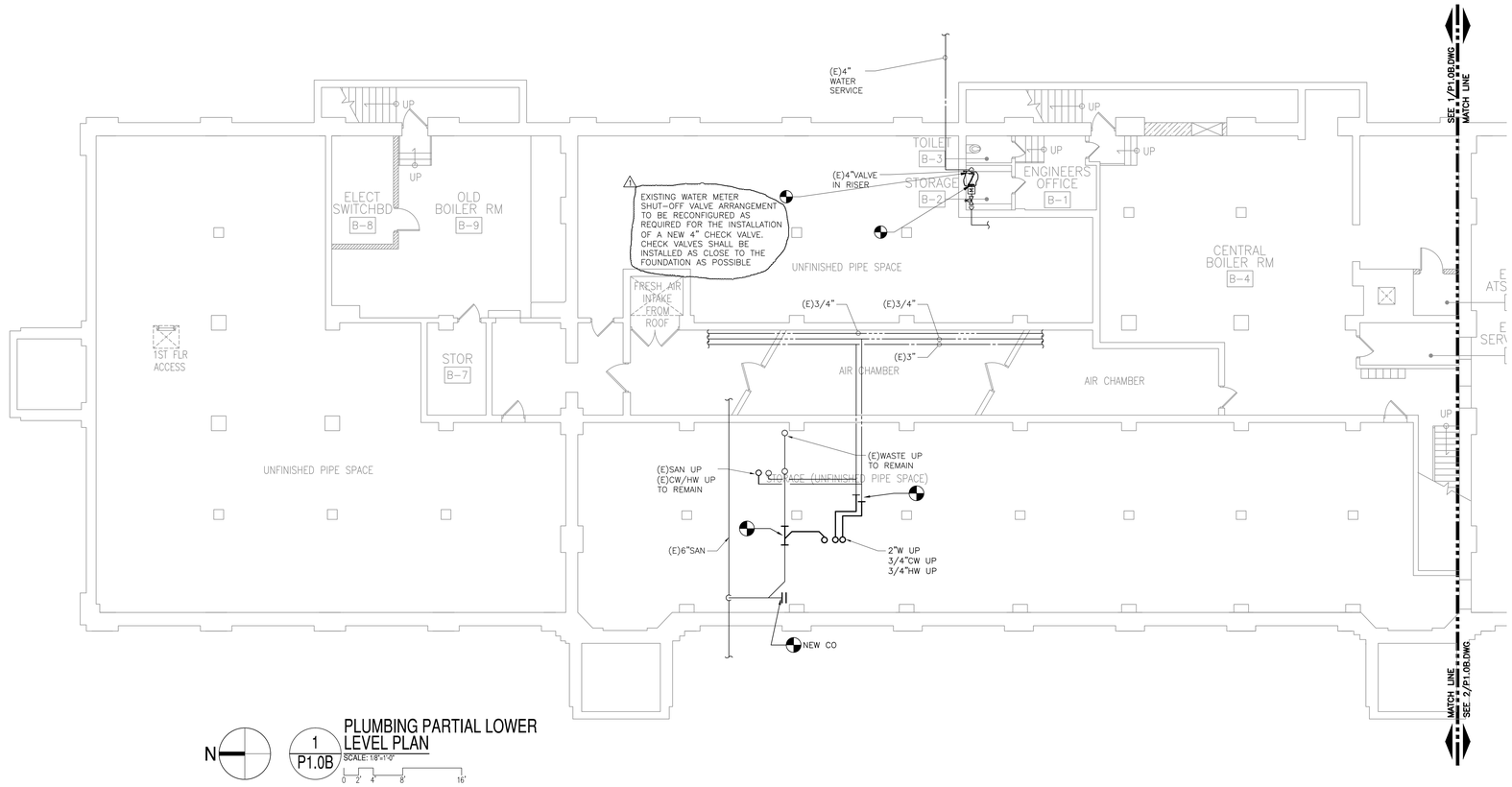
DRAWN BY: ILEKIS ASSOCIATES
SCALE: SEE DRAWING
PROJ. NAME: BYRNE ANNEX
PROJECT #: 1618-01
FILE: 16538 E8.1

TITLE
ELECTRICAL SCHEDULES

SHEET
E8.1

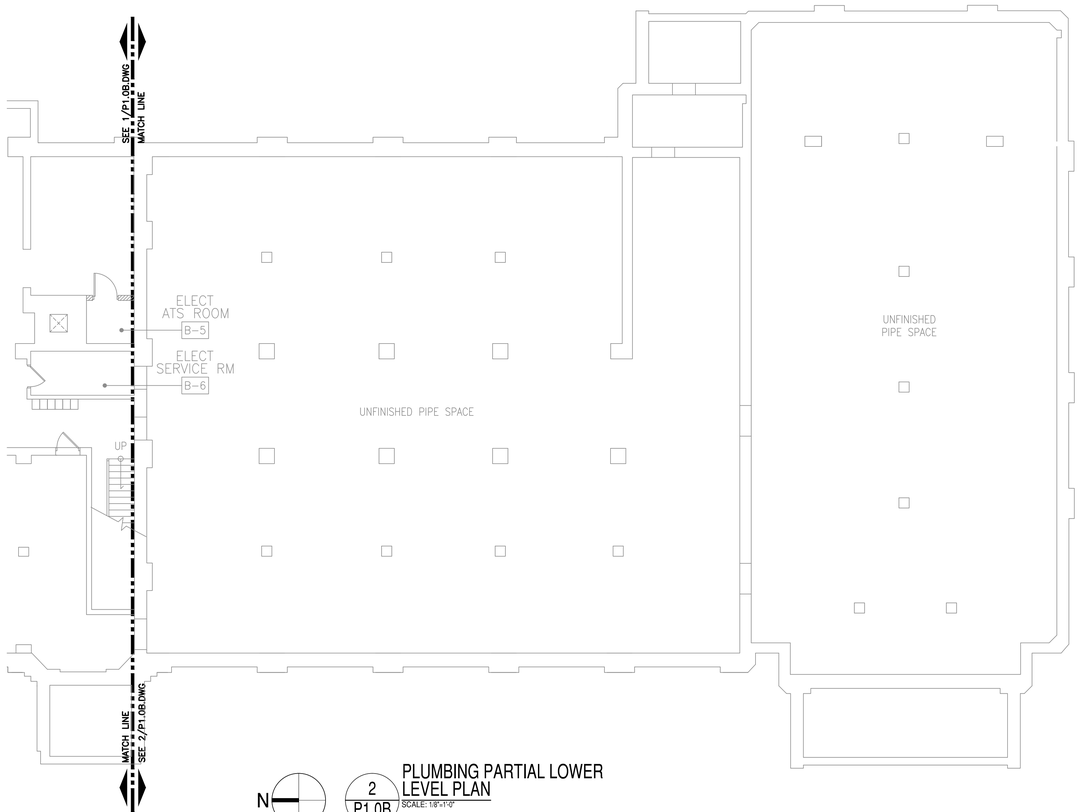


3 / P1.0B EXISTING WATER SERVICE ENTRANCE DETAIL
SCALE: NTS



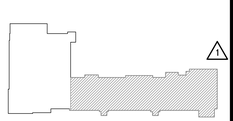
N

1 / P1.0B PLUMBING PARTIAL LOWER LEVEL PLAN
SCALE: 1/8"=1'-0"
0 2' 4' 8' 16'



N

2 / P1.0B PLUMBING PARTIAL LOWER LEVEL PLAN
SCALE: 1/8"=1'-0"
0 2' 4' 8' 16'



KEY PLAN

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX

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Architect of Record

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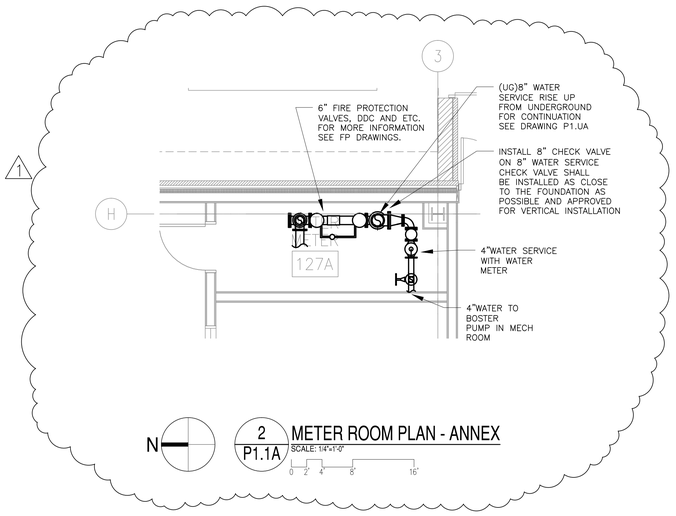
9		
10		

DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	16538 P1.0B

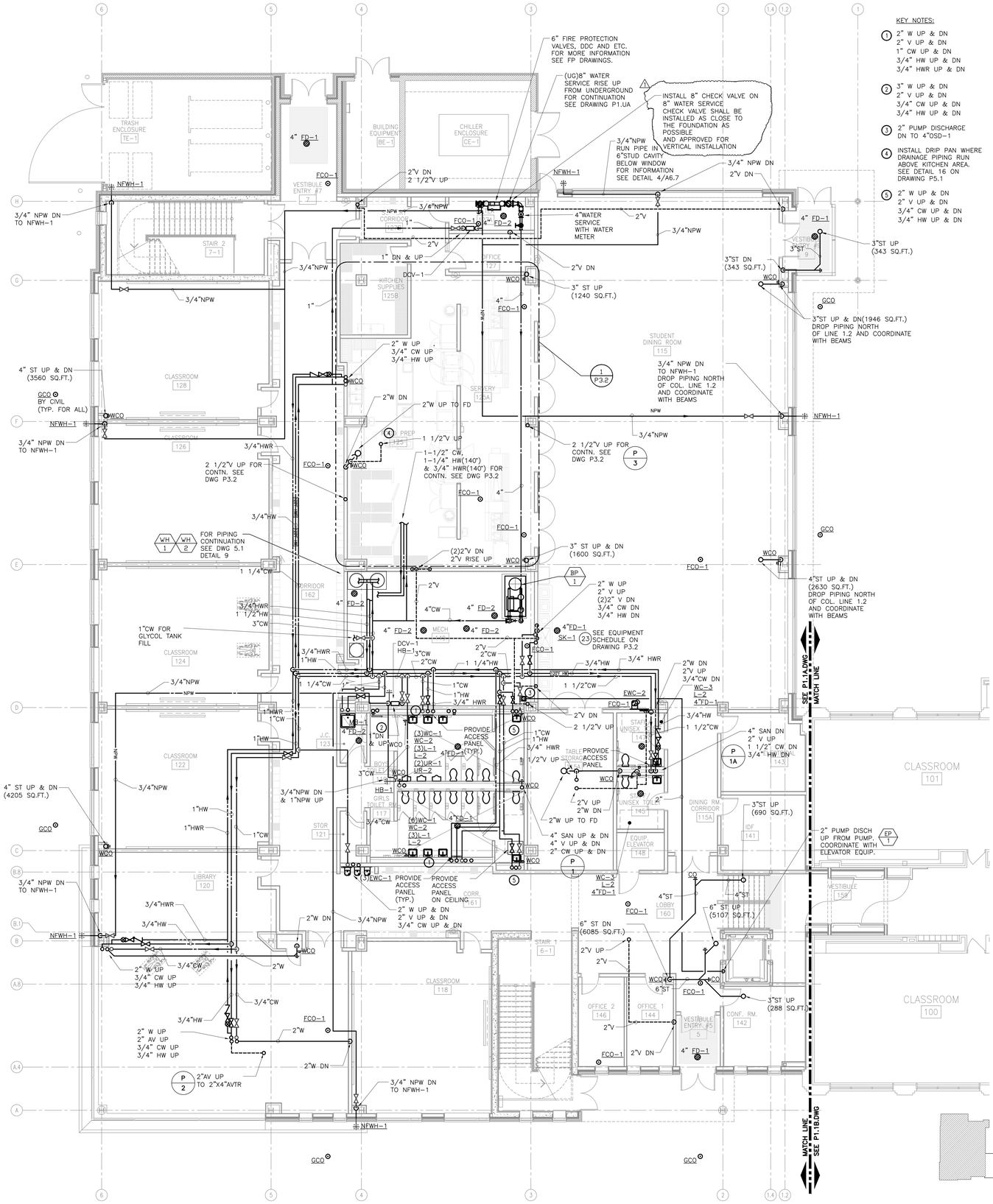
TITLE
PLUMBING LOWER LEVEL PLAN

SHEET
P1.0B



2 P1.1A METER ROOM PLAN - ANNEX
SCALE: 1/4"=1'-0"

3 P1.1A WATER SERVICE ENTRANCE DETAIL - ANNEX
SCALE: NTS



N 1 P1.1A FIRST FLOOR PLUMBING PLAN ANNEX
SCALE: 1/8"=1'-0"
0 2 4 8 16

KEY NOTES:

1. 2" W UP & DN
   2" V UP & DN
   1" CW UP & DN
   3/4" HW UP & DN
   3/4" HWR UP & DN
2. 3" W UP & DN
   2" V UP & DN
   3/4" CW UP & DN
   3/4" HW UP & DN
3. 2" PUMP DISCHARGE DN TO 4"OSD-1
4. INSTALL DRIP PAN WHERE DRAINAGE PIPING RUN ABOVE KITCHEN AREA. SEE DETAIL 16 ON DRAWING P5.1
5. 2" W UP & DN
   2" V UP & DN
   3/4" CW UP & DN
   3/4" HW UP & DN

CITY REVIEW

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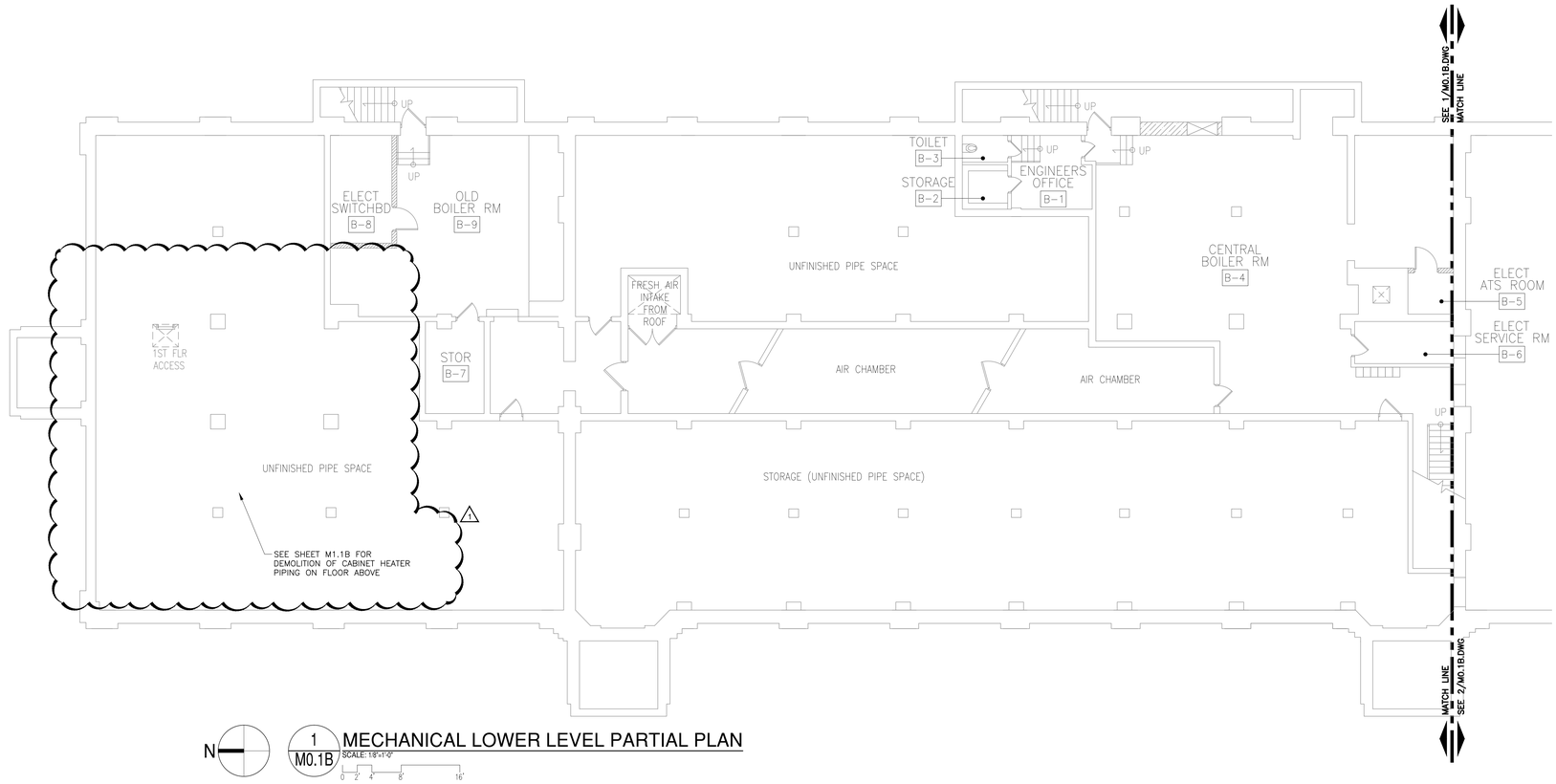
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	16538 P1.1A

