ADDENDUM

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ADDENDUM NO.: 02

PROJECT NAME: Emiliano Zapata Academy Annex

PROJECT NO.: 05055

CONTRACT NO.: C1580

DATE OF ISSUE: August 23, 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. Issued Addenda represent responses/clarifications to various inquiries. Contractors shall be responsible for including all associated labor/material costs in its bid. Drawings/specifications corresponding to inquiry responses will be issued with the Issue for Construction Documents, upon issuance of building permit.

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 06 40 23 INTERIOR ARCHITECTURAL WOODWORK – REVISED section 2.1.A.1 and ADDED basis of design color

Change 2 Book 3 Volume 1 – Section 08 41 13 Aluminum-Framed Entrances and Storefronts – REMOVED section 3.5

Change 3 Book 3 Volume 1 – Section 08 56 57 WINDOW GUARDS – ADDED specification.

Change 4 Book 3 Volume 1 – Section 10 26 00 WALL PROTECTION – ADDED specification.

Change 5 Book 3 Volume 1 – Section 10 51 13 METAL LOCKERS – ELEMENTARY SCHOOLS – ADDED part 2.2.6.C specifying horizontal and vertical metal recess trim to use concealed fasteners. Trim to have hairline joints and concealed splice plates. Color to match lockers.

Change 6 Book 3 Volume 2 – Section 26 09 33 – LIGHTING CONTROL SYSTEMS – ADDED manufacturers for lighting controls.

ITEM NO. 5: REVISIONS TO DRAWINGS

Change 1 SHEET G2.1 Level 01 Exiting Plan with Exiting, Plumbing, and Occupancy Calculations and G2.2 Level 02 Exiting Plan with Exiting, Plumbing, and Occupancy Calculations- ADDED fire extinguisher cabinet symbol to Exiting Plan Legend.

Change 2 SHEET G2.1 Level 01 Exiting Plan with Exiting, Plumbing, and Occupancy Calculations and G2.2 Level 02 Exiting Plan with Exiting, Plumbing, and Occupancy Calculations – ADDED fire extinguisher cabinets at Column enclosures B3, B5, and B9 in both levels' Corridors, and in the Servery.

Change 3 SHEET G2.1 Level 01 Exiting Plan with Exiting, Plumbing, and Occupancy Calculations and G2.2 Level 02 Exiting Plan with Exiting, Plumbing, and Occupancy Calculations – ADDED note and hatch for spray-applied cementitious fireproofing to Exiting Plan Legend.

Change 4 SHEET G2.2 Level 02 Exiting Plan with Exiting, Plumbing, and Occupancy Calculations – ADDED note and hatch for spray-applied cementitious fireproofing to the Exiting Plan Legend.

Change 5 SHEET G2.2 Level 02 Exiting Plan with Exiting, Plumbing, and Occupancy Calculations – REVISED fire ratings of Column C2 enclosure.

Change 6 SHEET G2.2 Level 02 Exiting Plan with Exiting, Plumbing, and Occupancy Calculations – REVISED fire rating of exterior wall assembly between Columns A2 and A3, and Columns A8 and A9 to match Level 01.

Change 7 SHEET C3.0 Site Grading Plan and SHEET C3.0A Site Grading Plan Alternate – REVISED grading of sidewalk.

Change 8 SHEET C4.0 Site Utility Plan – REVISED storm sewer layout east of Annex.

Change 9 SHEET C4.0 Site Utility Plan and SHEET C4.0A Site Utility Plan Alternate – REVISED location of existing telecom duct bank.

Change 10 SHEET C4.0 Site Utility Plan and SHEET C4.0A Site Utility Plan Alternate – REVISED notes.

Change 11 SHEET L1.0 Overall Landscape Plan – DELETED Parkway trees along Kostner Ave, (2) GYD & (1) CEO.

Change 12 SHEET L1.0 Overall Landscape Plan – ADDED note for parkway trees to general notes.

Change 13 SHEET L2.0 Landscape Details – DELETED Detail 1 – Continuous tree parkway.

Change 14 SHEET L2.0 Landscape Details – REVISED Plant Schedule.

Change 15 SHEET AD1.1 Level 01 Architectural Demolition Plans and AD1.2 Level 02 Architectural Demolition Plans – REVISED Demolition Keynotes and Demolition Legend by splitting them up.

Change 16 SHEET AD1.1 Level 01 Architectural Demolition Plans and AD1.2 Level 02 Architectural Demolition Plans – ADDED speaker, smoke detector, motion detector, and emergency light to Demolition Legend.

Change 17 SHEET AD1.1 Level 01 Architectural Demolition Plan – ADDED speaker to be demoed to Stairs 4 and 2 ceiling demolition scope.

Change 18 SHEET AD1.2 Level 02 Architectural Demolition Plan – ADDED speaker to be demoed to Stairs 4 and 2 ceiling demolition scope

Change 19 SHEET AD1.1 Level 01 Architectural Demolition Plan – ADDED smoke detector to be demoed to Stairs 2 and 4 ceiling demolition scope.

Change 20 SHEET AD1.2 Level 02 Architectural Demolition Plan – ADDED smoke detector to be demoed to Stairs 2 and 4 ceiling demolition scope.

Change 21 SHEET AD1.1 Level 01 Architectural Demolition Plan and Level 02 Architectural Demolition Plan – ADDED motion detector to be demoed to Stairs 2 and 4 ceiling demolition scope.

Change 22 SHEET AD1.1 Level 01 Architectural Demolition Plan – ADDED emergency light to be demoed to Stairs 4 and 2 ceiling demolition scope.

Change 23 SHEET AD1.2 Level 02 Architectural Demolition Plan – ADDED two emergency lights to be demoed to Stair 4 and 2 ceiling demolition scope.

Change 24 SHEET AD1.2 Level 02 Architectural Demolition Plans – DELETED four light fixtures from Stairs 4 and 2 ceiling demolition scope.

Change 25 SHEET A2.1 Level 01 Reflected Ceiling Plan – ADDED HLB-1 to Admin 130.

Change 26 SHEET A2.1 Level 01 Reflected Ceiling Plan – DELETED exit signs.

Change 27 SHEET A2.1 Level 01 Reflected Ceiling Plan – ADDED daylight sensors Reference E2.1.

Change 28 SHEET A2.1 Level 01 Reflected Ceiling Plan - REMOVED emergency light fixture.

Change 29 SHEET A2.1 Level 01 Reflected Ceiling Plan - ADDED wall mounted light fixture. Reference E2.1.

Change 30 SHEET A2.2 Level 02 Reflected Ceiling Plan – REVISED Vestibule 200 light fixture type.

Change 31 SHEET A2.2 Level 02 Reflected Ceiling Plan – REVISED Corridor C light fixture locations.

Change 32 SHEET A3.1 Exterior Building Elevations – ADDED note to clean all existing masonry, typ.

Change 33 SHEET A3.2 Partial Building Elevations – REVISED Keynote 2B in West Elevation adjacent to Column Line A.D.

Change 34 SHEET A3.2 Partial Building Elevations – ADDED Keynote 3F to Elevation Keynote Legend indicating aluminum frame storefront windows with security screens.

Change 35 SHEET A3.2 Partial Building Elevations – ADDED Keynote 9F to Elevation Keynote Legend indicating an electric bell.

Change 36 SHEET A3.2 Partial Building Elevations – ADDED Keynote 3F to East Elevation between Column lines B and C indicating aluminum frame storefront windows with security screens.

Change 37 SHEET A3.2 Partial Building Elevations – ADDED Keynote 9F to East Elevation between Column lines C and C.1 indicating an electric bell.

Change 38 SHEET A3.2 Partial Building Elevations – REVISED location of electric bell and security camera between Column lines C and C.1 in East Elevation.

Change 39 SHEET A3.2 Partial Building Elevations – REVISED Keynote 3D between Column lines C and C.1 in East Elevation so tag also refers to two adjacent windows.

Change 40 SHEET A3.2 Partial Building Elevations – ADDED Keynote 2B to indicate continuous stone base adjacent to Column line A.A in East Elevation.

Change 41 SHEET A3.2 Partial Building Elevations – REVISED Keynote 6A of FRP doors adjacent to Column line A.A in East Elevation.

Change 42 SHEET A3.2 Partial Building Elevations – ADDED Keynote 2B to indicate continuous stone base adjacent to Column line A.A in East Elevation.

Change 43 SHEET A3.2 Partial Building Elevations – ADDED Keynote 3E to indicate electrical outlet adjacent to Column line A.A in East Elevation.

Change 44 SHEET A3.2 Partial Building Elevations – DELETED Keynotes 2A, 2B, and 4A between Column lines A and B in East Elevation.

Change 45 SHEET A3.2 Partial Building Elevations – REVISED Keynote 3D adjacent to Column Line C.1 in West Elevation.

Change 46 SHEET A3.2 Partial Building Elevations – REVISED Keynote 1A to indicate brick adjacent to Column line B in West Elevation.

Change 47 SHEET A3.2 Partial Building Elevations – ADDED Keynote 1A to indicate brick adjacent to Column line B in West Elevation.

Change 48 SHEET A3.2 Partial Building Elevations – REVISED Keynote 6A of FRP entry doors between Column lines A.D and A.A in West Elevation.

Change 49 SHEET A3.2 Partial Building Elevations – ADDED Keynote 2B to indicate continuous stone base adjacent to Column line A.A in West Elevation.

Change 50 SHEET A3.2 Partial Building Elevations – ADDED Keynote 4C to indicate downspouts to North Elevation adjacent to Column lines 9.4 and 1.6.

Change 51 SHEET A3.3 Partial Building Elevations – ADDED Keynote 3F to Elevation Keynote Legend indicating aluminum frame storefront windows with security screens/

Change 52 SHEET A3.3 Partial Building Elevations – ADDED Keynote 9F to Elevation Keynote Legend indicating an electric bell.

Change 53 SHEET A3.3 Partial Building Elevations – REVISED 2B (Beyond Bench) tag in detail 1.

Change 54 SHEET A3.3 Partial Building Elevations – ADDED Keynote 6B to three Enclosed Courtyard doors.

Change 55 SHEET A3.3 Partial Building Elevations – REVISED location of speaker and Keynote 9C in detail 1 between column lines 6 and 7.

Change 56 SHEET A3.3 Partial Building Elevations – ADDED electrical outlet and Keynote 9E in detail 1 between column lines 6 and 7.

Change 57 SHEET A3.3 Partial Building Elevations – ADDED Keynote 2B in detail 1 east of column line 5.

Change 58 SHEET A3.3 Partial Building Elevations – REVISED hose bib location and ADDED Keynote 8B in detail 1 west of column line 5.

Change 59 SHEET A3.3 Partial Building Elevations – REVISED location of speaker and Keynote 9C in detail 1 between column lines 4 and 5.

Change 60 SHEET A3.3 Partial Building Elevations – ADDED electrical outlet and Keynote 9E in detail 1 between column lines 4 and 5.

Change 61 SHEET A3.3 Partial Building Elevations – REVISED Keynote 2D in detail 1 between column lines 2 and 3.

Change 62 SHEET A3.3 Partial Building Elevations – ADDED Keynote 2B in detail 1 between column lines 2 and 3.

Change 63 SHEET A3.3 Partial Building Elevations – REVISED Keynote 2E in detail 1 west of column line 1.

Change 64 SHEET A5.5 Wall Sections – REVISED detail numbers on sheet.

Change 65 SHEET A6.3 Enlarged Section Details – REVISED detail numbers on sheet.

Change 66 SHEET A6.10 Enlarged Exterior Plan Details – ADDED sheet.

Change 67 SHEET A7.2 Enlarged Stair Sections – REVISED titles of details 1 and 2 to reflect the accurate direction of the section cuts.

Change 68 SHEET A7.2 Enlarged Stair Sections – REVISED location of emergency light fixture on first floor from north elevation to south elevation in Stairs A & B.

Change 69 SHEET A7.2 Enlarged Stair Sections – ADDED wall-mounted light fixture to the first floor south partition in Stairs A and B.

Change 70 SHEET A7.2 Enlarged Stair Sections – ADDED thermostat to the first floor north partition in Stairs A and B.

Change 71 SHEET A8.2 Enlarged Plan and Elevations – Student Dining and Computer Classroom – REVISED Elevation Keynotes "C".

Change 72 SHEET A8.2 Enlarged Plan and Elevations – Student Dining and Computer Classroom – REVISED Elevation Keynotes "Y.

Change 73 SHEET A8.2 Enlarged Plan and Elevations – Student Dining and Computer Classroom – REVISED Detail 1 Finish Notes.

Change 74 SHEET A8.2 Enlarged Plan and Elevations – Student Dining and Computer Classroom – ADDED Detail 4 Notes.

Change 75 SHEET A8.2 Enlarged Plan and Elevations – Student Dining and Computer Classroom – ADDED Detail 11.

Change 76 SHEET A8.2 Enlarged Plan and Elevations – Student Dining and Computer Classroom – ADDED Detail 12.

Change 77 SHEET A8.4 Level 01 Corridor Interior Elevations and SHEET A8.5 Level 02 Corridor Interior Elevations – ADDED fire extinguisher cabinets to elevations.

Change 78 SHEET A8.4 Level 01 Corridor Interior Elevations – ADDED Recessed Wall mural area and Section 3/A10.1 to Detail 11.

Change 79 SHEET A8.5 Level 02 Corridor Interior Elevations – ADDED Recessed Wall mural area and Section 3/A10.1 to Detail 3 & 4.

Change 80 SHEET A8.6 Enlarged Plans and Elevations – Vestibules – ADDED emergency light fixtures to North Elevations.

Change 81 SHEET A10.1 Interior Details – REVISED detail 2 notes.

Change 82 SHEET A10.1 Interior Details – REVISED detail 3 notes.

Change 83 SHEET A10.1 Interior Details – REVISED detail 4.

Change 84 SHEET A10.1 Interior Details – REVISED detail 5 dimensions and notes.

Change 85 SHEET A10.1 Interior Details – REVISED detail 8 finish tag.

Change 86 SHEET A10.1 Interior Details – REVISED detail 10 notes and dimensions.

Change 87 SHEET A10.1 Interior Details – ADDED callout to detail 12 and notes.

Change 88 SHEET A10.1 Interior Details – ADDED detail 16.

Change 89 SHEET A12.1 Opening Schedules and Details – REVISED door schedule fire ratings.

Change 90 SHEET A12.1 Opening Schedules and Details – REVISED door schedule frame material types.

Change 91 SHEET A13.0 Finish Schedule, Legend and Finish Details – ADDED Finish Specifications numbers.

Change 92 SHEET A13.0 Finish Schedule, Legend and Finish Details – ADDED Finish Material GF-1 Glass Film.

Change 93 SHEET A13.0 Finish Schedule, Legend and Finish Details – REVISED Finish Material HPL-1 to PL-1.

Change 94 SHEET A13.1 Level 01 Finish Plan – REVISED Corner Guard Types

Change 95 SHEET A13.1 Level 01 Finish Plan – REVISED Finish Floor Legend Notes.

Change 96 SHEET A13.1 Level 01 Finish Plan and SHEET A13.2 Level 02 Finish Plan – ADDED Corner Guard Types.

Change 97 SHEET A13.2 Level 02 Finish Plan – ADDED Corner Guard Types.

Change 98 SHEET A13.2 Level 02 Finish Plan – REVISED Finish Floor Legend Notes.

Change 99 SHEET A13.2 Level 02 Finish Plan – REVISED School Vestibule VST-42 Flooring Boundary.

Change 100 SHEET A15.1 Enlarged Toilet Plans – ADDED glass film to interior toilet windows.

Change 101 SHEET F1.1 Level 01 Floor Plan – Fire Protection and SHEET F1.2 Level 02 Floor Plan – Fire Protection and SHEET F2.1 Riser Diagram – REVISED location of water flow switch and new zone control valve from 1st floor outside pump room into second floor mechanical room on Fire Protection drawings.

Change 102 SHEET F1.1 Level 01 Floor Plan – Fire Protection and SHEET F1.2 Level 02 Floor Plan – Fire Protection and SHEET F2.1 Fire Protection Riser Diagram – REVISED location of sprinkler zone assemblies into second floor mechanical room.
Change 103 SHEET E0.1 Electrical Symbols and Notes – ADDED monitor module symbol
Change 104 SHEET E1.1 Level 01 Floor Plan – Power & Systems – ADDED power for motorized window shades in Lunchroom.
Change 105 SHEET E1.2 Level 02 Floor Plan – Power & Systems – ADDED starter tag/type.
Change 106 SHEET E1.2 Level 02 Floor Plan – Power & Systems – REVISED locations of water flow switches, valve supervisory switches and associated monitor modules.
Change 107 SHEET E1.3 Roof Plan – Power – REVISED disconnect type for CU-1.
Change 108 SHEET E1.3E Existing Building Roof – Electrical Power – REVISED disconnects to show as existing for several fans.
Change 109 SHEET E2.1 Level 01 Floor Plan – Lighting – REVISED exit sign type.
Change 110 SHEET E2.1 Level 01 Floor Plan – Lighting – REVISED vacancy sensor location.
Change 111 SHEET E2.1 Level 01 Floor Plan – Lighting – REVISED exit and lighting fixture locations.
Change 112 SHEET E2.2 Level 02 Floor Plan – Lighting – REVISED emergency lighting and luminaire locations.
Change 113 SHEET E2.2 Level 02 Floor Plan – Lighting – REMOVED one light sensor in Work Room.
Change 114 SHEET E3.1 Electrical Riser Diagram – REVISED wiring for TVSS and CP panel type.
Change 115 SHEET E5.1 Electrical Schedules – ADDED EX3R for outdoor location.
Change 116 SHEET E5.2 Electrical Schedules – REVISED panel RP1.1 to add motorized shades.
Change 117 SHEET E5.3 Electrical Schedules – REVISED Transformer Schedule.
Change 118 SHEET E5.3 Electrical Schedules – REVISED control of VFD-1 and VFD-2 in Variable Frequency Drive Schedule.
Change 119 SHEET E5.3 Electrical Schedules – REVISED Disconnect and Starter Schedule.
Change 120 SHEET E5.3 Electrical Schedules – REVISED wiring of Panels CP-1 and CP-2 to be isolated ground.
Change 121 SHEET E5.3 Electrical Schedules – ADDED note to Panels CP-1 and CP-2.
Change 122 SHEET E5.3 Electrical Schedules – ADDED note to Panel CP-2 to be 200% neutral.

ITEM NO. 6: REQUESTS FOR INFORMATION

RFI-1.
Question: Regarding the Fire Sprinkler, the Fire Protection drawings indicate that a new sectional control valve is to be added at the point of connection to the existing feed main that supply's the existing second floor sprinkler system. The new valve is shown upstream of the existing flow switch. Should a main drain and pressure gauge also be added?
Response: The Fire Protection drawing sheets F1.1, F1.2, F2.1 and Electrical drawing sheet E1.2 are revised in this Addendum to show the control valve and flow switch relocated to the 2nd floor Mechanical Room for accessibility. A drain valve and pressure gauge have been added to match other similar zone valve assemblies and are included in this Addendum.

RFI-2.
Question: Drawing "SURV-1 ALTA SURVEY – FOR REFERENCE ONLY" is listed on Drawing G1.1 (Under "ISSUE 7 – 07/28/2017").
This drawing is not posted on the Cushing Website.
Please post this drawing on the Cushing Website.
Response: Previously omitted drawing sheet SURV-1 was issued in Addendum No. 1.

RFI-3.
Question: Project drawings G1.1, A1.1, and A1.2 reference building cross-sections on drawing A4.1 but no such drawing is included in the documents. Please advise.
Response: Previously omitted drawing sheet A4.1 was issued in Addendum No. 1.

RFI-4.

Question: The following Specification Sections are listed in the Table of Contents, but are not included in Book 3 – Volumes 1 & 2:

- 07 13 26 Self-Adhering Sheet Waterproofing
- 07 27 00 Air Barriers
- 23 05 03 Through 23 33 00
- 32 18 14 Synthetic Grass Surfacing System – Playfields

Please provide these Specification Sections in an Addendum.

Specification Section 22 36 00 Fuel-Fired Water Heaters is included in Book 3 – Volume 2, but is not listed in the Table of Contents.

Book 3 Volume 3D – Appendix K is listed as "Existing Modular Building Drawings" – the Appendix K included in Book 3 Volume 3D is actually a Geotechnical Report.

Please reissue a corrected Table of Contents in an Addendum.

Response: Previously omitted Technical Specification sections were included in Addendum No. 1. The Book 3 Volume 2 Technical Specifications, Table of Contents was revised to include specification section 22 36 00 and was included in Addendum No. 1. Book 3 Volume 3D, Appendix K cover sheet currently reads "Geotechnical Report."

RFI-5.

Question: Please respond to the following RFI at your earliest convenience:

Please reference the floor plan on A1.1 for Fire Extinguishers. There's a conflict between specs and drawings in regards to how many fire extinguishers and the location of them. Can you please confirm the number of fire extinguishers and their locations.

Response: Drawing sheets G2.1, G2.2, A8.2, A8.4, and A8.5 have been revised to clarify fire extinguisher locations and quantities, and are included in this Addendum.

RFI-6.

Question: Plan set requirements per G4.0 and discussions at the mandatory pre-bid meeting announced and confirmed the requirement to maintain a Fire Dept. accessible road at all times to the north half of the building alongside. Currently it does not appear that there is enough room between the proposed new drive at the North lot to the property line limit/silt fence to allow for a Fire truck access road to be constructed and maintained. Please advise if an extension of the silt fence line to the North is necessary/possible or if the documents demonstrate a narrowing of the area that is not there.

Response: The property line limits cannot be adjusted. The contractor shall prepare a site logistics plan upon contract award, which will clearly indicate that the access road will be maintained. The contractor may recommend adjustments to its work limits, south of the property line, to facilitate the Work. Contractor shall be responsible for all costs associated with any adjustments to its logistics plan.

RFI-7.

Question: Please confirm that there is no discrepancy with Substantial Completion dates and that MS4 is to be completed by 8/31/18 in advance of classes returning. Conflicting information exists about occupancy within the building occurring in November as opposed to August.

Response: No. There is no discrepancy between Substantial Completion and Milestone 4 completion dates. All Milestone 4 Work must be completed by August 31, 2018.

RFI-8.

Question: Sheet E5.3 lists TR-225 in the transformer schedule. Transformer TR-225 is not on the electrical riser diagram or shown in the plan view drawings. Please advise.

Response: Transformer TR-225 has been deleted from the Transformer Schedule. Drawing sheet E5.3 Electrical Schedules has been revised and included in this Addendum.

RFI-9.

Question: Specification Sections 23 05 03 through 23 33 00 are not included in Book 3 Volume 2 although they are listed in the table of contents. Can you please provide these spec sections?

Response: Previously omitted Technical Specification sections 23 05 03 through 23 33 00 were issued in Addendum No. 1.

RFI-10.

Question: Please advise if the 08 41 13 3.5 PERIMETER FIRE CONTAINMENT SYSTEM section is applicable and intending to drive the door system away from its traditional thermally broken system.

Response: Section 3.5 Perimeter Fire Containment System of specification 08 41 13 has been deleted and a revised specification section is included in this Addendum.

RFI-11.

Question: Per A12.1, Please confirm the entire assembly is to be "C-Fire Rated" for the FRP doors and frames at 100A, B, C & D & 104A, B & C.

Response: The frame assembly for the FRP doors is not required to be fire-rated. The Door Schedule on drawing sheet A12.1 Opening Schedules and Details has been revised and included in this Addendum.

RFI-12.

Question: Please disregard my previous RFI and respond to the latest RFI at your convenience:
Please reference sheet A10.1 section 2. The lockers are shown as 15"W x 72"H x 15"D. Though when I scaled the lockers on A1.2 and A8.4 they came out to be 12"W x 60"H x 15"D. Could you please advise which dimensions should be used?

Response: The locker dimensions are 12" W x 60" H x 15"D. Detail 2/A10.1 has been revised and included in this Addendum.

RFI-13.

Question: Please reference the Enlarged Plan Keynotes and Typical Construction on A6.0. Keynote 107-F reads, "1" metal lath and cement plater. Suspended and applied vertically. Ref 09220". Please provide specification 09220 that would be applicable to the exterior plaster on the roof canopies.

Response: Technical Specification section 09 24 00 was issued in Addendum 1. Keynote 107-F on drawing sheet A6.0 Enlarged Plan Keynotes and Typical Construction has been revised to reference specification 09 24 00, and is included in this Addendum.

RFI-14.

Question: Please reference A1.2 of the contract drawings. In one of the column details, it mentions detail 2 of A6.10. Can you please provide drawing A6.10. There are also a few other call outs that reference A6.10.

Response: Previously omitted drawing sheet A6.10 Enlarged Exterior Plan Details including detail 2, is included in this Addendum.

RFI-15.

Question: Section 06 40 23 calls for chemical resistant laminate. Is this correct? Drawings do not identify what product/color PL-1 is for the casework.

Response: Section 2.1.A.1 of specification 06 40 23 specifies Chemical-Resistant, High-Pressure Decorative Laminate. Additionally, the product and color for PL-1 has been revised. The revised specification section has been included in this Addendum.

RFI-16.

Question: Please provide the critical fall height for the Playground Protective Surfacing.

Response: Per the Architect of Record, the Fall height for 2-5 year olds play equipment is 4-feet and the Fall height for 5-12 year olds play equipment is 8-feet.

RFI-17.

Question: The finish schedule on A13.0 references Specification Section 10 26 00 in regards to the corner guards, however, this spec. section was not provided. Please advise.

Response: Previously omitted specification section 10 26 00 Wall Protection is included in this Addendum.

RFI-18.

Question: The Technical Specifications (Book 3, Volume 2) show a spec for Synthetic Grass Surfacing Systems (Spec No. 32 18 14) in the table of contents, however no such specification has been included in the project documents & there is no synthetic turf shown on the drawings. Please confirm if this project requires Synthetic Turf. Unless noted otherwise, F.H. Paschen will not include Synthetic Turf in our proposal.

Response: Artificial turf is being bid as an alternate cost. Refer to civil drawings C3.0A and C4.0A. The previously omitted specification section 32 18 14 was included in Addendum No. 1.

List of Attachments and Drawings:

(Available at Cushing Co.'s Online Planroom: http://dfs.cushingco.com/pbc.htm)

This Addendum includes the following attached Specifications and/or Documents:

1. Section 06 40 23 Interior Architectural Woodwork
2. Section 08 41 13 Aluminum-Framed Entrances and Storefronts
3. Section 08 56 57 Window Guards
4. Section 10 51 13 Metal Lockers – Elementary Schools
5. Section 10 26 00 Wall Protection
6. Section 26 09 33 Lighting Control Systems

This Addendum includes the following attached General Drawings:

1. G1.1 Sheet Index
2. G2.1 Level 01 Exiting Plan with Exiting, Plumbing, and Occupancy Calculations
3. G2.2 Level 02 Exiting Plan with Exiting, Plumbing, and Occupancy Calculations

This Addendum includes the following attached Civil Drawings:

1. C3.0 Site Grading Plan
2. C3.0A Site Grading Plan
3. C4.0 Site Utility Plan
4. C4.0A Site Utility Plan

This Addendum includes the following attached Landscape Drawings:

1. L1.0 Overall Landscape Plan
2. L2.0 Landscape Details

This Addendum includes the following attached Architectural Drawings:

1. AD1.1 Level 01 Architectural Demolition Plan
2. AD1.2 Level 02 Architectural Demolition Plan
3. A2.1 Level 01 Reflected Ceiling Plan
4. A2.2 Level 02 Reflected Ceiling Plan
5. A3.1 Exterior Building Elevations
6. A3.2 Partial Building Elevations
7. A3.3 Partial Building Elevations
8. A5.5 Wall Sections
9. A6.3 Enlarged Section Details
10. A6.10 Enlarged Exterior Plan Details

(continued, Architectural Drawings)

11. A7.2 Enlarged Stair Sections
12. A8.2 Enlarged Plan and Elevations – Student Dining and Computer Classroom
13. A8.4 Level 01 Corridor Interior Elevations
14. A8.5 Level 02 Corridor Interior Elevations
15. A8.6 Enlarged Plans and Elevations - Vestibules
16. A10.1 Interior Details
17. A12.1 Opening Schedules and Details
18. A13.0 Finish Schedule, Legend, and Finish Details
19. A13.1 Level 01 Finish Plan
20. A13.2 Level 02 Finish Plan
21. A15.1 Enlarged Toilet Plans

This Addendum includes the following attached Fire Protection Drawings:

1. F1.1 Level 01 Floor Plan – Fire Protection
2. F1.2 Level 02 Floor Plan – Fire Protection
3. F2.1 Fire Protection Riser Diagram

This Addendum includes the following attached Electrical Drawings:

1. E0.1 Electrical Symbols and Notes
2. E1.1 Level 01 Floor Plan – Power & Systems
3. E1.2 Level 02 Floor Plan – Power & Systems
4. E1.3 Roof Plan – Power
5. E1.3E Existing Building Roof – Electrical Power
6. E2.1 Level 01 Floor Plan – Lighting
7. E2.2 Level 02 Floor Plan – Lighting
8. E3.1 Electrical Riser Diagram
9. E5.1 Electrical Schedules
10. E5.2 Electrical Schedules
11. E5.3 Electrical Schedules

END OF ADDENDUM NO. 02

SECTION 00 01 10

TABLE OF CONTENTS

INTRODUCTORY INFORMATION

Section Number	*Section Title*	*CPS Control Rev.*
00 00 00	Project Manual Cover Page	
00 01 10	Table of Contents	18_07/23/14

VOLUME 1

PROCUREMENT AND CONTRACTING REQUIREMENTS GROUP

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

SPECIFICATIONS GROUP

GENERAL REQUIREMENTS SUBGROUP

DIVISION 01 – GENERAL REQUIREMENTS

Section Number	*Section Title*	*CPS Control Rev.*
01 14 10	Pre-Construction Mockup	PBC 01_07/31/10
01 14 11	Construction Operations and Site Utilization Plan	06_07/20/09
01 35 60	Sustainable Design Requirements	04_08/17/08
01 35 60-A	A – LEED Materials Credit Documentation Sheet	A_02/06/17
01 35 60-B	B – LEED Low Emitting Materials Credit Documentation Sheet	A_02/06/17
01 35 60-Balt	Balt – LEED Low Emitting Materials Credit Documentation Sheet	A_02/06/17
01 35 60-C	C – LEED Checklist for Schools - 2009	
01 35 60-D	D – LEED Materials Table and Calculator	
01 35 61	LEED Consultant	01_02/28/06
01 35 62	Erosion and Sedimentation Control	01_02/28/06
01 35 63	Construction Waste Management	02_01/21/08
01 35 66	Commissioning (Cx) Submittal Procedures	01_08/17/08
01 35 67	Commissioning (Cx) Project Record Documents	01_08/17/08
01 35 68	Commissioning (Cx) Operation and Maintenance Data	01_02/28/06
01 35 69	Commissioning (Cx) Process	01_08/17/08
01 35 70	Commissioning (Cx) Pre-Functional Checklists	01_08/17/08
01 35 71	Commissioning (Cx) Functional Performance Testing	01_08/17/08
01 50 05	Temporary Facilities and Controls (for new construction projects)	04_07/20/09
01 50 10	Commission Representative Field Office	PBC 03_11/24/09
01 56 11	Temporary Dust, Fume, and Odor Control	01_01/21/10
01 57 15	Integrated Pest Management	PBC 01_09/11/11
01 77 10	Final Cleaning - Schools	PBC 01_10/20/10
01 73 29	Cutting and Patching	03_07/20/09
01 79 00	Demonstration and Training	03_07/20/09

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02 24 00	Environmental Assessment	
02 41 16	Building Demolition	02_01/21/08
02 41 19	Selective Demolition	02_01/21/08
02 86 13	Hazardous and Universal Waste Management	

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03 30 00	Cast-In-Place Concrete	02_04/10/08

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Section Number	*Section Title*	*CPS Control Rev.*
04 20 00	Unit Masonry	04_04/02/10

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05 12 00	Structural Steel	02_04/10/08
05 21 00	Steel Joist	02_04/10/08
05 31 13	Steel Floor Decking	02_04/10/08
05 31 23	Steel Roof Decking	02_04/10/08
05 40 00	Cold-Formed Metal Framing	
05 50 00	Metal Fabrications	

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06 10 53	Miscellaneous Rough Carpentry	03_04/10/08
06 16 43	Gypsum Sheathing	02_04/10/09
06 40 23	Interior Architectural Woodwork	03_04/10/08
06 61 16	Solid Surfacing Materials	

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07 01 50.23	Roofing Removal	02_10/30/07
07 01 50.61	Roof Deck Repair	01_02/28/06
07 11 13	Bituminous Dampproofing	02_08/20/07
07 18 00	Traffic Coatings	03_04/10/08
07 21 19	Foamed-In-Place Insulation	
07 27 00.1	Self Adhering Air and Vapor Barrier	
07 27 00.2	Fluid Applied Air and Vapor Barrier	
07 52 00	Modified Bituminous Membrane Roofing	04_11/08/10
07 71 00	Manufactured Roof Specialties	
07 72 00	Roof Accessories	02_08/20/07
07 81 16	Cementitious Fireproofing	02_08/20/07
07 84 13	Penetration Firestopping	03_04/10/08
07 92 00	Joint Sealants	03_04/10/08

07 95 13	Expansion Joint Assemblies	02_08/20/07

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08 14 16	Flush Wood Doors	03_04/10/08
08 15 00	Fiberglass Reinforced Polyester (FRP) Flush Door Assemblies	01_02/28/06
08 31 13	Access Doors and Frames	02_08/20/07
08 41 13	Aluminum-Framed Entrances and Storefronts	03_04/10/08
08 51 13	Aluminum Windows	04_01/16/14
08 56 57	**Window Guards – Exterior**	**02_01/05/07**
08 71 00	Door Hardware	
08 71 13	Automatic Door Operators	01_07/27/07
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09 21 19	Gypsum Board Shaft Wall Assemblies	03_04/10/08
09 24 00	Cement Plastering	02_08/22/07
09 30 00	Tiling	03_04/10/08
09 51 13	Acoustical Panel Ceilings	03_01/13/14
09 65 13	Resilient Base and Accessories	03_04/10/08
09 65 19	Resilient Tile Flooring - VCT	04_01/27/11
09 65 20	Resilient Flooring	
09 68 13	Carpet Tile	
09 91 00	Painting	02_01/16/14

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10 11 00	Visual Display Units	02_04/10/08
10 14 03	Interior Signage	02_08/20/07
10 14 05	Exterior Signage	02_08/20/07
10 14 07	Exterior Signage – Emergency	02_08/20/07
10 14 19	Dimensional Letter Signage	02_08/20/07
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10 26 00	**Wall Protection**	
10 28 13	Toilet Accessories	03_01/27/11
10 44 00	Fire Protection Specialties	02_08/20/07
10 44 03	Installation of Fire Extinguishers and Cabinets	01_02/28/06
10 51 13	Metal Lockers – Elementary Schools	04_04/10/08

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11 52 13	Projection Screens	02_08/20/07
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12 48 16	Entrance Floor Grilles	02_08/20/07
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22 07 00	Plumbing Insulation	04_05/22/08
22 11 16	Domestic Water Piping	01_02/28/06
22 11 19	Domestic Water Piping Specialties	01_02/28/06
22 13 16	Sanitary Waste and Vent Piping	01_02/28/06
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23 05 19	Meters and Gauges for HVAC Piping	03_08/20/10
23 05 23	General-Duty Valves for HVAC Piping	01_02/28/06
23 05 29	Hangers and Supports for Piping and Equipment	01_02/28/06
23 05 48	Vibration Controls for HVAC Piping and Equipment	01_02/28/06
23 05 53	Identification for HVAC Piping and Equipment	02_05/10/13
23 05 93	Testing, Adjusting, and Balancing for HVAC	03_03/18/11
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23 09 22	Building Automation System (BAS) – Operator Interfaces	05_11/08/08
23 09 23	Building Automation System (BAS) – Field Panels	04_11/08/08
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23 09 25	Building Automation System (BAS) – Software and Programming	04_11/08/08
23 09 25.01	Building Automation System (BAS) – Software and Programming – Exhibits	03_11/08/08
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23 31 13	Metal Ducts	03_08/20/10
23 33 00	Air Duct Accessories	02_12/06/09
23 34 23	HVAC Power Ventilators	01_02/28/06
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23 37 13	Diffusers, Registers, and Grilles	01_02/28/06
23 51 00	Breechings, Chimneys, and Stacks	03_11/06/09
23 52 16	Condensing Boilers	06_04/13/10
23 64 23	Scroll Water Chillers	03_12/06/09
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26 09 23	Lighting Control Devices	01_02/28/06
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27 13 13	Communications Copper Backbone Cabling	02_03/30/10
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31 23 17	Excavating, Backfilling, and Compacting for Utilities	03_06/30/08
31 23 18.13	Contaminated Soil, General Construction and Demolition Debris Disposal,	06_11/19/10
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32 18 14	Synthetic Grass Surfacing System – Playfields	01_04/15/11
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VOLUME 3A – APPENDIX

Appendix A – No Further Remediation Letter – Dated September 22, 1999

Appendix B – Phase I Environmental Site Assessment (Partial - Refer to Volume 3B **& 3C** for Continuation) – Dated December 29, 2016

VOLUME 3B – APPENDIX

Appendix B – Continuation of Volume 3A: Phase I Environmental Site Assessment – Dated December 29, 2016

VOLUME 3C – APPENDIX

Appendix B – Continuation of Volume 3A: Phase I Environmental Site Assessment – Dated December 29, 2016

VOLUME 3D – APPENDIX

Appendix D – Ground Penetrating Radar Survey – Dated February 27, 2017

Appendix E – Limited Asbestos Survey (Interior) – Dated March 13, 2017

Appendix F – Limited Asbestos Survey (Modular) – Dated March 13, 2017

Appendix G – Hazardous Material Survey – Dated April 7, 2017

Appendix H – Limited Asbestos Survey (Roof) – Dated April 11, 2017

Appendix I – Pre-Treatment Soil & Groundwater Sampling – Dated June 30, 2017

Appendix J – Playlot Renderings – Dated January 13, 2017

Appendix K – Geotechnical Report – Dated December 7, 2016

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INTERIOR ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes interior woodwork items indicated not specified elsewhere and as specified.

B. Options:

1. Where casework shown can be provided in the configurations and size shown, such case work may be provided as modular casework per the requirements of Division 12 Section "Manufactured Wood Casework."

1.2 SUBMITTALS

A. Product Data: Submit complete printed data on all specified manufactured items.

B. Shop Drawings: Submit Shop Drawings for shop fabricated items, showing location of each item, dimensioned plans and elevations, large scale details, anchors and other components. Indicate compliance with specified Standards and other specified requirements for materials and workmanship.

C. Samples:

1. Submit samples of laminate of colors and patterns selections by Architect.

D. LEED Submittals:

1. LEED Credit IEQ 4: Include printed statement indicating that product contains no added urea-formaldehyde. Submit product data proving that all composite wood and agrafiber products 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.
2. LEED Credit IEQ 4: Include printed statement of VOC content. Submit product data proving 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.
3. LEED Credit MR 7: Submit certificates of chain of custody (COC) with a letter signed by vendors and manufacturers certifying that wood used to make products was obtained from forests certified by an FSC-accredited certification body to comply with the FSC STD-01-001, “FSC Principles and Criteria for Forest Stewardship.”

a. Certificates shall include evidence that the vendor (company that sells wood products to the building project contractors (including millworker and/or lumber yard)) is certified for chain of custody by an FSC-accredited certification body.
b. Provide line item invoice with cost of all wood products; include COC number for those that are FSC certified and identify type of FSC certification (FSC Pure, FSC Mixed Credit, FSC Mixed [NN]%.
c. Only new wood products need be included. Wood products that qualify as recycled (MR 4) do not need to meet this requirement and shall not be included in the documentation.

4. Product Data for Credit MR 4: For products having recycled content, provide documentation indicating percentages by weight of post-consumer and pre-consumer recycled content. Include statement indicating costs for each product having recycled content.

1.3 QUALITY ASSURANCE

A. Fabricator/Installer: A firm which has successfully produced work similar to the quality specified and in the quantity shown for a period of not less than 5 years.

B. Reference Standards: Comply with the applicable provisions for grading and workmanship of the "Architectural Woodwork Quality Standards", Version 1.0, published by the Architectural Woodwork Institute (AWI) (herein referred to as Standards), except as otherwise specified.

1.4 DELIVERY, STORAGE AND HANDLING

A. Protect woodwork during transit, delivery, storage and handling to prevent damage, soiling and deterioration.

B. Store woodwork materials and completed woodwork only in a dry, ventilated place, protected from the weather.

C. Protect woodwork from soiling and damage during handling and installation. Keep covered with polyethylene film or other protective covering.

D. Do not deliver woodwork until painting, wet work, grinding and similar operations which could damage, soil or deteriorate woodwork have been completed in installation areas. If, due to unforeseen circumstances, woodwork must be stored in other than installation areas, store only in areas which meet the requirements specified for installation areas.

1.5 JOB CONDITIONS

A. Environmental Requirements: Do not start Work until room or space is at normal use temperature and humidity and wood has tempered to the room or space.

B. Field Measurements: Where woodwork is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1. Locate concealed framing, blocking, and reinforcements that support woodwork by field measurements before on Shop Drawings.

1.6 COORDINATION

A. Coordinate and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that architectural woodwork can be supported and installed as indicated.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Plastic Laminate: Comply with the requirements of "Publication No. LD3" by the National Electrical Manufacturer's Association (NEMA), General-Purpose type (HGS), 0.048", except post formed type (HPG) for surfaces shown formed, 0.039"). Colors, patterns and texture selected by the Architect.

1. Chemical-Resistant, High-Pressure Decorative Laminate: NEMA LD3, Grade HGP and Test Procedure 3.9.5:

a. **Plastic Laminate Type 1 (PL-1)**
1) **Chemsurf; Wilsonart**

a) **Monticello Maple, 7925-38**

2) **Pionite Chemguard; Pionite.**

2. Backer Sheet: NEMA LD3, 0.028" VGS.
3. Obtain from forests certified by an FSC-accredited certification body to comply with FSC 1.2 “Principles and Criteria.”

B. Laminating Adhesive: Shall contain no added urea formaldehyde.

C. Composite wood shall be manufactured with no added urea formaldehyde.

D. Particle Board: Straw based particle board complying with ANSI A208.1, Grade M-2 (except density), non-toxic emission binder.

1. Provide product 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.

E. Hardboard: ANSI A 135.4, pressed wood fibers with resin binders, tempered grade, 1/4" thick unless shown otherwise, smooth two sides where exposed.

1. Provide product 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.

F. Fiberboard: ANSI A208.2 composed of wood reduced to fine fibers mixed with binders and formed into panels by heat and pressure, 37 to 50 lb./cu.ft. density, grade MD-exterior glue (no Formaldehyde).

1. Provide product 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.

G. Thermoset Decorative Overlay Board: Particleboard specified above, or medium-density fiberboard specified above with surface of thermally fused, melamine-impregnated decorative paper complying with LMA SAT-1.

1. Provide product 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.

H. Open Adjustable Shelf Supports and Brackets:

1. Adjustable Shelf Supports: Heavy-duty slotted steel, BHMA A156.9, B04102.

a. Knape & Vogt No. 87.
b. Reeve No. RV-700.
c. Equal.

2. Shelf Brackets: Provide heavy-duty double-and-triple-hooked steel brackets, BHMA B04112.

a. Knape & Vogt Nos. 186 and 187.
b. Reeve NO. RV-767.
c. Provide shelf rests.

3. Finish: Satin Chrome or Zinc.

I. Cabinet Hardware (except where Drawings indicate otherwise):

1. Adjustable Pilaster Shelf Supports and Brackets: Flush mounted pilaster type slotted steel standards, comply with BHMA B84073. Provide matching shelf rests, BHMA B84093.

a. Knape & Vogt Nos. 255 and 256.
b. Sugatsune No. SP-1820 and SPB-20.
c. Multiple holes, 5 mm diameter with pins matching shelf supports acceptable.

2. Side Pair Drawer Slides: BHMA B05053, 100 lb. rated (per pair) ball-bearing nylon rollers, 1/2" wide units, commercial grade, full extension.

    a. Accurate No. 7432 Series.
    b. Hettich Grant No. 5632.
    c. Knape & Vogt No. 1429.

3. Magnetic Cabinet Catches: BHMA, B43142, B43152 or B43162 (type as applicable) aluminum case, commercial grade.
4. Heavy-Duty Magnetic Catches: BHMA B43172, aluminum case, commercial grade, 11.0 lbs. minimum test pull (door 16" wide and wider).
5. Hinges: Institutional type, 5 knuckle, BHMA B1201
6. Pulls: Rod type, 5/16" diameter, 7/8" finger clearance, 4" screw centers.

    a. Stanley No. 4483.
    b. Hafele No. 116.39.464
    c. Equal

7. Drawer and Cupboard Locks: BHMA E0761.

    a. Provide on all doors and drawers.

8. Finish for Exposed Cabinet Hardware: Except as otherwise indicated, provide the following finish for exposed hardware comply with BHMA A156.18. For items not available in required finish, provide finish selected by Architect from those available. If more than one finish is indicated, match finish of hardware items on each "set" of casework as indicated.

    a. Satin Chromium Plated: BHMA 626 for brass or bronze base; BHMA 652 for steel base.

J. Miscellaneous Accessories:

1. Nails: Select the material, type, size and finish required for each use. Comply with FS FF-N-105 for applicable requirements.
2. Anchors:

    a. Select the material, type, size and finish required by each substrate for secure anchorage. Provide nonferrous metal plated or galvanized anchors.
    b. Provide toothed steel or lead expansion bolt devices for drilled-in-place anchors.

3. Closet Poles: Chrome plated tubing cut to lengths required, with standard wrought steel flanges (one with open top).
4. Center Brackets: Combination shelf and closet pole support, wrought steel with enamel finish, BHMA B84052.
5. Grommets: 1¼” diameter molded plastic with matching caps having slops for wire passage unless otherwise shown.
6. Other Accessories: As indicated on the drawings.
7. Hooks: Hewi 513 or equal.

2.2 FABRICATION

A. Shop-fabricate to the greatest extent possible, disassemble only as necessary for delivery and installation.

B. Install hardware at the shop prior to delivery. Remove hardware for finish application and reinstall after finishing.

C. Fabricate shop built items with scribes to fit to existing construction.

D. Closet Shelving: Except where specifically noted otherwise, provide the following:

1. Minimum 3/4” panel product shelf, for paint 1'-0" wide (for paint) with hardwood edges, except where thermoset overlay (melamine) indicated.

E. Adjustable Shelving: Minimum 3/4" panel product shelves, (for paint) with hardwood edges,. except where thermoset overlay (melamine) indicated.

F. Casework:

1. Conform to AWI Premium Grade (Sec. 400) and as follows:
2. Face Construction: "Half overlay" type, except as otherwise indicated.
3. Thickness and Style: As shown, or if not shown, provide 3/4" thick doors, drawer fronts and fixed panels, except where required to be thicker by Standards; and provide flush units.
4. Edges of Plastic Laminate Door, Drawers and Face Frame: 3 mil PVC, exposed surfaces.
5. Backs of Plastic Laminate Doors: Plastic laminate matching exposed surfaces.
6. Backs of Plastic Laminate Components (except doors): Provide full backer sheets.
7. Interior Finish Plastic Laminate Casework: Thermoset Decorative Overlay Plastic Laminate (unless otherwise shown).

G. Counter Construction:

PART 3 - EXECUTION

3.1 PREPARATION

A. Condition woodwork to average prevailing humidity conditions in installation areas prior to installing.

3.2 INSTALLATION

A. Basic Requirements:

1. Install plumb, level, true and straight with no distortions. Shim as required using concealed shims.
2. Cut to fit, unless specified to be shop-fabricated or shop-cut to exact size. Where woodwork abuts other finished Work, scribe and cut for accurate fit.

B. Closet Shelving:

1. Provide shelf and pole supports at maximum 32" o.c.
2. Secure with toggle bolt into cells of masonry units.
3. Secure wood screws into wood blocking built into stud framing for the purpose.
4. Provide end brackets for shelf and rod.

C. Adjustable Shelving:

1. Secure plumb and true at maximum 32" o.c. and maximum 6" from ends of shelves.
2. Secure with toggle bolts into cells of masonry units.
3. Secure with wood screws built into stud framing for the purpose.

D. Casework - Shop Fabricated Items:

1. Install plumb, level, true and straight with no distortions. Shim as required using concealed shims.
2. Where work abuts other finished work, scribe and cut for accurate fit. Before making cutouts, drill pilot holes at corners.
3. Attach work securely in place with uniform joints providing for thermal and building movements. Secure to anchors or blocking built in or directly attached to substrates.
4. Provide tops fabricated in largest sizes practical. Assemble in field with splines for alignment and drawn tight to hairline contact with tight-joint fasteners.

3.3 CLEANING AND PROTECTION

A. Repair or remove and replace defective work upon completion of installation.

END OF SECTION

SECTION 08 41 13

ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes aluminum entrances and framing as indicated and as specified.

1.2 SUBMITTALS

A. Product Data: Submit copies of manufacturer's data, recommendations and standard details, including fabrication, finishing, hardware, accessories and other components of the Work.

B. Shop Drawings: Submit Shop Drawings for the fabrication and installation and associated components of the Work signed and sealed by a structural engineer licensed in the State of Illinois stating compliance with "Quality Assurance" requirements.. Include wall elevations at 1/2" scale, and half-size detail sections of every typical composite member. Show anchors, joint system, expansion provisions and other components not included in manufacturer's standard data. Include glazing details.

C. Samples: Submit a set of two (2) samples of required aluminum finish, showing extremes of color and appearance, on minimum 4" long extrusions of the alloys to be used for the Work.

1. The right is reserved to require samples of typical fabricated sections, showing joints, exposed fastenings (if any), quality of workmanship, hardware and accessory items, before fabrication of the Work proceeds.

D. Certification: Submit written certifications, signed by window wall manufacturer, attesting that system conforms to each of the "Quality Assurance" requirements of this Specification where the manufacturer's standard system has been tested in accordance with specified tests and meets performance requirements specified. Where such testing has not been accomplished, perform required tests through a recognized testing laboratory or agency and provide certified test results.

E. LEED Submittal:

1. LEED Credit EQ 4: Submit manufacturers' product data proving that adhesives and sealants used inside the weatherproofing system 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
2. LEED Credit MR 4: For products having recycled content, documentation indicating percentages by weight of post-consumer and pre-consumer recycled content. Include statement indicating costs for each product having recycled content.
3. LEED Credit MR 5: For products and materials that comply with requirements for regional materials, provide documentation indicating 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.

1.3 QUALITY ASSURANCE

A. Standards: Comply with the requirements and recommendations in applicable specifications and standards by NAAMM, AAMA and AA, including the terminology definitions, and specifically including the "Entrance Manual" by NAAMM, except to the extent more stringent requirements are indicated. Conform to 16 CFR 1201.

B. Installer: Regularly engaged in installation of the types of Work required and acceptable to the system manufacturer.

C. Wind Loading: Fabricate exterior units to withstand the wind pressure loading of 30 lbs. per sq. ft. on the gross area of the system, acting inward and also acting outward except 40 lbs. per sq. ft. at corners when tested in accordance with ASTM E 330.

D. Deflections and Thermal Movements: Design work and internally reinforce component members to withstand wind pressures, building deflections, construction shrinkage, thermal movements and erection tolerances, within the following deflection limitations and temperature variations without causing buckling, stresses on glass, failure of joint seals, undue stress on structural elements, damaging loads on fasteners, reduction of performance or other detrimental effects. Fabricate, assemble and erect the work to maintain these limitations.

1. Deflection Normal to Wall Plane: Limited to 1/175 of clear span for spans up to 13 feet 6 inches (4.1 m) and to 1/240 of clear span plus 1/4 inch (6.35 mm) for spans greater than 13 feet 6 inches (4.1 m) or an amount that restricts edge deflection of individual glazing lites to 3/4 inch (19 mm), whichever is less.
2. Deflection Parallel to Glazing Plane: Limited to amount not exceeding that which reduces glazing bite to less than 75 percent of design dimension and that which reduces edge clearance between framing members and glazing or other fixed components directly below to less than 1/8 inch (3.2 mm) and clearance between members and operable units directly below to less than 1/16 inch (1.5 mm).
3. Thermal expansion and contraction movement capability, resulting from not less than an ambient temperature range of 120 deg F, which may cause a window wall material temperature range of 180 deg F.
4. Building deflection of L/360.

E. Water and Air Leakage: Design, fabricate, assemble and erect work and system of sealed joints with other work, to be permanently free of significant leakage of both water and air. Significant leakage is defined as follows, based on a differential test pressure amounting to 20% of specified strength performance pressure required, testing a complete module of window wall work.

1. Air Infiltration (Framing): More than 0.06 cu. ft. per minute per sq. ft. (projected area of module), determined by ASTM E 283 at an inward test pressure of 6.24 PSF.
2. Air Infiltration (Doors): Provide doors with an air infiltration rate of not more than 0.50 CFM for single doors and 1.0 for pairs of doors when tested in accordance with ASTM E 283 at an inward test pressure differential of 1.567 PSF.

3. Water Penetration: Provide framing systems with no water penetration (excluding operable door edges) as defined in the test method when tested in accordance with ASTM E 331 at an inward test pressure differential of 6.24 lbf. per sq. ft.

F. Condensation Requirements: Provide thermal-break construction, which provides a condensation resistance factor (CRF) of at least 55 per the requirements of AAMA 1502.7

G. Thermal Performance: Provide window wall system and doors having maximum U-factor of 0.57 for fixed units and 0.67 for operable units as determined in accordance with NFRC 100 by a laboratory accredited by a nationally recognized accreditation organization such as the National Fenestration Rating Council and labeled and certified by the manufacturer; and assembly maximum solar heat gain coefficient (SAGC) of 0.49 for north orientation and 0.39 for all other orientations for overall glazed area as determined in accordance with NFRC 200 by a laboratory accredited by a nationally recognized accreditation organization such as the National Fenestration Rating Council and shall be labeled and certified by the manufacturer. Shading coefficient of the center of glass multiplied by 0.86 shall be an acceptable alternate for determining compliance with the SHGC required for the overall glazed area. Shading coefficient shall be determined using special data file determined in accordance wit NFRC 300. Shading coefficient shall be verified and certified by the glass unit manufacturer.

1. U-Factors from 8.1 of ASHRAE IESHA Standard 90.1-1999 shall be an acceptable alternate for determining compliance with the U-factor criteria. Where credit is being taken for a low-emissivity coating, the emissivity of the coating shall be determined in accordance with NFRC 301. Emissivity shall be verified and certified by the window wall manufacturer.

H. Perimeter fire resistive joint system: For joints between the edge of fire resistive floor assemblies and the window wall system, provide a fire-resistive joint system of type and with rating indicated below as determined by NFPA 285 and UL 2079:

1. UL listed perimeter fire containment system: Integrity rating equal to or exceeding the fire resistive rating of the floor or floor/ceiling assembly forming one side of the joint having the required joint width and movement classification and an L rating

PART 2 - PRODUCTS

2.1 MANUFACTURERS

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

1. Butler; Vistawall.
2. Efco.
3. U.S. Aluminum.
4. Kawneer.
5. Pittco.
6. Tubelite.

2.2 MATERIALS AND ACCESSORIES

A. Aluminum Extrusions: Provide alloy and temper as recommended by manufacturer for strength, corrosion resistance, application of required finish and control of color, but not less than 22,000 psi ultimate tensile strength. Provide main extrusions of not less than 0.125" wall thickness.

B. Fasteners: Aluminum, nonmagnetic stainless steel or other non-corrosive metal fasteners guaranteed by the manufacturer to be compatible with the doors, frames, stops, hardware, anchors and other items being fastened. For exposed fasteners (if any), provide Phillips flat-head screws with finish matching the item fastened.

1. Do not use exposed fasteners except where unavoidable for the assembly of units, and unavoidable for the application of hardware. Provide only concealed screws in glazing stops.

C. Steel Reinforcement and Brackets: Manufacturer's standard formed or fabricated steel units, of shapes, plates or bars; with 2.0 oz. hot-dip zinc coating complying with ASTM A 123, applied after fabrication to brackets and rust inhibitive paint applied to reinforcing elements.

D. Concealed Flashing: Dead soft stainless steel, minimum 26 gauge.

E. Inserts: For required anchorage into concrete or masonry work, furnish inserts of cast iron, malleable iron or 12 gauges steel hot-dip galvanized after fabrication.

F. Expansion Anchor Devices: Lead-shield or toothed-steel, drilled-in, expansion bolt anchors.

G. Bituminous Coatings: Cold-applied asphalt mastic complying with SSPC-PAINT 12, compounded for 30 mil thickness per coat.

H. Sealants and Gaskets: Provide sealants and gaskets in the fabrication, assembly and installation of the Work, which are recommended by the manufacturer to remain permanently elastic, non-shrinking, non-migrating and weatherproof for the life of the building.

1. LEED Requirement: Provide adhesives and sealants used inside the weatherproofing system 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.

I. Glazing Gaskets: For glazing glass, and for gaskets, which are factory-installed in a "captive" assembly of glazing stops, provide manufacturer's standard stripping of molded neoprene.

J. Glazing:
1. Tempered Glass: ASTM C 1048, Condition A (uncoated surfaces), Type I (transparent glass, flat), Class 1. (clear), quality q3 (glazing select), kind FT (fully tempered); free of visible tong marks.
2. Laminated Glass: Two pieces of 1/8” tempered glass as specified with inner layer of 1/8” clear polycarbonate laminated with polyurethane to allow for differential movement such as Guardvue by Viracon or equal.

3. Insulating Glass Units: Preassembled units consisting of organically sealed panes of glass enclosing a hermetically sealed dehydrated air space complying with ASTM E 774, Performance Classification "A", manufacturer's ten (10) year warranty against failure of hermetic seal of air space as follows:

    a. Two, 1/4" clear tempered panes of glass as specified with 1/2" air space, low E units
    b. Laminated glass as specified outside, 1/4” clear tempered glass inside with 1/2” air space where shown, low E units.

2.3 HARDWARE

A. Except as indicated otherwise herein, refer to Division 08 Section "Door Hardware" of these Specifications for the furnishing of hardware items. Hardware templates will be furnished to the manufacturer for the fabrication of door and frames to receive hardware. Receive the hardware and coordinate with the hardware requirements of this Section. Report discrepancies in writing to the Contractor.

B. Cut, reinforce, drill and tap frames and doors as required to receive hardware, except do not drill and tap for surface-mounted items until the time of installation at the Project Site. Comply with hardware manufacturer's instructions and template requirements. Use concealed fasteners wherever possible.

C. Install all hardware, except surface-mounted hardware, at the fabrication plant. Remove only as required for final finishing operations, and for delivery and installation of the Work at the Project Site.

2.4 FABRICATION

A. Coordination of Fabrication: Wherever possible, check the actual openings in the construction work by accurate field measurement before fabrication, and show recorded measurements on final Shop Drawings.

B. Prefabrication: Provide each door as a "packaged entrance" unit. Complete the fabrication, assembly, finishing, application of hardware and all other Work, before shipment to the Project Site, to the greatest extent possible. Disassemble only to the extent necessary for shipment and installation.

C. Basic Fabrication:

1. Complete the cutting, fitting, forming, drilling and grinding of all metal at the shop to the extent possible. Remove arrises from cut edges and ease edges and corners to a radius of approximately 1/64".
2. Conceal fasteners, wherever possible, except as otherwise shown.
3. Maintain continuity of line and accurate relation of planes and angles. Provide secure attachment and support at mechanical joints, with hairline fit of contacting members.
4. Internally reinforce the Work as necessary for performance requirements, and for support to the structure. Separate dissimilar metals with bituminous paint or preformed separators, which will prevent corrosion. Separate metal surfaces at moving joints with nonmetallic separators to prevent "freeze-up" of joints.

D. Weather Stripping: Where exterior door stiles or head rails do not close against fixed stops equipped with compression weather stripping, provide sliding weather stripping, retained in an adjustable strip in a mortise centered in the edge of the door. Provide heavy-duty, hollow, compression weather stripping in the bottom-rail, adjustable for contact with the threshold.

E. Stile-and-Rail Type Aluminum Doors:

1. Provide tubular frame members, fabricated with mechanical joints of heavy inserted reinforcing plates and concealed tie-rods or j-bolts, in accordance with manufacturer's standard fabrication methods; or fabricate with structurally welded joints, at manufacturer's option.
2. Except as otherwise shown or scheduled, provide door units 1-3/4" thick.

    a. Provide wide stile doors.

F. Aluminum Framing:

1. Fabricate tubular and channel frame assemblies with either welded or mechanical joints using shear blocks with concealed fasteners wherever possible.
2. Provide non-removable doorstops extruded integrally with frame to extent possible.

    a. Provide compression weather-stripping on the door-contact face of doorstop for exterior door frames, and on other frames where indicated.
    b. Where weather stripping is not provided, install neoprene silencers on doorstops to prevent metal-to-metal contact between doors and stops.

3. Provide glazing system for frames to receive lights. Design system for replacement of glass, but for non-removal of glass from the exterior.
4. Fabricate frame assemblies for exterior walls with flashing and weeps to drain penetrating moisture to exterior. Provide anchorage and alignment brackets for concealed support of assembly from the building structure. Allow for thermal expansion of exterior units.
5. Provide all elements with thermal breaks to positively eliminate outside to inside metal contact. Provide thermal break materials certified to comply with Performance Requirements of the unit in each case (window or window wall).

    a. Interior framing need not be thermal break construction.

2.5 ALUMINUM FINISHES

A. Prepare the surfaces for finishing in accordance with recommendations of the aluminum producer and the finisher or processor.

B. Finish all components of each assembly simultaneously so as to attain complete uniformity of color. Adjust and control the direction of mechanical finishes (as specified) to achieve the best overall visual effect in the Work, as determined in consultation with the Architect.

C. Sequence the finishing and processing of materials in a predetermined bay-bay-bay plan, which will minimize color and texture differences between adjacent components.