TITLE
FIRST FLOOR PLUMBING PLAN ANNEX

SHEET
P1.1A

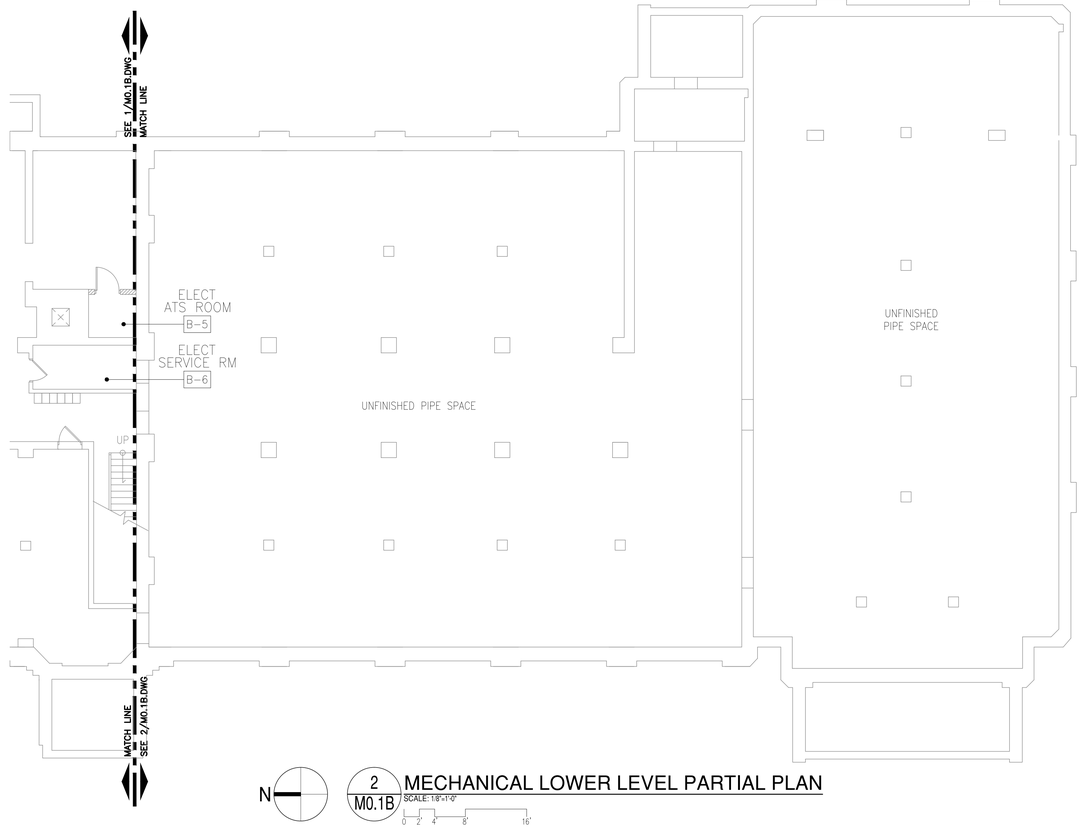


N

1 M0.1B MECHANICAL LOWER LEVEL PARTIAL PLAN

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

0 2' 4' 8' 16'



N

2 M0.1B MECHANICAL LOWER LEVEL PARTIAL PLAN

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

0 2' 4' 8' 16'

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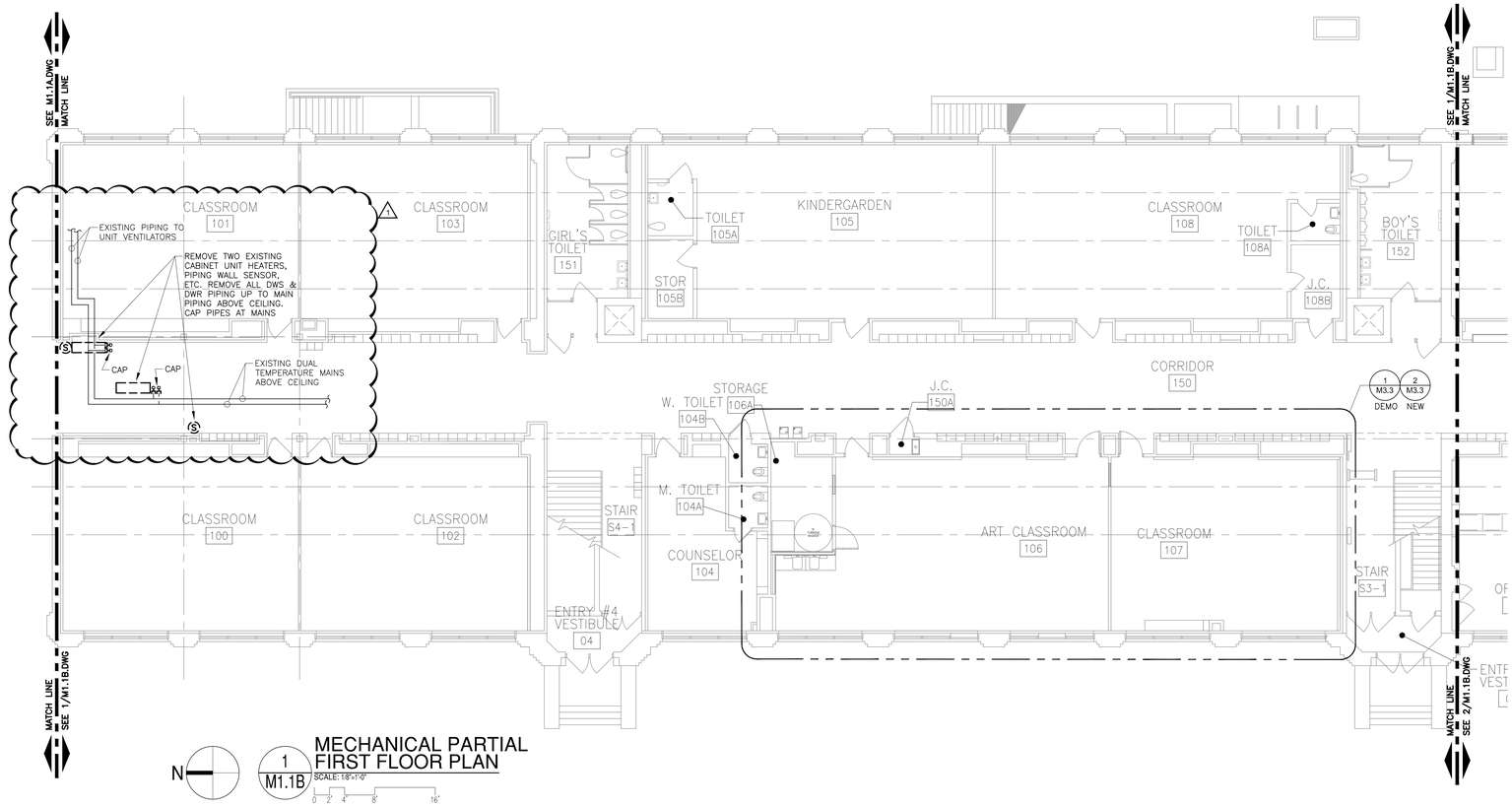
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	16538 M0.1B

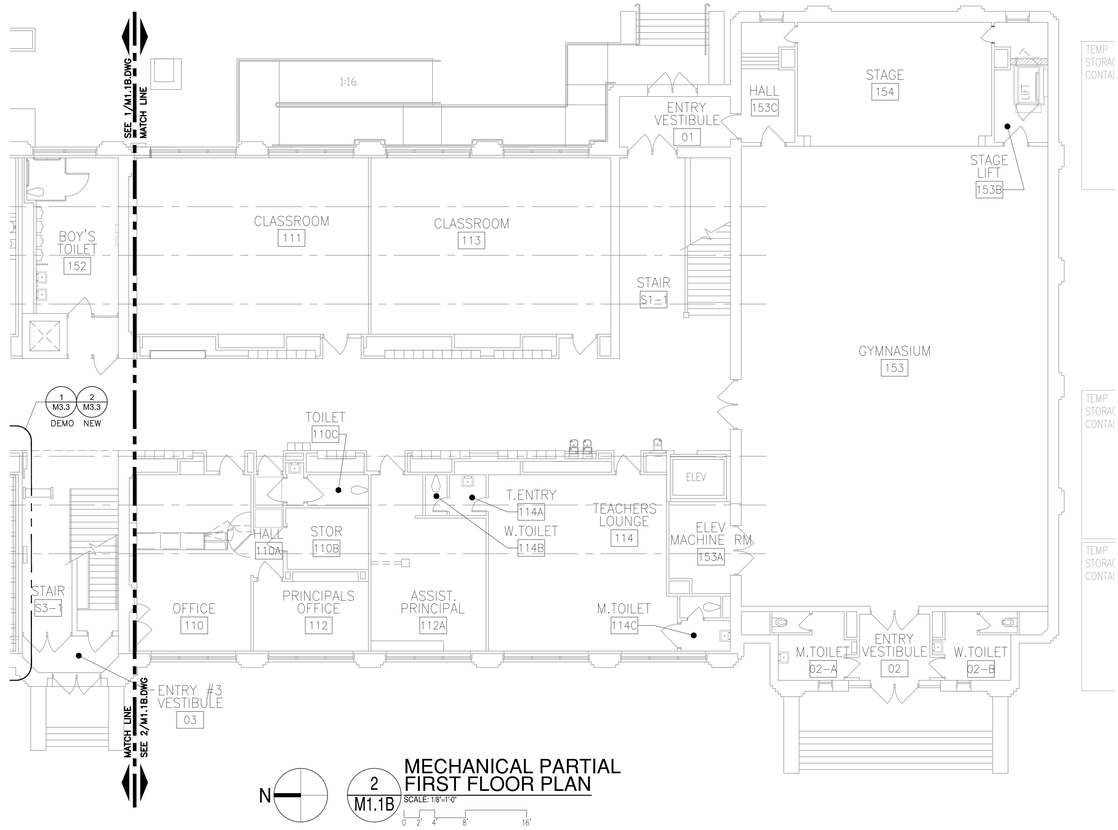
TITLE

MECHANICAL LOWER LEVEL PLAN

SHEET

M0.1B





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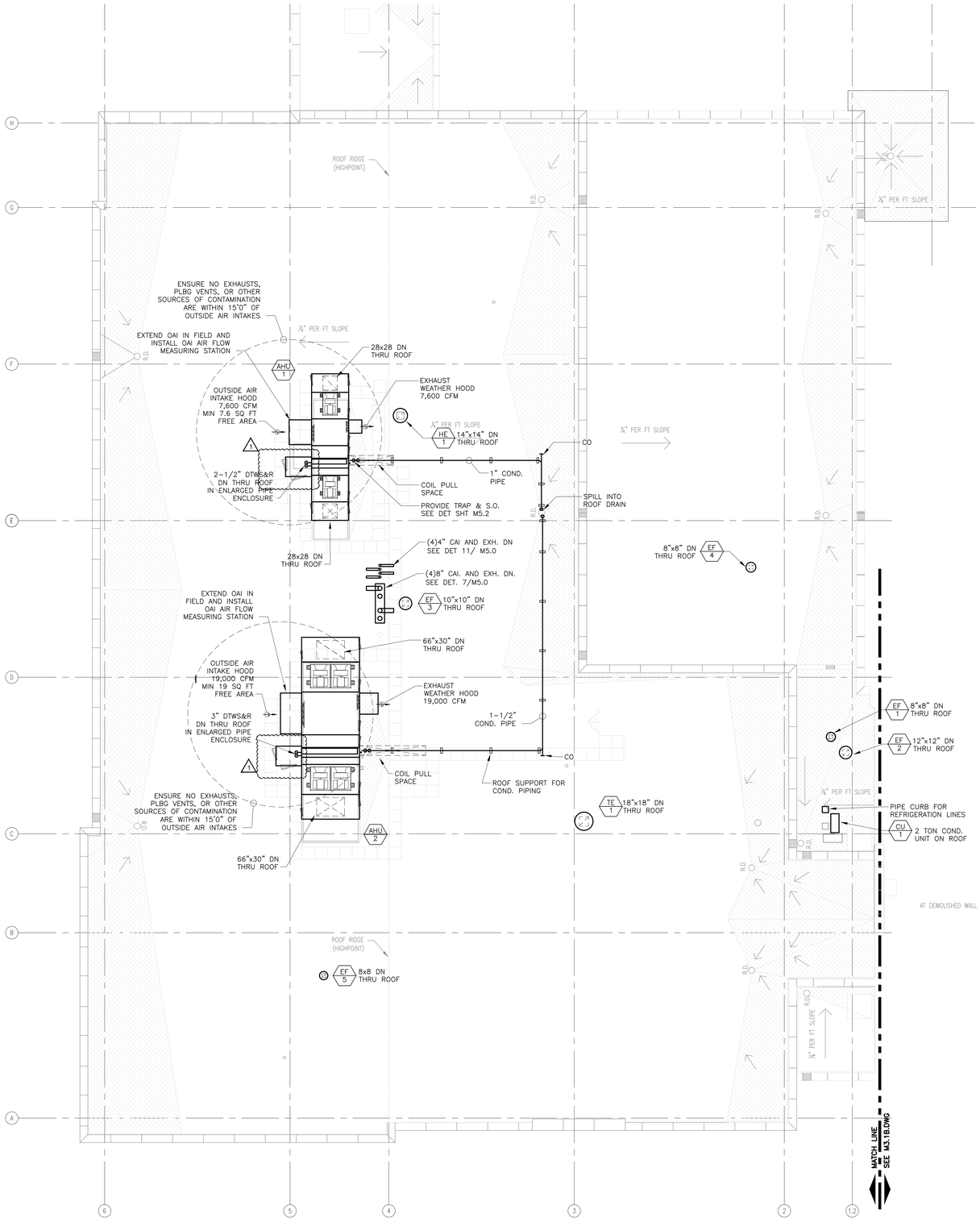
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	16538 M1.1B

TITLE
MECHANICAL FIRST FLOOR PLAN

SHEET
M1.1B



N

1 M3.1A DUCTWORK ANNEX ROOF PLAN

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

0 2' 4' 8' 16'

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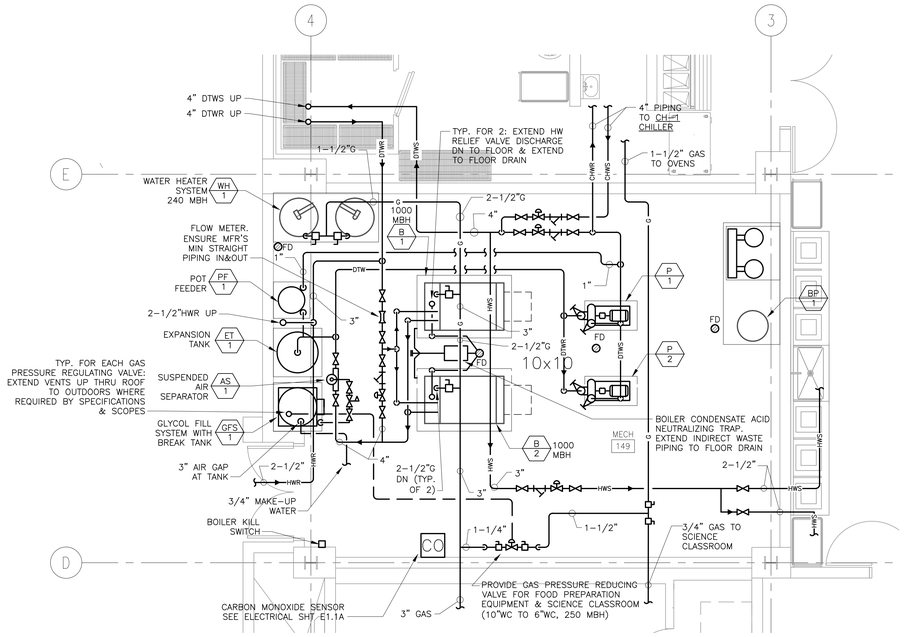
SHEET

M3.1A



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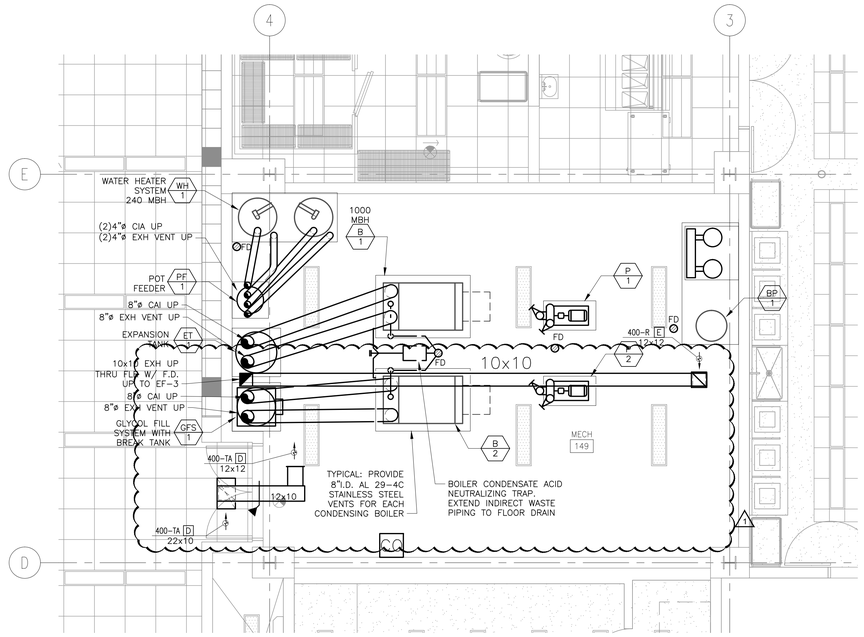
3 / M3.2

MECHANICAL ROOM PIPING PLAN

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

0 1' 2' 4' 8'