D. Color and Texture Tolerance:

1. The right is reserved to reject the Work because of color or texture variations, which are visually objectionable, but only where the variation exceeds the range of variations established by the manufacturer prior to the Work, by means of range samples which have been accepted by the Architect.
2. Prepare range samples on extrusions of profiles and shapes of the actual members of the Work. Establish range samples to maintain a total range of 2 degrees on the green reflectance scale.

E. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying and designating finishes.

F. Finish designations prefixed by AA conform to the system established by the Aluminum Association for designating aluminum finishes.

G. High-Performance Organic Finish: Two-coat fluoropolymer finish complying with AAMA 2605 and containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Do not install component parts, which are observed to be defective in any way, including warped, bowed, dented, abraided and broken members, including glass and edge damage. Remove and replace members, which have been damaged during installation.

B. Deliver base plates for mullion anchorage in time to allow for installation. Provide setting drawings.

3.2 ERECTION TOLERANCES

A. Limit variations from plumb, and level to the following:

1. 1/8" maximum deviation.

B. Limit variations from location (theoretical calculated positions in plan or elevation based on established floor lines and column lines), including variations from plumb and level, to the following:

1. 3/8" total maximum deviation for any member at any location.
2. 1/8" maximum change in deviation for any member at any 10' run, any direction.

C. Limit offsets in the end-to-end and edge-to-edge alignments of adjoining and consecutive members, which form planes, continuous runs and profiles to the following:

1. 1/16" maximum offset in any flush alignment, including any which are to be 1/2" or less out-of-flush, and including any which are separated 2" or less by a reveal or protrusion in the plane of the wall.

2. 1/8" maximum offset in alignments which are to be out-of-flush by more than 1/2", or separated by a reveal or protrusion of more than 2" width.

D. Provide sliding connections at top of mullions to accommodate deflections of L/360 of the floor above.

3.3 ERECTION

A. Erect steel elements in accordance with AISC - Manual of Standard Practice.

B. Certify welders in accordance with requirements of AWS.

C. Do not cut, trim, weld or braze components during erection in any manner which would damage the finish, decrease the strength, or result in a visual imperfection or a failure in performance of the window wall. Return component parts, which require alteration to the shop for refabrication, if possible, or for replacement by new parts, if not possible.

D. Install components level, plumb, true to line and with uniform joints and reveals. Use erection equipment, which will not mark or stain finished surfaces, and will not damage the component parts in any way.

E. Anchor component parts securely in place by bolting, welding or other permanent mechanical attachment system, which will comply with performance requirements and permit movements which are intended or necessary. Install slip-joints wherever necessary to ensure movement as intended or necessary.

F. Apply bituminous paint of approximately 30 mil dry film thickness, or other suitable permanent separator, on concealed contact surfaces of dissimilar materials, before assembly or installation.

G. Wire brush and touch-up prime welded and unshop primed steel.

H. Provide close fitting sleeves at joints to insure alignment and no open joints.

I. Provide all closures, panels, sill and stool covers and all other accessory items required for a complete installation. Form accessories of minimum 0.063" aluminum.

J. Install fire stopping in accordance with requirements to obtain fire rating.

3.4 GLAZING

A. Protect glass units from edge damage at all times during handling and installation.

B. Inspect for edge or surface damage and do not install defective units. The glazer is responsible for correct glass size for each opening, within the tolerances and necessary dimensions established.

C. The glazer must examine the framing or glazing channel surfaces, backing, removable stop design, and the conditions under which the glazing is to be performed, and notify the Construction Manager in writing of any conditions detrimental to the proper and timely completion of the Work. Start of Work will evidence acceptance of conditions.

D. Do not install glazing sealants under adverse weather conditions, or when temperatures are below or above manufacturer's recommended limitations for installation.

E. Comply with combined recommendations of glass manufacturer and manufacturer of glazing sealants and other materials used in glazing, except where more stringent requirements are shown or specified, and except where manufacturers' technical representatives direct otherwise.

F. Comply with "Glazing Manual" and "Glazing Sealing Systems Manual" by Flat Glass Marketing Association, except as shown and specified otherwise, and except as specifically recommended otherwise by the manufacturers of the glass and glazing materials.

G. Before glazing begins, the Contractor shall conduct a meeting with the glass manufacturer, glazing materials manufacturer, glazer, and Construction Manager to review details of installation.

H. Glazing Methods:

1. Glaze in exact accordance with requirements necessary to obtain "quality assurance" specified hereinbefore.
2. Immediately upon installation, protect glass from breakage by attachment of crossed streamers to framing held away from glass. Do not apply markers of any type to surface of glass.
3. Remove and replace glass, which is broken, chipped, cracked, abraded, or damaged in any other way during the installation period.
4. Maintain glass in a reasonably clean condition during construction, so that it will not be damaged by corrosive action and will not contribute (by wash-off) to the deterioration of glazing materials and other surfaces.

~~3.5 PERIMETER FIRE CONTAINMENT SYSTEM~~

~~A. Perimeter fire resistive joint by system: Install perimeter fire stopping system in exact accordance with manufacturer requirements.~~

~~1. Owner will engage qualified independent inspecting agency to inspect fire-resistive joint systems and prepare inspection reports.~~
~~2. Inspecting of completed installation of fire-resistive joint systems shall take place in successive stages as installation of fire-resistive joint system proceeds. Do not proceed with installation of joint systems for the next area until inspecting agency determines completed work shows compliance with requirements.~~

~~a. Inspecting agency shall state in each report whether inspected fire-resistive joint systems comply with or deviate from requirements.~~

~~3. Remove and replace fire-resistive joint systems where inspections indicate that they do not comply with specified requirements.~~
~~4. Additional inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.~~
~~5. Proceed with enclosing fire-resistive joint systems with other construction only after inspection reports are issued and fire-resistive joint systems comply with requirements.~~

3.6 PROTECTION AND CLEANING

A. Protect exposed aluminum work from damage by construction. Use lacquer coating only if totally removed without damage to finish. Use strippable covering only if totally removed without damage to finish. Remove protection and clean surfaces and glass immediately before acceptance of building.

END OF SECTION

SECTION 08 56 57

WINDOW GUARDS - EXTERIOR

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes window guards on windows where noted and shown on the drawings that comply with performance requirements specified as determined by testing manufacturer's standard assemblies representing those indicated for this Project.

1.2 SYSTEM DESCRIPTIONS AND OPERATION

A. Metal window guards shall be designed to furnish physical deterrence against forcible entry through windows and to allow emergency egress for building occupants.

B. Window guard assemblies shall consist of but not limited to a main frame permanently fixed to the adjacent construction and operable sub-frame with perforated sheet metal guard panel, concealment plates, scribes, hardware, and anchors.

C. Metal window guards shall be equipped with quick-release latch to allow emergency egress requiring no special tools or knowledge. Latch operation shall activate a spring-loaded mechanism, which shall assist in releasing barrier for occupant egress. Guards shall be operable on the lower part of the window sash (for windows 48” and greater in height) - the upper portion concealing the upper sash shall operate separately from the lower unit.

D. Window guard assemblies shall be accessible and easily operated for maintenance purposes, including window cleaning, repainting and general maintenance.

E. Window guards over 5’ wide or 8’ high shall be fabricated in two sections.

1.3 QUALITY ASSURANCE

A. Acceptable Manufacturers:

1. Items provided in this Section shall be manufactured and fabricated by firms with 3 years experience in type of work specified.
2. Field Support: The manufacturer shall furnish site support including installation support for installation crews.

B. AAMA Certification: Units shall comply with AAMA CFR-200.935, "Security Screen-Heavy" and SMA 6001-2002 for impact, forced entry resistance and sag.

C. Qualifications of Installers: Use skilled workers, experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work.

D. Single Source Responsibility: Furnish metal window guards produced by a single manufacturer.

1.4 SUBMITTALS

A. Product Data: Within 14 calendar days after award of the Contract, submit:

1. Materials list of all parts and components of metal window guard.
2. Construction details and fabrication methods.
3. Profiles and dimensions of individual components.
4. Data on hardware, accessories, and finishes.
5. Recommendations for maintaining and cleaning exterior surfaces.
6. Manufacturer's recommended installation procedures, specifications and other data required to demonstrate compliance with the specified requirements.

B. The manufacturer’s submitted installation procedures approved by the Architect will be used for the actual installation procedures used on the work.

C. Window guard submittals shall be coordinated and submitted with the aluminum window submittals so that they can be reviewed together. Refer to other sections for requirements for window submittals.

D. Shop Drawings: Submit complete shop drawings for metal window guards. Include information not fully detailed in manufacturer's standard product data, including details of surrounding construction locations, masonry set backs, sills, and the following:

1. Fabrication and installation of metal window guards.
2. Layout and installation details, including anchors.
3. Elevations at 1/4 inch = 1 foot scale.
4. Typical unit elevations at 3/4 inch = 1 foot scale.
5. Full-size section details of typical members, including reinforcement and stiffeners.

E. Samples

1. Samples for Initial Color Selection: Submit samples of each specified finish on 10-inch long sections of members. Where finishes involve normal color variations, include sample sets showing the full range of variations; include sample sets showing the full range of variations expected.
2. Perforated Metal Panel Sample: 8” x 8”, of perforated metal guard panel, finished as specified.
3. Full Scale Sample: If requested, furnish an assembled, operational, full-scale sample including all required items to demonstrate operation of system. Sample shall be approximately 18” x 30” showing fabrication techniques and workmanship, including all required hardware and accessories.

F. Manufacturer Certifications:

1. AAMA Certification: Submit certification stating that units comply with AAMA CFR-200.935, "Security Screen-Heavy" and SMA 6001-2002 for impact, forced entry resistance and sag test reports from a qualified testing agency.

a. Test Requirements: Comply with test criteria of SMA 6001-2002.

1) Impact Test: An impact of 100 ft. lbs of force causing a deflection of not more than 3" as specified for heaving rating.
2) Sag Test: 90 lbs of weight applied for 5 minutes with permanent sag of not more than 0.063" as specified for heaving rating.
3) Force Entry Test: Three loads of force: A: 150 lbs, B: 300 lbs, C: 50 lbs applied to the screen as specified for heaving rating.

2. Testing: Submit copy of test report(s) signed by an Independent Laboratory. Test reports more than four years old will not be accepted.

1.5 PRODUCT HANDLING

A. Protection: Use all means necessary to protect materials of this Section before, during, and after installation and to protect installed work and materials of all other trades.

B. Replacements: In the event of damage, immediately make all repairs and replacements necessary to approval of the Architect and at no additional cost to the Owner.

C. Delivery and storage: Deliver all materials to the job site in their original unopened containers with all labels intact and legible at time of use. Store in strict accordance with the manufacturers recommendations.

1.6 EXISTING CONDITIONS

A. Existing Measurements: Check actual existing window openings by accurate field measurement before fabrication. Coordinate fabrication schedule with construction progress to avoid delay of the work.

B. Coordinate and obtain from the field all dimensions needed for fabrication and installation of new window guards. Include field dimensions on shop drawings. Obtain dimensions and details for the operation of the new or existing windows, blocking of the windows, brick set backs, anchors, and all information needed to install the window guards.

C. Notify the Architect in writing of any discrepancies or conditions, which are detrimental to proper and timely completion of the work. Proceeding with the erection of the work means acceptance of the existing conditions.

1.7 WARRANTY

A. Special Warranty: Submit a written warranty signed by window guard manufacturer agreeing to repair or replace window guard components that fail in materials or workmanship within the specified warranty period. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection.
2. Faulty operation of window guard and hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.

B. Warranty Period for The Window Guard Unit: Five (5) years after date of Preliminary Acceptance.

C. Warranty Period for Metal Finishes: Five (5) years after date of Preliminary Acceptance.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers: Subject to compliance with requirements, furnish metal window guards manufactured by one of the following:

1. Accurate Screening Media, Inc.
2. Avant-Guards.
3. Exeter Architectural Products
4. Kane Manufacturing Corporation.
5. Air Tec.
6. Harmony Products Inc.

2.2 MATERIALS

A. Extruded Aluminum: ASTM B 221, 6063-T6 alloy and temper having a minimum ultimate tensile strength of not less than 35,000 psi and a yield strength of not less than 31,000 psi.

B. Steel Sheet, Galvannealed: ASTM A 653 (commercial quality), Coating Designation G90, mill phosphatized, stretcher leveled.

C. Steel Sheet, Aluminum-Zinc Coated: Commercial-quality, cold-rolled, stretcher-leveled, carbon-steel sheet, complying with the following requirements:

1. Aluminum-Zinc Alloy-Coated Steel Sheet: ASTM A 792, Class AZ50 coating, Grade 40.

D. Stainless-Steel Sheet: ASTM A 167, Type 304, stretcher leveled with the following mill finish suitable for application of specified paint finish:

1. Polished requiring no polishing after fabrication to produce the SSINA No. 4 polished finish.

E. Fasteners and Anchors: Fasteners and anchors and all other materials, required for a complete and operable installation, shall be non-magnetic 300 series stainless steel.

1. Furnish concealed fasteners except where exposed fasteners are unavoidable.
2. Where exposed in finished surfaces, use Torx tamper resistant fasteners.

F. Steel Scribing Angle: shall be formed from 0.062" thick 1-1/4" by 1" galvannealed steel angles and shall be at head and jambs.

G. Concealment Plates: shall be formed from 0.090” thick galvannealed steel plate of sufficient size and fastened to mainframe to conceal fasteners anchoring perforated metal panel to subframe and to conceal locking bolts.

H. Horizontal Stiffener: The horizontal stiffener shall be located and centered at each window-meeting rail.

I. Where indicated screen infill shall be perforated metal panel shall be minimum 18 gauge stainless steel with 5/32" diameter holes on 3/16" centers, staggered pattern and with an open area of 63% of total panel area. Paint perforated panels after punching process is complete.

J. Locking Mechanism: Provide key operated maintenance multi-point mechanism that activates a cast metal bolt at the sill and a two directional metal lock and keeper.

K. Locks and Release: Each window guard shall have a locking system, which shall activate the operation of an emergency release mechanism. A single handle located at the sill of the screen shall be provided for emergency egress. This release, when activated, shall simultaneously release all latching mechanisms and open the window guard in the direction of egress for instant access for exiting. The emergency egress release shall meet the requirements of NFPA 101, section 5-2.1.7.1, whereby a push in the direction of egress unlocks and opens the window guard in one motion. Any further lifting or sliding of the window guard or its locking mechanisms shall be unacceptable. The window guard shall latch and lock with one pulling motion when closing.

1. Lock bar shall be a solid bar with minimum cross sectional area of 0.295 square inches and not less than 0.375 inches in diameter.

L. Hardware: Each screen shall be furnished with two or more concealed 13 gauge, minimum steel hinges with minimum 1/4" inch diameter hardened, loose stainless steel pins and integral compression guards or stainless steel pivots with minimum 1/4” diameter hardened stainless steel pins. Each screen shall have all necessary installation hardware, including fastening screws. Each screen shall come fully assembled and tested from the factory.

M. Custodial Locks: At fixed windows and transoms, furnish a custodial-keyed locking device to allow the window to be cleaned from the exterior. For openings having a vertical dimension less than 3 feet, furnish one locking device at the mid point of the screen frame jamb. In vertical openings exceeding 3 feet furnish one lock for every 3 feet of vertical height. Locate locks on the frame jambs at quarter points.

N. Limit Device: An adjustable arm made of galvanized steel shall be provided and located at the head, to limit the screen from swinging open past 100 degrees. Field adjustment shall be possible to accommodate existing conditions.

O. Security Tags: Each unit shall be supplied with “red” tamper proof tags designed to indicate if emergency release has been operated. An additional 200 tags shall be provided to the Owner.

P. Furnish all other materials, not specifically described but required for a complete and operable installation of the window guards.

2.3 FABRICATION

A. Fabricate and assemble window guards at the manufacturer's shop to the fullest extent possible and before applying finishes, including, but not limited to, welding, cutting, drilling, and fitting of joints. Furnish mortising, drilling, tapping, and reinforcement required for hardware at fabrication plant prior to application of finishes.

B. Welding: Use electrodes and methods recommended by manufacturer of material being welded, and in accordance with applicable AWS standards. Use only methods, which prevent distortion and discoloration of exposed faces. Grind weld areas smooth. Restore finish of component parts after welding and grinding.

C. Dissimilar Materials: Separate dissimilar materials with a heavy coating of epoxy paint or other suitable permanent separation as required to prevent galvanic action.

D. Window guards shall be side hinged or pivoted. Window guards shall be fabricated so hinges shall not carry the weight of the operable guard panel when the panel is in the closed position. Panels shall be supported on frame with plastic supports to support panel and facilitate smooth opening of the operable panel.

E. Removal of hinge pins shall not allow access from the exterior.

F. All hinge and latch mechanisms and fasteners shall be concealed and inaccessible from the exterior.

G. Fasten perforated metal window guard panel to subframe using screws, spaced 4” on center maximum and concealed with a continuous angle fastened with Torx tamper resistant screws.

H. Anchoring mechanisms shall be adjustable to accommodate variations in window openings. Adjustability range shall be 3” vertically and 3” horizontally.

I. Vertical juncture of a pair of adjoining window guards shall occur at the centerline of the window mullions behind and shall be capped and sealed continuously at head.

J. Weeps: Furnish weeps to drain water entering the window guards to the exterior.

K. Fasteners used to anchor metal window guards to adjacent construction shall be installed in the plane of the wall so that during forcible entry attempts, the fasteners are stressed in shear.

2.4 FINISH

A. Steel Finish Preparation: Prepare steel surfaces for painting as recommended by coating manufacture.

B. Aluminum Preparation: Prepare aluminum in accordance with coating manufacturer’s recommendations.

C. Stainless Steel Preparation: Prepare stainless in accordance with coating manufacturer’s recommendations.

D. Furnish shop applied paint system after assembly consisting of Tnemec Series 161 Epoxy - Polyamide primer and Tnemec Series 74 high-build acrylic polyurethane enamel finish applied in accordance with paint system manufacturer's recommendations, minimum 3.5 mil dry.

1. At the option of the manufacturer, Furnish shop electrostatically applied polyester powder coated finish. Powder coating finish shall meet or exceed AAMA 603.8.

E. Colors: Furnish custom colors to match aluminum window framing at each window on the concealment angles and frame assembly. Balance of assembly and perforated stainless steel panel shall be matte black.

PART 3 - EXECUTION

3.1 INSPECTION

A. Verify that openings fit allowable tolerances are plumb, level, provide a solid anchoring surface and comply with approved shop drawings.

B. Plumb and align faces in a single plane and erect doors square and true adequately anchored. After completion of installation, screens shall be in proper working condition.

3.2 INSTALLATION

A. Exterior guards shall cover those portions of windows indicated on the drawings. Guards shall be secured to jambs, heads and sills, with anchors equally spaced and 1'-6" on center maximum.

B. Exterior guards shall not be secured to window frame, panning or mullions or any portion of the window that will void the aluminum window manufacturer's warranty.

C. Shim and allow for movement resulting from changes in thermal conditions. Furnish separators and isolators to prevent freeze-up of moving joints.

D. Install in accordance with approved shop drawings, manufacturer's instructions, and specifications. Plumb and align faces in a single plane and erect screens square and true, adequately anchored. After completion of installation, screens shall be adjusted to insure proper operation.

3.3 DEMONSTRATION

A. After installation and final inspection, test and demonstrate emergency egress operation. Operate the latch release and close and lock the window guard from the inside.

3.4 CLEANING

A. Clean work of this Section upon completion. Remove debris resulting from work of this Section.

END OF SECTION

SECTION 10 26 00

WALL PROTECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes wall protection as indicated and as specified.

1.2 SUBMITTALS

A. Product Data: For each type of wall protection, submit manufacturer's printed data including materials, accessories, construction, finishes, assembly, installation, cleaning and maintenance instructions.

B. Shop Drawings: Submit floor plan layout indicating locations and dimensions of wall protection. Indicate relationship to adjoining surfaces. Also provide elevations and details showing closure caps where required and accessories. Indicate installation and appropriate anchorage and blocking requirements for specific project substrates.

C. Samples: For verification purposes of stainless steel, submit 6” long sample for each type of wall protection indicated.

1.3 QUALITY ASSURANCE

A. Single-Source Responsibility: Obtain wall protection and accessories from one manufacturer.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Do not deliver wall protection until spaces to receive them are clean, dry, and ready for installation.

B. Protect wall protection from damage during delivery, handling, storage, and installation.

C. Store materials to prevent twisting or sagging to materials.

1.5 PROJECT CONDITIONS

A. Products must be installed in an interior climate controlled environment.

1.6 COORDINATION

A. Coordinate layout, installation, and required blocking for wall protection with other construction, including partition assemblies, and applied wall finishes.

B. Furnish layouts for blocking, inserts, clips, or other supports required to be installed by other trades for support of wall protection well in advance of time needed so not to cause a delay in the Work.

1.7 WARRANTY

A. Lifetime Warranty against material and manufacturing defects.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

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

1. IPC Door and Wall Protection Systems, InPro Corporation
2. Pawling Corporation
3. C-Sgroup

2.2 MATERIALS

A. Stainless Steel: Corner guard shall be manufactured from Type 430, 16 gauge Stainless Steel or Type 304, 16 gauge.

B. Adhesive: For surface applied wall protection units provide PL Premium Heavy Duty Adhesive.

C. Fasteners: For flush mounted wall protection units provide manufacture provided phillips head screws within pre-drilled beveled holes.

2.3 WALL PROTECTION UNITS

A. Flush Mount (GC-1)

1. 3” x 3” x full height (as indicated on drawings) with 1/8” corner radius.

a. Basis-of Design: InPro Corp, Model SSEW-FM, Custom

B. Surface Mount (GC-2)

1. 1-1/2” x 1-1/2” x full height (as indicated on drawings) with 1/8” corner radius.

a. Basis-of -Design: InPro Corp, Model 1811, Cement-on, Custom

C. Flush Mount End Wall Protector (CG-3)

1. 2” wings x Wall Thickness (as indicated on drawings) x full height (as indicated on drawings) with 1/8” corner radius.

a. Basis-of Design: InPro Corp, Model SSEW-FM, Custom.

D. Surface Mount End Wall Protector (CG-4)

1. 2” wings x Wall Thickness (as indicated on drawings) x full height (as indicated on drawings) with 1/8” corner radius.

a. Basis-of -Design: InPro Corp, Model 1811, Cement-on, Custom

2.4 FINISHES

A. Stainless steel: No. 4 satin finish.

B. All edges to be deburred.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Locate wall protection as indicated on the approved detail drawing(s) for the appropriate substrate and in compliance with the manufacture installation instructions.

B. Install wall protection with accessories according to manufacturer's recommendations. Install plumb, level, and rigid at the height indicated on the drawings.

C. Surface must be dry, clean and properly sealed.

D. Cement on: Apply a bead of adhesive in a zigzag pattern over the back of each wing of the corner guard. Position corner guard on the wall and apply pressure until a tight fit is achieved.

E. Screw on: Position the corner guard on the wall and attach it using the supplied screws.

F. Remove the protective plastic covering from the exposed surface of the corner guard.

G. Complete all finishing operations, including painting, before beginning installation of wall protection.

3.2 ADJUSTING, CLEANING, AND PROTECTION

A. Clean wall protection surfaces in accordance with manufactures maintenance instructions.

B. Protect wall protection form damage, abuse, dust, dirt, stain, or paint.

C. Replace units that cannot be restored to factory-finished appearance to satisfaction of Architect.

D. Use only materials and procedures recommended or furnished by wall protection manufacturer.

END OF SECTION

SECTION 10 51 13

METAL LOCKERS - ELEMENTARY SCHOOLS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes lockers indicated and as specified.

1.2 SUBMITTALS

A. Product Data: Submit manufacturer's printed data including materials, accessories, construction, finishes, assembly, and installation instructions.

B. Shop Drawings: Submit layout and dimensions of metal lockers. Indicate relationship to adjoining surfaces. Show locker elevations and details, fillers, trim, base, sloping tops, and accessories. Include locker numbering sequence. Indicate installation and anchorage requirements.

C. Samples: Submit manufacturer's color charts showing a full range of custom colors.

D. LEED Submittals:

1. Credit MR 4.1[and Credit MR 4.2]: 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 5.1[and Credit MR 5.2]: Submit product data for regional materials indicating 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.

1.3 QUALITY ASSURANCE

A. Single-Source Responsibility: Obtain locker units and accessories from one manufacturer.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Do not deliver lockers until spaces to receive them are clean, dry, and ready for locker installation.

B. Protect lockers from damage during delivery, handling, storage, and installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

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

1. Art Metal Products, Div. of Fort Knox Storage Co.
2. De Bourgh Manufacturing Co.

a. Color: Navy Blue

3. Lyon Metal Products Inc.
4. Penco Products.
5. Republic Storage Systems Co., Inc.

2.2 MATERIALS

A. LEED Requirements: Maximize the percentage of recycled content of the steel sheet, but not less than 25%.

B. Steel Sheet: ASTM A 1008, commercial steel (CS) type B.

C. Electrolytic Zinc-Coated Steel Sheet: ASTM A 591/A 591M, with full zinc coating, mill phosphatized.

D. Fasteners: Zinc- or nickel-plated steel; slotless-type exposed bolt heads; self-locking nuts or lock washers for nuts on moving parts.

E. Equipment: Manufacturer's standard plated steel hooks or coat rods.

2.3 WARDROBE LOCKERS

A. Body: Form backs, tops, bottoms, sides, and intermediate partitions of flanged 0.0598 inch (1.5 mm) (16 gauge) minimum steel sheet.

1. End Panels: .0598 inch (1.5 mm) (16 gauge) minimum steel sheet.

B. Frames: Form channel frames of 0.0598 inch (1.5 mm) minimum steel sheet. Form continuous integral strike on vertical frame members or weld 0.0897 inch (2.3 mm) minimum latch hooks to latch strike frame.

1. Cross Frames: Form intermediate channel cross frames to double- or triple-tier lockers of 0.0598 inch (1.5 mm) (16 gauge) minimum steel sheet.

C. Shelf: Form 0.0598 inch (1.5 mm) (16 gauge) minimum steel sheet hat shelf in single-tier units.

D. Door: One-piece steel sheet, flanged at all edges, constructed to prevent springing when opening or closing. Fabricate to swing 180 degrees.

1. Thickness: 0.0747 inch (1.9 mm) (14 gauge) minimum.

E. Reinforcing Panels: Brace or reinforce inner face of doors with manufacturer's standard reinforcing stiffener panels.

F. Acoustical Treatment: Fabricate lockers for quiet operation with manufacturer's standard rattle-free latching mechanism and moving components isolated to prevent metal-to-metal contact.

G. Louvered Vents: Stamped, louvered vents in door face, as follows:

1. Single-Tier Lockers: No fewer than 6 louver openings top and bottom.
2. Double-Tier Lockers: No fewer than 3 louver openings top and bottom.

H. Continuous Hinges: Manufacturer's standard steel continuous hinge mounted to door and frame.

I. Recessed Handle and Latch: Manufacturers' standard housing to form recess for latch lifter and locking devices; nonprotruding latch lifter containing strike and eye for padlock; and automatic, prelocking, pry-resistant latch mechanism with latching action as follows:

1. Single-Tier Lockers: Not less than 3 point latching.
2. Double- and Triple-Tier Lockers: Not less than 2 point latching.

2.4 ACCESSIBLE LOCKERS

A. Provide single tier accessible lockers in quantity of 5% of total lockers to be installed. Accessible lockers shall have top and bottom shelves and coat hooks within the following reach ranges.

1. CPC, Pre-K, K:

a. Low shelf reach: 20 inches.
b. High shelf reach: 36 inches.

2. Grades 1 through 2:

a. Low shelf reach: 18 inches.
b. High shelf reach: 40 inches.

3. Grades 3 through 8:

a. Low shelf reach: 16 inches.
b. High shelf reach: 44 inches.

B. Hardware for accessible lockers shall comply with ADA Accessibility Guidelines 4.27.4 Operation. Controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbs. The hardware shall be designed to provide resistance to overcome the closing device and not exceed 5 lbs. Touch latches, flush pulls, lever handles and U-shaped pulls are acceptable.

2.5 LOCKS

A. Fabricate lockers to receive the following locking devices:

1. Pad lock provided by Board.

2.6 LOCKER ACCESSORIES

A. Equipment: Furnish each locker with the following items, unless otherwise shown:

1. Single- and Double-Tier Units: 1 double-prong ceiling hook, and not fewer than 2 single-prong wall hooks.

B. Number Plates: Manufacturer's standard etched, embossed, or stamped, nonferrous-metal number plates with numerals not less than 3/8 inch (9 mm) high. Number lockers in sequence indicated. Attach plates to each locker door, near top, centered, with at least 2 fasteners of same finish as number plate.

C. **Horizontal and vertical metal recess trim using concealed fasteners. Trim to have hairline joints and concealed splice plates. Color to match lockers.**

2.7 FABRICATION

A. Fabricate lockers square, rigid, and without warp, with metal faces flat and free of dents or distortion. Make exposed metal edges free of sharp edges and burrs, and safe to touch. Weld frame members together to form a rigid, 1-piece structure.

1. Form locker body panels, doors, shelves and accessories from 1-piece steel sheet unless otherwise indicated.
2. Preassemble lockers by welding all joints, seams, and connections. Grind exposed welds flush.

2.8 FINISHES, GENERAL

A. Comply with NAAMM "Metal Finishes Manual" for recommendations relative to applying and designating finishes.

B. Finish all steel surfaces and accessories, except prefinished stainless-steel and chrome-plated surfaces.

C. Protect mechanical finishes on exposed surfaces from damage by applying strippable, temporary protective covering prior to shipment.

D. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within 1/2 of the range of approved samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved samples and they are assembled or installed to minimize contrast.

2.9 STEEL SHEET FINISHES

A. Surface Preparation: Solvent-clean surfaces complying with SSPC-SP 1 to remove dirt, oil, grease, and other contaminants that could impair paint bond. Remove mill scale and rust, if present, from uncoated steel complying with SSPC-SP 5 (White Metal Blast Cleaning) or SSPC-SP 8 (Pickling), and phosphatize surfaces.

B. Baked-Enamel Finish: Immediately after cleaning and pretreating, apply manufacturer's standard baked-enamel finish consisting of a thermosetting topcoat. Comply with paint manufacturer's instructions for application and baking to achieve a minimum dry film thickness of 1.3 to 1.5 mils.

1. Color and Gloss: As selected by Architect from manufacturer's full range of choices for color and gloss.

C. TGIC Polyester Powder Coating System: Immediately after cleaning and pretreating, apply manufacturer's standard TGIC polyester powder coating. Comply with paint manufacturer's instructions for application and baking to achieve a minimum dry film thickness of 2 to 3 mils.

D. Provide baked-enamel finish or powder coating system at manufacturer’s option.

E. Color and Gloss: 2 custom colors and gloss as selected by Architect.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install metal lockers complete with accessories according to manufacturer's recommendations. Install plumb, level, rigid, and flush.

B. Connect together welded locker groups with standard fasteners according to manufacturer's recommendations, with no exposed fasteners on face frames.

C. Anchor lockers to floors and walls at intervals recommended by manufacturer but no greater than 36 inches (910 mm). Install anchors through back-up reinforcing plates where necessary to avoid metal distortion, using concealed fasteners.

D. Install recess trim to recessed lockers using concealed fasteners. Provide hairline joints and concealed splice plates.