N

2 / M3.2

MECHANICAL ROOM VENTILATION PLAN

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

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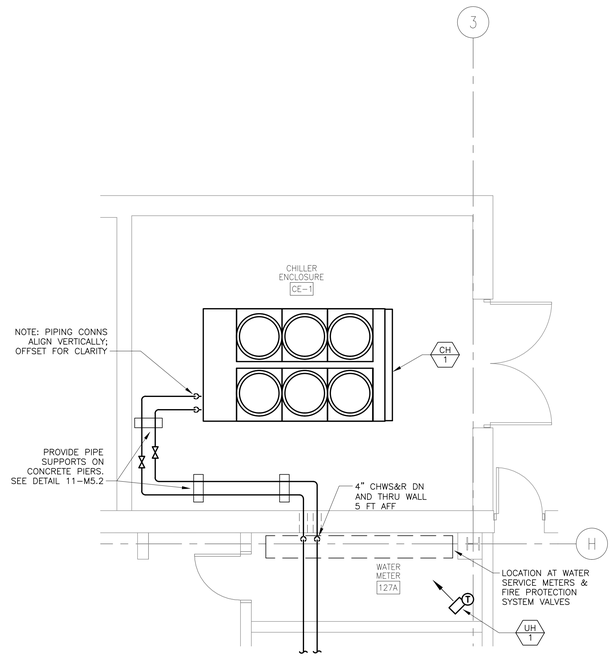


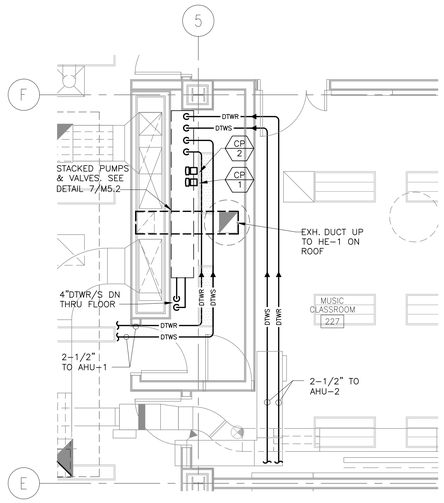
N

5 / M3.2

CHILLER ENCLOSURE & WATER METER ROOM PIPING PLAN

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

0 1' 2' 4' 8'



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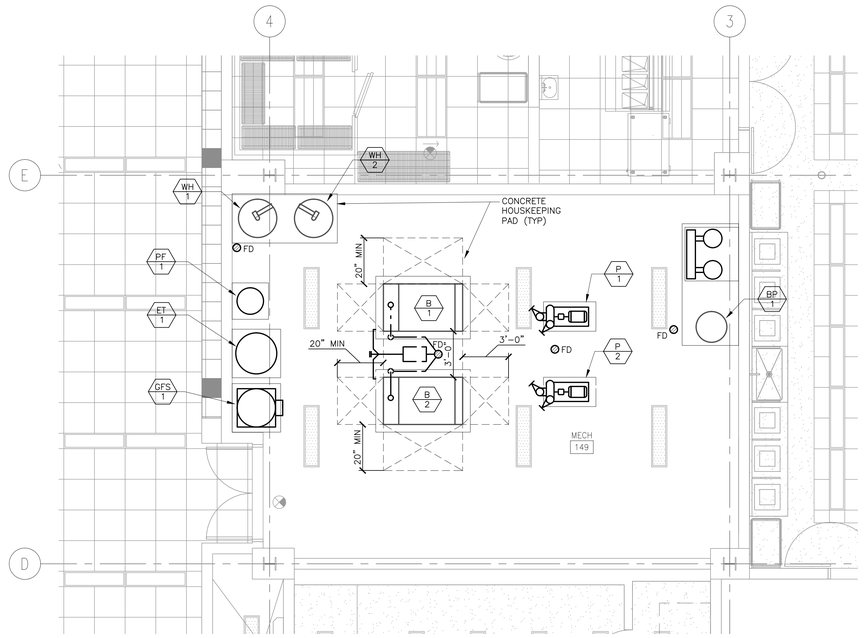
4 / M3.2

2ND FLR MECH ROOM PIPING PLAN

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

0 1' 2' 4' 8'



N

1 / M3.2

MIN. SERVICE CLEARANCES FOR BOILERS B-1 & B-2

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

0 1' 2' 4' 8'

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8	ADDENDUM 1	05/16/2017
9		
10		

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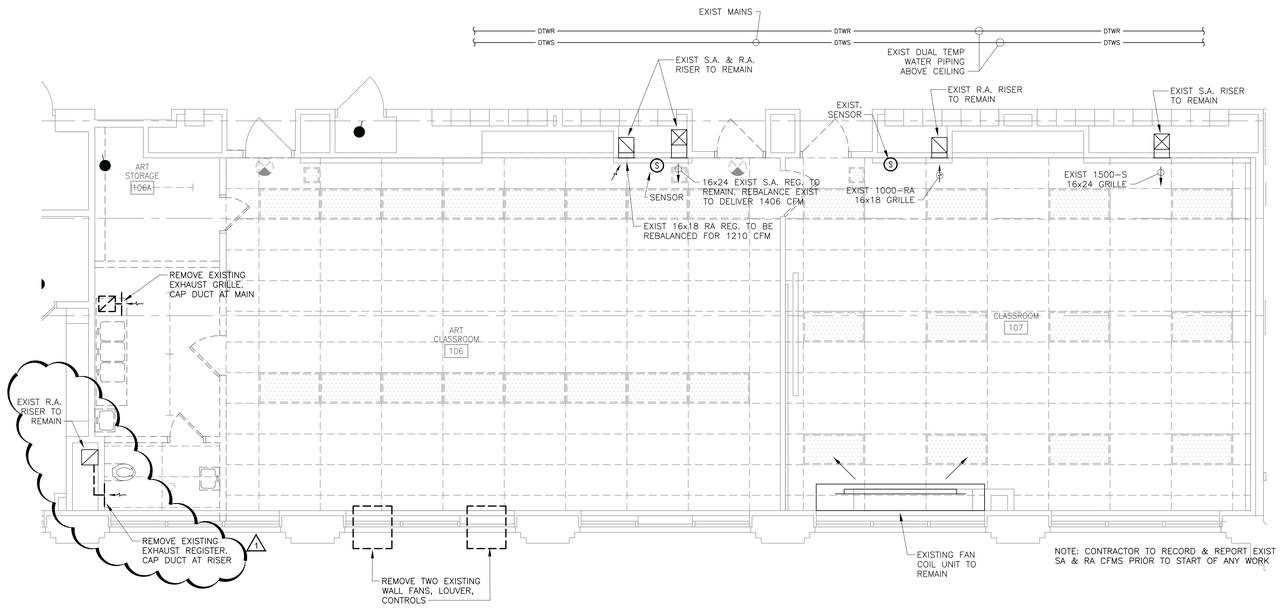
DRAWN BY: ILEKIS ASSOCIATES
SCALE: SEE DRAWING
PROJ. NAME: BYRNE ANNEX
PROJECT #: 1618-01
FILE: 16538 M3.2

TITLE

MECHANICAL ANNEX ENLARGED PLANS

SHEET

M3.2



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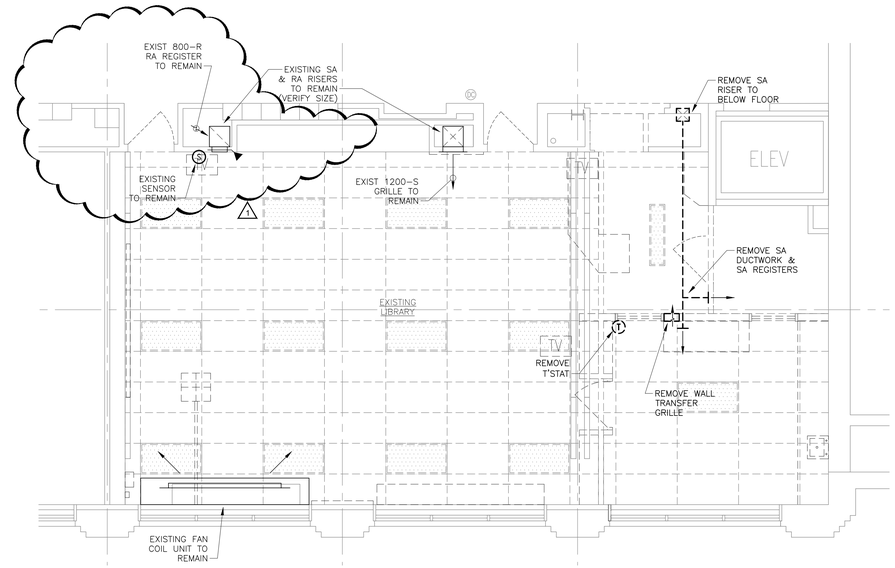
1 M3.3 CLASSROOM 106/107 MECH DEMOLITION PLAN

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

0 1' 2' 4' 8'



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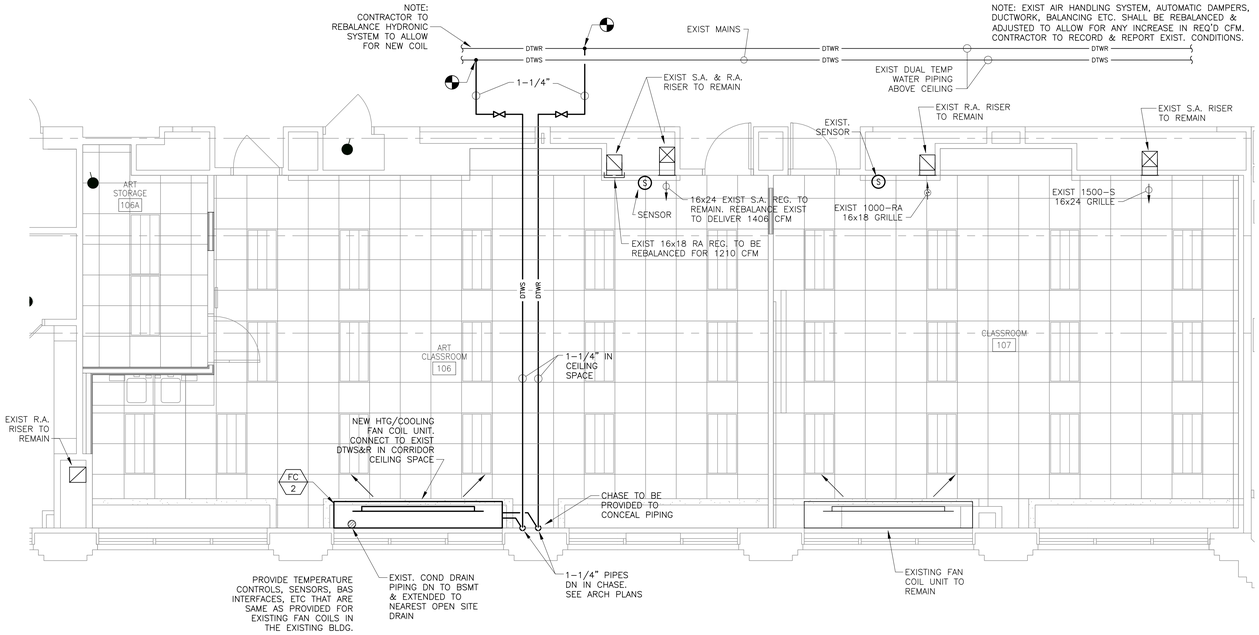
3 M3.3 LIBRARY MECH DEMOLITION PLAN

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

0 1' 2' 4' 8'



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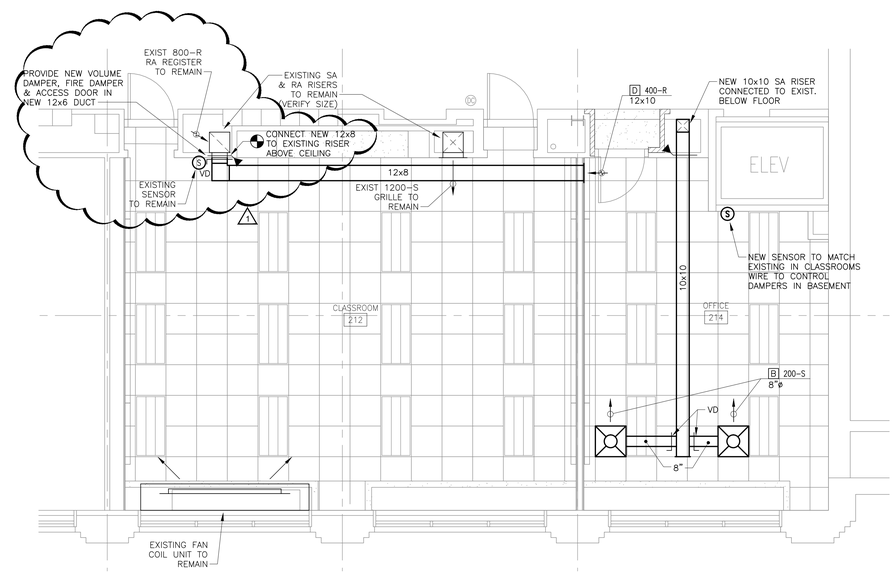
2 M3.3 CLASSROOM 106/107 MECH PROPOSED PLAN

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

0 1' 2' 4' 8'



N

4 M3.3 CLASSROOM 212/212A MECH PROPOSED PLAN

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

0 1' 2' 4' 8'

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX

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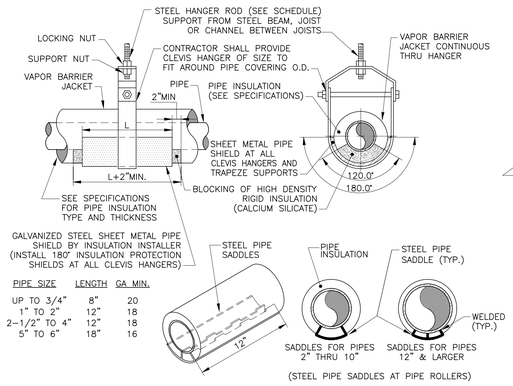
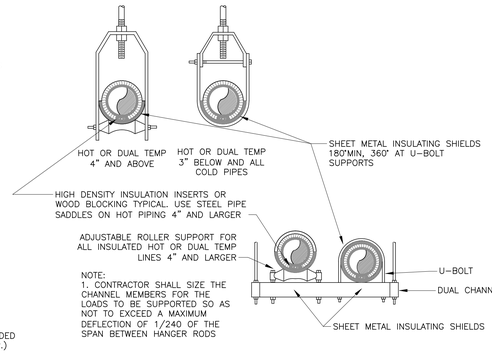
M3.3



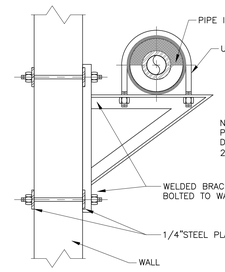
PIPE SIZE	LENGTH	GA MIN.
UP TO 3/4"	8"	20
1" TO 2"	12"	18
2-1/2" TO 4"	12"	18
5" TO 6"	18"	16

NOTES:
INSTALL 360° INSULATION PROTECTION SHIELDS AT ALL PIPING SECURED WITH U-BOLTS AND U-CLAMPS. INSTALL 180° INSULATION PROTECTION SHIELDS AT ALL CLEVIS HANGERS. PROVIDE HIGH DENSITY INSULATION SUPPORTS AT ALL CLEVIS HANGERS, SUPPORTS, AND TRAPEZE HANGERS. PROVIDE STEEL PIPE INSULATION SADDLES ON ALL PIPES SUPPORTED BY ROLLERS.

1 M5.2 PIPE COVERING PROTECTION SHIELDS & PIPE SADDLES
SCALE: NONE

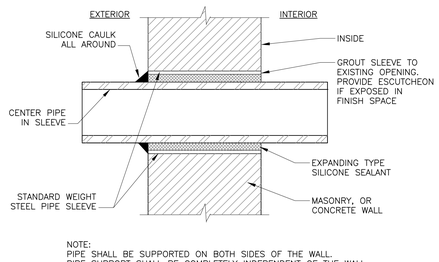


2 M5.2 PIPE SUPPORT AND HANGER DETAIL
SCALE: NONE



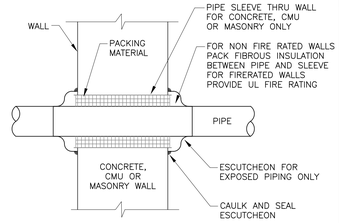
NOTES:
1. COORDINATE WALL FASTENING DETAIL WITH STRUCTURAL ENGINEER. SUBMIT SHOP DRAWINGS DETAILING THE ANTICIPATED STRUCTURAL LOADS AND LOCATION OF WALL ATTACHMENTS.
2. FOR PIPE COVERING PROTECTION SHIELD AND PIPE SADDLES, SEE 230529-MD-16.

3 M5.2 WALL PIPE SUPPORT DETAIL
SCALE: NONE



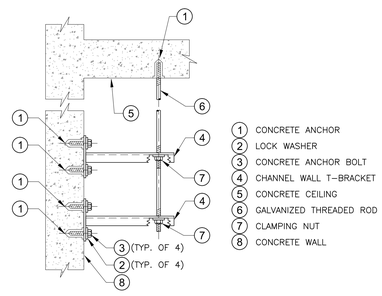
NOTE:
PIPE SHALL BE SUPPORTED ON BOTH SIDES OF THE WALL.
PIPE SUPPORT SHALL BE COMPLETELY INDEPENDENT OF THE WALL.

4 M5.2 PIPE THRU EXISTING EXTERIOR WALL ABOVE GRADE
SCALE: NONE



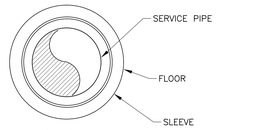
NOTES:
1. PIPE SHALL BE SUPPORTED ON EITHER SIDE OF WALL. PIPE SUPPORT SHALL BE COMPLETELY INDEPENDENT OF WALL.