3.2 ADJUSTING, CLEANING, AND PROTECTION

A. Adjust doors and latches to operate easily without binding. Verify that integral locking devices are operating properly.

B. Clean interior and exposed exterior surfaces and polish stainless-steel and nonferrous metal surfaces.

C. Protect lockers from damage, abuse, dust, dirt, stain, or paint. Do not permit locker use during construction.

D. Touch up marred finishes, or replace locker units that cannot be restored to factory-finished appearance to satisfaction of Architect. Use only materials and procedures recommended or furnished by locker manufacturer.

END OF SECTION

SECTION 26 09 33

LIGHTING CONTROL SYSTEMS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Line and low voltage standalone lighting controls
B. Distributed lighting control
C. Central lighting controls

1.2 RELATED WORK

A. Section 26 51 00 - Lighting

1.3 QUALITY ASSURANCE

A. Manufacturers shall be regularly engaged in the manufacture of lighting control equipment and ancillary equipment, of types and capacities required, whose products have been in satisfactory use in similar service for not less than five (5) years.

B. All components and assemblies are to be factory pre-tested prior to delivery and installation.

C. Comply with CEC as applicable to electrical wiring work.

D. Comply with applicable portions of NEMA standards pertaining to types of electrical equipment and enclosures.

E. Panels and accessory devices are to be UL listed under UL 916 Energy Management Equipment. Panels and accessories used for control of life safety circuits shall be listed under UL 924 Emergency Lighting and Power Equipment.

F. All assemblies are to be in compliance with FCC emissions standards specified in Part 15 Subpart J for Class A applications.

1.4 REFERENCES

A. FCC Rules and Regulations, Part 15, Subpart J - Radio Frequency Interference
B. FS W S 896 Switch, Toggle
C. International Energy Conservation Code (IECC)
D. NEMA WD 1 - General Color Requirements for Wiring Devices
E. NEMA WD 7 - Occupancy Motion Sensors
F. Chicago Electrical Code
G. UL Standard 916 Energy Management Equipment
H. UL 924 - Emergency Lighting and Power Equipment
I. UL 1472 – Solid-State Dimming Controls

1.5 SUBMITTALS

A. Submit product data under provisions of Section 26 05 03.

B. Submit a comprehensive package including devices, hardware, software, product specification, finishes, dimensions, installation instructions, warranty, system software requirements, and roles and responsibilities of all persons and groups involved in installation, execution, and commissioning.

C. Provide floor plan showing location, orientation, and coverage area of each control device, sensor, and controller/interface. For areas requiring multiple sensor devices for appropriate coverage, submit specific manufacturer-approved sensor layout as an overlay directly on the project drawings, either in print or approved electronic form.

D. Submit a list of devices and equipment that will be installed for each sequence of operation.

E. Submit project specific control wiring diagrams showing all equipment, line voltage, and control wiring requirements for all components including, but not limited to, dimmers, relays, low voltage switches, occupancy sensors, control stations, dimmer panels, relay panels, and communication interfaces and programming instructions for each sequence of operation. Include network cable specification and end-of-line termination details, if required.

F. Project specific network riser diagram including floor and building level details. Illustrate points of connection to integrated systems. Coordinate integration with mechanical and/or other trades.

1.6 EXTRA STOCK

A. Provide extra stock under provisions of Section 26 05 03.

B. Sensors, Controls, Power Supplies, and Relays: Five (5) percent of quantity installed. Minimum of two (2) of each configuration and type.

C. Relays and Dimmer Modules: Five (5) percent of quantity installed. Minimum of two (2) of each size and type.

D. Control Stations: One (1) of each configuration and type, with the exception of LCD touch screens requiring factory setup prior to installation.

1.7 PROJECT RECORD DOCUMENTS

A. Submit project record documents under provisions of Section 26 05 03.

B. Accurately record location of all controls and devices. Include description of switching sequences and circuiting arrangements.

1.8 OPERATION AND MAINTENANCE DATA

A. Submit emergency, operation, and maintenance data under provisions of Section 26 05 03. Data shall also include the following:

1. Schedule for routine maintenance, inspection, and calibration of all lighting control devices and system components. Recommended schedule for inspection and recalibration of sensors.

2. Complete narrative describing intended operation and sequence for each control scenario and system component, updated to reflect all changes resulting from commissioning of systems. Narrative shall indicate recommended settings for devices where applicable.

3. Replacement part numbers for all system components.

B. Identify installed location and labeling for each luminaire controlled by automated lighting controls.

1.9 SYSTEM DESCRIPTION

A. Performance Statement: This specification section and the accompanying lighting design documents describe the minimum material quality, required features, and operational requirements of the lighting control system (LCS). These documents do not convey every wire that must be installed and every equipment connection that must be made. Based on the performance required of the system, as presented in these documents, the Contractor and system manufacturer/vendor are solely responsible for determining all equipment, wiring, and programming required for a complete and operational system.

B. Provide an integrated lighting controls system consisting of panels, power supplies, controllers, sensors, relays, switches, devices, wiring, etc. necessary to perform the Lighting Control Sequence of Operation as defined on the plans and specifications. Contractor is responsible for confirming that all components and luminaires interoperate as a single system.

1. Sequence of Operation: Describes the required operation and performance for lighting control in each space. Sequences of operation are indicated on the drawings.

2. Drawings: The drawings include sequences of operation, locations of control interface devices, sensors, and control zones. Wiring and additional equipment to make a complete and functioning system has not been shown, but shall be submitted with the shop drawings.

C. The following control types and features are acceptable. Acceptable control locations are shown on the drawings.

1. Line Voltage Control: Control equipment consists of traditional line voltage wiring devices and equipment such as switches, dimmers and combination occupancy/vacancy sensor switches, etc.

2. Distributed Control: Control equipment is located in the space/zone being controlled; not reliant on centralized controllers.

a. All locations shall have the ability to be networked for remote control and monitoring.

3. Centralized Control: Control equipment is located in a central location serving multiple spaces/zones and provides time-based schedule and remote control.

a. The lighting control system (LCS) shall be networked with BACnet IP capabilities.

b. The lighting control system (LCS) shall have DMX512 capabilities.

1.10 COMMISSIONING

A. Commissioning of a system or systems specified in this section is part of the construction process. Documentation and testing of these systems, as well as training of the Owner's operation and maintenance personnel, is required in cooperation with the Owner's Representative and the Commissioning Agent. Project closeout is dependent on successful completion of all commissioning procedures, documentation, and issue closure. Refer to Division 1 for detailed commissioning requirements.

B. The Contractor shall provide all services necessary for compliance with the IECC Section C408 Commissioning. The commissioning shall include, but not be limited to, a commissioning plan, preliminary commissioning report, construction documents, manuals, final commissioning report, and lighting system functional testing.

C. This project will have selected building systems commissioned. The Contractor is responsible to execute commissioning. The commissioning process, equipment, and systems to be commissioned are defined in Division 1. A third-party Commissioning Agent will direct the commissioning process.

D. The Contractor shall notify the Commissioning Agent, Architect/Engineer and Owner's Representative ten (10) working days prior to scheduled commissioning date.

E. The commissioning process requires meeting attendance. Refer to Division 1 for meeting requirements.

F. The system shall be functionally tested by a factory-authorized engineer and comply with the Sequence of Operation. All loads shall be tested live for continuity and freedom from defects, and all control wiring shall be tested for continuity and connections prior to energizing the system.

1.11 WARRANTY

A. Manufacturer shall warrant products under normal use and service to be free from defects in materials and workmanship for a period of two (2) years from date of commissioning.

B. Occupancy, vacancy, daylight sensors and controls shall have a five (5) year warranty from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 LIGHTING CONTROLS

A. All items of material having a similar function (e.g., switches, dimmers, sensors, contactors, relays, etc.) shall be of the same manufacturer, unless specifically stated otherwise on drawings or elsewhere in the specifications.

B. Color of lighting controls and sensors shall match the receptacle wiring devices specified in the space.

C. The functions described in the lighting sequence of operation shall dictate the actual lighting control device required to accomplish the functions described for the space.

2.2 LIGHTING CONTROL STATION

A. The lighting control station shall contain the controls required by the lighting sequence of operation in a common coverplate. The controls may consist of switches, dimmers, occupancy sensors, pushbuttons, etc.

1. In spaces where the wall control station is shown in multiple locations, the sequence of operation shall be the same at all locations, unless noted otherwise.

2. The controls supplier shall prepare control station shop drawings showing arrangement of controls, dimensioned elevations, wiring diagram, and recommended backboxes. The shop drawing submittal should be identified with the lighting sequence that the station provides. Submit data sheets on the switches, dimmers, sensors, buttons, etc. contained in the control station.

2.3 DEVICE COLOR

A. All switch, lighting controls, and coverplate colors shall be the same as wiring devices, unless indicated otherwise.

2.4 COVERPLATES

A. All switches and lighting controls shall be complete with coverplates that match material and color of the wiring device coverplates in the space.

B. Where several devices are ganged together, the coverplate shall be of the ganged style for the number of devices used.

C. Install nameplate identification as indicated in Section 26 05 53.

D. Plate-securing screws shall be metal with head color matching the wall plate finish.

2.5 WALL SWITCHES

A. Refer to Electrical Symbols List for device type.

B. Single Pole Switch:

1. Single throw, 120/277 volt, 20 amp maintained contact. Toggle handle, side and back wired.

2. Approved Manufacturers: Hubbell HBL1221, Leviton 1221-2, Pass & Seymour PS20AC1, Cooper AH1221.

C. Spring Wound Local Timer Switch:

1. 125 volt, 20 amp rated. 0 to 60 minute off delay.

2. Approved Manufacturers: Paragon SWPD60M, Tork A560M, Mark-Time 9008.

D. Local Timer Switch:

1. User adjustable timeout, 120/277 volt, 800/1200 watt rating. No minimum load requirement. Flashes lights one minute before timeout.

2. Approved Manufacturers: Watt Stopper TS-400, Hubbell Automation TD200.

E. Key Lock Single Pole Switch:

1. Single throw, 120/277 volt, 20 amp maintained contact. Side and back wired. Provide key to Owner.

2. Approved Manufacturers: Hubbell HBL1221L, Leviton 1221-2L, Pass & Seymour PS20AC1-L, Cooper AH1221L.

F. Key Lock Two Pole Switch:

1. Single throw, 120/277 volt, 20 amp maintained contact. Side and back wired. Provide key to Owner.

2. Approved Manufacturers: Hubbell HBL1222L, Leviton 1222-2L, Pass & Seymour PS20AC2-L, Cooper AH1222L.

G. Three-way Switch:

1. 120/277 volt, 20 amp. Toggle handle, side and back wired.

2. Approved Manufacturers: Hubbell 1223, Leviton 1223-2, Pass & Seymour PS20AC3, Cooper AH1223.

H. Key Lock Three Way Switch:

1. Single throw, 120/277 volt, 20 amp maintained contact. Side and back wired. Provide key to Owner.

2. Approved Manufacturers: Hubbell HBL1223L, Leviton 1223-2L, Pass & Seymour PS20AC3-L, Cooper AH1223L.

I. Four-way Switch:

1. 120/277 volt, 20 amp. Toggle handle, side and back wired.

2. Approved Manufacturers: Hubbell 1224, Leviton 1224-2, Pass & Seymour PS20AC4, Cooper AH1224.

2.6 WALL DIMMERS

A. UL listed with integral air-gap switch for on/off control.

B. Integral EMI/RFI suppression.

C. Non-viewable heat sink.

D. Dimmer compatibility and wiring with the load being controlled shall be verified by Contractor prior to purchase and installation.

E. Dimmer to match device color.

F. LED Electronic Driver Dimmer:

1. 120 volt, decora style linear slider operator with positive off. Color to match adjacent devices. Luminaire manufacturer shall list compatible dimmer manufacturers and models. 0-10V dimmers shall comply with IEC 60629 Annex E.

2. Approved Manufacturers: Compatible with provided LED driver.

G. Low Voltage Electronic Ballast Dimmer:

1. 120 volt, linear slider operator with positive off. 450 watt capacity.

2. Approved Manufacturers: Lutron NELV-450, Lightolier MP625QE.

H. Low Voltage Magnetic Ballast Dimmer:

1. 120 volt, linear slider operator with positive off. Subscript denotes wattage, 6=450W, 10=800W, 15=1200W.

2. Approved Manufacturers: Lutron NLV-600 NLV-1000 or NLV-1500, Lightolier.

I. Wall 0-10V Dimmer / Occupancy sensor:

1. Wall switch with manual on/auto off. 120VAC load rating of 0-800 W for electronic ballast, LED. 277VAC load rating of 0-1,800 W for electronic ballast, LED. adjustable OFF delay. 0-10V dimming with up to 30ma sink. Automatic ON/OFF, manual ON/automatic OFF, or occupancy on to predetermined dimming level go to last dimming setting upon occupancy.

2. Approved Manufacturers: Sensor Switch WSX D Series

2.7 LOCAL DAYLIGHTING CONTROLS

A. Standalone Interior Photo Sensors:

1. Daylight Level Sensor and Controller - 0-10V Dimming - One Zone:

a. Dimming control of one 0-10V zone. Range of 10 to 200 FC. Adjustable deadband prevents cycling. Adjustable time delay. Coordinated with dimming ballast prior to submittal.

b. Approved Manufacturers: Watt Stopper LS-301, Hubble Automation DLC7, Sensor Switch N-CMADC.

2. Sensor shall detect changes in ambient light level and provide triggering of lighting groups in area based on sequence of operation.

3. Sensor shall be configurable via DIP switches at device or via handheld wireless remote programming unit. Settings shall include:

   a. Ambient sensitivity range between 1 and 1,000 foot-candles.
   b. Time delay of 5 to 300 seconds.
   c. Trigger setpoints with deadband adjustment.

4. Sensor shall provide on/off setpoints in quantity as specified on drawings and as shown in the sequence of operation.

5. Sensor shall be ceiling- or wall-mounted for range and viewing angle meeting application requirements as outlined in the sequence of operation.

6. Output signal from sensor shall be linear with light level.

B. Standalone Exterior Photo Sensors:

1. Sensor shall be within a weatherproof enclosure, with design operation in temperatures of -30°F to +130°F. Sensor shall have threaded stem for box mounting, with knuckle to permit aiming of receptor after installation. Sensor shall be mounted facing north.

2. Sensor shall contain an integral switching contactor rated for 120-volt operation, with loads of up to 1,800 VA. Contacts shall be configured for zero-crossing closure to provide 100,000 cycle minimum operation.

3. Sensor shall detect changes in daylight levels to provide triggering of exterior lighting equipment based on the sequence of operation.

4. Sensor shall be field configurable at the device or via handheld wireless remote controller. Configurable settings shall include:

   a. Ambient sensitivity range of 5 to 1,500 foot-candles.
   b. Adjustable setpoint.
   c. Deadband adjustment by percentage of setpoint.
   d. Time delay of up to five minutes.

5. Sensor shall be equipped with a lens cover that can be applied for system testing during daylight conditions.

6. Approved Manufacturers: Paragon, Tork, Intermatic.

2.8 INDOOR OCCUPANCY AND VACANCY SENSORS

A. General Description: Wall- or ceiling-mounting, solid-state units with a separate power supply/relay unit.

1. Operation: Unless otherwise indicated, turn lights on when covered area is occupied and off when unoccupied, with a time delay for turning lights off,

adjustable over a minimum range of 1 to 30 minutes. Vacancy sensors require a manual switch operation to turn lights on and off, with a time delay for turning lights off when unoccupied.

2. Sensor Output: Contacts rated to operate the connected relay, complying with UL 773A. Sensor shall be powered from the relay unit.

3. Relay Unit: Dry contacts rated for 20 A ballast load at 120 and 277 VAC, for 13 amp tungsten at 120 VAC, and for 1 hp at 120 VAC. Power supply to sensor shall be 24 V dc, 150-mA, Class 2 power source as defined by NFPA 70.

4. Mounting:

   a. Sensor: Suitable for mounting in any position on a standard outlet box.

   b. Relay: Externally mounted through a 1/2-inch knockout in a standard electrical enclosure. Mount relay above accessible ceiling near entry door to room or area.

   c. Time Delay and Sensitivity Adjustments: Recessed and concealed.

5. Indicator: LED to show when motion is being detected during testing and normal operation of the sensor.

6. Bypass Switch: Override the on function in case of sensor failure.

7. Power Supply and Slave Packs: Provide as required for sensor quantity and switching scheme. Mount to standard 1/2" knockout on electrical box above accessible ceiling near entry door to room or area. Sensor power shall be from emergency circuit if emergency lighting is in the area.

8. Detection Coverage (Room): Detect occupancy anywhere in an area based on hand motion.

9. Detection Coverage (Corridor): Detect occupancy based on a half-step motion.

10. Warranty: Five (5) year warranty.

B. Dual-Technology Type: Detect occupancy by using a combination of PIR and ultrasonic or acoustic detection methods in area of coverage. Particular technology or combination of technologies that controls on and off functions shall be selectable in the field by operating controls on unit.

1. **[SW-VS-D] or [SW-OC-D]**: 360 Degree Coverage Pattern:

   a. Frequency greater than 40 KHz. Dual sensing verifications (requires both technologies to activate), either technology maintains on status. Integrated ambient light level sensor (2 to 200 FC range), adjustable sensitivity and time delay, integrated isolated relay contact. Sensor shall control all circuits in area, unless noted otherwise. Initial settings: ambient sensor 40 FC.

b. Approved Manufacturers: Watt Stopper DT 300 Series, Hubbell OMNI-DT2000 or ATD2000C, Greengate OAC-DT, Leviton OSC##-MOW, Sensor Switch CM PDT 10.

2. Wall Mounted on Adjustable Swivel Mount:

a. Wall or ceiling sensor with adjustable settings to allow manual on/auto off or auto on/auto off. Integrated ambient light level sensor (2 to 100 FC range).

b. Approved Manufacturers: Watt Stopper DT-200 Series, Hubbell LODTRP, Leviton OSM12--M series, Sensor Switch WvPDT 16 Series.

3. Wall Switch:

a. Wall switch with manual on/auto off. 120 VAC load rating of 0-800 W for ballast, LED or tungsten. 5-, 15-, 30-minute adjustable OFF delay. Coverage of minor motion in 12’ x 15’ pattern.

b. Approved Manufacturers: Watt Stopper DW-100 Series, Hubbell LHMTS, Leviton OSSMT series, Sensor Switch WSD-PDT SA Series.

4. Wall Switch:

a. Multi-relay wall switch with manual on/auto off for two separate loads. 120/277 VAC load relay rating of 0-800 W for ballast, LED or tungsten. 5-, 15-, 30-minute adjustable OFF delay. Coverage of minor motion in 12’ x 15’ pattern.

b. Approved Manufacturers: Watt Stopper DW-200 Series, Hubbell LHMTD, Leviton OSSMD series, Sensor Switch WSD-PDT 2P Series.

5. Sensitivity Adjustment: Separate for each sensing technology.

6. Detection Coverage:

a. Task Areas: Detect occupancy anywhere in an area based on hand motion.

b. Circulation Areas: Detect occupancy anywhere in an area based upon half-step walking motion.

C. Mask sensors where necessary to prevent nuisance switching from adjacent areas.

D. PIR Type: Detect occupancy by sensing a combination of heat and movement in area of coverage.

1. Wall Switch Occupancy Sensor:

a. Passive infrared, zero crossing circuitry, integrated ambient light sensor (10 to 150 FC range), adjustable sensitivity and time delay, no minimum load requirements, manual or auto on operation, Initial settings: 10 minutes, ambient sensor 40 FC. Manual ON for vacancy sensing.

b. Approved Manufacturers: Watt Stopper PW-100 Series, Sensor Switch WSX, Hubbell LHIRS1 or AP1277, Leviton ODS15, Greengate OSW-P-0451.

2. Dual Wall Switch Occupancy Sensor:

a. Passive infrared, zero crossing circuitry. Switches control two separate circuits or relays. Integrated ambient light sensor (10 to 150 FC range), adjustable sensitivity and time delay, no minimum load requirements, manual or auto on operation, Initial settings: 10 minutes, ambient sensor 40 FC. Manual ON for vacancy sensing.

b. Approved Manufacturers: Watt Stopper PW-200 Series, Sensor Switch WSD-2, Hubbell LHIRD2 or AP127712, Leviton ODS, Greengate OSW-P-0451.

3. Ceiling Mounted - 360 Degree Coverage Pattern:

a. Passive infrared, zero crossing circuitry, integrated ambient light sensor (4 to 190 FC Range), adjustable sensitivity and time delay, integral isolated relay contact. Sensor shall control all circuits in the area unless noted otherwise. Initial settings: ambient sensor 40 FC.

b. Approved Manufacturers: Watt Stopper CI Series, Sensor Switch CM-9, Hubbell Automation Omni-IR, Leviton OSC Series, Greengate OMR-P Series.

4. With daylight filter and lens to afford coverage applicable to space to be controlled.

E. Ultrasonic Type: Ceiling mounting. Detect occupancy by sensing a change in pattern of reflected ultrasonic energy in area of coverage.

1. 360 Degree 20’ x 20’ Hand Motion Coverage Pattern:

a. Frequency greater than 32 KHz solid state, adjustable sensitivity and time delay, integral isolated 1 amp relay contact, temperature and humidity resistant receivers. Sensor shall control all circuits in area, unless noted otherwise.

b. Approved Manufacturers: Watt Stopper WT-1100 series, Hubbell OMNI-US or ATU series, Leviton OSC series, Greengate ODC-U series.

2. 35’ x 30’ Hand Motion Coverage Pattern:

a. Frequency greater than 32 KHz solid state, adjustable sensitivity and time delay, integral isolated relay contact, temperature and humidity resistant receivers. Sensor shall control all circuits in area, unless noted otherwise.

b. Approved Manufacturers: Watt Stopper WT-2200 series, Hubbell OMNI-US or ATU series, Leviton OSC series, Greengate ODC-U series.

3. 360 Degree Two Sided Corridor Coverage Pattern:

   a. Frequency greater than 32 KHz solid state, adjustable sensitivity and time delay, integral isolated relay contact, temperature and humidity resistant receivers. Sensor shall control all circuits in area, unless noted otherwise.

   b. Approved Manufacturers: Watt Stopper WT-2250 Series, Hubbell OMNI-US or ATU series, Greengate ODC-U Series.

4. Wall Mounted:

   a. Wall switch with adjustable settings to allow manual on/auto off or auto on/auto off.

   b. Approved Manufacturers: Watt Stopper UW-100 Series, Hubbell AU1277I,

5. Crystal controlled with circuitry that causes no detection interference between adjacent sensors.

2.9 DISTRIBUTED LIGHTING CONTROL

A. Acceptable manufacturers as listed below meet the qualifications as outlined in this specification. Contractor is responsible for verifying that selected manufacturer is capable of furnishing the complete system as specified herein.

1. Acuity Controls nLight Series
2. Legrand Watt Stopper DLM Series
3. Hubbell Automation NX Series
4. Eaton Greengate RC3 Series (room-based system)
5. Crestron Electronics
6. Leviton

B. System Description: The lighting control system shall be a network of remote modules connected to a digital network via network hubs and controlled through a system server / central station. Lighting control devices connect to the modules and communicate via the digital network with the system server. System includes all associated wiring, relay modules, photocells, switches, dimmers, time clock, occupancy sensors, network interfaces, and hubs. System shall utilize distributed relays modules, allowing these relay modules to be located above accessible ceilings in or adjacent to rooms they are controlling.

C. Control Devices: All occupancy sensors (ultrasonic, IR and dual technology type), photocells, switches, and timers shall be provided with system and designed to operate on system network. Supplemental power packs shall be provided as required for multiple control devices. This equipment shall be identified in shop drawing submission.

D. Relay Modules: Mounted in NEMA enclosure with physically separate 120 volt wiring compartment from low voltage control wiring. Provide low voltage digital communication to control devices as shown on drawings and schedules. Supplemental power packs shall be provided as required for multiple control devices. This equipment shall be identified in

shop drawing submission. Dimmable relay modules shall be provided where indicated. Relay modules shall contain up to four (4) relays. Relay modules shall be labeled with room number that relays control lighting within.

E. Single-Pole Relays: Mechanically held unless otherwise indicated; split-coil, momentary-pulsed type, rated 20 A, 125 volt AC for tungsten filaments and 20 A, 277 volt AC for electronic ballasts, 50,000 cycles at rated capacity.

F. System server / central station shall provide programmable operation of lights connected via system relays and controlled with system devices. System software shall provide control of relays and control devices, time and sequence scheduling, timed out and blink light operation, and monitoring and reporting of system events and components. Initial programming shall be as shown on plans and schedules.

G. Server / Central Control Station: Lighting control system manufacturer shall be responsible to assure coordination between relay modules, network hubs, and control system server/ central station such that system performs as described. Server shall be provided with monitor, keyboard, and mouse, and plugged into a receptacle connected to an equipment emergency circuit as a minimum.

H. Network Hub: Network Hub shall contain processor and astronomic time clock for control and monitoring of lighting. Network hub shall be fed from an equipment emergency circuit at a minimum.

2.10 CENTRAL LIGHTING CONTROL - RELAY PANEL TYPE (NETWORK)

A. Acceptable manufacturers listed below meet the qualifications as outlined in this specification. Contractor is responsible for verifying that selected manufacturer is capable of furnishing the complete system as specified herein.

1. Crestron
2. Leviton
3. Acuity
4. Eaton
5. Legrand Watt Stopper
6. Hubbell

B. System Description: Lighting Control. Refer to schedules for size, rating, and configuration.

1. The lighting control system shall be a network of lighting relay panels connected to a digital network and controlled through a system server / central station. Lighting control devices connect to the relay panels and communicate via the panel controller with the system server. System includes all associated network interfaces and wiring, relay panels, control modules, input modules, panel processors, relays, photocells, switches, dimmers, time clock, and occupancy sensors.

2. System server / central station shall provide programmable operation of lights connected via system relays and controlled with system devices. System software shall provide control of relays and control devices, time and sequence scheduling,

timed out and blink light operation and monitoring and reporting of system events and components. Initial programming shall be as shown on plans and schedules.

C. Central Control Station: Lighting control system manufacturer shall be responsible to assure coordination between system devices, network, and control system server/ central station such that system performs as described.

D. Cabinet: Steel with hinged, locking door. Barriers separate low-voltage and line-voltage components.

1. Typewritten Directory: Identifies each relay as to load controlled.

E. System Power Supply: Transformer and full-wave rectifier with filtered DC output for panel, controllers, and control devices. Feed from an equipment emergency circuit at a minimum.

F. Relays: Mechanically latched unless otherwise indicated; split-coil, momentary-pulsed type, rated 20°A, for tungsten filaments and NEMA for electronic ballast rated. Rated for 50,000 ON/OFF cycles at rated capacity.

G. Control Devices: All occupancy sensors (ultrasonic, IR and dual technology type), photocells, switches, and timers shall be provided with system and designed to operate on system network. Supplemental power packs shall be provided as required for multiple control devices. This equipment shall be identified in shop drawing submission.

H. Central Lighting Control Features and Functions:

1. Dimming system presets shall be programmable via preset/fader station directly at the control panel, or via network-based workstation software. Dimming presets shall have discrete fade times with 0.1 second resolution, programmable from zero to 24 hours, and shall be selectable via button, fader, clock event, macro or network interface.

2. Clock events shall be activated by calendar schedule, by day type and/or specific day programming, including every day, weekday, weekend, S, M, T, W, H, F, S, Holiday. Clock events shall also be activated by astronomical events, which will compensate for daylight savings time and will have programmable setback periods relative to sunrise and sunset.

3. The system shall be capable of implementing On commands, Off commands, Raise (dimming) commands, Lower (dimming) commands for any relay, group or zone by means of digital wall switches, specification grade line voltage type wall switches, photocell, or other devices connected to programmable inputs in a lighting control panel.

4. Channels for grouping relays shall be provided, each with an associated pushbutton to toggle the channel ON/OFF and a terminal block for a separate dry contact input. Any number of relays in the panel can be assigned to each channel, with overlapping allowed. Channels shall be set up via communication line communications and networking. Each channel pushbutton shall provide LED status indication. The panel shall also have the ability to assign functions to relays

independently of the channels. Panels shall be addressable with DIP switches or other local means to set panel address.

5. System shall accept any type of switch input, including momentary or maintained.

6. System shall support by relay or zone the "blink warning" function. System shall be capable of flashing lights Off/On prior to the lights being turned Off. The warning interval time between the flash and the final lights off signal shall be definable for each zone. Occupant shall be able to override any scheduled Off sweep using local wall switches within the occupied space. Occupant override time shall be locally and remotely programmable and shall not exceed two (2) hours.

7. System shall provide temporary override conditions for each relay or dimmer so that lights can always be turned on.

8. All programming and scheduling shall be able to be done locally at the master lighting control panel and remotely via the Internet. Remote connection to the lighting control system shall provide real-time control and real-time feedback. Lighting control system shall be able to be monitored by and take commands from a remote PC. At any time, should the remote PC go offline, all system programming uploaded to the lighting control system shall continue to operate as intended.

9. All programs, schedules, time of day, etc., shall be held in non-volatile memory for a minimum of two (2) years at power failure. At restoration of power, lighting control system shall implement programs required by current time and date.

I. Ethernet Connection Port - Interoperability:

1. System shall include an Ethernet port for connection to Owner’s TCP/IP network, permitting remote management of system from local or wide area network connection.

2. Contractor shall coordinate with technology vendor to provide an Ethernet connection to (LCP) panel as specified by manufacturer.

J. RS232 Interface for Audio/Visual Interface - Control Interface Stations:

1. Control interface stations shall provide an interface for PC and/or A/V connection to lighting control system.

2. Stations shall utilize RS-232 standard protocol and shall be appropriate DIN-style connector.

2.11 CENTRAL LIGHTING CONTROL INTERFACES

A. Manual Switches, Stations and Plates:

1. Switches: Modular, momentary pushbutton, with addressable capabilities to control the luminaires assigned to that switch. The switch shall be able to actuate the functions based on the described sequence of operation and intended functions.

2. Preset/fader stations shall operate using programmable buttons and/or faders as indicated on drawings.

3. Integral Pilot Light or LED: Indicate that controls are active or powered by being on continuously when powered or when pushbuttons are actuated.

4. Labeling of buttons and faders shall be engraved/screened by manufacturer, using approved text returned with shop drawing submittals.

5. Station control components shall be designed to operate standard default or custom system functions. Components shall operate default functions unless re-assigned via direct or network connection. Function options include: preset selection, manual mode, record mode, station lockout, raise/lower, macro, cue, and room join/separate.

2.12 CONDUCTORS AND CABLES

A. Control Wiring:

1. Where installed with the line-voltage wiring, control wiring shall be copper conductors not smaller than No. 16 AWG with insulation voltage rating and temperature rating equal to that of the line-voltage wiring, complying with Division 26 Section 26 05 11 "Wire and Cable."

2. Tap conductors to switches or relays: Stranded copper conductors of 16 AWG or solid 16 or 18 AWG with insulation rating equal to that of the line-voltage wiring.

3. Tap conductors to dimming ballasts: Solid copper conductors of 18 AWG with insulation voltage rating equal to that of the line-voltage wiring and insulation temperature rating not less than 90°C.

4. Network cabling as required by manufacturer.

B. Splices and Taps:

1. Tapping or wire trap connectors shall be used to splice all Class 1 and Class 2 control wiring. Twist-on, wire-nut type connectors are not allowed.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that surfaces are ready to receive work.

B. Verify field dimensions and coordinate physical size of all equipment with the architectural requirements of the spaces into which they are to be installed. Allow space for adequate ventilation and circulation of air.

C. Verify that required utilities are available, in proper location, and ready for use.

D. Beginning of installation means installer accepts existing conditions.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions and approved shop drawings.

B. All wiring shall be installed in conduit.

C. All branch load circuits shall be live tested before connecting the loads to the lighting control panel.

3.3 SUPPORT SERVICES

A. System Startup:

1. Manufacturer shall provide factory authorized technician to confirm proper installation and operation of all system components.

B. Testing:

1. System shall be completely functional tested by a factory-authorized technician. All loads shall be tested live for continuity and freedom from defects, and all control wiring shall be tested for continuity and connections prior to energizing the system components.

2. Programming of initial zones, schedules, lighting levels, control station groups, and sensor settings shall be performed by a factory-authorized technician. Lighting Control Sequence of Operation shall serve as a basis for programming, However, all final decisions regarding groups and schedules shall be at the direction of the Owner. The following procedures shall be performed at a minimum:

a. Confirm occupancy sensor placement, sensitivity, and time delay settings to meet specified performance criteria.

b. Confirm daylight sensor placement, sensitivity, deadband, and delay settings to meet specified performance criteria.

c. Confirm that schedules and time controls are configured to meet specified performance criteria and Owner’s operating requirements.

3. Verify occupancy/vacancy and daylight sensor operation is correct after furniture and equipment is installed in each area. Make adjustments to sensor settings and time delays to allow proper operation.

4. Verify occupancy/vacancy sensors are located to provide complete coverage for the area served with no nuisance switching.

a. Relocate sensors or provide additional sensors as necessary to provide adequate coverage.

b. Mask occupancy sensors where necessary to prevent nuisance switching from adjacent areas.

C. Training:

1. Manufacturer shall provide competent factory-authorized technician to train Owner personnel in the operation, maintenance and programming of the lighting control system. Submit training plan with notification seven (7) days prior to proposed training dates.

2. Training duration shall be no less than three (3) days, with one (1) day being scheduled at least two (2) weeks after initial training.

D. Documentation:

1. Manufacturer shall provide system documentation including:

a. System one-line showing all panels, number and type of control stations and sensors, communication line, and network or BMS/BAS interface unit.

b. Drawings for each panel showing hardware configuration and numbering.

c. Panel wiring schedules.

d. Typical diagrams for each component.

3.4 SYSTEM COMMISSIONING

A. Contractors' tests shall be scheduled and documented in accordance with the commissioning requirements. Refer to Section General Commissioning, for further details.

B. System verification testing is part of the commissioning process. Verification testing shall be performed by the Contractor and witnessed and documented by the Commissioning Agent. Refer to Section General Commissioning, for system verification tests and commissioning requirements.

C. Training of the Owner's operation and maintenance personnel is required in cooperation with the Owner's Representative. The instruction shall be scheduled in coordination with the Owner's Representative after submission and approval of formal training plans. Refer to Section General Commissioning, for Contractor training requirements.

END OF SECTION

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M1.3	ROOF PLAN - VENTILATION			X	X	X	X	X		X	
M1.3E	EXISTING BUILDING ROOF - MECHANICAL			X	X	X	X				
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M3.1	MECHANICAL DETAILS			X	X	X	X	X		X	
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M7.4	TEMPERATURE CONTROL DIAGRAMS			X	X	X	X	X		X	
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E1.1E	LEVEL 01 EXISTING BUILDING FLOOR PLAN - POWER & SYSTEMS			X	X	X	X	X			
E1.2	LEVEL 02 FLOOR PLAN - POWER & SYSTEMS	X		X	X	X	X	X		X	
E1.2E	LEVEL 02 EXISTING BUILDING FLOOR PLAN - POWER & SYSTEMS			X	X	X	X	X			
E1.3	ROOF PLAN - POWER	X		X	X	X	X	X		X	
E1.3E	EXISTING BUILDING ROOF - ELECTRICAL POWER	X		X	X	X					
E2.1	LEVEL 01 FLOOR PLAN - LIGHTING	X		X	X	X	X	X		X	
E2.2	LEVEL 02 FLOOR PLAN - LIGHTING	X		X	X	X	X	X		X	
E3.1	ELECTRICAL RISER DIAGRAM	X		X	X	X	X	X		X	
E3.2	FIRE ALARM DIAGRAM			X	X	X	X	X		X	
E3.3	INTERCOM SCHEMATIC RISER DIAGRAM - ANNEX			X	X	X	X				
E3.4	TELEPHONE AND DATA DISTRIBUTION DIAGRAM			X	X	X	X				
E5.1	ELECTRICAL SCHEDULES	X		X	X	X	X	X		X	
E5.2	ELECTRICAL SCHEDULES	X		X	X	X	X	X		X	
E5.3	ELECTRICAL SCHEDULES	X		X	X	X	X	X			
E7.1	ELECTRICAL DETAILS			X	X	X	X	X		X	
E7.2	ELECTRICAL DETAILS			X	X	X	X	X		X	
E7.3	ELECTRICAL DETAILS			X	X	X	X	X		X	
E7.4	ELECTRICAL DETAILS			X	X	X	X	X		X	
E7.5	ELECTRICAL DETAILS			X	X	X	X	X		X	
E7.6	ELECTRICAL DETAILS			X	X	X	X	X		X	
E7.7	ELECTRICAL DETAILS			X	X	X	X	X		X	
E7.8	ELECTRICAL DETAILS			X	X						

SHEET INDEX

SHEET NUMBER	SHEET NAME	ISSUE 9 - 08/22/2017 - ADDENDUM 2	ISSUE 8 - 08/15/2017 - ADDENDUM 1	ISSUE 7 - 07/28/2017 - ISSUE FOR BID	ISSUE 6 - 04/10/2017 - 100% CONSTRUCTION DOCUMENTS	ISSUE 5 - 03/31/2017 - ISSUE FOR PERMIT	ISSUE 4 - 03/14/2017 - 90% CONSTRUCTION DOCUMENTS	ISSUE 3 - 02/07/2017 - 60% CONSTRUCTION DOCUMENTS	ISSUE 2 - 01/13/2017 - DESIGN DEVELOPMENT	ISSUE 2 - 12/12/2016 - DESIGN DEVELOPMENT	ISSUE 1 - 10/21/2016 - SCHEMATIC DESIGN
00 GENERAL											
G1.0	TITLE SHEET		X	X	X	X	X	X		X	X
G1.1	SHEET INDEX	X	X	X	X	X	X	X		X	X
G1.3	ABBREVIATIONS AND SYMBOLS			X	X	X	X	X		X	X
G1.4	CPS STANDARD DETAILS ADA			X	X	X	X	X		X	
G1.5	CPS STANDARD DETAILS ADA			X	X	X	X	X		X	
G1.6	CPS STANDARD DETAILS ADA			X	X	X	X	X		X	
G1.7	CPS STANDARD DETAILS ADA			X	X	X	X	X			
G2.0	CHICAGO CODE MATRIX			X	X	X	X	X		X	X
G2.1	LEVEL 01 EXITING PLAN WITH EXITING, PLUMBING, AND OCCUPANCY CALCULATIONS	X		X	X	X	X	X		X	X
G2.2	LEVEL 02 EXITING PLAN WITH EXITING, PLUMBING, AND OCCUPANCY CALCULATIONS	X		X	X	X	X	X		X	X
G3.0	LEED DOCUMENTATION			X	X	X	X	X			
G4.0	MILESTONE PHASES		X	X							
G4.1	MILESTONE PHASES			X							
01 SURVEY											
SURV-1	ALTA SURVEY - FOR REFERENCE ONLY		X		X	X	X		X	X	
02 CIVIL											
C0.0	GENERAL NOTES			X	X	X	X	X			
C0.1	EXISTING CONDITIONS PLAN			X	X	X	X	X			
C1.0	SITE DEMOLITION PLAN		X	X	X	X	X	X			
C2.0	SITE DIMENSION PLAN		X	X	X	X	X	X			
C3.0	SITE GRADING PLAN	X	X	X	X	X	X	X			
C3.0A	SITE GRADING PLAN ALTERNATE	X	X	X	X	X					
C3.1	SITE GRADING DETAILS			X	X	X	X				
C3.2	SITE EROSION AND SEDIMENTATION CONTROL PLAN			X	X	X	X	X			
C4.0	SITE UTILITY PLAN	X	X	X	X	X	X	X			
C4.0A	SITE UTILITY PLAN ALTERNATE	X	X	X	X	X	X				
C5.0	SITE DETAILS			X	X	X	X	X			
C5.1	SEWER DETAILS			X	X	X	X	X			
C5.2	SEWER DETAILS		X	X	X	X	X	X			
C5.3	WATER DETAILS			X	X	X	X				
C5.4	CDOT DETAILS			X	X	X	X	X			
C5.5	CDOT GENERAL NOTES			X	X	X	X	X			
C6.0	OPERATION AND MAINTENANCE PLAN				X	X	X	X			
03 LANDSCAPE											
L0.0	TREE PRESERVATION AND DEMOLITION PLAN			X	X	X	X	X			
L1.0	OVERALL LANDSCAPE PLAN	X		X	X	X	X	X			
L1.1	PLAYGROUND AND COURTYARD LANDSCAPE ENLARGEMENT			X	X	X	X	X			
L2.0	LANDSCAPE DETAILS	X		X	X	X	X	X			
L2.1	SITE FURNISHINGS			X	X	X	X	X			
L2.2	FENCING DETAILS			X	X	X	X	X			
L2.3	FENCING DETAILS			X	X	X	X				
04 ARCHITECTURAL SITE											
ASD1.1	ARCHITECTURAL DEMOLITION SITE PLAN		X	X	X	X	X	X		X	X
AS1.1	ARCHITECTURAL SITE PLAN			X	X	X	X	X		X	X
AS2.1	CHILLER ENCLOSURE			X	X	X	X	X		X	
05 ENVIRONMENTAL											
RD1.0	REMEDIATION PLAN		X	X	X	X	X	X			
RD2.0	VAPOR BARRIER & SOIL VENT SYSTEM SITE PLAN			X	X	X					
RD2.1	VAPOR BARRIER & SOIL VENT SYSTEM DETAILS			X	X	X	X	X			
05A ENVIRONMENTAL SITE											
AS1.0	ARCHITECTURAL SITE REMEDIATION PLAN			X							
ERS1.0	EXCAVATION PLAN			X							
EX1.0	EXCAVATION PLAN			X							
EX2.0	TREATMENT AREA SITE PLAN			X							
EX3.0	CHEMICAL OXIDATION TREATMENT			X							
06 ARCHITECTURAL											
AD1.1	LEVEL 01 ARCHITECTURAL DEMOLITION PLAN	X	X	X	X	X	X	X		X	
AD1.2	LEVEL 02 ARCHITECTURAL DEMOLITION PLAN	X	X	X	X	X	X	X		X	
AD1.3	ROOF ARCHITECTURAL DEMOLITION PLAN			X	X	X	X	X			
AD3.1	ARCHITECTURAL DEMOLITION EXTERIOR BUILDING ELEVATIONS		X	X	X	X	X	X		X	
A1.01	OVERALL LEVEL 01 FLOOR PLAN		X	X	X	X	X	X		X	X
A1.02	OVERALL LEVEL 02 FLOOR PLAN		X	X	X	X	X	X		X	X
A1.03	OVERALL ROOF PLAN			X	X	X	X	X		X	
A1.1	LEVEL 01 FLOOR PLAN		X	X	X	X	X	X		X	X
A1.2	LEVEL 02 FLOOR PLAN		X	X	X	X	X	X		X	X
A1.3	ROOF PLAN			X	X	X	X	X		X	X
A1.31E	EXISTING ROOF PLAN - NORTH			X	X	X	X				
A1.32E	EXISTING ROOF PLAN - SOUTH			X	X	X	X				
A2.1	LEVEL 01 REFLECTED CEILING PLAN	X	X	X	X	X	X	X		X	
A2.2	LEVEL 02 REFLECTED CEILING PLAN	X	X	X	X	X	X	X		X	
A3.1	EXTERIOR BUILDING ELEVATIONS	X		X	X	X	X	X		X	X
A3.2	PARTIAL BUILDING ELEVATIONS	X	X	X	X	X	X	X		X	X
A3.3	PARTIAL BUILDING ELEVATIONS	X	X	X	X	X	X	X		X	X
A4.1	BUILDING SECTIONS		X		X	X	X	X		X	X
A5.1	WALL SECTIONS			X	X	X	X	X		X	X
A5.2	WALL SECTIONS			X	X	X	X	X		X	
A5.3	WALL SECTIONS			X	X	X	X				
A5.4	WALL SECTIONS			X	X	X					
A5.5	WALL SECTIONS	X		X	X	X					
A6.0	ENLARGED PLAN KEYNOTES AND TYPICAL CONSTRUCTION			X	X	X	X				
A6.1	SECTION DETAILS			X	X	X		X			
A6.2	SECTION DETAILS			X	X	X					
A6.3	SECTION DETAILS	X		X	X						
A6.4	ENLARGED INTERIOR PLAN DETAILS			X	X	X	X				
A6.5	ENLARGED INTERIOR PLAN DETAILS			X	X	X	X				
A6.6	ENLARGED INTERIOR PLAN DETAILS			X	X	X	X				
A6.7	ENLARGED EXTERIOR PLAN DETAILS			X	X	X	X				
A6.8	ENLARGED EXTERIOR PLAN DETAILS			X	X	X	X				
A6.9	ENLARGED EXTERIOR PLAN DETAILS			X	X	X	X				
A6.10	ENLARGED EXTERIOR PLAN DETAILS	X									
A6.11	ROOF DETAILS			X	X	X	X	X		X	
A6.11E	ROOF DETAILS - EXISTING BUILDING			X	X	X	X				
A6.12	VAPOR BARRIER DETAILS			X	X	X	X				
A7.1	ENLARGED STAIR PLANS AND DETAILS			X	X	X	X	X			
A7.2	ENLARGED STAIR SECTIONS	X		X	X	X	X	X			
A7.3	ENLARGED STAIR DETAILS			X	X	X	X				
A8.1	ENLARGED PLANS AND INTERIOR ELEVATIONS - TYPICAL CLASSROOM AND PRE-K CLASSROOM			X	X	X	X	X		X	X
A8.2	ENLARGED PLAN AND ELEVATIONS - STUDENT DINING AND COMPUTER CLASSROOM	X		X	X	X	X	X		X	X
A8.3	ENLARGED PLANS AND ELEVATIONS - ADMINISTRATIVE			X	X	X	X	X			
A8.4	LEVEL 01 CORRIDOR INTERIOR ELEVATIONS	X	X	X	X	X	X	X			
A8.5	LEVEL 02 CORRIDOR INTERIOR ELEVATIONS	X	X	X	X	X	X	X			
A8.6	ENLARGED PLANS AND ELEVATIONS - VESTIBULES	X	X	X	X	X	X	X			
A9.1	PARTITION TYPES			X	X	X	X	X			
A9.2	PARTITION DETAILS			X	X	X	X	X			
A9.3	FIRESTOPPING DETAILS			X	X	X	X	X			
A9.4	FIRESTOPPING DETAILS			X	X	X	X	X			
A10.1	INTERIOR DETAILS	X		X	X	X	X	X			
A12.1	OPENING SCHEDULES AND DETAILS	X		X	X	X	X	X			
A13.0	FINISH SCHEDULE, LEGEND AND FINISH DETAILS	X	X	X	X	X	X	X			
A13.1	LEVEL 01 FINISH PLAN	X		X	X	X	X	X			
A13.2	LEVEL 02 FINISH PLAN	X		X	X	X	X	X			
A14.0	INTERIOR SIGNAGE SCHEDULE AND DETAILS			X	X	X	X	X			
A14.1	LEVEL 01 FF&E AND INTERIOR SIGNAGE PLAN			X	X	X	X	X			
A14.2	LEVEL 02 FF&E AND INTERIOR SIGNAGE PLAN			X	X	X	X	X			
A14.3	EXTERIOR AND SITE SIGNAGE PLAN			X	X	X	X	X			
A15.1	ENLARGED TOILET PLANS	X		X	X	X	X	X		X	X

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CHICAGO Public Schools
PUBLIC BUILDING COMMISSION

DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

TERRA ENGINEERING, LTD.
225 W OHIO ST, 4TH FL
CHICAGO, IL 60654
T 312-467-0123

HUKESSLER ASSOCIATES, INC.
3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

SHEN MILSOM & WILKE LLC
2 N RIVERSIDE PLAZA #1460
CHICAGO, IL 60606
T 312-559-4585

ILLINOIS ROOF CONSULTING ASSOCIATES, INC.
4302-G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

EDGE ASSOCIATES, INC.
150 HOUSTON ST, STE 304
BATAVIA, IL 60510
T 630-962-4422

CARNOW, CONIBEAR & ASSOCIATES, LTD.
600 W VAN BUREN ST, STE 500
CHICAGO, IL 60607
T 312-782-4486

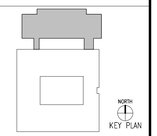
EMILIANO ZAPATA
ACADEMY ANNEX
2728 S KOSTNER AVE
CHICAGO, IL 60623

PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
1		10/21/2016	SCHEMATIC DESIGN
2		12/12/2016	DESIGN DEVELOPMENT
3		02/07/2017	60% CONSTRUCTION DOCUMENTS
4		03/14/2017	90% CONSTRUCTION DOCUMENTS
5		03/31/2017	ISSUE FOR PERMIT
6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
8	1	08/15/2017	ADDENDUM 1
9	2	08/22/2017	ADDENDUM 2

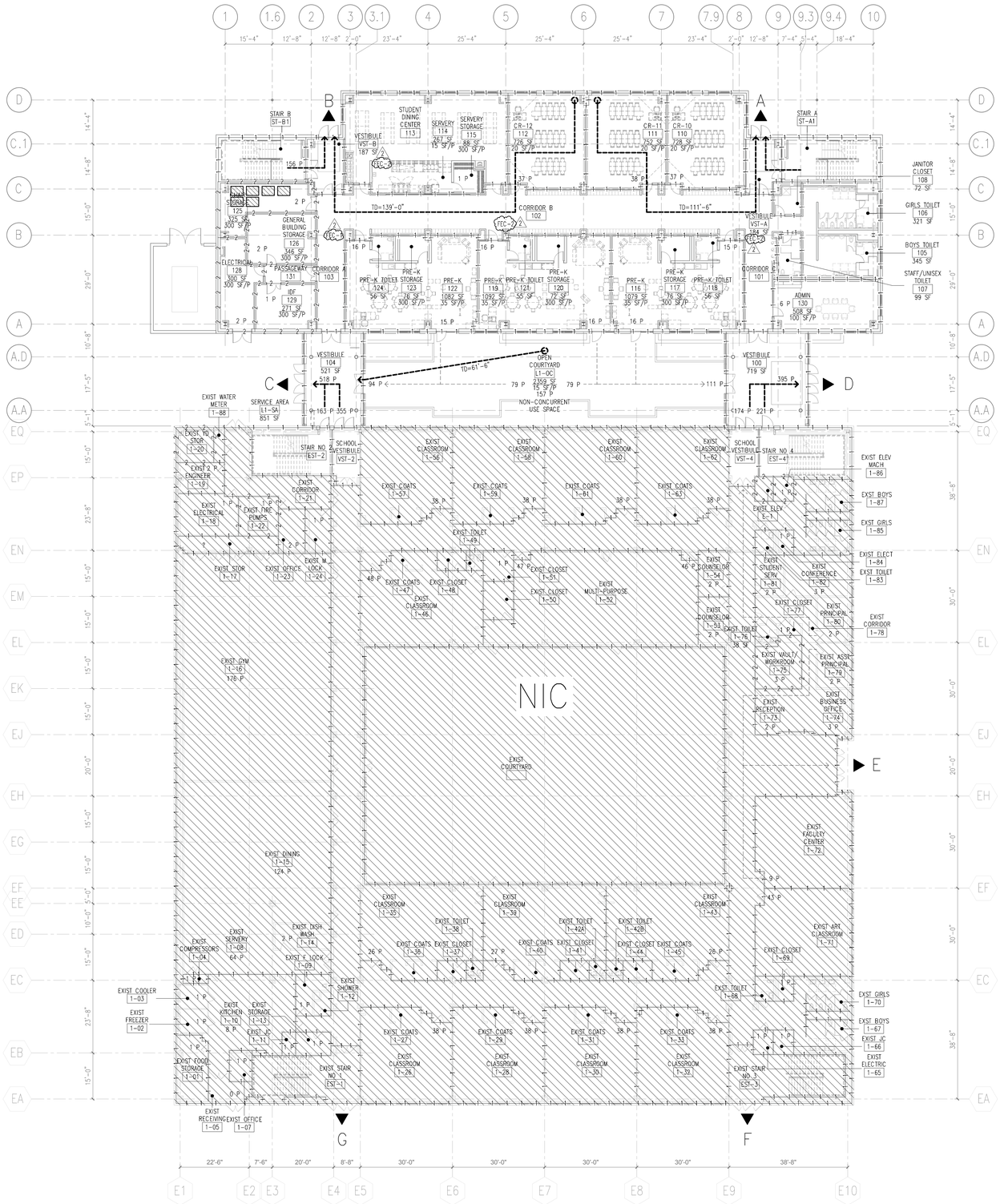
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CHECKED BY: TS
SCALE: NTS
FILE NAME: DW_AL_TS_G11_SHEET INDEX_20170822



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SHEET TITLE
SHEET INDEX

DRAWING NO.
G1.1



1 LEVEL 01 EXITING PLAN
1/16" = 1'-0"

EGRESS OCCUPANCY ROOM SCHEDULE NIC (EXIST SCHOOL)

3(13-56-310)B
3(13-56-320)

RM #	ROOM NAME	NET AREA (SF)	OCC FACTOR (SF/P)	OCC LOAD/ EGRESS TOTAL (P)	EXIT C EGRESS (P)	EXIT D EGRESS (P)	EXIT E EGRESS (P)	EXIT F EGRESS (P)	EXIT G EGRESS (P)	DIRECT EXIT (P)
LEVEL 01										
AUXILARY										
1-08	EXIST SERVERY	950	15	64	0	0	0	0	64	0
1-15	EXIST DINING	1851	15	124	0	0	0	0	124	0
1-16	EXIST GYM	3515	20	176	176	0	0	0	0	0
1-52	EXIST MULTI-PURPOSE	1849	20	93	47	46	0	0	0	0
				457	223	46	0	0	188	
CLASSROOMS										
1-26	EXIST CLASSROOM	746	20	38	0	38	0	0	0	0
1-28	EXIST CLASSROOM	746	20	38	0	0	0	0	38	0
1-30	EXIST CLASSROOM	746	20	38	0	0	0	38	0	0
1-32	EXIST CLASSROOM	746	20	38	0	0	0	38	0	0
1-35	EXIST CLASSROOM	910	35	26	0	0	0	0	26	0
1-39	EXIST CLASSROOM	911	35	27	0	0	0	0	27	0
1-43	EXIST CLASSROOM	910	35	26	0	0	0	26	0	0
1-46	EXIST CLASSROOM	953	20	48	48	0	0	0	0	0
1-56	EXIST CLASSROOM	741	20	38	38	0	0	0	0	0
1-58	EXIST CLASSROOM	741	20	38	38	0	0	0	0	0
1-60	EXIST CLASSROOM	741	20	38	0	38	0	0	0	0
1-62	EXIST CLASSROOM	741	20	38	0	38	0	0	0	0
1-71	EXIST ART CLASSROOM	845	20	43	0	0	43	0	0	0
				474	124	114	43	102	91	
SERVICE EQUIPMENT										
1-04	EXIST COMPRESSORS	19	300	1	0	0	0	0	1	0
1-05	EXIST RECEIVING	97	300	1	0	0	0	0	1	0
1-11	EXIST JC	28	300	1	0	0	0	0	1	0
1-18	EXIST ELECTRICAL	255	300	1	1	0	0	0	0	0
1-22	EXIST FIRE PUMPS	154	300	1	1	0	0	0	0	0
1-65	EXIST ELECTRIC	45	300	1	0	0	0	1	0	0
1-66	EXIST JC	46	300	1	0	0	0	1	0	0
1-84	EXIST ELECT	36	300	1	0	0	1	0	0	0
1-86	EXIST ELEV MACH	46	300	1	0	0	1	0	0	0
				9	2	2	0	2	3	
STAFF										
1-07	EXIST OFFICE	64	100	1	0	0	0	0	1	0
1-09	EXIST F LOCK	95	100	1	0	0	0	0	1	0
1-10	EXIST KITCHEN	704	100	8	0	0	0	0	8	0
1-14	EXIST DISH WASH	144	100	2	0	0	0	2	0	0
1-19	EXIST ENGINEER	141	100	2	2	0	0	0	0	0
1-23	EXIST OFFICE	114	100	2	2	0	0	0	0	0
1-24	EXIST M LOCK	95	100	1	1	0	0	0	0	0
1-53	EXIST COUNSELOR	146	100	2	0	2	0	0	0	0
1-54	EXIST COUNSELOR	138	100	2	0	2	0	0	0	0
1-72	EXIST FACULTY CENTER	887	100	9	0	0	9	0	0	0
1-73	EXIST RECEPTION	140	100	2	0	0	2	0	0	0
1-74	EXIST BUSINESS OFFICE	294	100	3	0	0	3	0	0	0
1-75	EXIST VAULT/ WORKROOM	221	100	3	0	0	3	0	0	0
1-79	EXIST ASST PRINCIPAL	153	100	2	0	0	2	0	0	0
1-80	EXIST PRINCIPAL	152	100	2	0	2	0	0	0	0
1-81	EXIST STUDENT SERV	119	100	2	0	2	0	0	0	0
1-82	EXIST CONFERENCE	280	100	3	0	3	0	0	0	0
				47	5	11	19	2	10	
STORAGE										
1-01	EXIST FOOD STORAGE	198	300	1	0	0	0	0	1	0
1-02	EXIST FREEZER	69	300	1	0	0	0	0	1	0
1-03	EXIST COOLER	69	300	1	0	0	0	0	1	0
1-13	EXIST STORAGE	79	300	1	0	0	0	0	1	0
1-51	EXIST CLOSET	89	300	1	1	0	0	0	0	0
1-69	EXIST CLOSET	36	300	1	0	0	0	1	0	0
1-77	EXIST CLOSET	22	300	1	0	1	0	0	0	0
				7	1	1	0	1	4	
LEVEL 01				994	355	174	62	107	296	
LEVEL 02										
AUXILARY										
2-21	EXIST ACADEMIC INTEREST	1029	20	52	52	0	0	0	0	0
2-42	EXIST LIBRARY CLASSROOM	845	20	43	0	0	0	43	0	0
2-43	EXIST SEMINAR	210	20	11	0	0	0	11	0	0
2-44	EXIST WORKROOM	183	20	10	0	0	0	10	0	0
2-45	EXIST LIBRARY	2495	20	125	0	62	0	63	0	0
				241	52	62	0	127	0	
CLASSROOMS										
2-04	EXIST CLASSROOM	730	20	37	0	0	0	0	37	0
2-06	EXIST CLASSROOM	728	20	37	0	0	0	0	37	0
2-08	EXIST CLASSROOM	728	20	37	0	0	0	37	0	0
2-10	EXIST CLASSROOM	729	20	37	0	0	0	37	0	0
2-13	EXIST CLASSROOM	728	20	37	0	0	0	0	37	0
2-15	EXIST CLASSROOM	728	20	37	0	0	0	0	37	0
2-17	EXIST CLASSROOM	728	20	37	0	0	0	37	0	0
2-19	EXIST CLASSROOM	728	20	37	0	0	0	37	0	0
2-24	EXIST SCIENCE	1169	20	59	30	29	0	0	0	0
2-25	EXIST COMPUTER	1029	20	52	0	52	0	0	0	0
2-27	EXIST CLASSROOM	733	20	37	37	0	0	0	0	0
2-29	EXIST CLASSROOM	728	20	37	37	0	0	0	0	0
2-31	EXIST CLASSROOM	728	20	37	0	37	0	0	0	0
2-33	EXIST CLASSROOM	728	20	37	0	37	0	0	0	0
				555	104	155	0	148	148	
SERVICE EQUIPMENT										
2-01	EXIST MECHANICAL	2342	300	8	0	0	0	0	8	0
2-02	EXIST MECHANICAL	1599	300	6	6	0	0	0	0	0
2-36	EXIST ELECTRIC	45	300	1	0	0	0	1	0	0
2-37	EXIST JC	46	300	1	0	0	0	1	0	0
2-46A	EXIST TELE/DATA	89	300	1	0	1	0	0	0	0
2-48	EXIST ELECT	32	300	1	0	1	0	0	0	0
2-52	EXIST BOILERS	468	300	2	0	0	0	0	2	0
				20	6	2	0	2	10	
STORAGE										
2-23	EXIST STORAGE	90	300	1	1	0	0	0	0	0
2-40	EXIST STORAGE	36	300	1	0	0	0	1	0	0
2-46	EXIST STORAGE	89	300	1	0	1	0	0	0	0
2-51	EXIST STORAGE	44	300	1	0	1	0	0	0	0
2-53	EXIST STORAGE	114	300	1	0	0	0	1	0	0
				5	1	2	0	2	0	
LEVEL 02				821	163	221	0	279	158	
GRAND TOTAL				1815	518	395	62	386	454	

EGRESS OCCUPANCY ROOM SCHEDULE (ANNEX)

3(13-56-310)B
3(13-56-320)

RM #	ROOM NAME	NET AREA (SF)	OCC FACTOR (SF/P)	OCC LOAD/ EGRESS TOTAL (P)	EXIT A EGRESS (P)	EXIT B EGRESS (P)	EXIT C EGRESS (P)	EXIT D EGRESS (P)	DIRECT EXIT (P)
LEVEL 01									
AUXILARY									
113	STUDENT DINING CENTER	1213	15	81	0	81	0	0	0
114	SERVERY	267	15	18	0	18	0	0	0
L1-OC	OPEN COURTYARD	2359	15	158	0	0	79	79	0
				257	0	99	79	79	
CLASSROOMS									
110	CR-10	728	20	37	37	0	0	0	0
111	CR-11	752	20	38	38	0	0	0	0
112	CR-12	726	20	37	0	37	0	0	0
116	PRE-K	1079	35	31	15	0	0	16	0
119	PRE-K	1092	35	32	0	16	0	16	0
122	PRE-K	1082	35	31	0	16	15	0	0
				206	90	69	15	32	
SERVICE EQUIPMENT									
126	GENERAL BUILDING STORAGE	346	300	2	0	0	2	0	0
128	ELECTRICAL	300	300	2	0	0	0	0	2
				4	0	0	2	0	
STAFF									
130	ADMIN	508	100	6	0	0	0	6	0
				6	0	0	0	6	
STORAGE									
115	SERVERY STORAGE	88	300	1	0	1	0	0	0
117	PRE-K STORAGE	76	300	1	0	0	0	1	0
120	PRE-K STORAGE	72	300	1	0	1	0	0	0
123	PRE-K STORAGE	76	300	1	0	1	0	0	0
125	CHAIR STORAGE	325	300	2	0	2	0	0	0
129	IDF	271	300	1	0	0	1	0	0
				7	0	5	1	1	
LEVEL 01				480	90	173	97	118	
LEVEL 02									
AUXILARY									
214	COMPUTER CLASSROOM	771	20	39	0	39	0	0	0
				39	0	39	0	0	
CLASSROOMS									
210	CR-2	775	20	39	39	0	0	0	0
211	CR-4	726	20	37	37	0	0	0	0
212	CR-6	727	20	37	37	0	0	0	0
213	CR-8	724	20	37	0	37	0	0	0
216	CR-1	764	20	39	39	0	0	0	0
217	CR-3	726	20	37	37	0	0	0	0
218	CR-5	725	20	37	37	0	0	0	0
219	CR-7	724	20	37	0	37	0	0	0
220	CR-9	767	20	39	0	39	0	0	0
				339	226	113	0	0	
SERVICE EQUIPMENT									
208	JANITOR CLOSET	72	300	1	1	0	0	0	0
225	MECHANICAL	1375	300	5	0	5	0	0	0
				6	1	5	0	0	
STAFF									
230	FACULTY WORK ROOM	435	100	5	5	0	0	0	0
				5	5	0	0	0	
LEVEL 02				389	232	157	0	0	
GRAND TOTAL				869	322	330	97	118	