5 M5.0 PIPE THRU WALL DETAIL
SCALE: NONE

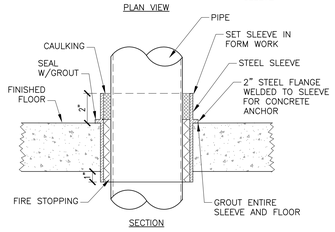


1. CONCRETE ANCHOR
2. LOCK WASHER
3. CONCRETE ANCHOR BOLT
4. CHANNEL WALL T-BRACKET
5. CONCRETE CEILING
6. GALVANIZED THREADED ROD
7. CLAMPING NUT
8. CONCRETE WALL

6 M5.2 WALL PIPE SUPPORT DETAIL
SCALE: NONE



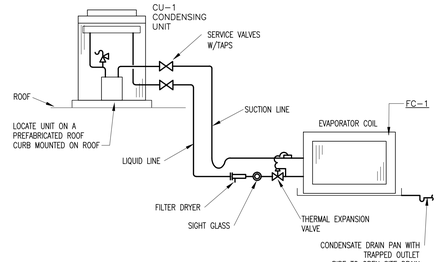
PLAN VIEW



SECTION

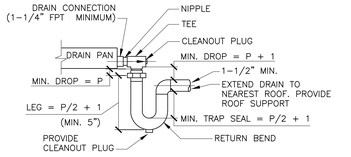
NOTES:
1. SLEEVE FOR POURED IN PLACE.

7 M5.2 TYPICAL PIPE FLOOR SLEEVE DETAIL FOR EXISTING FLOOR
SCALE: NONE



1. ALL REFRIGERANT PIPING SHALL BE TYPE K OR ACR COPPER WITH BRAZED FITTINGS AND AS APPROVED BY THE CITY OF CHICAGO CODES.
2. REMOVE ALL EXPANSION DEVICES, ETC. FROM AIR STREAM.
3. PROVIDE PRV AT COMPRESSOR DISCHARGE UPSTREAM OF ANY VALVES OR DEVICES.
4. DISTANCE BETWEEN CONDENSING UNIT & EVAPORATOR COIL SHALL NOT EXCEED MANUFACTURER RECOMMENDATIONS.
5. PROVIDE DOUBLE SUCTION RISERS WHERE REQUIRED FOR PROPER OIL RETURN.
6. PIPING SHOWN FOR REFERENCE ONLY - PROVIDE TRAPS, ETC. AS REQUIRED AND PER MANUFACTURER RECOMMENDATIONS.
7. FINAL PIPE SIZING AND ARRANGEMENTS SHALL BE BASED ON ACTUAL FIELD ROUTING OF PIPES AND PER MANUFACTURER RECOMMENDATIONS.

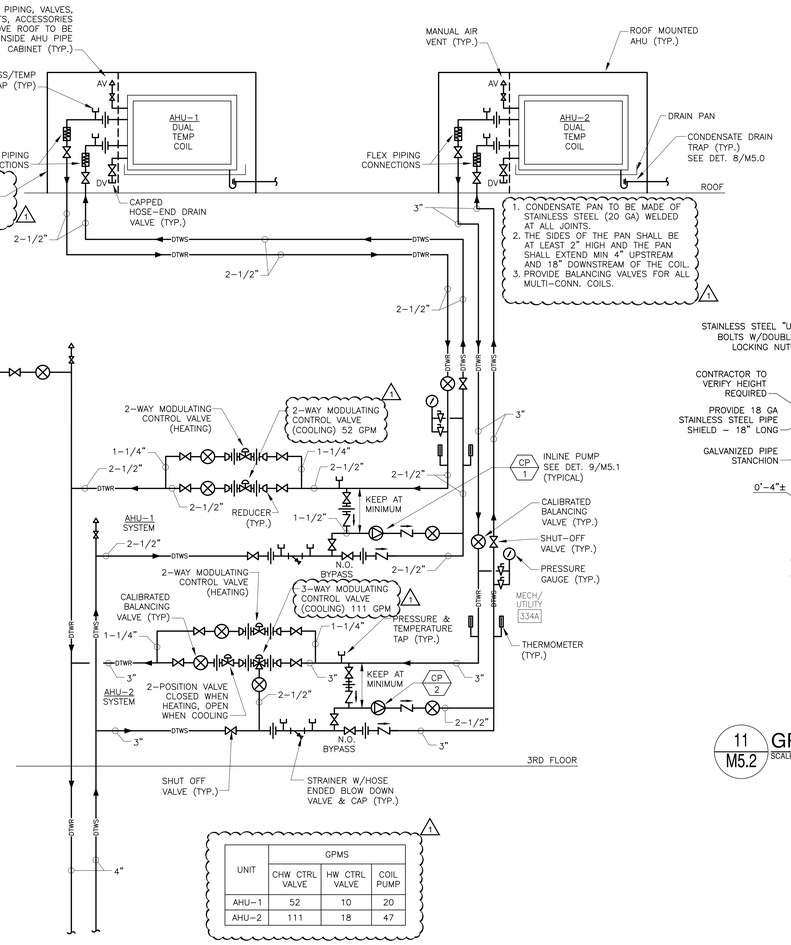
8 M5.2 SPLIT SYSTEM REFRIGERANT PIPING DIAGRAM (MDF ROOM)
SCALE: NONE



P= NEGATIVE INTERNAL STATIC PRESSURE AT FAN INLET
P= 4"

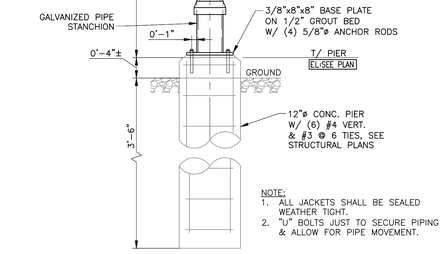
1. PIPING TO BE SCHEDULE 40 GALVANIZED

9 M5.2 ROOF MOUNTED AHU CONDENSATE DRIP PAN SEALANT PIPING DETAIL
SCALE: NONE



UNIT	GPMS		
	CHW CTRL VALVE	HW CTRL VALVE	COIL PUMP
AHU-1	52	10	20
AHU-2	111	18	47

10 M5.2 DUAL TEMP PIPING DIAGRAM FOR AHU-1 & AHU-2
SCALE: NONE



NOTE:
1. ALL JACKETS SHALL BE SEALED WEATHER TIGHT.
2. "U" BOLTS JUST TO SECURE PIPING & ALLOW FOR PIPE MOVEMENT.

11 M5.2 GRADE PIPING SUPPORT DETAIL
SCALE: 1"=1'-0"

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SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
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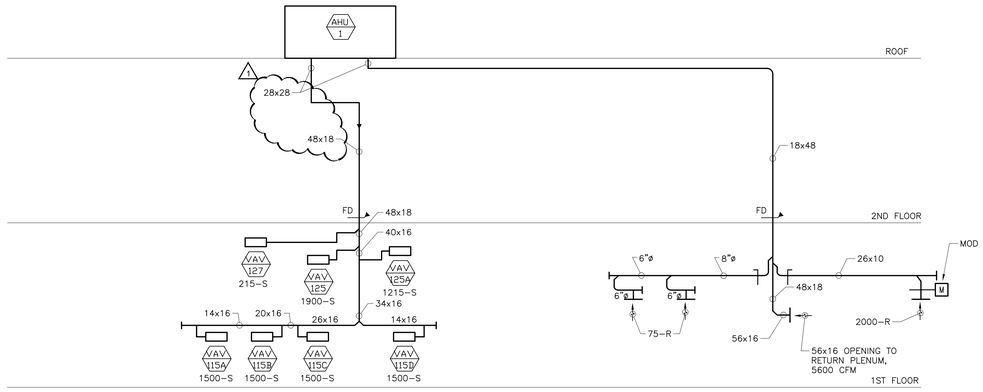
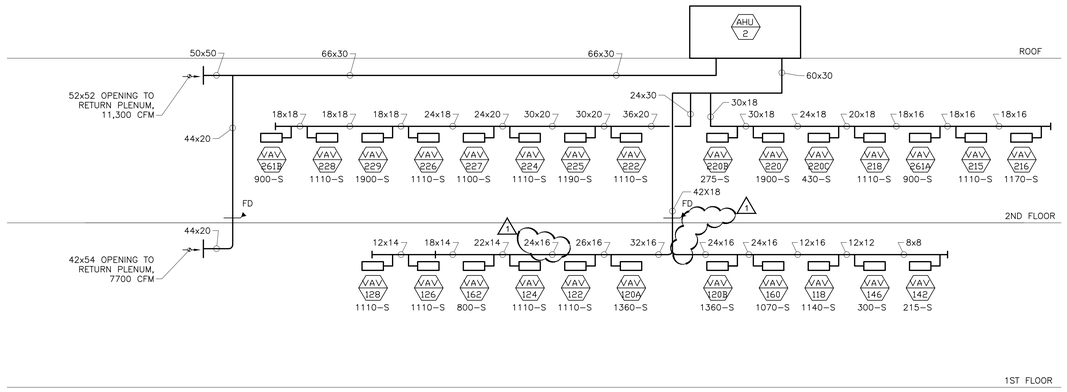
TITLE
MECHANICAL DETAILS-PIPING

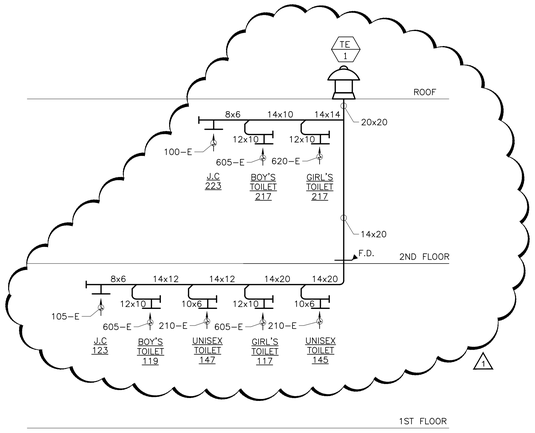
SHEET
M5.2



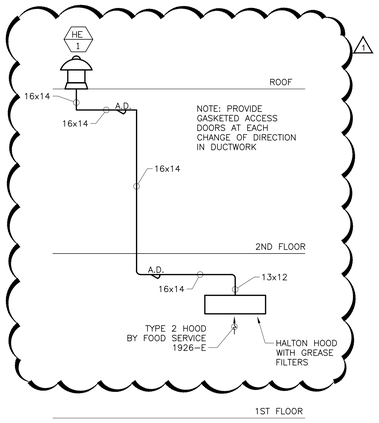
1 M6.1 AHU-1 RISER SYSTEM
SCALE: NONE



2 M6.1 AHU-2 DUCT RISER
SCALE: NONE



3 M6.1 TE-1 TOILET EXHAUST SYSTEM
SCALE: NONE



4 M6.1 HE-1 EXHAUST SYSTEM
SCALE: NONE

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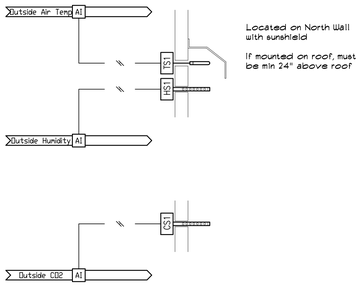
9		
10		

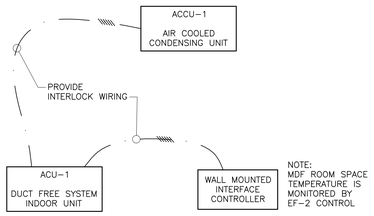
DRAWN BY: ILEKIS ASSOCIATES
SCALE: SEE DRAWING
PROJ. NAME: BYRNE ANNEX
PROJECT #: 1618-01
FILE: 16538 M6.1

TITLE
AIR SYSTEM RISER DIAGRAMS

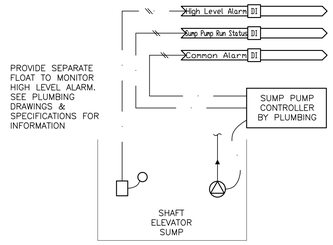
SHEET
M6.1



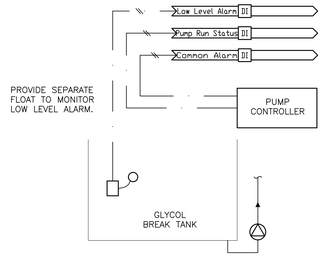
OUTSIDE AIR SENSORS



DX SPLIT SYSTEM - MDF ROOF



ELEVATOR PIT SUMP PUMP MONITORING

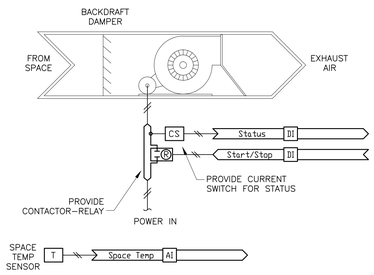


GLYCOL BREAK TANK & FILL PUMP MONITORING

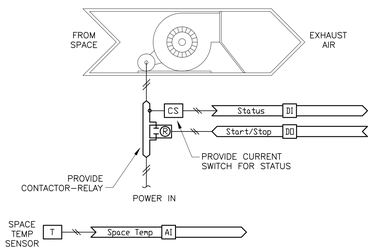
POINTS LIST

ADDRESS	POINT DESCRIPTOR	POINT TYPE DI	AI	DO	AO	VP	REMARKS
	Outside Air Temp		•				
	Outside Air Hum		•				
	Outside Air CO2		•				
	Sump Float Low Level	•					
	Sump Pump Controller Alarm	•					
	Sump Pump Run Status	•					
	Glycol Fill Tank Float Low Level	•					
	Glycol Fill Tank Controller Alarm	•					
	Glycol Fill Pump Run Status	•					
	Hot Box Common Alarm	•					

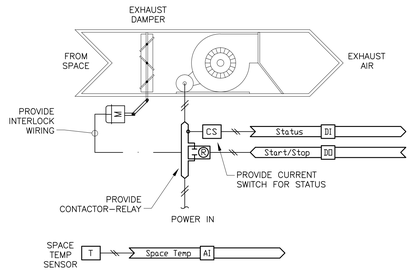
MISCELLANEOUS



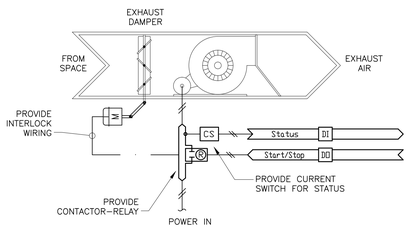
EF-1 ELECTRICAL ROOM (143)
EF-2 (IDF) ROOM (141)
EF-5 SCIENCE STORAGE (220A)



EF-3 MECHANICAL ROOM (149)



EF-4 ELEVATOR MACHINE ROOM (148) 1



TE-1 - TOILET EXHAUST FAN

POINTS LIST

ADDRESS	POINT DESCRIPTOR	POINT TYPE DI	AI	DO	AO	VP	REMARKS
	EF-1 Start/Stop			•			
	EF-1 Status	•					
	EF-1 Space Temp		•				
	EF-2 Start/Stop			•			
	EF-2 Status	•					
	EF-2 Space Temp		•				
	EF-3 Start/Stop			•			
	EF-3 Intake Damper	•		•			
	EF-3 Status	•					
	EF-3 Space Temp		•				
	EF-4 Start/Stop			•			
	EF-4 Status	•					
	EF-4 Space Temp		•				
	EF-5 Start/Stop			•			
	EF-5 Status	•					
	EF-5 Space Temp		•				
	EF-6 Start/Stop			•			
	EF-6 Status	•					
	EF-6 Space Temp		•				
	SF-1 Start/Stop			•			
	SF-1 Status	•					
	SF-1 Space Temp		•				
	SF-2 Start/Stop			•			
	SF-2 Status	•					
	SF-2 Space Temp		•				
	RF-1 Start/Stop			•			
	RF-1 Status	•					
	RF-1 Space Temp		•				
	R-2 Start/Stop			•			
	RF-2 Status	•					
	RF-2 Space Temp		•				
	TE-1 Start/Stop			•			
	TE-1 Status	•					
	HE-1 Start/Stop			•			
	HE-1 Status	•					

EXHAUST FANS

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX
5329 S. OAK PARK AVE.,
CHICAGO, IL
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO
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CHICAGO, ILLINOIS
MECHANICAL, ELEC., PLUMBING & FP ENGINEER OF RECORD
STEARN - JOGLEKAR, LTD
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STRUCTURAL ENGINEER OF RECORD
MILHOUSE ENGINEERING & CONSTRUCTION, INC.
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ACOUSTICAL ENGINEER
MVP SERVICES GROUP
CHICAGO, ILLINOIS
FOOD SERVICES CONSULTANT
ECOVIDAL DESIGN INC.
CHICAGO, ILLINOIS
LEED CONSULTANT

THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE APPLICABLE CODES AND BUILDING REGULATIONS.