PLUMBING CALCULATIONS (ANNEX)

OCCUPANCY TYPE: ASSEMBLY

FIRST FLOOR
480 PERSONS PER EXITING CALCULATIONS
-257 AUXILARY
-7 STORAGE
-4 SERVICE EQUIPMENT
=212 PERSONS

SECOND FLOOR
389 PERSONS PER EXITING CALCULATIONS
-39 AUXILARY
-0 STORAGE
-6 SERVICE EQUIPMENT
=344 PERSONS

GRAND TOTAL
556 PERSONS

TOILETS

556 PERSONS / 2 GENDERS = 278 PERSONS

	REQUIRED	PROVIDED
1 TO 10	1	
11 TO 25	2	
253/25	10	
13/GENDER		10 BOYS
		10 GIRLS
		6 UNISEX
	26 TOTAL	26 TOTAL

LAVATORIES

	REQUIRED	PROVIDED
1 LAV/ 40 PERSONS	15	22

DRINKING FOUNTAINS

	REQUIRED	PROVIDED
1 DF/ 100 PERSONS	6	6

PLUMBING CALCULATIONS NIC (EXIST SCHOOL)

OCCUPANCY TYPE: ASSEMBLY

FIRST FLOOR NIC
994 PERSONS PER EXITING CALCULATIONS
-457 AUXILARY
-7 STORAGE
-9 SERVICE EQUIPMENT
=521 PERSONS

SECOND FLOOR NIC
821 PERSONS PER EXITING CALCULATIONS
-241 AUXILARY
-5 STORAGE
-20 SERVICE EQUIPMENT
=555 PERSONS

GRAND TOTAL NIC
1,076 PERSONS

TOILETS

1,076 PERSONS / 2 GENDERS = 538 PERSONS

	REQUIRED	PROVIDED
1 TO 10	1	
11 TO 25	2	
513/25	21	
TOTAL	24/GENDER	16 BOYS
		16 GIRLS
		11 UNISEX
	48 TOTAL	43 TOTAL

LAVATORIES

	REQUIRED	PROVIDED
1 LAV/ 40 PERSONS	31	36

DRINKING FOUNTAINS

	REQUIRED	PROVIDED
1 DF/ 100 PERSONS	13	15

EGRESS EXIT SCHEDULE
DOORS

EXIT	PROVIDED EU (EU)	PROVIDED CAPACITY (P)	REQUIRED CAPACITY TOTAL (P)	REQUIRED CAPACITY ANNEX (P)	REQUIRED CAPACITY NIC (P)
DOORS A	3	345	322	322	–
DOORS B	3	345	330	330	–
DOORS C	6	670	615	97	518
DOORS D	6	670	513	118	395
EXIST DOORS E	6	670	62	–	62
EXIST DOORS F	4.5	517.5	386	–	386
EXIST DOORS G	4.5	517.5	454	–	454
COURTYARD DOORS WEST	3	345	96	96	–
COURTYARD DOORS EAST	3	345	225	225	–

EGRESS EXIT SCHEDULE
STAIRS

EXIT	PROVIDED UNITS OF EXIT WIDTH (EU)	PROVIDED CAPACITY (P)	REQUIRED CAPACITY TOTAL (P)	REQUIRED CAPACITY ANNEX (P)	REQUIRED CAPACITY NIC (P)
STAIR A DOORS	3	345	111	111	–
STAIR A	3	300	233	233	–
STAIR B DOORS	3	345	125	125	–
STAIR B	3	300	158	158	–
EXIST STAIR 1 DOORS	3	345	158	–	158
EXIST STAIR 1	3	300	158	–	158
EXIST STAIR 2 DOORS	1.5	172.5	163	–	163
EXIST STAIR 2	3	300	163	–	163
EXIST STAIR 3 DOORS	3	345	279	–	279
EXIST STAIR 3	3	300	279	–	279
EXIST STAIR 4 DOORS	2	230	221	–	221
EXIST STAIR 4	3	300	221	–	221

USE: ASSEMBLY
OCCUPANCY LOAD FACTORS PER UNIT OF EXIT WIDTH (EU) [3(13-84-180)]
DOORS: 115 PERSONS/EU
STAIRS: 100 PERSONS/EU

EXIT UNIT WIDTH = 22 INCHES, 1/2EU = 12 INCHES

EXITING PLAN LEGEND

- EXISTING PARTITION
- NON-RATED PARTITION
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- TRAVEL DISTANCES
- EGRESS PATH
- 2 APPLY 2 HR RATED SPRAY-APPLIED CEMENTITIOUS FIREPROOFING TO UNDERSIDE OF SLAB TO EXTENTS SHOWN REFER TO SPECS
- 2 FEC FIRE EXTINGUISHER CABINET

N

48' 32' 24' 16' 12' 8' 4' 0"
SCALE: 1/16" : 1'-0"

CHICAGO Public Schools
PUBLIC BUILDING COMMISSION
DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

TERRA ENGINEERING, LTD.
225 W OHIO ST, 4TH FL
CHICAGO, IL 60654
T 312-467-0123

HUKESSLER ASSOCIATES, INC.
3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

SHEN MILSOM & WILKE LLC
2 N RIVERSIDE PLAZA #1460
CHICAGO, IL 60606
T 312-559-4585

ILLINOIS ROOF CONSULTING ASSOCIATES, INC.
4302-G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

EDGE ASSOCIATES, INC.
150 HOUSTON ST, STE 304
BATAVIA, IL 60510
T 630-962-4422

CARNOW, CONIBEAR & ASSOCIATES, LTD.
600 W VAN BUREN ST, STE 500
CHICAGO, IL 60607
T 312-782-4486

EMILIANO ZAPATA
ACADEMY ANNEX
2728 S KOSTNER AVE
CHICAGO, IL 60623

PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
1		10/21/2016	SCHEMATIC DESIGN
2		12/12/2016	DESIGN DEVELOPMENT
3		02/07/2017	60% CONSTRUCTION DOCUMENTS
4		03/14/2017	90% CONSTRUCTION DOCUMENTS
5		03/31/2017	ISSUE FOR PERMIT
6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
9	2	08/22/2017	ADDENDUM 2

DRAWN BY: JW
CHECKED BY: TS
SCALE: 1/16" = 1'-0"
FILE NAME: DW_AL_TS_G21_L01 EXIT PLAN W EXIT PLUMB OCC CALC_20170612



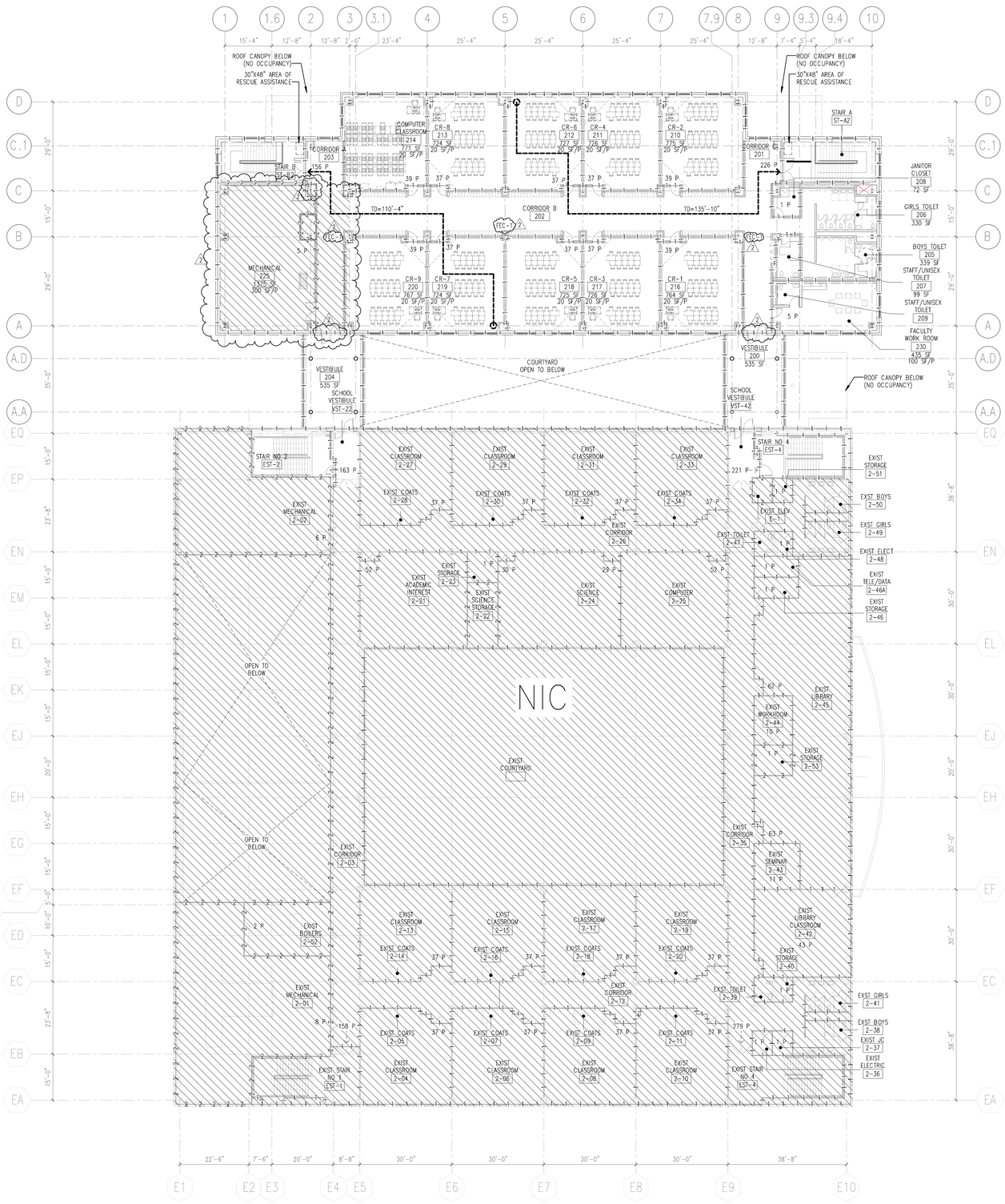
WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON SHALL DISTURB SUSPECTED ASBESTOS-CONTAINING MATERIAL UNLESS HE IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

SHEET TITLE

LEVEL 01 EXITING PLAN WITH EXITING, PLUMBING, AND OCCUPANCY CALCULATIONS

DRAWING NO.

G2.1



1 LEVEL 02 EXITING PLAN
1/16" = 1'-0"

EGRESS OCCUPANCY ROOM SCHEDULE NIC (EXIST SCHOOL)

3(13-56-310)B
3(13-56-320)

RM #	ROOM NAME	NET AREA (SF)	OCC FACTOR (SF/P)	OCC LOAD/ EGRESS TOTAL (P)	EXIT C EGRESS (P)	EXIT D EGRESS (P)	EXIT E EGRESS (P)	EXIT F EGRESS (P)	EXIT G EGRESS (P)	DIRECT EXIT (P)
LEVEL 01										
AUXILARY										
1-08	EXIST SERVERY	950	15	64	0	0	0	0	64	0
1-15	EXIST DINING	1851	15	124	0	0	0	0	124	0
1-16	EXIST GYM	3515	20	176	176	0	0	0	0	0
1-52	EXIST MULTI-PURPOSE	1849	20	93	47	46	0	0	0	0
				457	223	46	0	0	188	
CLASSROOMS										
1-26	EXIST CLASSROOM	746	20	38	0	38	0	0	0	0
1-28	EXIST CLASSROOM	746	20	38	0	0	0	0	38	0
1-30	EXIST CLASSROOM	746	20	38	0	0	0	38	0	0
1-32	EXIST CLASSROOM	746	20	38	0	0	0	38	0	0
1-35	EXIST CLASSROOM	910	35	26	0	0	0	0	26	0
1-39	EXIST CLASSROOM	911	35	27	0	0	0	0	27	0
1-43	EXIST CLASSROOM	910	35	26	0	0	0	26	0	0
1-46	EXIST CLASSROOM	953	20	48	48	0	0	0	0	0
1-56	EXIST CLASSROOM	741	20	38	38	0	0	0	0	0
1-58	EXIST CLASSROOM	741	20	38	38	0	0	0	0	0
1-60	EXIST CLASSROOM	741	20	38	0	38	0	0	0	0
1-62	EXIST CLASSROOM	741	20	38	0	38	0	0	0	0
1-71	EXIST ART CLASSROOM	845	20	43	0	0	43	0	0	0
				474	124	114	43	102	91	
SERVICE EQUIPMENT										
1-04	EXIST COMPRESSORS	19	300	1	0	0	0	0	1	0
1-05	EXIST RECEIVING	97	300	1	0	0	0	0	1	0
1-11	EXIST JC	28	300	1	0	0	0	0	1	0
1-18	EXIST ELECTRICAL	255	300	1	1	0	0	0	0	0
1-22	EXIST FIRE PUMPS	154	300	1	1	0	0	0	0	0
1-65	EXIST ELECTRIC	45	300	1	0	0	0	1	0	0
1-66	EXIST JC	46	300	1	0	0	0	1	0	0
1-84	EXIST ELECT	36	300	1	0	1	0	0	0	0
1-86	EXIST ELEV MACH	46	300	1	0	1	0	0	0	0
				9	2	2	0	2	3	
STAFF										
1-07	EXIST OFFICE	64	100	1	0	0	0	0	1	0
1-09	EXIST F LOCK	95	100	1	0	0	0	0	1	0
1-10	EXIST KITCHEN	704	100	8	0	0	0	0	8	0
1-14	EXIST DISH WASH	144	100	2	0	0	0	2	0	0
1-19	EXIST ENGINEER	141	100	2	2	0	0	0	0	0
1-23	EXIST OFFICE	114	100	2	2	0	0	0	0	0
1-24	EXIST M LOCK	95	100	1	1	0	0	0	0	0
1-53	EXIST COUNSELOR	146	100	2	0	2	0	0	0	0
1-54	EXIST COUNSELOR	138	100	2	0	2	0	0	0	0
1-72	EXIST FACULTY CENTER	887	100	9	0	0	9	0	0	0
1-73	EXIST RECEPTION	140	100	2	0	0	2	0	0	0
1-74	EXIST BUSINESS OFFICE	294	100	3	0	0	3	0	0	0
1-75	EXIST VAULT/ WORKROOM	221	100	3	0	0	3	0	0	0
1-79	EXIST ASST PRINCIPAL	153	100	2	0	0	2	0	0	0
1-80	EXIST PRINCIPAL	152	100	2	0	2	0	0	0	0
1-81	EXIST STUDENT SERV	119	100	2	0	2	0	0	0	0
1-82	EXIST CONFERENCE	280	100	3	0	3	0	0	0	0
				47	5	11	19	2	10	
STORAGE										
1-01	EXIST FOOD STORAGE	198	300	1	0	0	0	0	1	0
1-02	EXIST FREEZER	69	300	1	0	0	0	0	1	0
1-03	EXIST COOLER	69	300	1	0	0	0	0	1	0
1-13	EXIST STORAGE	79	300	1	0	0	0	0	1	0
1-51	EXIST CLOSET	89	300	1	1	0	0	0	0	0
1-69	EXIST CLOSET	36	300	1	0	0	0	1	0	0
1-77	EXIST CLOSET	22	300	1	0	1	0	0	0	0
				7	1	1	0	1	4	
LEVEL 01				994	355	174	62	107	296	
LEVEL 02										
AUXILARY										
2-21	EXIST ACADEMIC INTEREST	1029	20	52	52	0	0	0	0	0
2-42	EXIST LIBRARY CLASSROOM	845	20	43	0	0	0	43	0	0
2-43	EXIST SEMINAR	210	20	11	0	0	0	11	0	0
2-44	EXIST WORKROOM	183	20	10	0	0	0	10	0	0
2-45	EXIST LIBRARY	2495	20	125	0	62	0	63	0	0
				241	52	62	0	127	0	
CLASSROOMS										
2-04	EXIST CLASSROOM	730	20	37	0	0	0	0	37	0
2-06	EXIST CLASSROOM	728	20	37	0	0	0	37	0	0
2-08	EXIST CLASSROOM	728	20	37	0	0	0	37	0	0
2-10	EXIST CLASSROOM	729	20	37	0	0	0	37	0	0
2-13	EXIST CLASSROOM	728	20	37	0	0	0	0	37	0
2-15	EXIST CLASSROOM	728	20	37	0	0	0	0	37	0
2-17	EXIST CLASSROOM	728	20	37	0	0	0	37	0	0
2-19	EXIST CLASSROOM	728	20	37	0	0	0	37	0	0
2-24	EXIST SCIENCE	1169	20	59	30	29	0	0	0	0
2-25	EXIST COMPUTER	1029	20	52	0	52	0	0	0	0
2-27	EXIST CLASSROOM	733	20	37	37	0	0	0	0	0
2-29	EXIST CLASSROOM	728	20	37	37	0	0	0	0	0
2-31	EXIST CLASSROOM	728	20	37	0	37	0	0	0	0
2-33	EXIST CLASSROOM	728	20	37	0	37	0	0	0	0
				555	104	155	0	148	148	
SERVICE EQUIPMENT										
2-01	EXIST MECHANICAL	2342	300	8	0	0	0	0	8	0
2-02	EXIST MECHANICAL	1599	300	6	6	0	0	0	0	0
2-36	EXIST ELECTRIC	45	300	1	0	0	0	1	0	0
2-37	EXIST JC	46	300	1	0	0	0	1	0	0
2-46A	EXIST TELE/DATA	89	300	1	0	1	0	0	0	0
2-48	EXIST ELECT	32	300	1	0	1	0	0	0	0
2-52	EXIST BOILERS	468	300	2	0	0	0	0	2	0
				20	6	2	0	2	10	
STORAGE										
2-23	EXIST STORAGE	90	300	1	1	0	0	0	0	0
2-40	EXIST STORAGE	36	300	1	0	0	0	1	0	0
2-46	EXIST STORAGE	89	300	1	0	1	0	0	0	0
2-51	EXIST STORAGE	44	300	1	0	1	0	0	0	0
2-53	EXIST STORAGE	114	300	1	0	0	0	1	0	0
				5	1	2	0	2	0	
LEVEL 02				821	163	221	0	279	158	
GRAND TOTAL				1815	518	395	62	386	454	

EGRESS OCCUPANCY ROOM SCHEDULE (ANNEX)

3(13-56-310)B
3(13-56-320)

RM #	ROOM NAME	NET AREA (SF)	OCC FACTOR (SF/P)	OCC LOAD/ EGRESS TOTAL (P)	EXIT A EGRESS (P)	EXIT B EGRESS (P)	EXIT C EGRESS (P)	EXIT D EGRESS (P)	DIRECT EXIT (P)
LEVEL 01									
AUXILARY									
113	STUDENT DINING CENTER	1213	15	81	0	81	0	0	0
114	SERVERY	267	15	18	0	18	0	0	0
L1-OC	OPEN COURTYARD	2359	15	158	0	0	79	79	0
				257	0	99	79	79	
CLASSROOMS									
110	CR-10	728	20	37	37	0	0	0	0
111	CR-11	752	20	38	38	0	0	0	0
112	CR-12	726	20	37	0	37	0	0	0
116	PRE-K	1079	35	31	15	0	0	16	0
119	PRE-K	1092	35	32	0	16	0	16	0
122	PRE-K	1082	35	31	0	16	15	0	0
				206	90	69	15	32	
SERVICE EQUIPMENT									
126	GENERAL BUILDING STORAGE	346	300	2	0	0	2	0	0
128	ELECTRICAL	300	300	2	0	0	0	0	2
				4	0	0	2	0	
STAFF									
130	ADMIN	508	100	6	0	0	0	6	0
				6	0	0	0	6	
STORAGE									
115	SERVERY STORAGE	88	300	1	0	1	0	0	0
117	PRE-K STORAGE	76	300	1	0	0	0	1	0
120	PRE-K STORAGE	72	300	1	0	1	0	0	0
123	PRE-K STORAGE	76	300	1	0	1	0	0	0
125	CHAIR STORAGE	325	300	2	0	2	0	0	0
129	IDF	271	300	1	0	0	1	0	0
				7	0	5	1		
LEVEL 01				480	90	173	97	118	
LEVEL 02									
AUXILARY									
214	COMPUTER CLASSROOM	771	20	39	0	39	0	0	0
				39	0	39	0	0	
CLASSROOMS									
210	CR-2	775	20	39	39	0	0	0	0
211	CR-4	726	20	37	37	0	0	0	0
212	CR-6	727	20	37	37	0	0	0	0
213	CR-8	724	20	37	0	37	0	0	0
216	CR-1	764	20	39	39	0	0	0	0
217	CR-3	726	20	37	37	0	0	0	0
218	CR-5	725	20	37	37	0	0	0	0
219	CR-7	724	20	37	0	37	0	0	0
220	CR-9	767	20	39	0	39	0	0	0
				339	226	113	0	0	
SERVICE EQUIPMENT									
208	JANITOR CLOSET	72	300	1	1	0	0	0	0
225	MECHANICAL	1,375	300	5	0	5	0	0	0
				6	1	5	0	0	
STAFF									
230	FACULTY WORK ROOM	435	100	5	5	0	0	0	0
				5	5	0	0	0	
LEVEL 02				389	232	157	0	0	
GRAND TOTAL				869	322	330	97	118	

PLUMBING CALCULATIONS (ANNEX)

OCCUPANCY TYPE: ASSEMBLY

FIRST FLOOR
480 PERSONS PER EXITING CALCULATIONS
-257 AUXILARY
-7 STORAGE
-4 SERVICE EQUIPMENT
=212 PERSONS

SECOND FLOOR
389 PERSONS PER EXITING CALCULATIONS
-39 AUXILARY
-0 STORAGE
-6 SERVICE EQUIPMENT
=344 PERSONS

GRAND TOTAL
556 PERSONS

TOILETS

556 PERSONS / 2 GENDERS = 278 PERSONS

	REQUIRED	PROVIDED
1 TO 10	1	
11 TO 25	2	
253/25	10	
	13/GENDER	10 BOYS
		10 GIRLS
		6 UNISEX
	26 TOTAL	26 TOTAL

LAVATORIES

	REQUIRED	PROVIDED
1 LAV/ 40 PERSONS	15	22

DRINKING FOUNTAINS

	REQUIRED	PROVIDED
1 DF/ 100 PERSONS	6	6

PLUMBING CALCULATIONS NIC (EXIST SCHOOL)

OCCUPANCY TYPE: ASSEMBLY

FIRST FLOOR NIC
994 PERSONS PER EXITING CALCULATIONS
-457 AUXILARY
-7 STORAGE
-9 SERVICE EQUIPMENT
=521 PERSONS

SECOND FLOOR NIC
821 PERSONS PER EXITING CALCULATIONS
-241 AUXILARY
-5 STORAGE
-20 SERVICE EQUIPMENT
=555 PERSONS

GRAND TOTAL NIC
1,076 PERSONS

TOILETS

1,076 PERSONS / 2 GENDERS = 538 PERSONS

	REQUIRED	PROVIDED
1 TO 10	1	
11 TO 25	2	
513/25	21	
TOTAL	24/GENDER	16 BOYS
		16 GIRLS
		11 UNISEX
	48 TOTAL	43 TOTAL

LAVATORIES

	REQUIRED	PROVIDED
1 LAV/ 40 PERSONS	31	36

DRINKING FOUNTAINS

	REQUIRED	PROVIDED
1 DF/ 100 PERSONS	13	15

EGRESS EXIT SCHEDULE
DOORS

EXIT	PROVIDED EU (EU)	PROVIDED CAPACITY (P)	REQUIRED CAPACITY TOTAL (P)	REQUIRED CAPACITY ANNEX (P)	REQUIRED CAPACITY NIC (P)
DOORS A	3	345	322	322	–
DOORS B	3	345	330	330	–
DOORS C	6	670	615	97	518
DOORS D	6	670	513	118	395
EXIST DOORS E	6	670	62	–	62
EXIST DOORS F	4.5	517.5	386	–	386
EXIST DOORS G	4.5	517.5	454	–	454
COURTYARD DOORS WEST	3	345	96	96	–
COURTYARD DOORS EAST	3	345	225	225	–

EGRESS EXIT SCHEDULE
STAIRS

EXIT	PROVIDED UNITS OF EXIT WIDTH (EU)	PROVIDED CAPACITY (P)	REQUIRED CAPACITY TOTAL (P)	REQUIRED CAPACITY ANNEX (P)	REQUIRED CAPACITY NIC (P)
STAIR A DOORS	3	345	111	111	–
STAIR A	3	300	233	233	–
STAIR B DOORS	3	345	125	125	–
STAIR B	3	300	158	158	–
EXIST STAIR 1 DOORS	3	345	158	–	158
EXIST STAIR 1	3	300	158	–	158
EXIST STAIR 2 DOORS	1.5	172.5	163	–	163
EXIST STAIR 2	3	300	163	–	163
EXIST STAIR 3 DOORS	3	345	279	–	279
EXIST STAIR 3	3	300	279	–	279
EXIST STAIR 4 DOORS	2	230	221	–	221
EXIST STAIR 4	3	300	221	–	221

USE: ASSEMBLY
OCCUPANCY LOAD FACTORS PER UNIT OF EXIT WIDTH (EU) [3(13-84-180)]
DOORS: 115 PERSONS/EU
STAIRS: 100 PERSONS/EU

EXIT UNIT WIDTH = 22 INCHES, 1/2EU = 12 INCHES

EXITING PLAN LEGEND

- EXISTING PARTITION
- NON-RATED PARTITION
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- TRAVEL DISTANCES
- EGRESS PATH
- 2 — APPLY 2 HR RATED SPRAY-APPLIED CEMENTITIOUS FIREPROOFING TO UNDERSIDE OF SLAB TO EXTENTS SHOWN REFER TO SPECS
- 2 FEC — FIRE EXTINGUISHER CABINET

N

48' 32' 24' 16' 12' 8' 4' 0"
SCALE: 1/16" : 1'-0"

CHICAGO PUBLIC SCHOOLS
PUBLIC BUILDING COMMISSION
DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

TERRA ENGINEERING, LTD.
225 W OHIO ST, 4TH FL
CHICAGO, IL 60654
T 312-467-0123

HUKESSLER ASSOCIATES, INC.
3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

SHEN MILSOM & WILKE LLC
2 N RIVERSIDE PLAZA #1460
CHICAGO, IL 60606
T 312-559-4585

ILLINOIS ROOF CONSULTING ASSOCIATES, INC.
4302-G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

EDGE ASSOCIATES, INC.
150 HOUSTON ST, STE 304
BATAVIA, IL 60510
T 630-962-4422

CARNOW, CONIBEAR & ASSOCIATES, LTD.
600 W VAN BUREN ST, STE 500
CHICAGO, IL 60607
T 312-782-4486

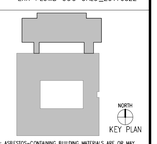
EMILIANO ZAPATA
ACADEMY ANNEX
2728 S KOSTNER AVE
CHICAGO, IL 60623

PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
1		10/21/2016	SCHEMATIC DESIGN
2		12/12/2016	DESIGN DEVELOPMENT
3		02/07/2017	60% CONSTRUCTION DOCUMENTS
4		03/14/2017	90% CONSTRUCTION DOCUMENTS
5		03/31/2017	ISSUE FOR PERMIT
6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
9	2	08/22/2017	ADDENDUM 2

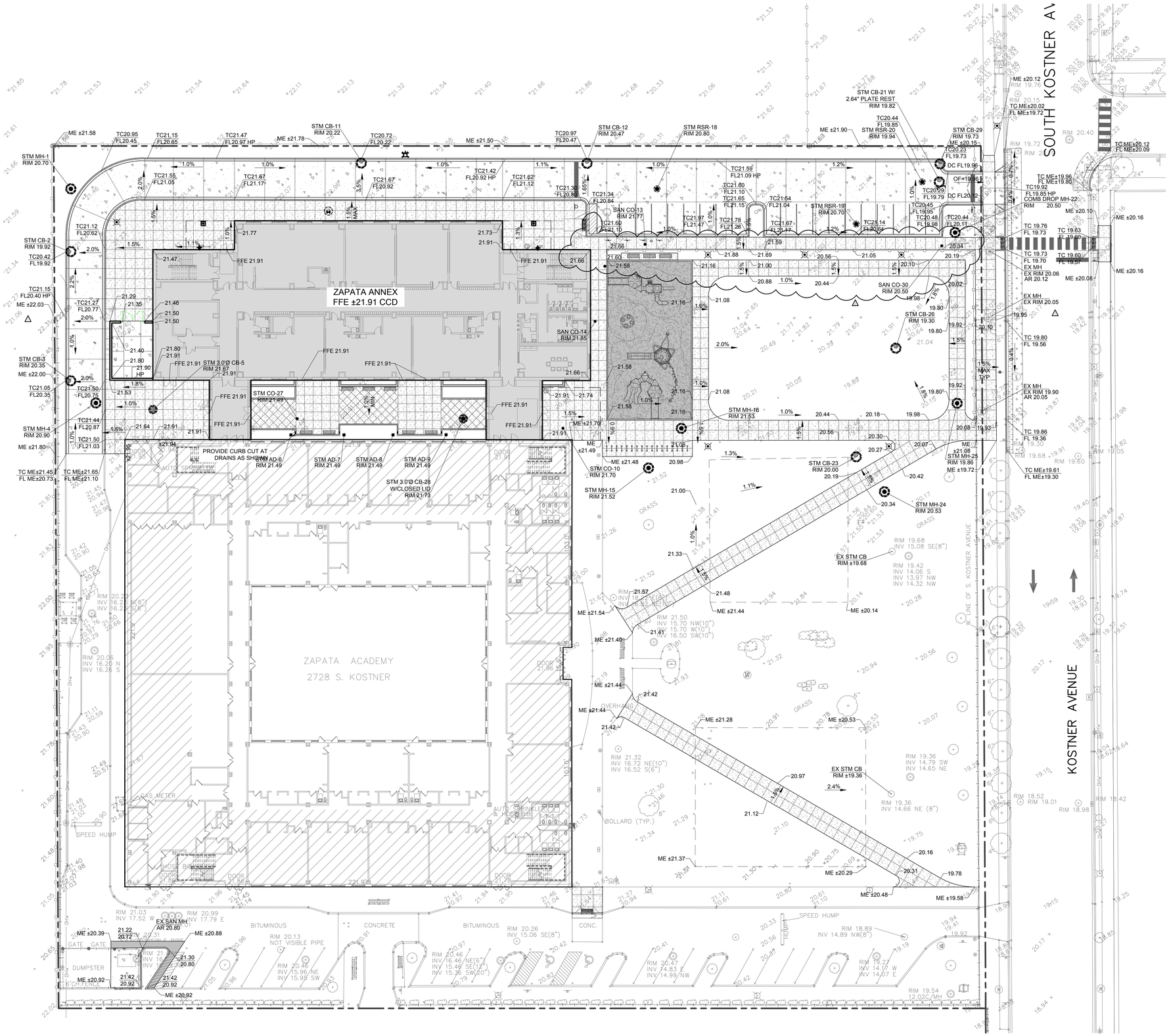
DRAWN BY: JW
CHECKED BY: TS
SCALE: 1/16" = 1'-0"
FILE NAME: DW_AL_TS_G22_L02 EXIT PLAN W EXIT PLUMB OCC CALC_20170822

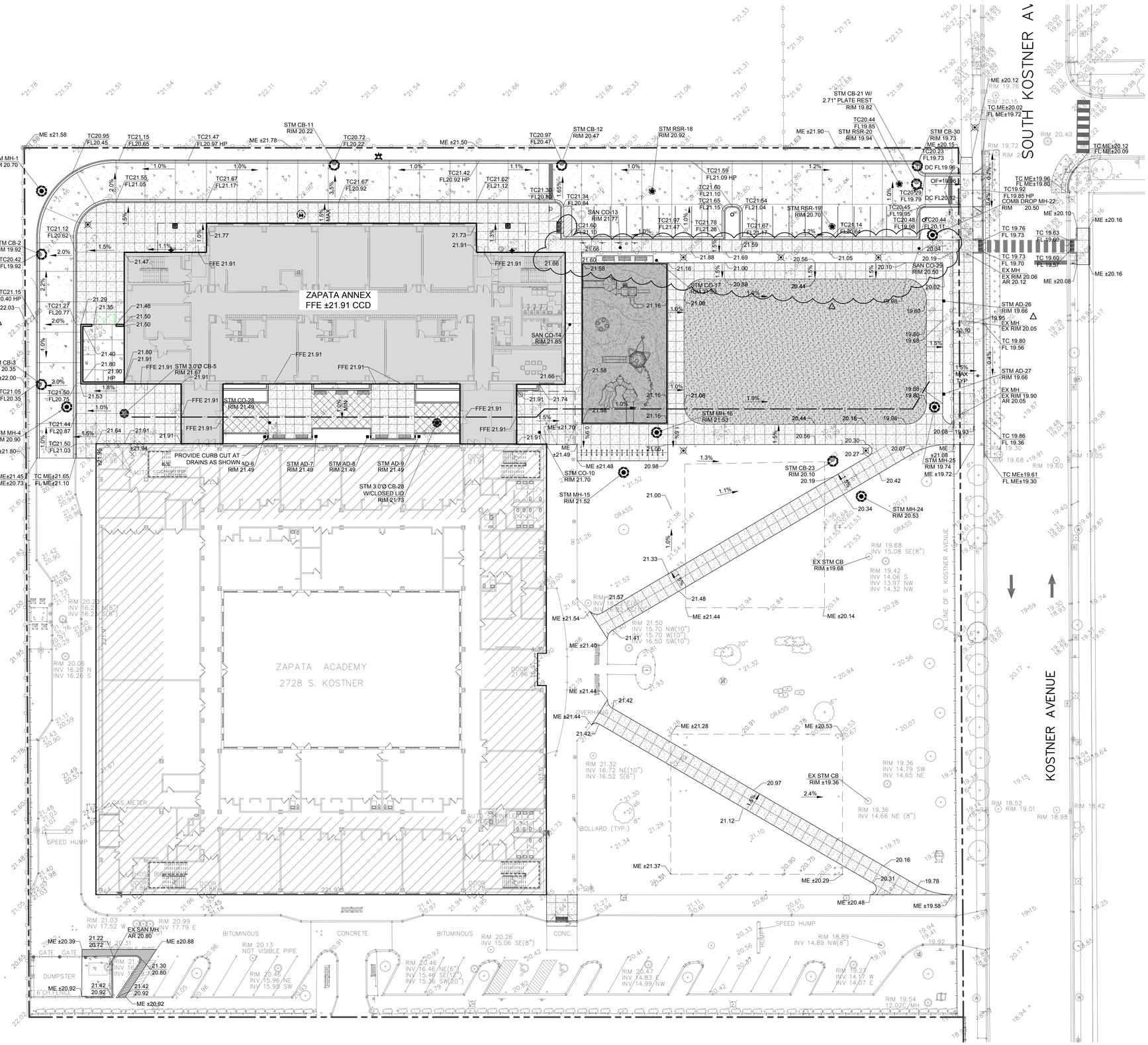


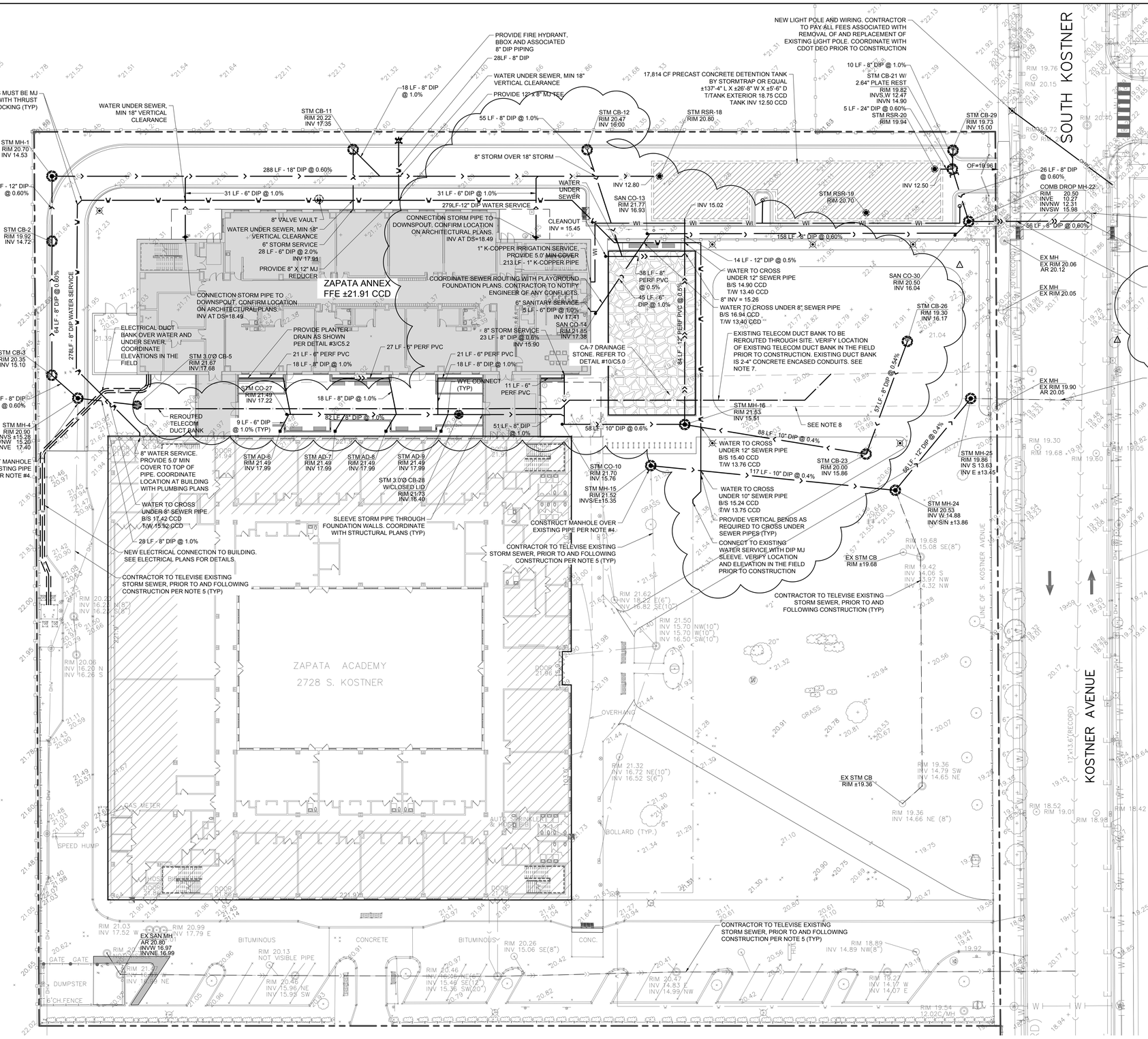
WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK UNDER THE SUPERVISION OF A LICENSED ASBESTOS WORKER IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

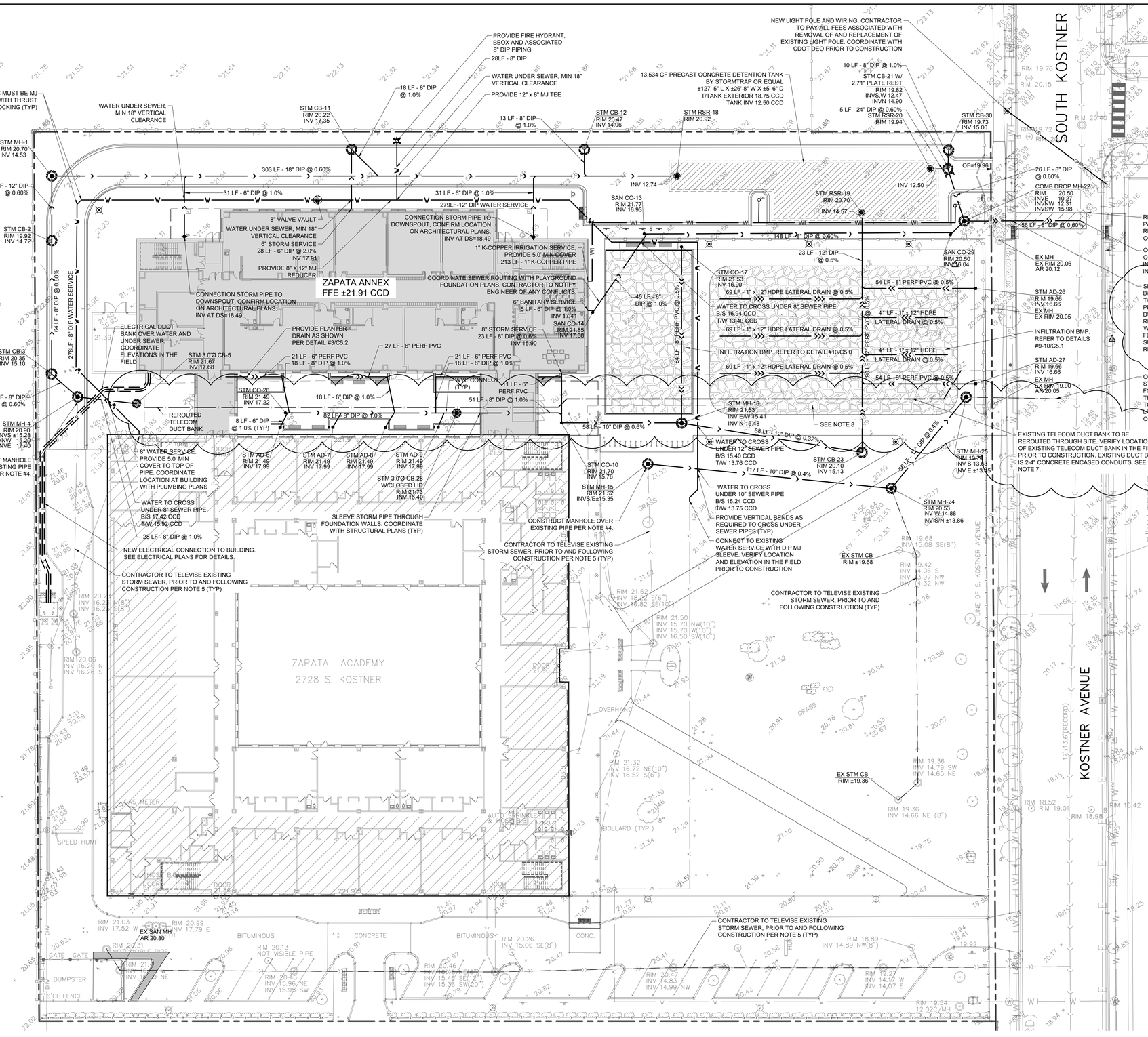
SHEET TITLE
LEVEL 02 EXITING PLAN WITH EXITING, PLUMBING, AND OCCUPANCY CALCULATIONS

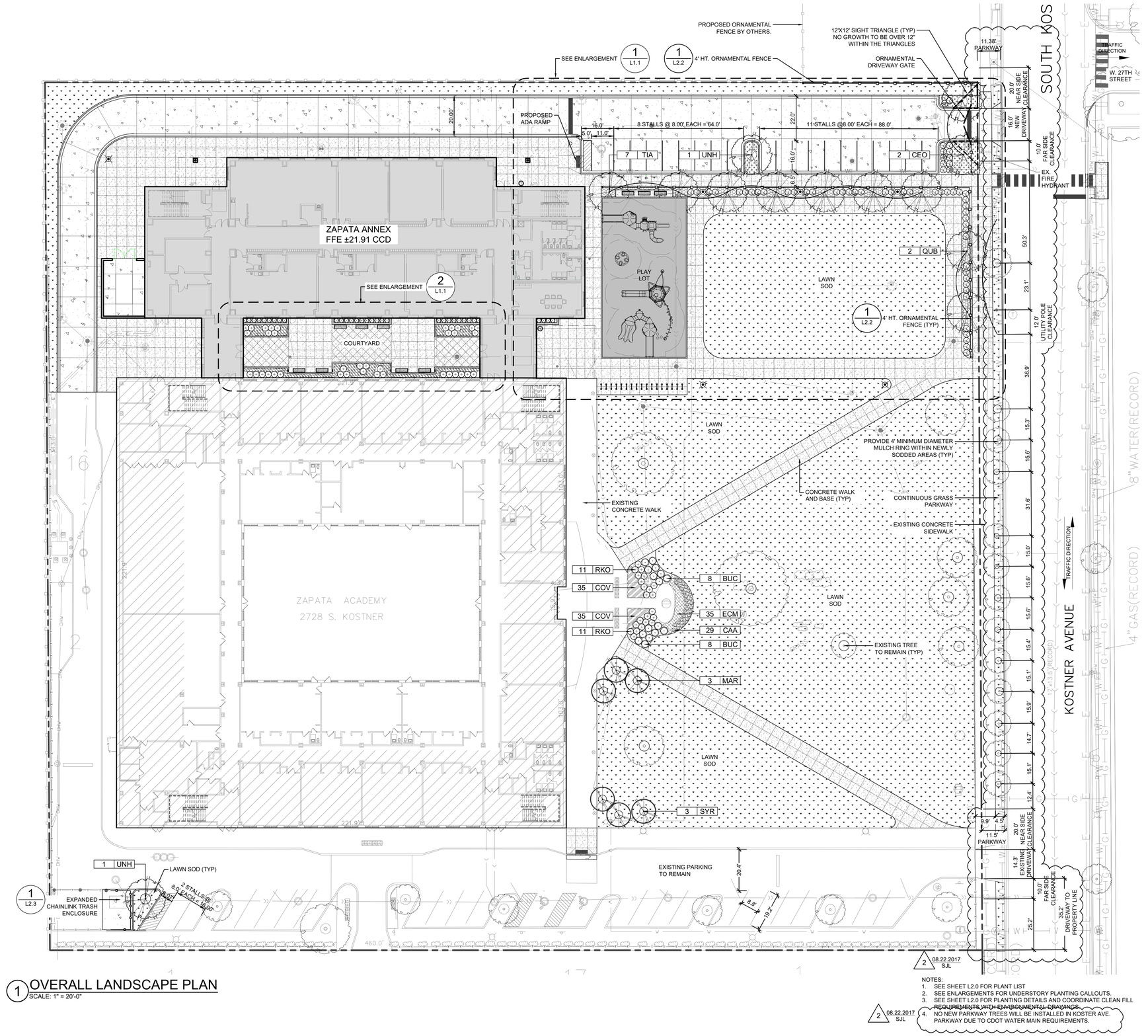
DRAWING NO.
G2.2


ZAPATA ANNEX
FFE ±21.91 CCD
ZAPATA ACADEMY
2728 S. KOSTNER
SOUTH KOSTNER AV
KOSTNER AVENUE
W. LINE OF S. KOSTNER AVENUE
STM MH-1 RIM 20.70
STM CB-2 RIM 19.92
STM CB-3 RIM 20.35
STM MH-4 RIM 20.90
STM CB-11 RIM 20.22
STM CB-12 RIM 20.47
STM RSR-18 RIM 20.80
STM CB-21 W/ 2.64" PLATE REST RIM 19.82
STM CB-29 RIM 19.73
STM RSR-20 RIM 19.94
STM RSR-19 RIM 20.70
STM CB-26 RIM 19.30
STM MH-16 RIM 21.53
STM CO-27 RIM 21.49
STM 3.0'Ø CB-5 RIM 21.67
STM AD-6 RIM 21.49
STM AD-7 RIM 21.49
STM AD-8 RIM 21.49
STM AD-9 RIM 21.49
STM 3.0'Ø CB-28 W/CLOSED LID RIM 21.73
STM CO-10 RIM 21.70
STM MH-15 RIM 21.52
STM CB-23 RIM 20.00
STM MH-25 RIM 19.86
STM MH-24 RIM 20.53
SAN CO-13 RIM 21.77
SAN CO-14 RIM 21.85
SAN CO-30 RIM 20.50
EX SAN MH AR 20.80
EX STM CB RIM ±19.68
EX STM CB RIM ±19.36
EX MH EX RIM 20.05
EX MH EX RIM 19.90 AR 20.05
EX MH EX RIM 20.06 AR 20.12
COMB DROP MH-22 RIM 20.50
PROVIDE CURB CUT AT DRAINS AS SHOWN
SPEED HUMP
DUMPSTER
6' CHAIN LINK FENCE
GATE
GAS METER
HOSE BIBB
AUTO SPRINKLER & HOSE BIB
BOLLARD (TYP.)
OVERHANG
BITUMINOUS
CONCRETE
CONC.
GRASS
ME ±20.12 RIM 19.76
TC ME±20.02 FL ME±19.72
TC ME±20.12 FL ME±20.09
TC ME±19.86 FL ME±19.86
TC 19.92 FL 19.85 HP
RIM 20.50
TC 19.76 FL 19.73
TC 19.83 FL 19.60
TC 19.73 FL 19.70
TC 19.60 FL 19.57
TC 19.80 FL 19.56
TC 19.86 FL 19.36
RIM 19.30
RIM 19.68
TC ME±19.91 FL ME±19.30
ME ±20.10
ME ±20.16
ME ±20.08
RIM 18.52
RIM 19.01
RIM 18.98
RIM 18.42
RIM 19.72
RIM 20.40
RIM 20.15
RIM 19.60
RIM 19.45
RIM 19.30
RIM 19.19
RIM 19.27
INV 14.17 W
INV 14.07 E
RIM 18.89
INV 14.89 NW(8")
RIM 19.54
12.02C/MH
RIM 21.03
INV 17.52 W
RIM 20.99
INV 17.79 E
RIM 20.13
NOT VISIBLE PIPE
RIM 20.46
INV 15.96 NE
INV 15.95 SW
RIM 20.26
INV 15.06 SE(8")
RIM 20.46
INV 16.46 NE(6")
INV 15.49 SE(12")
INV 15.36 SW(20")
RIM 20.47
INV 14.83 E
INV 14.99 NW
RIM 21.50
INV 15.70 NW(10")
INV 15.70 W(10")
INV 16.50 SW(10")
RIM 21.32
INV 16.72 NE(10")
INV 16.52 S(6")
RIM 19.36
INV 14.79 SW
INV 14.65 NE
RIM 19.36
INV 14.66 NE (8")
RIM 19.68
INV 15.08 SE(8")
RIM 19.42
INV 14.06 S
INV 13.97 NW
INV 14.32 NW
RIM 20.06
INV 16.20 N
INV 16.26 S
RIM 20.22
INV 16.22 N(8")
INV 16.22 S(8")
ME ±21.58
ME ±21.78
ME ±21.50
ME ±21.90
ME ±21.70
ME ±21.49
ME ±21.48
ME ±21.54
ME ±21.44
ME ±21.40
ME ±21.44
ME ±21.44
ME ±21.28
ME ±20.53
ME ±20.14
ME ±21.37
ME ±20.29
ME ±20.48
ME ±19.58
ME ±21.08
ME ±19.72
TC ME±21.45 FL ME±21.10
TC ME±21.65 FL ME±20.73
ME ±20.39
ME ±20.88
ME ±20.92
ME ±20.92
TC20.95 FL20.45
TC21.15 FL20.65
TC21.47 FL20.97 HP
TC20.72 FL20.22
TC20.97 FL20.47
TC21.42 FL20.92 HP
TC21.59 FL21.09 HP
TC20.44 FL19.85
TC20.23 FL19.73
TC20.29 FL19.79
TC20.45 FL19.95
TC20.48 FL19.98
TC20.44 FL20.11
TC21.12 FL20.62
TC21.55 FL21.05
TC21.67 FL21.17
TC21.67 FL20.92
TC21.62 FL21.12
TC21.36 FL20.86
TC21.34 FL20.84
TC21.60 FL21.10
TC21.60 FL21.10
TC21.65 FL21.15
TC21.54 FL21.04
TC21.97 FL21.47
TC21.78 FL21.28
TC21.67 FL21.17
TC21.14 FL20.64
TC20.42 FL19.92
TC21.15 FL20.40 HP
TC21.27 FL20.77
TC21.05 FL20.35
TC21.50 FL20.75
TC21.44 FL20.87
TC21.50 FL21.03
TC21.96 FL21.36
TC21.91 FL21.31
TC21.94 FL21.34
TC21.96 FL21.36
TC21.94 FL21.34
TC21.95 FL21.35


ZAPATA ANNEX
FFE ±21.91 CCD
ZAPATA ACADEMY
2728 S. KOSTNER
SOUTH KOSTNER AV
KOSTNER AVENUE
PROVIDE CURB CUT AT DRAINS AS SHOWN AD-6
STM MH-1 RIM 20.70
STM CB-2 RIM 19.92
STM CB-3 RIM 20.35
STM MH-4 RIM 20.90
STM CB-11 RIM 20.22
STM CB-12 RIM 20.47
STM RSR-18 RIM 20.92
STM CB-21 W/ 2.71" PLATE REST RIM 19.82
STM CB-30 RIM 19.73
STM RSR-19 RIM 20.70
STM RSR-20 RIM 19.94
STM CO-13 RIM 21.77
STM CO-14 RIM 21.85
STM CO-17 RIM 21.33
STM CO-28 RIM 21.49
STM 3.0'Ø CB-5 RIM 21.67
STM 3.0'Ø CB-28 W/CLOSED LID RIM 21.73
STM AD-6 RIM 21.49
STM AD-7 RIM 21.49
STM AD-8 RIM 21.49
STM AD-9 RIM 21.49
STM AD-26 RIM 19.66
STM AD-27 RIM 19.66
STM MH-15 RIM 21.52
STM CO-10 RIM 21.70
STM MH-16 RIM 21.53
STM CB-23 RIM 20.10
STM MH-24 RIM 20.53
STM MH-25 RIM 19.74
EX STM CB RIM ±19.68
EX STM CB RIM ±19.36
EX SAN MH AR 20.80
SAN CO-13 RIM 21.77
SAN CO-14 RIM 21.85
SAN CO-29 RIM 20.50
COMB DROP MH-22 RIM 20.50
EX MH EX RIM 20.05
EX MH EX RIM 19.90 AR 20.05
EX MH AR 20.06 AR 20.12
TC ME±20.02 FL ME±19.72
TC ME±20.12 FL ME±20.09
TC ME±19.86 FL ME±19.86
TC ME±19.81 FL ME±19.30
TC ME±21.45 FL ME±20.73
TC ME±21.65 FL ME±21.10
DUMPSTER
6' CH LINK FENCE
GATE
SPEED HUMP
BOLLARD (TYP.)
GAS METER
AUTO SPRINKLER & HOSE BIBB
HOSE BIBB
DOOR 21.86
DOOR 21.88
DOOR 21.90
OVERHANG
BITUMINOUS
CONCRETE
GRASS
RIM 21.03 INV 17.52 W
RIM 20.99 INV 17.79 E
RIM 20.13 NOT VISIBLE PIPE
RIM 20.46 INV 15.96 NE INV 15.99 SW
RIM 20.46 INV 16.46 NE(6") INV 15.46 SE(12") INV 15.36 SW(20")
RIM 20.47 INV 14.83 E INV 14.99 NW
RIM 20.26 INV 15.06 SE(8")
RIM 18.89 INV 14.89 NW(8")
RIM 18.27 INV 14.17 W INV 14.07 E
RIM 19.54 12.02C/MH
RIM 19.68 INV 15.08 SE(8")
RIM 19.42 INV 14.06 S INV 13.97 NW INV 14.32 NW
RIM 19.36 INV 14.79 SW INV 14.65 NE
RIM 19.36 INV 14.66 NE (8")
RIM 21.57 INV 15.82 SE(8")
RIM 21.50 INV 15.70 NW(10") INV 15.70 W(10") INV 16.50 SW(10")
RIM 21.32 INV 16.72 NE(10") INV 16.52 S(6")
RIM 20.06 INV 16.20 N INV 16.26 S
RIM 20.28 INV 16.2 (8") INV 16.2 (8")
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ZAPATA ANNEX
FFE ±21.91 CCD
ZAPATA ACADEMY
2728 S. KOSTNER
SOUTH KOSTNER
WEST 27TH ST
KOSTNER AVENUE
8" WATER (RECORD)
N
Scale: 1 inch = 20ft.
ALL FITTINGS MUST BE MJ DIP WITH THRUST BLOCKING (TYP)
WATER UNDER SEWER, MIN 18" VERTICAL CLEARANCE
PROVIDE FIRE HYDRANT, BBOX AND ASSOCIATED 8" DIP PIPING
28LF - 8" DIP
WATER UNDER SEWER, MIN 18" VERTICAL CLEARANCE
PROVIDE 12" x 8" MJ TEE
18 LF - 8" DIP @ 1.0%
55 LF - 8" DIP @ 1.0%
17,814 CF PRECAST CONCRETE DETENTION TANK BY STORMTRAP OR EQUAL ±137'-4" L X ±26'-8" W X ±5'-6" D T/TANK EXTERIOR 18.75 CCD TANK INV 12.50 CCD
NEW LIGHT POLE AND WIRING. CONTRACTOR TO PAY ALL FEES ASSOCIATED WITH REMOVAL OF AND REPLACEMENT OF EXISTING LIGHT POLE. COORDINATE WITH CDOT DEO PRIOR TO CONSTRUCTION
10 LF - 8" DIP @ 1.0%
5 LF - 24" DIP @ 0.60%
STM CB-21 W/ 2.64" PLATE REST RIM 19.82 INVS,W 12.47 INVN 14.90
STM RSR-20 RIM 19.94
STM CB-11 RIM 20.22 INV 17.35
STM CB-12 RIM 20.47 INV 16.00
STM RSR-18 RIM 20.80
STM CB-29 RIM 19.73 INV 15.00
OF=19.96
STM MH-1 RIM 20.70 INV 14.53
288 LF - 18" DIP @ 0.60%
8" STORM OVER 18" STORM
26 LF - 8" DIP @ 0.60%
COMB DROP MH-22 RIM 20.50 INVE 10.27 INVNW 12.31 INVSW 15.98
31 LF - 12" DIP @ 0.60%
31 LF - 6" DIP @ 1.0%
31 LF - 6" DIP @ 1.0%
279LF-12" DIP WATER SERVICE
WATER UNDER SEWER
INV 12.80
SAN CO-13 RIM 21.77 INV 16.93
INV 15.02
STM RSR-19 RIM 20.70
INV 12.50
56 LF - 8" DIP @ 0.60%
158 LF - 8" DIP @ 0.60%
8" VALVE VAULT
WATER UNDER SEWER, MIN 18" VERTICAL CLEARANCE
6" STORM SERVICE 28 LF - 6" DIP @ 2.0% INV 17.91
PROVIDE 8" X 12" MJ REDUCER
CONNECTION STORM PIPE TO DOWNSPOUT, CONFIRM LOCATION ON ARCHITECTURAL PLANS. INV AT DS=18.49
CLEANOUT INV = 15.45
1" K-COPPER IRRIGATION SERVICE. PROVIDE 5.0' MIN COVER 213 LF - 1" K-COPPER PIPE
COORDINATE SEWER ROUTING WITH PLAYGROUND FOUNDATION PLANS. CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS.
38 LF - 8" PERF PVC @ 0.5%
45 LF - 6" DIP @ 1.0%
6" SANITARY SERVICE 5 LF - 6" DIP @ 1.0% INV 17.41
SAN CO-14 RIM 21.85 INV 17.38
8" STORM SERVICE 23 LF - 8" DIP @ 0.6% INV 15.90
64 LF - 8" PERF PVC @ 0.5%
14 LF - 12" DIP @ 0.5%
WATER TO CROSS UNDER 12" SEWER PIPE B/S 14.90 CCD T/W 13.40 CCD
8" INV = 15.26
WATER TO CROSS UNDER 8" SEWER PIPE B/S 16.94 CCD T/W 13.40 CCD
EXISTING TELECOM DUCT BANK TO BE REROUTED THROUGH SITE. VERIFY LOCATION OF EXISTING TELECOM DUCT BANK IN THE FIELD PRIOR TO CONSTRUCTION. EXISTING DUCT BANK IS 2-4" CONCRETE ENCASED CONDUITS. SEE NOTE 7.
SAN CO-30 RIM 20.50 INV 16.04
STM CB-26 RIM 19.30 INV 16.17
SEWER TO CROSS UNDER 30" WATERMAIN B/W ±12.33 CCD (VERIFY IN THE FIELD) T/S 10.83 CCD
PROVIDE SUPPORT OF EXISTING WATER MAIN DURING CONSTRUCTION PER CDWM REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH CDWM PRIOR TO CONSTRUCTION AND PAY ALL FEES ASSOCIATED WITH PROTECTION AND SUPPORT OF THE WATER MAIN INCLUDING CDWM RESIDENT ENGINEERING SERVICES
CONTRACTOR TO TELEVISE EXISTING STORM SEWER, PRIOR TO AND FOLLOWING CONSTRUCTION PER NOTE 5. THIS SECTION OF SEWER, FROM STM MH TO CONNECTION IN S KOSTNER AVE (±53 LF), SHALL BE VIDEOED IN THE PRESENCE OF A DWM SEWER INSPECTOR
RESTORE STREET PAVEMENT AS REQUIRED FOR UTILITY CONSTRUCTION
CONNECT TO EXISTING CITY OF CHICAGO SEWER MAIN INV (17 X13.6) = 3.26 INV (@) 3.49
EX MH EX RIM 20.06 AR 20.12
EX MH EX RIM 20.05
EX MH EX RIM 19.90 AR 20.05
STM MH-25 RIM 19.86 INV S 13.63 INV E ±13.45
STM MH-24 RIM 20.53 INV W 14.88 INV SW ±13.86
STM MH-16 RIM 21.53 INV 15.51
SEE NOTE 8
88 LF - 10" DIP @ 0.4%
117 LF - 10" DIP @ 0.4%
66 LF - 12" DIP @ 0.4%
27 LF - 8" DIP @ 0.4%
STM CB-23 RIM 20.00 INV 15.86
WATER TO CROSS UNDER 10" SEWER PIPE B/S 15.24 CCD T/W 13.75 CCD
PROVIDE VERTICAL BENDS AS REQUIRED TO CROSS UNDER SEWER PIPES (TYP)
CONNECT TO EXISTING WATER SERVICE WITH DIP MJ SLEEVE. VERIFY LOCATION AND ELEVATION IN THE FIELD PRIOR TO CONSTRUCTION
EX STM CB RIM ±19.68
CONTRACTOR TO TELEVISE EXISTING STORM SEWER, PRIOR TO AND FOLLOWING CONSTRUCTION (TYP)
STM CB-3 RIM 20.35 INV 15.10
STM 3.0Ø CB-5 RIM 21.67 INV 17.68
ELECTRICAL DUCT BANK OVER WATER AND UNDER SEWER. COORDINATE ELEVATIONS IN THE FIELD
PROVIDE PLANTER DRAIN AS SHOWN PER DETAIL #3/C5.2
27 LF - 6" PERF PVC
21 LF - 6" PERF PVC
18 LF - 8" DIP @ 1.0%
21 LF - 6" PERF PVC
18 LF - 8" DIP @ 1.0%
CA-7 DRAINAGE STONE. REFER TO DETAIL #10/C5.0
84 LF - 12" PERF PVC @ 0.5%
INV CONNECT (TYP)
11 LF - 6" PERF PVC
16 LF - 8" DIP @ 0.60%
STM MH-4 RIM 20.90 INVS ±15.28 INVNW 15.20 INVE 17.40
CONSTRUCT MANHOLE OVER EXISTING PIPE PER NOTE #4
STM CO-27 RIM 21.49 INV 17.22
18 LF - 8" DIP @ 1.0%
82 LF - 8" DIP @ 1.0%
9 LF - 6" DIP @ 1.0% (TYP)
REROUTED TELECOM DUCT BANK
51 LF - 8" DIP @ 1.0%
58 LF - 10" DIP @ 0.6%
8" WATER SERVICE. PROVIDE 5.0' MIN COVER TO TOP OF PIPE. COORDINATE LOCATION AT BUILDING WITH PLUMBING PLANS
WATER TO CROSS UNDER 8" SEWER PIPE B/S 17.42 CCD T/W 15.92 CCD
28 LF - 8" DIP @ 1.0%
NEW ELECTRICAL CONNECTION TO BUILDING. SEE ELECTRICAL PLANS FOR DETAILS.
CONTRACTOR TO TELEVISE EXISTING STORM SEWER, PRIOR TO AND FOLLOWING CONSTRUCTION PER NOTE 5 (TYP)
STM AD-6 RIM 21.49 INV 17.99
STM AD-7 RIM 21.49 INV 17.99
STM AD-8 RIM 21.49 INV 17.99
STM AD-9 RIM 21.49 INV 17.99
STM 3.0Ø CB-28 W/CLOSED LID RIM 21.73 INV 16.40
SLEEVE STORM PIPE THROUGH FOUNDATION WALLS. COORDINATE WITH STRUCTURAL PLANS (TYP)
STM CO-10 RIM 21.70 INV 15.76
STM MH-15 RIM 21.52 INVS/E±15.35
CONSTRUCT MANHOLE OVER EXISTING PIPE PER NOTE #4
CONTRACTOR TO TELEVISE EXISTING STORM SEWER, PRIOR TO AND FOLLOWING CONSTRUCTION PER NOTE 5 (TYP)
RIM 21.62 INV 18.22 E(6") INV 18.82 SE(10")
RIM 21.50 INV 15.70 NW(10") INV 15.70 W(10") INV 16.50 SW(10")
RIM 19.68 INV 15.08 SE(8")
RIM 19.42 INV 14.06 S INV 14.97 NW INV 14.32 NW
RIM 21.32 INV 16.72 NE(10") INV 16.52 S(6")
RIM 19.36 INV 14.79 SW INV 14.65 NE
RIM 19.36 INV 14.66 NE (8")
EX STM CB RIM ±19.36
BOLLARD (TYP.)
GAS METER
SPEED HUMP
HOSE BIBB
AUTO SPRINKLER HOSE BIB
DOOR 21.86
DOOR 21.86
DOOR 21.86
DOOR 21.86
OVERHANG
GRASS
RIM 20.06 INV 16.26 N INV 16.26 S
RIM 21.03 INV 17.52 W
RIM 20.99 INV 17.79 E
EX SAN MH AR 20.80 INVW 16.97 INVNE 16.99
RIM 20.13 NOT VISIBLE PIPE
RIM 20.46 INV 15.96 NE INV 15.99 SW
RIM 20.46 INV 16.05 NE(12") INV 15.46 SE(12") INV 15.36 SW(20")
RIM 20.26 INV 15.06 SE(8")
RIM 18.89 INV 14.89 NW(8")
RIM 20.47 INV 14.83 E INV 14.99 NW
RIM 19.27 INV 14.17 W INV 14.07 E
RIM 19.54 12.02C/MH
RIM 18.52 RIM 19.01
RIM 18.98
RIM 18.42
CONTRACTOR TO TELEVISE EXISTING STORM SEWER, PRIOR TO AND FOLLOWING CONSTRUCTION PER NOTE 5 (TYP)
BITUMINOUS
CONCRETE
BITUMINOUS
CONC.
DUMPSTER
CHAIN LINK FENCE
GATE
GATE
RIM 21.39
RIM 20.19
RIM 19.30
RIM 19.68
RIM 19.60
RIM 19.05
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RIM -1.84
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RIM -2.06
RIM -2.17
RIM