ALPHONSE A. ILEKIS, AIA

WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE SCHOOL HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2 REGARDLESS OF CONCENTRATIONS. THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES. FOR ALL SMALL SCALE DISTURBANCES, THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MIGRATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE. WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION PROJECT SPECIFICATIONS.
WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

ISSUANCE

MARK	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	10/25/2016
2	ISSUED FOR DESIGN DEVELOPMENT	12/06/2016
3	ISSUED FOR 60% REVIEW	01/31/2017
4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

1

DRAWN BY: ILEKIS ASSOCIATES
SCALE: SEE DRAWING
PROJ. NAME: BYRNE ANNEX
PROJECT #: 1618-01
FILE: 16538 M7.7

TITLE
BAS DIAGRAMS EXHAUST FANS & MISCELLANEOUS

SHEET
M7.7

AIR SEPARATOR SCHEDULE

TAG	SERVICE	LOCATION	FLOW (GPM)	SIZE	PRESS DROP (FT HD)	FLUID TYPE	WORKING PRESSURE (PSIG)	MANUFACTURER AND MODEL	NOTES
AS-1	DUAL TEMP	BOILER ROOM	163	4"	2	30% P.G.	125	BELL & GOSSET R-4F	W/ STRAINER

EXPANSION TANK SCHEDULE

TAG	LOCATION	SYSTEM	FLUID TYPE	CAPACITY (GAL)	INITIAL FILL PRESSURE (PSIG)	OPERATING PRESSURE (PSIG)	RELIEF VALVE SETTING (PSIG)	WORKING PRESSURE (PSIG)	MAX. WT. FLOODED (LBS)	MANUFACTURER AND MODEL	NOTES
ET-1	BOILER ROOM	DUAL TEMP	30% P.G.	79	18	75	100	125	920	WESSELS NLA 300	1

1. ASME BLADDER TANK W/ HEAVY DUTY REMOVABLE BLADDER, 100% ACCEPTANCE VOLUME, CHARGING VALVE, SYSTEM CONNECTIONS.

ROOF MOUNTED AIR HANDLING UNIT SCHEDULE (AHU)

TAG	LOCATION	AREA SERVED	CFM	ABSOLUTE MIN OA	DESIGN MIN OA	COIL TAG	SUPPLY FAN TAG	SUPPLY FAN TAG	WEIGHT, *LBS.	BASED ON		REMARKS
										MFR	MODEL	
AHU-1	ROOF	LUNCHROOM / FOOD PREP	7,600	1,000	2,800	DT-1	SF-1	ER-1	6,200	TRANE	017	1 - 11
AHU-2	ROOF	CLASSROOMS, ETC.	19,000	3,500	7,250	DT-2	SF-2	ER-2	12,600	TRANE	040	1 - 11

1. AHU TO INCLUDE, IN ORDER OF AIRFLOW: BOTTOM INLET, EXH/RECIRC FAN SECTION, MODULATING EXH DAMPERS SIZED FOR 100% OF FAN CFM, MODULATING RETURN DAMPERS, MODULATING OAI DAMPERS, ANGLE FILTER SECTION, ACCESS SECTION, DUAL-TEMPERATURE HEATING & COOLING COIL SECTION, SUPPLY FAN SECTION, BOTTOM DISCHARGE. PROVIDE SERVICE LIGHT WIRED TO SWITCH IN FAN &
2. CABINET SHALL BE DOUBLE-WALL STEEL CONSTRUCTION WITH THERMAL BREAKS, MIN R-13 INSULATION.
3. INCLUDE PIPING CABINET TO HOUSE DUAL TEMPERATURE PIPING AND COIL CONNECTIONS WITHOUT EXPOSURE TO THE ELEMENTS.
4. WEATHER-TIGHT HINGED ACCESS DOORS SHALL BE PROVIDED TO ENABLE ACCESS TO ALL FANS, MOTORS, DAMPERS, COILS, PIPING, AND
5. INCLUDE WEATHER HOODS FOR OUTSIDE AIR INTAKE AND EXHAUST DISCHARGE FOR FIELD INSTALLATION. EXTEND EXHUAST MIN 15' 0" FROM INTAKES.
6. PROVIDE 24" HIGH INSULATED CURB UNDER FULL PERIMETER OF UNIT, INCLUDING PIPING CABINET.
7. VFDs FOR FANS TO BE MOUNTED INSIDE UNIT.
8. INCLUDE 2" OR 4" PLEATED THROWAWAY TYPE FILTERS, MERV 8.
9. PROVIDE TRAPPED CONDENSATE DRAIN.
10. MAXIMUM NOISE LEVELS AS INDICATED IN TABLE BELOW.
11. PROVIDE ENLARGED EXTERIOR PIPING ENCLOSURE FOR AHU'S

AHU MAXIMUM SOUND POWER DATA

SYSTEM		OCTAVE BANDS							
		1	2	3	4	5	6	7	8
		63	125	250	500	1K	2K	4K	8K
AHU-1	RETURN FAN INLET	69	68	85	72	66	69	67	54
	SUPPLY FAN DISCHARGE	76	77	86	80	75	72	76	63
AHU-2	RETURN FAN INLET	81	76	92	78	77	79	71	60
	SUPPLY FAN DISCHARGE	86	85	91	84	81	81	77	66

GRILLES REGISTERS DIFFUSERS

TAG	SERVICE	DESCRIPTION	MATERIAL	FINISH	FRAME / MOUNTING	DAMPER	BASIS OF DESIGN	REMARKS
A	SUPPLY	PLENUM SLOT - (2) 1" SLOTS	STEEL	BLACK	LAY-IN 2x2	IN DUCT BRANCH	TITUS TBD-80	1, 2, 3, 18, 19
B	SUPPLY	ARCHITECTURAL PLAQUE	STEEL	WHITE	LAY-IN 2x2	IN DUCT BRANCH	TITUS OMNI	4, 5, 18, 19
C	EXH / RET	35° FIXED LOUVER	STEEL	WHITE	LAY-IN 2x2	IN DUCT BRANCH	TITUS 350-RL	6, 7, 8, 9, 18, 19
D	EXH / RET	35° FIXED LOUVER	STEEL	WHITE	SURFACE / DUCT	ADJ. FROM FACE	TITUS 350-RL	6 - 10, 17 - 19
E	EXH / RET	HEAVY DUTY, 0° FIXED LOUVER	STEEL	WHITE	SURFACE / DUCT	NONE	TITUS 350-RL	9, 10, 11, 18, 19
F	SUPPLY	CONTINUOUS LINEAR SLOT DIFF	ALUMINUM	WHITE	SURFACE	IN DUCT BRANCH	TITUS ML-39	12 - 15, 18, 19
G	SUPPLY	DOUBLE DEFLECTION	STEEL	WHITE	SURFACE / DUCT	ADJ. FROM FACE	TITUS 300-RL	16, 17, 18, 19
H	SUPPLY	PLENUM SLOT - (3) 1" SLOTS	STEEL	BLACK	LAY-IN	IN DUCT BRANCH	TITUS TBD-80	1, 2, 3, 18, 19
J	SUPPLY	PLENUM SLOT - (2) 3/4" SLOTS	STEEL	BLACK	LAY-IN	IN DUCT BRANCH	TITUS TBD-80	2, 3, 18, 19, 20

REMARKS

1. NOMINAL 4 FT LONG SLOT DIFFUSER WITH NUMBER OF 1" WIDE SLOTS AS INDICATED.
2. TWO GASKETED PATTERN CONTROLLERS FOR EACH SLOT, INDIVIDUALLY ADJUSTABLE FROM FACE OF DIFF FROM VERT THRU EITHER HORIZ THROW.
3. 11" HI PLENUM WITH THERMAL/ACOUSTICAL LINING, DRAWN ROUND OR OVAL INLET COLLAR, MIN 24 GA. CONSTRUCTION.
4. STAMPED STEEL BACKPAN TO FIT 24"x24" CEILING GRID.
5. REMOVEABLE SQUARE FACE PANEL, 22 GA STEEL W/ FORMED EDGES, ATTACHED TO BACKPAN BY 4 HOOK BRACKETS.
6. 35° FIXED DEFLECTION BLADES AT 3/4" CENTERS, PARALLEL TO THE FLOOR.
7. BLADES HELD IN PLACE BY MULLIONS, FIXED BY CRIMPING OR WELDING.
8. ARRANGE BLADES TO MINIMIZE SEE-THRU FROM NORMAL VIEWING ANGLES.
9. STEEL FRAME, WELDED CORNERS.
10. COUNTERSUNK SCREW HOLES, FASTENERS OF COLOR TO MATCH FRAME
11. MIN 16 GA STEEL BORDER, MIN 14 GA STEEL BARS ON 3/8" CENTERS, REINFORCED BY STEEL SUPPORTS AT 6' CENTERS, MAX.
12. CONTINUOUS LINEAR SLOTS DIFFUSER W/ INSULATED SUPPLY PLENUMS AS SHOWN ON PLANS. BLANK OFF INACTIVE PORTIONS OF DIFFUSEF
13. EXTRUDED ALUMINUM CONSTRUCTION W/ TWO (2) 1" SLOTS.
14. INCLUDE ALL ALIGNMENT COMPONENTS, END TRIM, & SUPPORTS FOR A CONTINUOUS, NEAT INSTALLATION.
15. AERODYNAMIC PATTERN CONTROLLERS FOR EACH ACTIVE SLOT, CAPABLE OF CONTINUOUS 180° PATTERN ADJUSTMENT.
16. DOUBLE DEFLECTION REGISTER W/ ADJUSTABLE BLADES ON 3/4" CENTERS.
17. OPPOSED BLADE DAMPER.
18. DUCT CONNECTION SIZES AS SHOWN ON PLANS.
19. PERFORMANCE RATED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70-2006.
20. NOMINAL 1 FT LONG SLOT DIFFUSER WITH NUMBER OF 3/4" WIDE SLOTS INDICATED.

BOILER SCHEDULE

TAG	LOCATION	SERVICE	CAPACITY			GAS INPUT		FLUID						MAX OPERATING TEMP. (°F)	MAX WORKING PRESS. (PSI)	ELECTRICAL		OPERATING WEIGHT (LBS.)	BASED ON		REMARKS
			NOM. INPUT MBH	DERATED INPUT MBH	OUTPUT MBH	MIN (IN. WC)	MAX (IN. WC)	TYPE	DESIGN (GPM)	MIN (GPM)	MAX PD (FT.)	EWT (°F)	LWT (°F)			VOLTS / PH / HZ	AMPS		MANUFACTURER	MODEL	
B-1	BOILER ROOM	BUILDING HEATING	1,000	880	785	7"	28"	30% PG	60	12	1	120	150	194	125	115 / 1 / 60	4	2,600	CLEAVER BROOKS	CFC-700-1000	SEE NOTES
B-2	BOILER ROOM	BUILDING HEATING	1,000	880	785	7"	28"	30% PG	60	12	1	120	150	194	125	115 / 1 / 60	4	2,600	CLEAVER BROOKS	CFC-700-1000	SEE NOTES

NOTES:
1. PROVIDE BOILER CONTROL PANEL TO SEQUENCE BOTH BOILERS & CONTROL COMMON SUPPLY WATER TEMPERATURE.
2. PROVIDE DEDICATED COMMUNICATION INTERFACE FOR EACH BOILER PER BAS/BOILER SPECIFICATIONS - LON OR BACNET, COORDINATE W/ CONTROL CONTRACTOR
3. CONTROL CIRCUIT: 115V / 1 PH / 60 HZ, 1.5 AMPS
4. MINIMUM 5 TO 1 TURNDOWN RATIO. MINIMUM FLOW LISTED IS AT MINIMUM FIRING RATE.
5. NOMINAL CAPACITIES DERATED FOR GLYCOL. AT FULL FIRE: MINIMUM 30 PSIG OPERATING PRESSURE, MAXIMUM 40°F TEMPERATURE RISE, MINIMUM 43 GPM.
6. PROVIDE SEPARATE HIGH LIMIT, LOW WATER, AND FLAME FAILURE ALARM INDICIATION AT BOILER PANEL/BAS INTERFACE.
7. PROVIDE BOILER FLUE CONDENSATE DRAIN AND TRAP W/ NEUTRALIZING BASIN.
8. DIRECT VENT COMBUSTION. BOILER FLUE AND COMBUSTION INTAKE DUCT MUST BE REVIEWED AND APP'D BY THE BOILER MFGR.
9. SUITABLE FOR OPERATION W/ 30% PROPYLENE GLYCOL. FOR GLYCOL, ACTUAL MAX INPUT IS DERATED TO APPROX. 88% OF NOMINAL INPUT LISTED ABOVE.

FAN SCHEDULE

TAG	LOCATION	SERVES	DESCRIPTION	FAN DATA					MOTOR DATA			WEIGHT (LBS)	BASED ON		REMARKS
				CFM	ESP	RPM	DRIVE	BHP	HP/AMPS	VOLTS / PH / HZ			MFGR	MODEL	
SF-1	ROOF	AHU-1 SUPPLY	PLENUM	7,600	3.5" TSP	1827	DIRECT	6.1	7-1/2 HP	480 / 3 / 60		SEE AHU SCHED	TRANE	CSAA	1
SF-2	ROOF	AHU-2 SUPPLY	(2) PLENUM FANS	19,000	3.25" TSP	1779	DIRECT	16.1	(2) 10 HP	480 / 3 / 60		SEE AHU SCHED	TRANE	CSAA	1
RF-1	ROOF	AHU-1 EXH/RECIRC	PLENUM	6,600	1.5" TSP	1472	DIRECT	2.8	5.5 HP	480 / 3 / 60		SEE AHU SCHED	TRANE	CSAA	2
RF-2	ROOF	AHU-2 EXH/RECIRC	(2) PLENUM FANS	17,000	1.6" TSP	1231	DIRECT	6.3	(2) 7-1/2 HP	480 / 3 / 60		SEE AHU SCHED	TRANE	SCAA	2
EF-1	ROOF	ELECTRICAL ROOM	DOWNBLAST ROOF EXHAUST	250	0.375"	1681	DIRECT	0.04	1/6	120 / 1 / 60		25	GREENHECK	G-70-VG	4 THRU 12, 18, 19
EF-2	ROOF	MDF ROOM	DOWNBLAST ROOF EXHAUST	1,300	0.375"	1266	DIRECT	0.20	1/2	120 / 1 / 60		75	GREENHECK	G-123-VG	4 THRU 12, 18, 19
EF-3	ROOF	MECH. ROOM	DOWNBLAST ROOF EXHAUST	700	0.375"	1139	DIRECT	0.09	1/4	120 / 1 / 60		70	GREENHECK	G-103-VG	4 THRU 12, 18, 19
EF-4	ROOF	ELEV. MACH. RM	DOWNBLAST ROOF EXHAUST	350	0.375"	1482	DIRECT	0.05	1/6	120 / 1 / 60		35	GREENHECK	G-80-VG	4 THRU 12, 18, 19
EF-5	ROOF	SCIENCE STOR/CLASSRM	DOWNBLAST ROOF EXHAUST	70	0.375"	1010	DIRECT	0.10	0.17	120 / 1 / 60		25	GREENHECK	G-065-VG	4 THRU 12, 19
TE-1	ROOF	TOILETS	DOWNBLAST ROOF EXHAUST	3,000	0.5"	930	DIRECT	0.52	1	120 / 1 / 60		150	GREENHECK	G-183-VG-1	4 THRU 16, 18, 19
HE-1	MAIN ROOF	FOOD PREP, TYPE 2 HOOD	UPBLAST ROOF EXHAUST	1,926	1"	1140	BELT	0.75	3/4	460 / 3 / 60		100	GREENHECK	CUBE-161	4 THRU 10, 19

NOTES
1. AHU SUPPLY FAN MODULE - SEE AHU SCHEDULE & SPECS. PROVIDE FACTORY INSTALLED & WIRED ADJUSTABLE FREQUENCY DRIVE. SP INDICATED IS TOTAL FOR FAN. ESP OF AHU SUPPLY IS 1.5".
2. AHU EXH/RECIRC FAN MODULE - SEE AHU SCHEDULE & SPECS. PROVIDE FACTORY INSTALLED & WIRED ADJUSTABLE FREQUENCY DRIVE. SP INDICATED IS TOTAL FOR FAN. ESP OF AHU RETURN IS 0.5".
3. TOTAL CFM FOR BOTH FANS. (NOT USED)
4. ROOF MOUNTED, SPUN ALUMINUM EXHAUST FAN.
5. BACKWARDLY INCLINED, NON-OVERLOADING, CENTRIFUGAL WHEEL.
6. STATICALLY AND DYNAMICALLY BALANCED.
7. MOTOR MOUNTED OUTSIDE OF AIRSTREAM ON VIBRATION ISOLATORS.
8. 14" HIGH INSULATED ROOF CURB W/ GASKETED CURB SEAL, TO SET FAN LEVEL. COORD W/ ARCH DRAWINGS & DETAILS.
9. ALUMINUM BIRDSCREEN.
10. MOTORIZED BACKDRAFT DAMPER W/ END SWITCH (FOR HOOD EXH HE-1, TO BE ALL ALUMINUM OR STAINLESS STEEL).
11. ELECTRONICALLY COMMUTATED DC MOTOR W/ INTERNAL CIRCUITRY FOR CONVERSION OF SCHEDULED AC POWER.
12. SPEED CONTROLLER INTEGRAL TO ECM DC MOTOR FOR MANUAL BALANCING, MINIMUM 85% MOTOR EFFICIENCY AT ALL SPEEDS.
13. SPEED CONTROLLER INTEGRAL TO ECM DC MOTOR TO RECIEVE 0-10V DC SIGNAL FROM BAS TO RESET MOTOR SPEED, MINIMUM 85% MOTOR EFFICIENCY AT ALL SPEEDS.
14. FORWARD-CURVED DIRECT-DRIVE CENTRIFUGAL FAN, STATICALLY & DYNAMICALLY BALANCED, GALVANIZED STEEL WHEEL & SCROLL.
15. GALVANIZED STEEL CABINET W/ ACOUSTICAL LINING, ACCESS PANEL, GALV STEEL DUCT COLLAR OUTLET W/ ALUMINUM BACKDRAFT DAMPER.
16. PERMANENTLY LUBBRICATED MOTOR MOUNTED ON VIBRATION ISOLATORS, W/ INTERNAL PLUG-IN TYPE MOTOR DISCONNECT.
17. INTEGRAL ALUMINUM INLET GRILLE. (NOT USED)
18. THERMOSTATICALLY CONTROLLED. COORDINATE W/ BAS.
19. AMCA CERTIFIED, UL LISTED

DUAL TEMPERATURE HEATING/COOLING COIL SCHEDULE

TAG	SERVES	LOCATION	SERVICE	TOTAL MBH	MIN. SENS. MBH	COIL CFM	COIL DATA				COIL AIR DATA					FLUID DATA						BASED ON		REMARKS
							FACE AREA (SQ FT)	MAX FACE VEL (FPM)	ROWS	FPI	EAT		LAT		MAX PD (IN. W.C.)	FLUID	GPM	EWT °F	LWT °F	VEL (FT/S)	MAX PD (FT.)	MANUFACTURER	MODEL	
											DB °F	WB °F	DB °F	WB °F										
DTC-1	AHU-1	ROOF	HEATING	-	329	7,600	16.8	453	8	7.8	40.0	-	80.0	-	0.73"	30% PG	20	100.0	65.0	0.77	1.6	TRANE	CSAA - 017	
			COOLING	340	218						81.0	69.0	55.5	54.9			52	44.0	58.0	2.00	8.4			
DTC-2	AHU-2	ROOF	HEATING	-	824	19,000	38.5	493	8	6.6	40.0	-	80.0	-	0.59"	30% PG	47	100.0	64.0	0.58	1.1	TRANE	CSAA - 040	
			COOLING	723	485						81.0	69.0	56.8	56.3			111	44.0	58.0	1.60	6.2			

REMARKS

HOT WATER CABINET UNIT HEATER SCHEDULE (30% PROP. GLYCOL)

TAG	LOCATION	TYPE	HEATING COIL							FAN		ELECTRICAL		NOMINAL DIMENSIONS			BASED ON			REMARKS
			MBH	EAT °F	LAT °F	EWT °F	LWT °F	GPM	MAX PD (FT HD)	CFM (HI SPD)	RPM (HI SPD)	AMPS	VOLTS /PH / HZ	L (IN.)	H (IN.)	D (IN.)	MANUFACTURER	MODEL	SIZE	
CUH-1	VESTIBULE #9	RECESSED CEIL. MTD.	56.6	60	109.2	150	105	2.7	2"	1060	1050	2.2	115 / 1 / 60	66.0	25.0	9.5	STERLING	RC-1200	10	1 THRU 11
CUH-2	VESTIBULE #7	RECESSED CEIL. MTD.	56.6	60	109.2	150	105	207.0	2"	1060	1050	2.2	115 / 1 / 60	66.0	25.0	9.5	STERLING	RC-1200	10	1 THRU 11
CUH-3	STAIR #1	WALL. MTD.	56.6	60	109.2	150	105	2.7	2"	1060	1050	2.2	115 / 1 / 60	66.0	25.0	9.5	STERLING	FS-1005	10	1 THRU 11
CUH-4	STAIR #2	WALL. MTD.	25.7	60	115.2	150	121	1.9	2"	430	1050	1.4	115 / 1 / 60	47.0	25.0	9.5	STERLING	RC-1200	04	1 THRU 11
CUH-5	VESTIBULE #5	RECESSED CEIL. MTD.	56.6	66	109.2	150	105	2.7	2"	1060	1050	2.2	115 / 1 / 60	66.0	25.0	9.5	STERLING	RC-1200	10	

1. HIGH CAPACITY 2-ROW COPPER TUBE COIL W/ MECHANICALLY BONDED ALUMINUM FINS, 12 FPI, 1/2" TUBES, SUBMERSION TESTED AT 250 PSI
2. WASHABLE ALUMINUM FILTERS W/ 69% ARRESTANCE, SLIDE IN RACK, LOCKABLE POSITION
3. DIRECT DRIVE CENTRIFUGAL FANS, GALVANEAL, DOUBLE WIDTH, FORWARD CURVED WHEEL W/ GALVANIZED STEEL HOUSINGS
4. PERMANENT SPLIT CAPACITOR MOTORS W/ INTEGRAL THERMAL PROTECTION, SPEED SWITCH FOR FIELD MOUNTING IN UNIT
5. FACTORY INSTALLED INTERNAL WIRING
6. CSA CERTIFIED
7. FINISH COLOR AS SELECTED BY ARCHITECT
8. REMOTE LINE VOLTAGE THERMOSTAT TO CYCLE FAN, W/ HEAVY-DUTY LOCKING COVER
9. PROVIDE CEILING TRIM KIT
10. PROVIDE CEILING PANEL WITH DISCHARGE & RETURN AIR GRILLES, HINGE ACCESS SERVICE PANEL
11. PROVIDE ALL HANGERS AND SUPPORTS
12. PROVIDE LOWER FRONT R.A. GRILLE

PUMP SCHEDULE

TAG	LOCATION	SERVICE	TYPE	FLUID	GPM	HEAD (FT.)	IMPELLER (IN.)	MOTOR DATA				BASED ON		REMARKS
								RPM	HP	BHP	VOLTS / PH / HZ	MANUFACTURE	MODEL	
P-1	MEP 149	DUAL TEMP PRIMARY	BASE-MOUNTED	30% PG	163	70	9	1750	5.0	3.94	480 / 3 / 60	BELL & GOSSETT	E1510 - 2 BC	1, 2
P-2	MEP 149	DUAL TEMP PRIMARY	BASE-MOUNTED	30% PG	163	70	9	1750	5.0	3.94	480 / 3 / 60	BELL & GOSSETT	E1510 - 2 BC	1, 2
CP-1	MECH/UTILITY 243	COIL PUMP, AHU-1	IN-LINE	30% PG	20	12	4.125	1750	1/4	0.15	120 / 1 / 60	BELL & GOSSETT	60 - 1x1 x 5-3/4	
CP-2	MECH/UTILITY 243	COIL PUMP, AHU-2	IN-LINE	30% PG	47	17	3.875	1725	1/2	0.29	120 / 1 / 60	BELL & GOSSETT	E-90 - 2AA	

NOTES
1. PROVIDE VFD
2. ONE (1) OPERATING, ONE (1) STANDBY

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX
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LEED CONSULTANT

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ISSUANCE

MARK	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	10/25/2016
2	ISSUED FOR DESIGN DEVELOPMENT	12/06/2016
3	ISSUED FOR 60% REVIEW	01/31/2017
4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	16538 M8.2

TITLE
MECHANICAL SCHEDULES

SHEET
M8.2

HOT WATER RADIANT CEILING PANEL SCHEDULE (30% PROP. GLYCOL)

TAG	LOCATION	NOMINAL PANEL SIZE	CAPACITY DATA			NO. COPPER TUBES	PANEL TYPE	CEILING TYPE	BASED ON		REMARKS
			BTUH	AWT °F	GPM				MFGR	MODEL	
RP-3	BOY'S TOILET 219	10" x 120"	1,020	135	0.3	2	ALUMINUM	GYP. BOARD	AIRTEX	HEF-2	1 THRU 6
RP-4	GIRL'S TOILET 217	10" x 120"	1,020	135	0.3	2	ALUMINUM	GYP. BOARD	AIRTEX	HEF-2	1 THRU 6
RP-5	LIBRARY 120	10" x 120"	1,020	135	0.3	2	ALUMINUM	GYP. BOARD	AIRTEX	HEF-2	1 THRU 6
RP-6	LIBRARY 120	10" x 120"	1,020	135	0.3	2	ALUMINUM	GYP. BOARD	AIRTEX	HEF-2	1 THRU 6
RP-7	LIBRARY 120	10" x 120"	1,020	135	0.3	2	ALUMINUM	GYP. BOARD	AIRTEX	HEF-2	1 THRU 6
RP-8	LIBRARY 120	10" x 120"	1,020	135	0.3	2	ALUMINUM	GYP. BOARD	AIRTEX	HEF-2	1 THRU 6
RP-9	LIBRARY 120	10" x 120"	1,020	135	0.3	2	ALUMINUM	GYP. BOARD	AIRTEX	HEF-2	1 THRU 6
RP-10	LIBRARY 120	10" x 120"	1,020	135	0.3	2	ALUMINUM	GYP. BOARD	AIRTEX	HEF-2	1 THRU 6

NOTES:
1. HEATING DATA BASED ON 30% GLYCOL SOLUTION, 135°F AVERAGE WATER TEMPERATURE (AWT), MINIMUM 0.6 FPS TUBE VELOCITY
2. COVER TOPS OF ALL RADIANT HEATING PANELS WITH FIBERGLASS BATT INSULATION, MIN R-11.
3. DIMENSIONS GIVEN ARE NOMINAL - CONTRACTOR TO VERIFY EXACT DIMENSIONS AGAINST AVAILABLE SPACE
4. PROVIDE MULTIPLE SECTIONS WHERE REQ'D, INCLUDE ALL ACCESSORIES & TRIM TO OBTAIN A NEAT, CONTINUOUS APPEARANCE ALONG WALL.
5. PROVIDE ALL EDGE TRIM REQUIRED FOR INSTALLATION IN GYP BOARD CEILING CONSTRUCTION.
6. PANELS SHALL BE INDEPENDENTLY SUSPENDED, BUT SECURED TO CEILING.

FAN COIL SCHEDULE (ART ROOM)

30% PROPYLENE GLYCOL

TAG	NOMINAL CFM	OUTSIDE AIR MAX/MIN (CFM)	HEATING CAPACITY BASED ON 180° F-160° F				COOLING COIL DATA BASED ON 42° F-54° F WATE						ELECTRICAL		MAKE & MODEL NO.	REMARKS
			TOTAL (MBH)	EAT/LAT (°F)	PRESS DROP (FT)	GPM	CAPCACITY TOTAL MBH	CAPCACITY SENS MBH	EAT DB/WB (°F)	LAT DB/WB (°F)	GPM	PRESS. DROP (FT)	MOTOR (HP)	V / PH / HZ		
FC-2	1500	0	-	-	-	-	35.6	26.2	76/63	58/54	7.6	7.9	1/4	120 / 1 / 60	AAF-AVS15	1,2,3,4,5,6,7,8

1. PROVIDE ELECTRIC DDC WATER 2-POSITION ON-OFF CONTROL VALVE AND RETURN AIR DAMPERS
2. PROVIDE KEYED OPERATED ACCESS TO ALL INTERNAL COMPONENTS FOR SERVICING
3. PROVIDE WITH 3 SPEED MOTOR AND 5 ROW DUAL TEMPERATURE COIL
4. CABINETS - 16 GAUGE WITH - 1" - 1 1/2 LB/CU.FT. INSULATION
5. 1" -DISPOSABLE FILTERS PROVIDE (1) EXTRA SET OF FILTERS/UNIT
6. PROVIDE MATCHING CABINET EXTENSION PIECES & TRIM WHERE INDICATED ON PLANS.
7. FLOOR UNIT W/ TOP DISCHARGE, BOTTOM RETURN, NO OUTSIDE AIR ON UNIT.
8. UNIT TO BE 21" DEEP WITH MATCHING CABINET SECTIONS TO BE PROVIDED TO CONCEAL PIPING FROM RISERS TO UNIT.

HOT WATER UNIT HEATER SCHEDULE (30% PROP. GLYCOL)

TAG	LOCATION	TYPE	HEATING COIL						FAN		ELECTRICAL		UNIT HEATER			BASED ON			REMARKS
			MBH	EAT °F	LAT °F	EWT °F	LWT °F	GPM	MAX PD (FT HD)	CFM (HI SPD)	RPM (HI SPD)	AMPS	VOLTS /PH / HZ	H (IN.)	W (IN.)	D (IN.)	MANUFACTURER	MODEL	SIZE	
UH-1	STORAGE RM 241	SUSPENDED	13.1	60	92	150	139	2.5	2'	580	1550	1.2	115 / 1 / 60	24.0	15.0	9.0	STERLING	HS-125A	-	1 THRU 5
UH-2	WATER METER RM 127A	SUSPENDED	9.7	60	78	150	139	1.9	2'	500	1550	0.8	115 / 1 / 60	18.0	15.0	9.0	STERLING	HS-118A	-	1 THRU 5

1. FACTORY INSTALLED INTERNAL WIRING
2. CSA CERTIFIED
3. PROVIDE HANGER RODS.
4. PROVIDE UNIT WITH WIRE FAN GUARD & ADJUSTABLE DISCHARGE LOUVER
5. PROVIDE REMOTE LINE VOLTAGE THERMOSTAT TO CYCLE FAN, W/ HEAVY-DUTY LOCKING COVER

SOUND ATTENUATOR SCHEDULE

TAG	SYSTEM	TYPE	MAX CFM	MIN OVERALL FACE	MAX FACE VELOCITY FPM	MAX PRESS DROP	NOMINAL SIZE W	H	CL L	INSERTION LOSS (dB) / MAX SELF-NOISE POWER (dB) 1	2	3	4	5	6	7	8	BASED ON MFGR	MODEL	REMARKS
										65	125	250	500	1K	2K	4K	8K			
SA-1	AHU-1 SUPPLY	ELBOW	7,600	28"x28"	1,433	0.24"WC	28	28	36	6	8	12	15	16	15	12	4	PRICE	RHT 36/8E	1 THRU 9
										54	41	37	36	41	42	42	38			
SA-2	AHU-1 RETURN	ELBOW	7,600	28"x28"	1,433	0.24"WC	28	28	38	9	13	15	16	21	23	19	13	PRICE	ERMT 38/8C	1 THRU 9
										56	49	44	33	44	42	44	36			
SA-6	AHU-2 RETURN	ELBOW	19,000	66"x30"	1,309	0.21"WC	66	30	72	11	17	24	29	38	45	35	20	PRICE	ERMT 72/2C	1 THRU 10
										58	51	45	34	46	45	45	37			
SA-7	CLASSROOM VAV TERMINAL	STRAIGHT	1,500	18"x12"	1,000	0.05"WC	18	12	36	8	10	11	15	15	12	12	9	PRICE	RLT 36/WD	1 THRU 7
										49	33	34	38	39	38	34	27			
SA-8	CLASSROOM VAV TERMINAL	STRAIGHT	1,900	20"x14"	1,000	0.05"WC	20	14	36	8	10	11	14	13	14	12	9	PRICE	RLT 36/XD	1 THRU 7
										48	31	33	37	38	37	32	25			

1. ENCAPSULATED FIBER FILLER MATERIAL W/ ACOUSTICAL STANDOFF, PACKED UNDER COMPRESSION AS REQ'D TO PREVENT VOIDS FROM VIBRATION AND SETTLING.
2. AERODYNAMIC ENTRANCE AND EXIT SHAPES TO MINIMIZE PRESSURE DROP AND SELF NOISE.
3. 18 GA GALVANIZED STEEL OUTER CASING.
4. 22 GA GALVANIZED STEEL PERFORATED SHEET INTERIOR BAFFLES SECURELY ATTACHED TO CASING.
5. PROVIDE ACCESS DOORS IN DUCTWORK UPSTREAM AND DOWNSTREAM OF ATTENUATORS.
6. ACOUSTICAL RATINGS DETERMINED IN ACCORDANCE W/ ASTM E477 IN NVLAP ACCREDITED TEST FACILITY.
7. PRESSURE DROP RATINGS IN ACCORDANCE WITH ASTM E477 AND APPLICABLE PARTS OF ASME, AMCA, AND ADC AIRFLOW TEST PROCEDURES.
8. RADIUS DESIGN INTERIOR BAFFLES TO PROVIDE UNIFORM ELBOW AIRWAY.
9. LENGTH LISTED IS DEVELOPED CENTERLINE DIMENSION.
10. VERTICAL LEG TO BE SHORTER THAN HORIZONTAL AS REQUIRED TO FIT IN AVAILABLE CEILING SPACE.

REFRIGERATION SCHEDULE

TAG	QTY	TONS EACH	LOCATION	USE	MANUFACTURER	TYPE	NUMBER	TONS	H.P.	TYPE	NO. CKTS	TOTAL LBS	SYSTEM	COOLED
CH-1	1	90	OUTSIDE ON GRADE	A/C	YORK	SCROLL	6	(6)@15	(6)@15	R-410A	2	114.0	PACKAGED	AIR
FC-1/CU-1	1	2	ROOM 225A / ROOF	A/C	CARRIER	SCROLL	1	2	2	R-410A	1	7.3	SPLIT SYSTEM	AIR
FS-1/02	2	1/4	KITCHEN	REFRIGERATION	TRUE	HERMETIC	1	1/4	0.25	R-290	1	2.5 OZ	SELF CONTAINED	AIR
FS-1/03	2	1/4	KITCHEN	REFRIGERATION	RANDELL	HERMETIC	1	1/4	0.25	R-404A	1	12.0 OZ	SELF CONTAINED	AIR
FS-1/09	2	1/3	KITCHEN	REFRIGERATION	TRUE	HERMETIC	1	1/3	0.33	R-134A	1	13.0 OZ	SELF CONTAINED	AIR
FS-1/26	1	1/2	KITCHEN	REFRIGERATION	NOR-LAKE	HERMETIC	1	1/2	0.5	R-404A	1	89 OZ	SELF CONTAINED	AIR
FS-1/27	1	1	KITCHEN	REFRIGERATION	NOR-LAKE	HERMETIC	1	1	1.0	R-404A	1	142.0 OZ	SELF CONTAINED	AIR
FS-1/33	2	1/2	KITCHEN	REFRIGERATION	TRUE	HERMETIC	2	1/2	0.5	R-134A	1	13.0 OZ	SELF CONTAINED	AIR

REFRIGERATION NOTES:
1. REFRIGERANT PIPING SHALL BE HARD DRAWN COPPER TYPE K OR TYPE ACR; FITTINGS SHALL BE SOCKET-TYPE JOINED BY BRAZING.
2. NO REFRIGERANT VALVES OR CONNECTIONS SHALL BE LOCATED IN AIR STREAM OF AIR CONDITIONING SYSTEM.
3. PRESSURE RELIEF VALVE SHALL BE INSTALLED ON HIGH PRESSURE SIDE OF SYSTEM, UPSTREAM OF ANY INTERVENING VALVES.
4. REFRIGERANT SYSTEMS THAT ARE UL 1995 APPROVED AND CONTAIN LESS THAN 6 LBS OF A GROUP 2 REFRIGERANT, OR 30 LBS OR LESS OF A GROUP 1 REFRIGERANT DO NOT REQUIRE A PRESSURE RELIEF DEVICE.

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX

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CHICAGO, ILLINOIS
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THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE APPLICABLE CODES AND BUILDING REGULATIONS.

ALPHONSE A. ILEKIS, AIA

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ISSUANCE

MARK	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	10/25/2016
2	ISSUED FOR DESIGN DEVELOPMENT	12/06/2016
3	ISSUED FOR 60% REVIEW	01/31/2017
4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

DRAWN BY: ILEKIS ASSOCIATES
SCALE: SEE DRAWING
PROJ. NAME: BYRNE ANNEX
PROJECT #: 1618-01
FILE: 16538 M8.3

TITLE
MECHANICAL SCHEDULES

SHEET
M8.3

FOOTING SCHEDULE

F'c = 4000 PSI
ALLOWABLE BEARING = 3500 PSF

MARK TYPE	SIZE	DEPTH	REINFORCING	FOOTING CAPACITY (KIPS)	REMARKS
F3	3'-0" x 3'-0"	1'-0"	(4) - #5 E.W.	27	
F4	4'-0" x 4'-0"	1'-0"	(5) - #5 E.W.	48	
F4M	4'-0" x 4'-0"	1'-0"	(5) - #5 E.W.	48	NOTE 2
F4.5M	4'-6" x 4'-6"	1'-0"	(6) - #5 E.W.	61	NOTE 2
F5	5'-0" x 5'-0"	1'-0"	(6) - #5 E.W.	75	
F5M	5'-0" x 5'-0"	1'-0"	(6) - #5 E.W.	75	NOTE 2
F6M	6'-0" x 6'-0"	1'-3"	(7) - #6 E.W.	108	NOTE 2
F6.5	6'-6" x 6'-6"	1'-3"	(8) - #6 E.W.	127	
F6.5M	6'-6" x 6'-6"	1'-3"	(8) - #6 E.W.	127	NOTE 2
F7	7'-0" x 7'-0"	1'-3"	(8) - #6 E.W.	147	
F7M	7'-0" x 7'-0"	1'-3"	(8) - #6 E.W.	147	NOTE 2
F7.5	7'-6" x 7'-6"	1'-6"	(9) - #6 E.W.	169	
F7.5M	7'-6" x 7'-6"	1'-6"	(9) - #6 E.W.	169	NOTE 2
F8	8'-0" x 8'-0"	1'-6"	(9) - #6 E.W.	192	
F8.5	8'-6" x 8'-6"	1'-6"	(10) - #7 E.W.	217	

NOTES: 1. SEE 8/S3-1 FOR TYPICAL SPREAD FOOTING DETAIL.
2. M - INDICATES INTEGRAL WITH WALL FOOTING.

WALL FOOTING SCHEDULE

F'c = 4000 PSI
ALLOWABLE BEARING = 3500 PSF

FOOTING WIDTH	DEPTH	REINFORCING		REMARKS
		SHORT-WAY	LONG-WAY	
UP TO 2'-0" TYP.	1'-0"	#5 AT 12" O.C.	(3) - #5 CONT.	
> 2'-0" - 3'-0" TYP.	1'-0"	#5 AT 12" O.C.	(4) - #5 CONT.	
> 3'-0" - 4'-0" TYP.	1'-0"	#5 AT 12" O.C.	(5) - #5 CONT.	

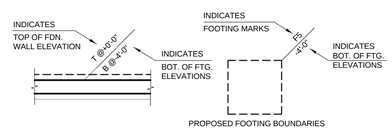
FOUND. WALL REINF. SCHEDULE

F'c = 4000 PSI

WALL THICKNESS	WALL REINFORCING		REMARKS
	VERTICAL	HORIZONTAL	
UP TO 0'-8" TYP.	#4 AT 12" O.C. (ONE LAYER)	#4 AT 12" O.C. (ONE LAYER)	CENTERED
> 0'-8" - 1'-2" TYP.	#4 AT 12" O.C. (TWO LAYERS)	#4 AT 12" O.C. (TWO LAYERS)	ONE LAYER EA. FACE
> 1'-2" - 1'-9" TYP.	#5 AT 12" O.C. (TWO LAYERS)	#5 AT 12" O.C. (TWO LAYERS)	ONE LAYER EA. FACE

TESTING AGENCY TO VERIFY 3500PSF ALLOWABLE BEARING CAPACITY AT BOTTOM OF FOOTING ELEVATION PRIOR TO FOUNDATION CONSTRUCTION

ALL UNSUITABLE SOIL TO BE REMOVED AND REPLACED PER SOILS REPORT (REFERENCE SOIL BORING LOG FOR ESTIMATED LOCATIONS AND ELEVATIONS)



FOOTING AND FOUNDATION LEGEND

A FOUNDATION AND FIRST FLOOR PLAN

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

0' 16'

B UPPER FIRST FLOOR FRAMING PLAN (PARTIAL)

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

0' 16'

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX
5329 S. OAK PARK AVE.,
CHICAGO, IL
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO
MAYOR RAHM EMANUEL

ILEKIS ASSOCIATES
Architects • Planners
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Chicago, Illinois 60606
MAIN: 312-419-9009
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Architect of Record

HYDRO-THERMO-POWER INC.
CHICAGO, ILLINOIS
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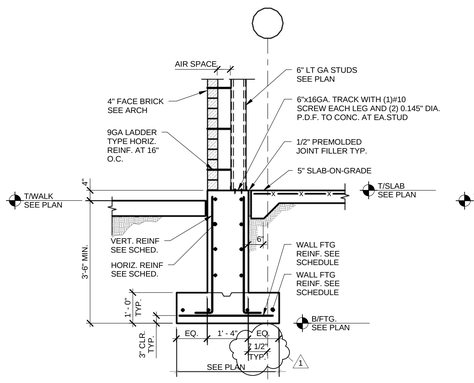
9		
10		

DRAWN BY: ILEKIS ASSOCIATES
SCALE: SEE DRAWING
PROJ. NAME: BYRNE ANNEX
PROJECT #: 1618-01
FILE:

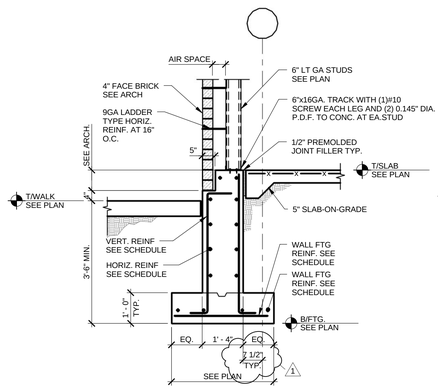
TITLE
FOUNDATION AND FIRST FLOOR PLAN

SHEET
S2-1



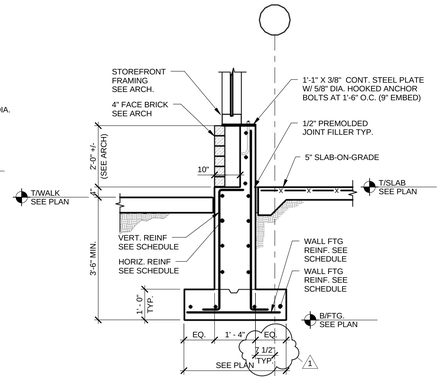
1 TYPICAL FOUNDATION WALL SECTION

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



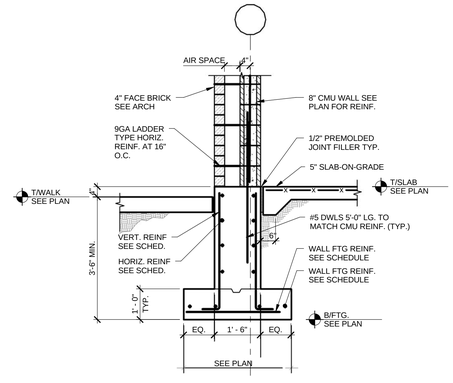
2 TYPICAL FOUNDATION WALL SECTION AT DEPRESSED GRADE

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



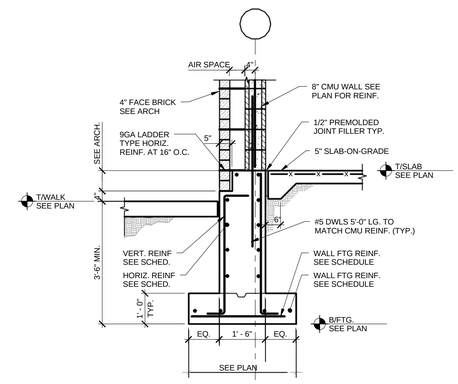
3 TYPICAL FOUNDATION WALL SECTION AT STOREFRONT SYSTEM

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



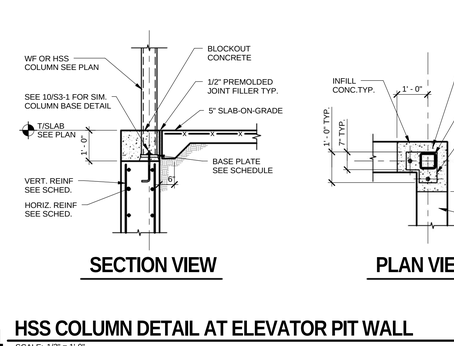
4 TYP. FOUNDATION WALL SECTION WITH CMU EXTERIOR WALL

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



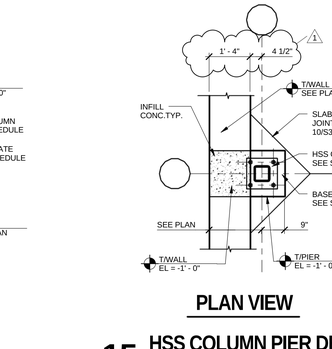
5 TYPICAL FOUNDATION WALL SECTION AT DEPRESSED GRADE WITH CMU

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



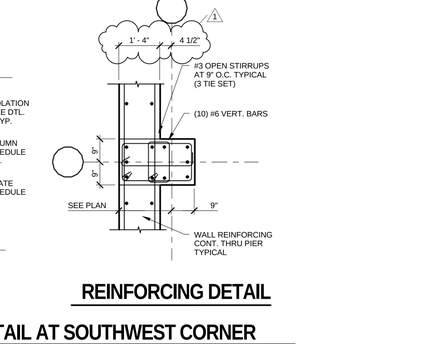
6 TYP. EXTERIOR FOUNDATION WALL SECTION AT CONCRETE STAIR WALL

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



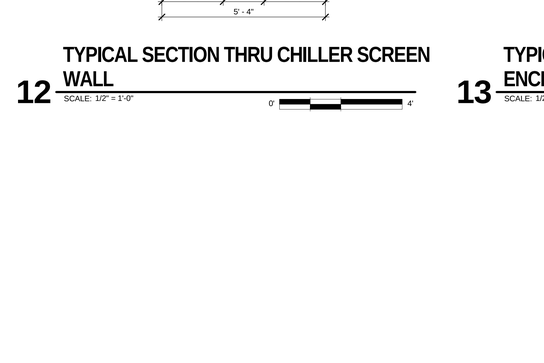
7 TYP. INTERIOR FOUNDATION WALL SECTION AT CONCRETE STAIR WALL

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



8 TYPICAL SECTION THRU NORTH WALL OF CHILLER ENCLOSURE

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



9 NORTH-SOUTH SECTION THRU ELEVATOR PIT

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

10 TYPICAL FOUNDATION WALL SECTION AT VESTIBULE STOREFRONT SYSTEM

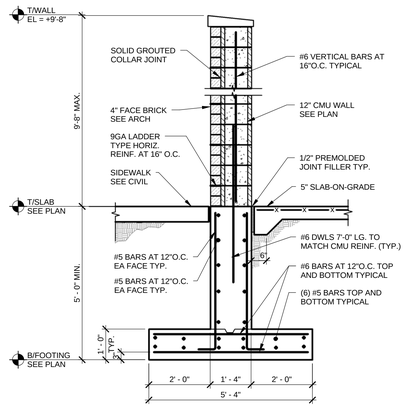
SCALE: 1/2" = 1'-0"

11 TYPICAL COLUMN SPREAD FOOTING DETAIL AT EXTERIOR WALL

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

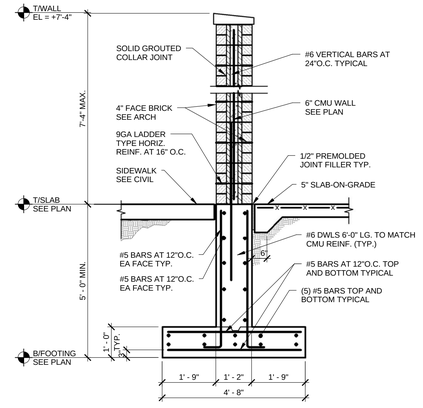
12 TYPICAL SECTION THRU CHILLER SCREEN WALL

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



13 TYPICAL SECTION THRU TRASH ENCLOSURE SCREEN WALL

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



14 TYPICAL SECTION THRU CHILLER SCREEN WALL

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

15 HSS COLUMN DETAIL AT ELEVATOR PIT WALL

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

15 HSS COLUMN PIER DETAIL AT SOUTHWEST CORNER

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

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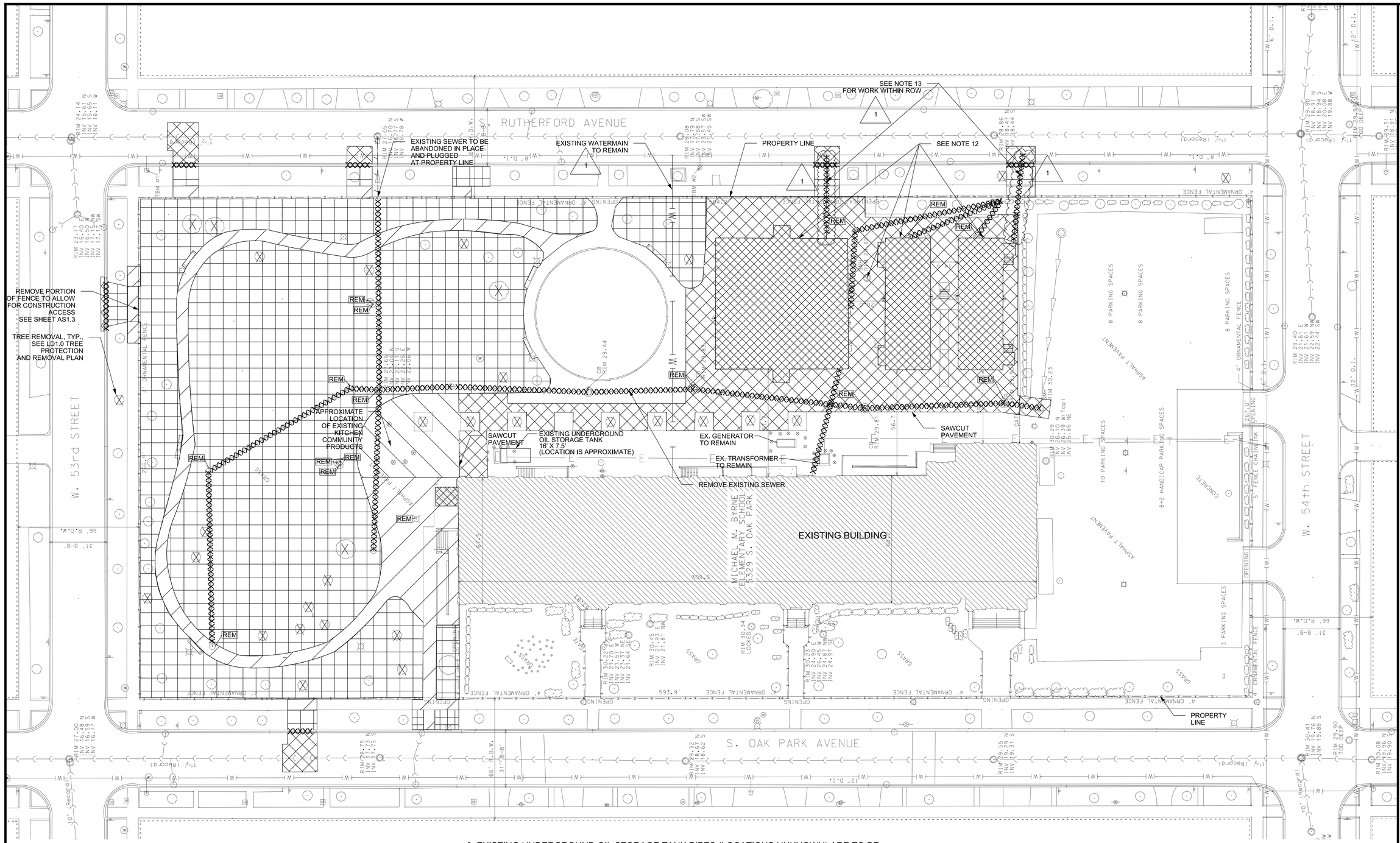
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	

TITLE

FOUNDATION DETAILS

SHEET

S3-2



NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DAMAGE TO EXISTING BUILDING, UTILITIES, AND OTHER INFRASTRUCTURE TO REMAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

2. CONTRACTOR TO SALVAGE EXISTING LIGHT POLES AND FIXTURES WITHIN THE PROJECT LIMITS WHICH ARE IN GOOD CONDITION AND SUBSEQUENTLY RE-LAMP, RE-WIRE, AND RE-USE ON SITE. SEE SHEET C-006.

3. CONTRACTOR TO REMOVE ALL BENCHES, TRASH RECEPTICLES, BOULDERS, AND CURVILINEAR PLANTERS WITHIN THE PROJECT LIMITS AND SALVAGE FOR REINSTALLMENT.

4. CONTRACTOR SHALL REMOVE, SALVAGE, PROTECT, AND THEN RELOCATE AND REINSTALL EXISTING THE KITCHEN COMMUNITY PRODUCTS INCLUDING THE RAISED PLANTER BEDS, BENCHES, AND BOULDERS. CONTRACTORS SHALL REMOVE PLANTING SOIL PRIOR TO DISASSEMBLING THE RAISED PLANTER BEDS, KEEP IT SEGREGATED AND PROTECTED FROM CONSTRUCTION DEBRIS, AND REINSTALL IT IN THE RAISED PLANTER BEDS UPON THEIR RELOCATION AND REINSTALLATION PER THE LANDSCAPE PLANS.

5. CONTRACTOR SHALL REMOVE AND DISPOSE OF THE KITCHEN COMMUNITY 'ART POLES' BUT SALVAGE AND PROTECT THE 'ART LEAVES' FOR PICK-UP BY THE KITCHEN COMMUNITY. NOTIFY KALLE WATERHOUSE KALLE@TKC.ORG WHEN THE ART LEAVES' ARE READY FOR PICK-UP.

6. EXISTING UNDERGROUND OIL STORAGE TANK PIPES (LOCATIONS UNKNOWN) ARE TO BE REMOVED AND DISPOSED OF PER STATE AND FEDERAL REQUIREMENTS. CLEAN UP IS TO FOLLOW STATE AND FEDERAL REQUIREMENTS. SEE ENVIRONMENTAL SHEETS.

7. CONTRACTOR TO USE EXTREME CAUTION WHILE EXCAVATING AS THERE MAY BE ABANDONED GAS LINES ON SITE.

8. OVERHEAD LINE THAT SERVICES MODULAR UNITS TO BE DEMOLISHED.

9. LIGHT POLE CIRCUITS TO BE REMOVED.

10. INSTALLATION OF CONSTRUCTION FENCING AND TREE PROTECTION FENCING IS TO BE COMPLETED BY CONTRACTOR. CONTRACTOR SHALL INSTALL CONSTRUCTION FENCING AND TREE PROTECTION FENCING PRIOR TO START OF CONSTRUCTION AND DEMOLITION. SEE LD1.0 TREE PROTECTION AND REMOVAL PLAN.

11. CONTRACTOR TO REPAIR PAVEMENT TO EXISTING CONDITIONS.

12. ASSUME 100' SANITARY AND 100' STORM REMOVAL FOR MODULAR UNITS. ABANDON AT PROPERTY LINE. CONTRACTOR TO VERIFY IN FIELD.

13. DWM PERSONNEL WILL PROVIDE LABOR FOR THE PIPE WORK ASSOCIATED WITH THE TERMINATION OF THE TWO 4-INCH EXISTING WATER SERVICES ON THE MAIN ON S. RUTHERFORD AVE. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING THE PIPE CONNECTION AT THE MAIN, THE REMOVAL OF ALL EXISTING PIPE; REMOVAL AND RESTORATION OF PAVEMENT, CURB & GUTTER, SIDEWALK, AND PARKWAY; ALL MAINTENANCE OF TRAFFIC; AND EXCAVATION/BACKFILLING TO CDOT STANDARDS WITHIN THE ROW. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS, PERMIT FEES, AND FEE FOR DWM'S WORK.

1

LEGEND

- BUILDING DEMOLITION
- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- CLEAR/GRUB VEGETATION AND/OR EXCAVATION
- SALVAGE THE KITCHEN COMMUNITY PRODUCTS
- TREE REMOVAL
- XXXXXXXXXXXXX LINEAR DEMOLITION
- ABANDON IN PLACE
- REM STRUCTURE REMOVAL

N

SCALE: 1" = 20'

0 20 40 60

SCALE IN FEET

CITY REVIEW

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THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE APPLICABLE CODES AND BUILDING REGULATIONS.

ALPHONSE A. ILEKIS, AIA

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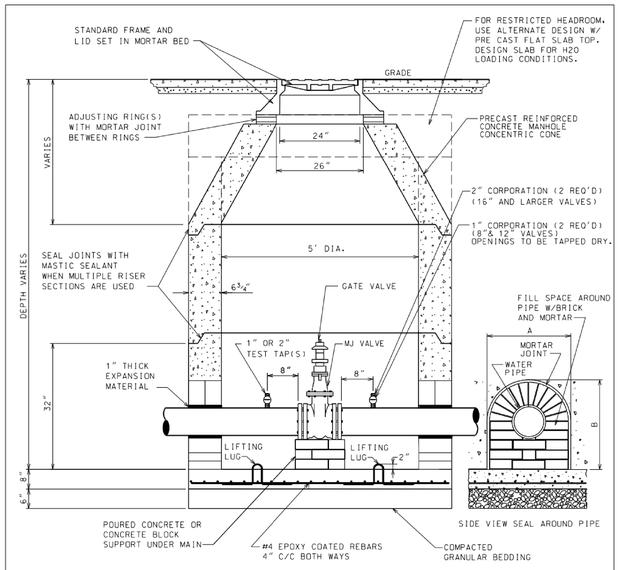
DRAWN BY:	ILEKIS ASSOCIATES
SCALE:	SEE DRAWING
PROJ. NAME:	BYRNE ANNEX
PROJECT #:	1618-01
FILE:	

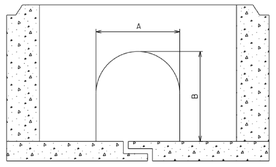
TITLE

DEMOLITION PLAN

SHEET

C-002



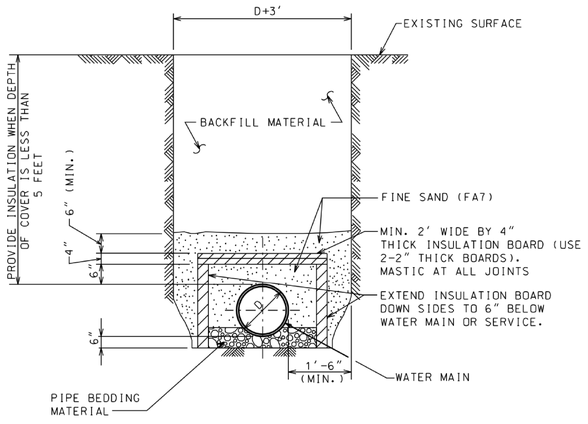


OPTIONAL SPLIT BOTTOM

NOMINAL PIPE SIZES	OPENING DIMENSIONS	
	A	B
8"	11.0"	12.5"
12"	15.5"	16.5"
16"	19.5"	21.0"

PRECAST VALVE BASIN FOR PIPES UP TO 16" DIA.

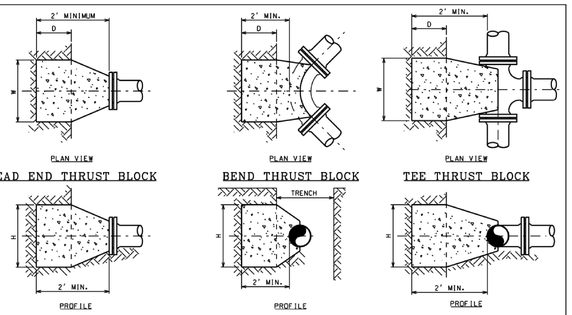
REV:09.15 D-13



NOTES:

1. INSULATION BOARD TO BE CLOSED CELL, EXTRUDED POLYSTYRENE FOAM MEETING ASTM 578, TYPE VI, 40 PSI COMPRESSING STRENGTH (ASTM D1621) 0.1% MAX. WATER ABSORPTION (ASTM C272).
2. BACKFILL MATERIAL AROUND INSULATION MUST BE FINE SAND FREE FROM ROOTS, ORGANIC MATTER, OR OTHER INJURIOUS MATERIALS.
3. OVERLAP ALL INSULATION BOARD JOINTS.

REV:04.07 WATER MAIN TRENCH INSULATION DETAIL D-9



HORIZONTAL THRUST BLOCK DETAILS

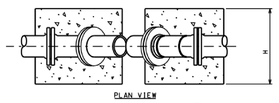
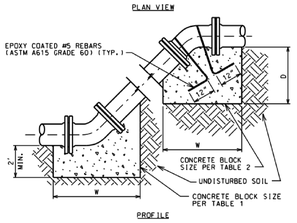


TABLE 1

PIPE SIZE	DEAD END & TEE				HORIZONTAL ¼ BEND				HORIZONTAL ⅛ BEND			
INCH DIA.	D	H	W	CY	D	H	W	CY	D	H	W	CY
16	1	5.5	4.5	2	1	6.5	5	2.5	1	4.5	4	1.5
12	1	3.5	3.5	1	1	4	4	1.5	1	3	3	.75
8	.5	2.5	2.5	.5	.5	3	3	.5	.5	2	2	.3

PIPE SIZE	HORIZONTAL 1/16 BEND				HORIZONTAL 1/32 BEND			
INCH DIA.	D	H	W	CY	D	H	W	CY
16	1	3.5	3.5	1	1	2.5	2.5	.6
12	1	2.5	2.5	.5	1	2	2	.4
8	.5	1.5	1.5	.25	.5	1.5	1.5	.25



PROFILE

VERTICAL THRUST BLOCK DETAILS

TABLE 2

PIPE SIZE	VERTICAL ⅛ BEND				VERTICAL ⅛ BEND BOTTOM			
INCH DIA.	D	H	W	CY	D	H	W	CY
16	7	6	6	11	2	4.5	4	2.25
12	5	6	5	7	2	3	3	1
8	4.5	4	4	3.5	2	2	2	.5

D IS THE DIMENSION INTO UNDISTURBED GROUND IN FEET
H IS HEIGHT OF THRUST BLOCK IN FEET
W IS WIDTH OF THRUST BLOCK IN FEET
ALL DIMENSIONS ARE MINIMUM.
THRUST BLOCKS IN LOOSE FILL OR SAND AREAS ARE NOT INCLUDED IN THESE TABLES AND WILL REQUIRE ADDITIONAL ANALYSIS.

NOTES:

1. FULL CONCRETE THRUST BLOCKS AS SHOWN ARE REQUIRED WHEN THRUST RESTRAIN IS NOT PROVIDED BY OTHER MEANS SUCH AS RESTRAINED JOINT PIPE.
2. WHEN THRUST RESTRAINT GLANDS ARE INSTALLED FOR THE CONNECTIONS, CONCRETE THRUST BLOCKS SHALL BE PROVIDED UP TO THE THE DOTTED LINE AS SHOWN.
3. ALL BOLTS, NUTS, THRUST RESTRAINT GLANDS AND FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE TUBING TO PREVENT CORROSION AND CONCRETE ADHESION.
4. CONCRETE FOR THRUST BLOCKS MUST NOT CONTAIN FLY ASH.

THRUST RESTRAINT CONCRETE THRUST BLOCK DETAILS

REV:04.07 D-11

NEW SHEET 1

CITY REVIEW

BYRNE ELEMENTARY SCHOOL ANNEX

5329 S. OAK PARK AVE.,
CHICAGO, IL
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO
MAYOR RAHM EMANUEL

ILEKIS ASSOCIATES
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Architect of Record

HYDRO-THERMO-POWER INC.
CHICAGO, ILLINOIS
MECHANICAL, ELEC., PLUMBING & FP ENGINEER OF RECORD

STEARN - JOGLEKAR, LTD
CHICAGO, ILLINOIS
STRUCTURAL ENGINEER OF RECORD

MILHOUSE ENGINEERING & CONSTRUCTION, INC.
CHICAGO, ILLINOIS
CIVIL ENGINEER OF RECORD

SITE DESIGN GROUP
CHICAGO, ILLINOIS
LANDSCAPE ARCHITECT

SHINER & ASSOCIATES, INC.
CHICAGO, ILLINOIS
ACOUSTICAL ENGINEER

MVP SERVICES GROUP
CHICAGO, ILLINOIS
FOOD SERVICES CONSULTANT

ECOVIDAL DESIGN INC.
CHICAGO, ILLINOIS
LEED CONSULTANT

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ISSUANCE

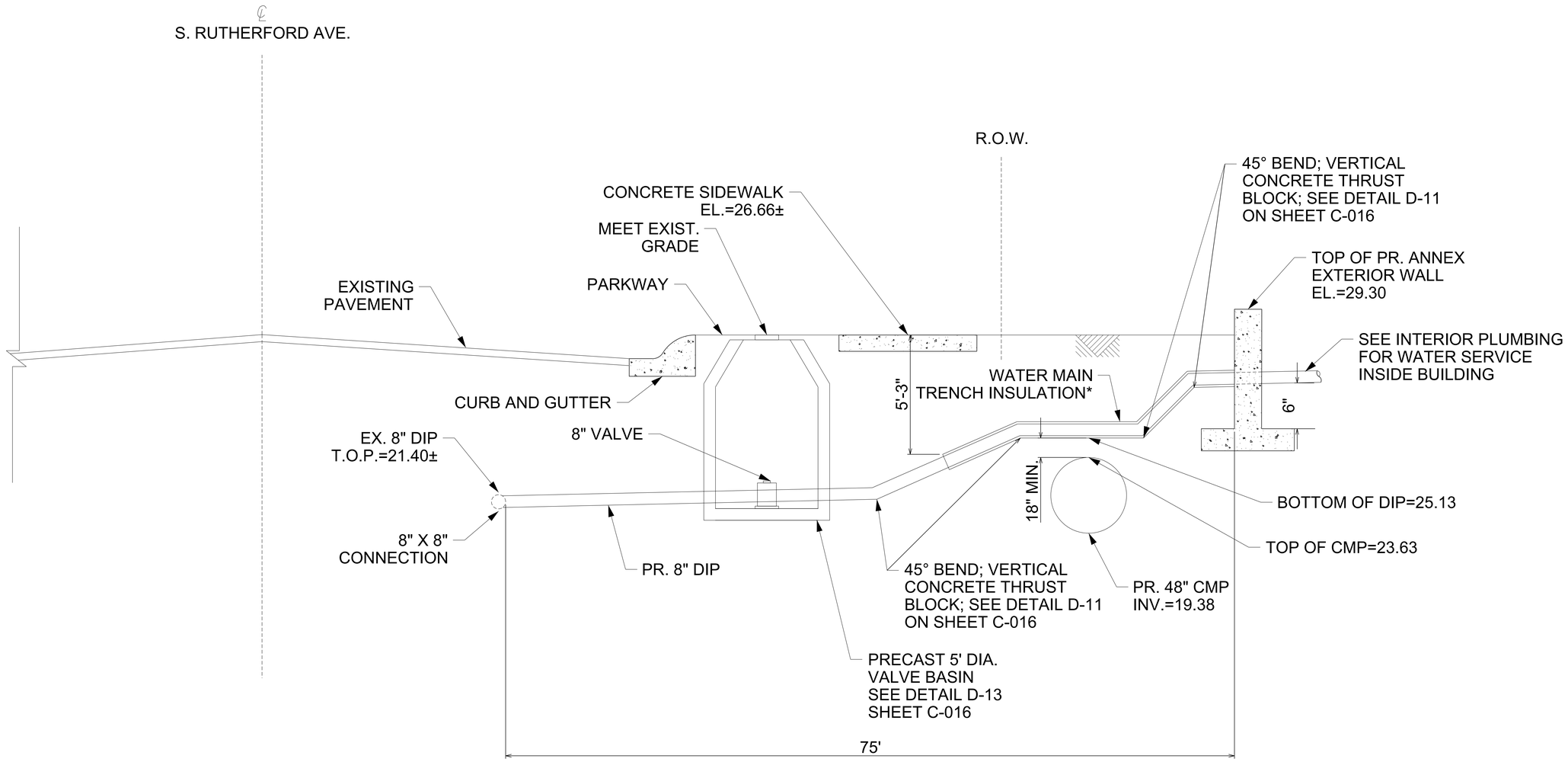
MARK	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	10/25/2016
2	ISSUED FOR DESIGN DEVELOPMENT	12/06/2016
3	ISSUED FOR 60% REVIEW	01/31/2017
4	ISSUED FOR 90% REVIEW (PERMIT)	03/7/2017
5	ISSUED FOR PERMIT	03/15/2017
6	ISSUED FOR 100% REVIEW	04/4/2017
7	ISSUED FOR OUT TO BID	04/26/2017
8	ADDENDUM 1	05/16/2017
9		
10		

DRAWN BY: ILEKIS ASSOCIATES
SCALE: SEE DRAWING
PROJ. NAME: BYRNE ANNEX
PROJECT #: 1618-01
FILE:

TITLE

SITE DETAILS

SHEET C-016



*PROVIDE WATERMAIN TRENCH INSULATION FROM FACE OF ANNEX BUILDING TO A POINT AT WHICH A MINIMUM COVER OF 5'-3" IS PROVIDED ABOVE THE WATERMAIN. INSULATION SHALL BE IN ACCORDANCE WITH DWM STANDARD D-9 ON SHEET C-016.

WATER MAIN PROFILE (NOT TO SCALE)

NOTE:

DWM PERSONNEL WILL PROVIDE LABOR FOR THE PROPOSED CONNECTION OF THE 8" DIP WATER SERVICE TO THE 8" WATERMAIN ON S. RUTHERFORD AVE. CONTRACTOR SHALL PROVIDE CONNECTION PIPE MATERIALS AND SHALL FURNISH AND INSTALLALL OTHER PIPE AND FITTINGS, PIPE INSULATION, EXCAVATION/OSHA SHORING,BACKFILLING/COMPACTION, MAINTENANCE OF TRAFFIC, AND ALL RESTORATION TO CDOT STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS, PERMIT FEES, AND FEE FOR DWM'S WORK.

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THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH THE APPLICABLE CODES AND BUILDING REGULATIONS.

ALPHONSE A. ILEKIS, AIA

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TITLE

WATER MAIN PROFILE

SHEET

C-017