ZAPATA ANNEX
FFE ±21.91 CCD
ZAPATA ACADEMY
2728 S. KOSTNER
SOUTH KOSTNER
WEST 27TH
KOSTNER AVENUE
N
Scale: 1 inch = 20ft.
ALL FITTINGS MUST BE MJ DIP WITH THRUST BLOCKING (TYP)
WATER UNDER SEWER, MIN 18" VERTICAL CLEARANCE
STM MH-1 RIM 20.70 INV 14.53
31 LF - 12" DIP @ 0.60%
STM CB-2 RIM 19.92 INV 14.72
64 LF - 8" DIP @ 0.60%
278LF - 8" DIP WATER SERVICE
STM CB-3 RIM 20.35 INV 15.10
16 LF - 8" DIP @ 0.60%
STM MH-4 RIM 20.90 INV/S ±15.28 INV/W 15.20 INV/E 17.40
CONSTRUCT MANHOLE OVER EXISTING PIPE PER NOTE #4
8" WATER SERVICE. PROVIDE 5.0' MIN COVER TO TOP OF PIPE. COORDINATE LOCATION AT BUILDING WITH PLUMBING PLANS
WATER TO CROSS UNDER 8" SEWER PIPE B/S 17.42 CCD T/W 15.92 CCD
28 LF - 8" DIP @ 1.0%
NEW ELECTRICAL CONNECTION TO BUILDING. SEE ELECTRICAL PLANS FOR DETAILS.
CONTRACTOR TO TELEVISE EXISTING STORM SEWER, PRIOR TO AND FOLLOWING CONSTRUCTION PER NOTE 5 (TYP)
STM CB-11 RIM 20.22 INV 12.35
18 LF - 8" DIP @ 1.0%
PROVIDE FIRE HYDRANT, BBOX AND ASSOCIATED 8" DIP PIPING
28LF - 8" DIP
WATER UNDER SEWER, MIN 18" VERTICAL CLEARANCE
PROVIDE 12" x 8" MJ TEE
STM CB-12 RIM 20.47 INV 14.06
13 LF - 8" DIP @ 1.0%
STM RSR-18 RIM 20.92
13,534 CF PRECAST CONCRETE DETENTION TANK BY STORMTRAP OR EQUAL ±127'-5" L X ±26'-8" W X ±5'-6" D T/TANK EXTERIOR 18.75 CCD TANK INV 12.50 CCD
NEW LIGHT POLE AND WIRING. CONTRACTOR TO PAY ALL FEES ASSOCIATED WITH REMOVAL OF AND REPLACEMENT OF EXISTING LIGHT POLE. COORDINATE WITH CDOT DEO PRIOR TO CONSTRUCTION
10 LF - 8" DIP @ 1.0%
STM CB-21 W/ 2.71° PLATE REST RIM 19.82 INV/S,W 12.47 INVN 14.90
5 LF - 24" DIP @ 0.60%
STM RSR-20 RIM 19.94
STM CB-30 RIM 19.73 INV 15.00
OF=19.96
303 LF - 18" DIP @ 0.60%
31 LF - 6" DIP @ 1.0%
279LF-12" DIP WATER SERVICE
INV 12.74
INV 12.50
SAN CO-13 RIM 21.77 INV 16.93
STM RSR-19 RIM 20.70 INV 14.57
26 LF - 8" DIP @ 0.60%
COMB DROP MH-22 RIM 20.50 INV/E 10.27 INV/NW 12.31 INV/SW 15.98
56 LF - 8" DIP @ 0.60%
148 LF - 8" DIP @ 0.60%
23 LF - 12" DIP @ 0.5%
SAN CO-29 RIM 20.50 INV/E 16.04
EX MH EX RIM 20.06 AR 20.12
8" VALVE VAULT
WATER UNDER SEWER, MIN 18" VERTICAL CLEARANCE
6" STORM SERVICE 28 LF - 6" DIP @ 2.0% INV 17.91
PROVIDE 8" X 12" MJ REDUCER
CONNECTION STORM PIPE TO DOWNSPOUT, CONFIRM LOCATION ON ARCHITECTURAL PLANS. INV AT DS=18.49
1" K-COPPER IRRIGATION SERVICE. PROVIDE 5.0' MIN COVER 213 LF - 1" K-COPPER PIPE
COORDINATE SEWER ROUTING WITH PLAYGROUND FOUNDATION PLANS. CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS.
CONNECTION STORM PIPE TO DOWNSPOUT, CONFIRM LOCATION ON ARCHITECTURAL PLANS. INV AT DS=18.49
6" SANITARY SERVICE 5 LF - 6" DIP @ 1.0% INV 17.41
SAN CO-14 RIM 21.85 INV 17.38
8" STORM SERVICE 23 LF - 8" DIP @ 0.6% INV 15.90
ELECTRICAL DUCT BANK OVER WATER AND UNDER SEWER. COORDINATE ELEVATIONS IN THE FIELD
STM 3.0Ø CB-5 RIM 21.67 INV 17.68
PROVIDE PLANTER DRAIN AS SHOWN PER DETAIL #3/C5.2
27 LF - 6" PERF PVC
21 LF - 6" PERF PVC
18 LF - 8" DIP @ 1.0%
21 LF - 6" PERF PVC
18 LF - 8" DIP @ 1.0%
INVS CONNECT (TYP)
41 LF - 6" PERF PVC
51 LF - 8" DIP @ 1.0%
STM CO-28 RIM 21.49 INV 17.22
18 LF - 8" DIP @ 1.0%
82 LF - 8" DIP @ 1.0%
8 LF - 6" DIP @ 1.0% (TYP)
REROUTED TELECOM DUCT BANK
58 LF - 10" DIP @ 0.6%
45 LF - 6" DIP @ 1.0%
84 LF - 8" PERF PVC @ 0.5%
STM CO-17 RIM 21.53 INV 16.90
69 LF - 1" x 12" HDPE LATERAL DRAIN @ 0.5%
WATER TO CROSS UNDER 8" SEWER PIPE B/S 16.94 CCD T/W 13.40 CCD
69 LF - 1" x 12" HDPE LATERAL DRAIN @ 0.5%
INFILTRATION BMP. REFER TO DETAIL #10/C5.0
69 LF - 1" x 12" HDPE LATERAL DRAIN @ 0.5%
54 LF - 8" PERF PVC @ 0.5%
41 LF - 1" x 12" HDPE LATERAL DRAIN @ 0.5%
41 LF - 1" x 12" HDPE LATERAL DRAIN @ 0.5%
54 LF - 8" PERF PVC @ 0.5%
STM MH-16 RIM 21.53 INV E/W 15.41 INV N 16.48
SEE NOTE 8
88 LF - 12" DIP @ 0.32%
WATER TO CROSS UNDER 12" SEWER PIPE B/S 15.40 CCD T/W 13.76 CCD
117 LF - 10" DIP @ 0.4%
STM CB-23 RIM 20.10 INV 15.13
68 LF - 12" DIP @ 0.4%
STM MH-25 RIM 19.94 INV S 13.83 INV E ±13.45
STM CO-10 RIM 21.70 INV 15.76
STM MH-15 RIM 21.52 INVS/E±15.35
WATER TO CROSS UNDER 10" SEWER PIPE B/S 15.24 CCD T/W 13.75 CCD
PROVIDE VERTICAL BENDS AS REQUIRED TO CROSS UNDER SEWER PIPES (TYP)
CONNECT TO EXISTING WATER SERVICE WITH DIP MJ SLEEVE. VERIFY LOCATION AND ELEVATION IN THE FIELD PRIOR TO CONSTRUCTION
STM MH-24 RIM 20.53 INV W 14.88 INV/SW ±13.86
EX STM CB RIM ±19.68
RIM 19.68 INV 15.08 SE(8")
RIM 19.42 INV 14.06 S INV 13.97 NW INV 14.32 NW
CONTRACTOR TO TELEVISE EXISTING STORM SEWER, PRIOR TO AND FOLLOWING CONSTRUCTION (TYP)
SLEEVE STORM PIPE THROUGH FOUNDATION WALLS. COORDINATE WITH STRUCTURAL PLANS (TYP)
CONSTRUCT MANHOLE OVER EXISTING PIPE PER NOTE #4
CONTRACTOR TO TELEVISE EXISTING STORM SEWER, PRIOR TO AND FOLLOWING CONSTRUCTION PER NOTE 5 (TYP)
STM AD-6 RIM 21.49 INV 17.99
STM AD-7 RIM 21.49 INV 17.99
STM AD-6 RIM 21.49 INV 17.99
STM AD-9 RIM 21.49 INV 17.99
STM 3.0Ø CB-28 W/CLOSED LID RIM 21.73 INV 16.40
RIM 21.62 INV 18.24 E(6") INV 16.82 SE(10")
RIM 21.50 INV 15.70 NW(10") INV 15.70 W(10") INV 16.50 SW(10")
RIM 21.32 INV 16.72 NE(10") INV 16.52 S(6")
RIM 20.06 INV 16.26 N INV 16.26 S
RIM 20.31 INV 16.29 W INV 16.29 NE
RIM 21.03 INV 17.52 W
RIM 20.99 INV 17.79 E
EX SAN MH AR 20.80
RIM 20.31 NOT VISIBLE PIPE
RIM 21.03 INV 16.79 NE
RIM 20.13 NOT VISIBLE PIPE
RIM 20.46 INV 15.96 NE INV 15.99 SW
RIM 20.46 INV 15.45 SE(12") INV 15.36 SW(20")
RIM 20.26 INV 15.06 SE(8")
RIM 20.47 INV 14.83 E INV 14.99 NW
RIM 18.89 INV 14.89 NW(8")
RIM 19.27 INV 14.17 W INV 14.07 E
RIM 19.54 12.02C/MH
EX STM CB RIM ±19.36
RIM 19.36 INV 14.79 SW INV 14.65 NE
RIM 19.36 INV 14.66 NE (8")
RIM 18.52 RIM 19.01
RIM 18.98
RIM 18.42
EX MH EX RIM 20.06 AR 20.12
STM AD-26 RIM 19.66 INV 16.66
EX MH EX RIM 20.05
INFILTRATION BMP. REFER TO DETAILS #9-10/C5.1
STM AD-27 RIM 19.66 INV 16.66
EX MH EX RIM 19.90 AR 20.05
SEWER TO CROSS UNDER 30" WATERMAIN B/W ±12.33 CCD (VERIFY IN THE FIELD) T/S 10.83 CCD
PROVIDE SUPPORT OF EXISTING WATER MAIN DURING CONSTRUCTION PER CDWM REQUIREMENTS. CONTRACTOR SHALL COORDI WITH CDWM PRIOR TO CONSTRUCTION AND PA FEES ASSOCIATED WITH PROTECTION AND SUPPORT OF THE WATER MAIN INCLUDING CDV RESIDENT ENGINEERING SERVICES
CONTRACTOR TO TELEVISE EXISTING STORM SEWER, PRIOR TO AND FOLLOWING CONSTRUCTION PER NOTE 5. THIS SECTION OF SEWER, FROM STM MH TO CONNECTION IN S KOSTNER AVE (±53 LF), SHALL BE VIDEOED IN THE PRESENCE OF A DWM SEWER INSPECTOR
EXISTING TELECOM DUCT BANK TO BE REROUTED THROUGH SITE. VERIFY LOCATION OF EXISTING TELECOM DUCT BANK IN THE FIELD PRIOR TO CONSTRUCTION. EXISTING DUCT BANK IS 2-4" CONCRETE ENCASED CONDUITS. SEE NOTE 7.
RESTORE STREET PAVEMENT AS REQUIRED FOR UTILITY CONSTRUCTION
CONNECT TO EXISTING CITY OF CHICAGO SEWER MAIN INV (17' X13.6') ±13.26 INV (@) ±13.69
CONTRACTOR TO TELEVISE EXISTING STORM SEWER, PRIOR TO AND FOLLOWING CONSTRUCTION (TYP)
CONTRACTOR TO TELEVISE EXISTING STORM SEWER, PRIOR TO AND FOLLOWING CONSTRUCTION PER NOTE 5 (TYP)
8" WATER
GRASS
OVERHANG
GRASS METER
SPEED HUMP
HOSE BIBB
DOOR 27.5
DOOR 28.6
DOOR 28.6
AUTO SPRINKLER
HOSE BIBB
(BOLLARD (TYP.)
DOOR 28.6
DOOR 28.6
DOOR 28.6



1 OVERALL LANDSCAPE PLAN
SCALE: 1" = 20'-0"

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NOTES:
1. SEE SHEET L2.0 FOR PLANT LIST
2. SEE ENLARGEMENTS FOR UNDERSTORY PLANTING CALLOUTS.
3. SEE SHEET L2.0 FOR PLANTING DETAILS AND COORDINATE CLEAN FILL REQUIREMENTS WITH ENVIRONMENTAL DRAWINGS.
4. NO NEW PARKWAY TREES WILL BE INSTALLED IN KOSTER AVE. PARKWAY DUE TO CDOT WATER MAIN REQUIREMENTS.

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Scale: 1 inch = 20 ft.

N

LEGEND:

- PROPERTY LINE
- CONCRETE WALK AND BASE
- EXISTING TREE TO REMAIN
- SHADE TREE
- ORNAMENTAL TREE
- DECIDUOUS SHRUBS
- EVERGREEN SHRUBS
- LAWN SOD
- PERENNIAL / GROUNDCOVER AREAS
- ORNAMENTAL GRASSES
- BIKE RACKS
- TRASH RECEPTACLE
- BENCH
- LIGHT
- ORNAMENTAL FENCE
- 12' X 12' SIGHT TRIANGLE

SWORN STATEMENTS:

The undersigned acknowledges the landscape planting shown on the landscape plan for the property at:

2728 S Kostner Ave, Chicago, Illinois, 60623

to the best of the undersigned applicant's knowledge has been designed and will be installed, maintained, and replaced, as required, by current and subsequent owners in accordance with the requirements of Chapter 32 of the Chicago Municipal Code, the landscaping standard of the Chicago Zoning Ordinance, and the "Guide to the Chicago Landscape Ordinance."

Existing parkway and on-site interior trees are to be protected while project is under construction and will be replaced by current and subsequent owner if damaged.

Owner's Name and Signature

The undersigned LANDSCAPE ARCHITECT, registered in the State of Illinois, acknowledges that the landscape planting plan and construction details shown on the attached landscape plans for the property at:

2728 S Kostner Ave, Chicago, Illinois, 60623

has been designed in accordance with the requirements of Title 10, Chapter 32 of the Chicago Municipal Code, the landscaping standards of the Chicago Zoning Ordinance, and the Guide to the Chicago Landscape Ordinance.

BROOKE A. DAVIS
TERRA Engineering Ltd.
225 W. Ohio Street, Fourth Floor
Chicago, Illinois 60610
ph: 312.467.0123

Estimated time of planting: December 15, 2018

#157-001571
exp. 8/31/17

Vehicular Use Area Calculation

Proposed Vehicular Use Area:	**6,842**	**SF**
Internal Landscape Required (7.5%)	**513**	**SF required**
TOTAL INTERIOR LANDSCAPE AREA PROVIDED	**1591**	
Trees required as part of internal landscape area (at 1 tree per 125 SF of req. internal landscape area)	**4**	**Trees required**
Existing Internal Trees	0	
Proposed Internal Trees	10	
TOTAL INTERNAL TREES PROVIDED	**10**	

Landscape Ordinance Analysis

Parkway Trees Required	**14**	
Existing Parkway Trees	13	
Proposed Parkway Trees	3	
TOTAL PARKWAY TREES PROVIDED	**16**	
Note: The number of parkway trees provided may be less than the number of trees required due to locations of existing trees and required tree clearances from bus stops, light poles, driveways and intersections.		
Perimeter Trees Required (at 1 tree per 25 LF of perimeter landscape area)	**-**	**Trees required**
Existing Perimeter Trees	0	
Proposed Perimeter Trees	0	
TOTAL PERIMETER TREES PROVIDED	**0**	

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ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6918
ARCHITECTURE/PLANNING/DESIGN

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CHICAGO, IL 60604
T 312-294-0501

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T 773-975-6467

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2 N RIVERSIDE PLAZA #1460
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EMILIANO ZAPATA ACADEMY ANNEX

2728 S KOSTNER AVE
CHICAGO, IL 60623
PBC CONTRACT NO. C1576
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	&	DATE	DESCRIPTION
1		10/21/2016	SCHEMATIC DESIGN
2		12/12/2016	DESIGN DEVELOPMENT
3		02/07/2017	50% CONSTRUCTION DOCUMENTS
4		03/14/2017	90% CONSTRUCTION DOCUMENTS
5		03/31/2017	ISSUE FOR PERMIT
6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
8	1	08/15/2017	ADDENDUM 1
9	2	08/22/2017	ADDENDUM 2

DRAWN BY:
CHECKED BY:
SCALE:
FILE NAME:

NORTH KEY PLAN

SHIPMAN, HISTOSPH+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 CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS REGULATIONS OF HEALTH RULES AND REGULATIONS.

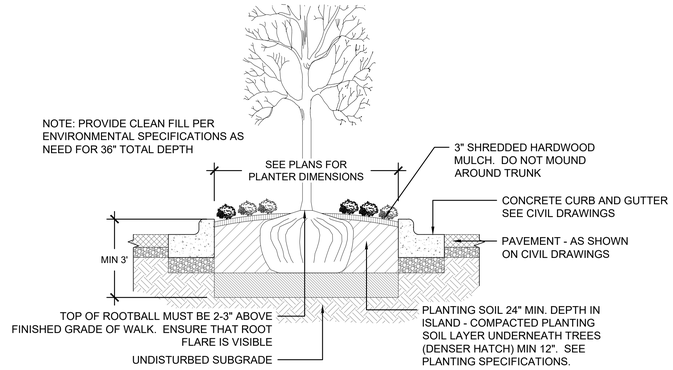
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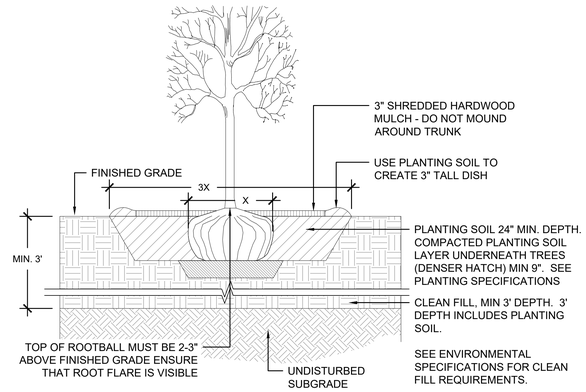
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1 CONTINUOUS TREE PARKWAY
SCALE: NTS

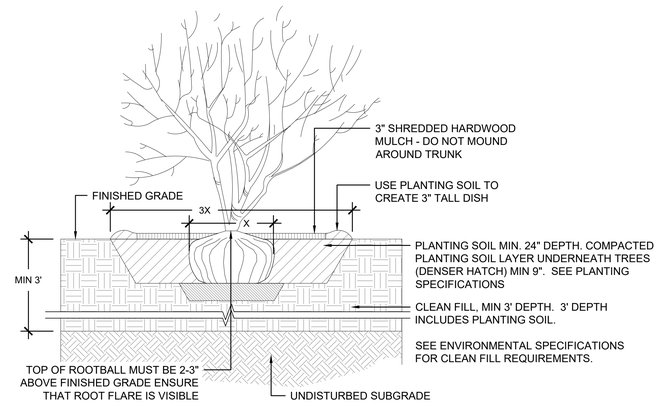
2 08.22.2017 SJL



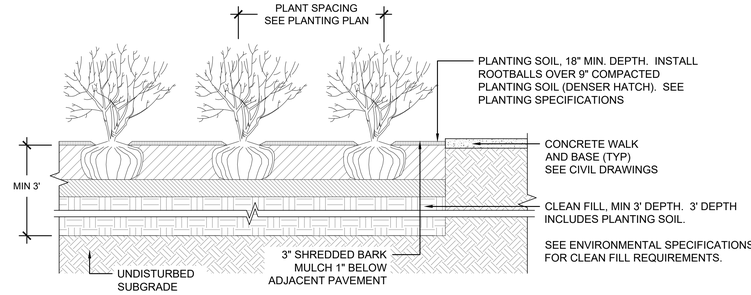
2 SHADE TREE PLANTING DETAIL - PARKING LOT ISLAND
SCALE: NTS



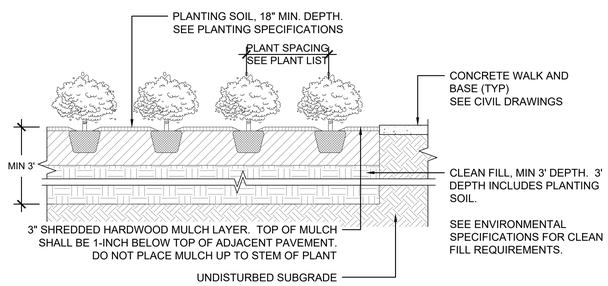
3 SHADE TREE PLANTING DETAIL
SCALE: NTS



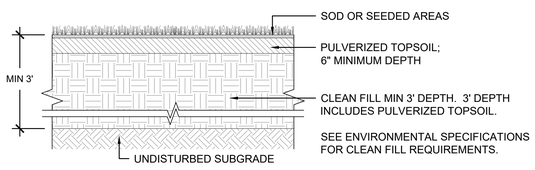
4 ORNAMENTAL TREE PLANTING DETAIL
SCALE: NTS



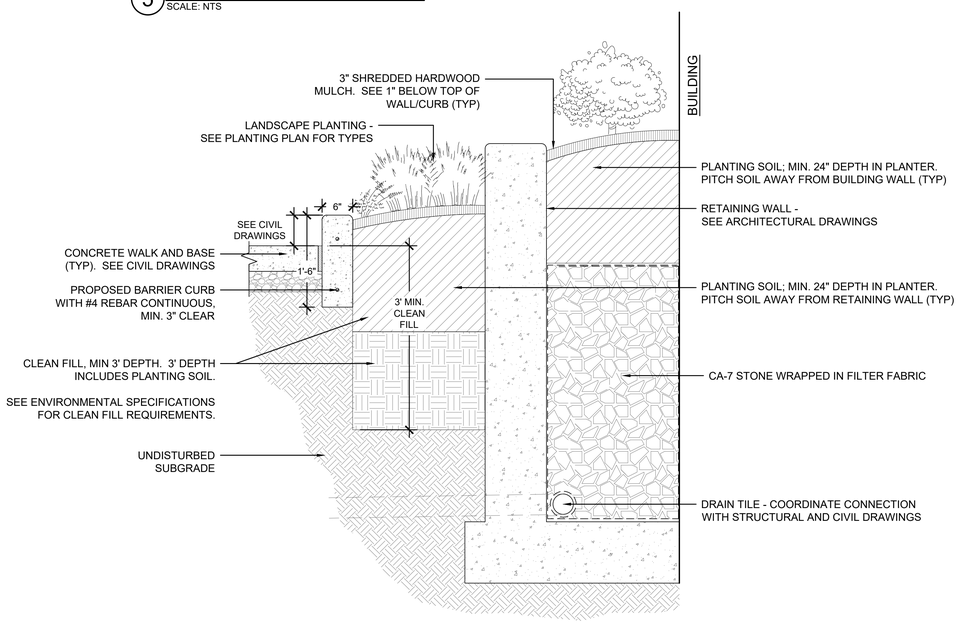
5 SHRUB PLANTING DETAIL
SCALE: NTS



6 PERENNIAL / GROUNDCOVER DETAIL
SCALE: NTS



7 SOD PLANTING DETAIL
SCALE: NTS



8 PLANTER CURB SECTION DETAIL
SCALE: NTS

2 08.22.2017 SJL

Plant Schedule
Zapata Elementary School

Qty.	Key	Botanical name	Common name	Size	Notes
		SHADE TREES			
2	CEO	Celtis occidentalis	Hackberry	2.5" cal	B&B
2	QUB	Quercus bicolor	Swamp White Oak	2.5" cal	B&B
7	TIA	Tilia americana 'Redmond'	Redmond American Linden	2.5" cal	B&B
2	UNH	Ulmus x 'New Horizon'	New Horizon Elm	2.5" cal	B&B
		ORNAMENTAL TREES			
3	MAR	Malus x 'Red Jewel'	Red Jewel Crabapple	6' Ht.	B&B
3	SYR	Syringa reticulata 'Ivory Silk'	Japanese Tree Lilac	2.5" cal	B&B
		DECIDUOUS SHRUBS			
46	ARM	Aronia melanocarpa	Black Chokeberry	36"	#5 Cont.
33	COH	Cotoneaster 'Hessei'	Hesse Cotoneaster	24"	#5 Cont.
37	ITV	Itea virginica 'Sprich'	Little Henry Sweetspire	24" Ht.	#3 Cont.
22	RKO	Rosa 'Radtko'	Double Knockout Rose	24" Ht.	#3 Cont.
13	SYP	Syringa patula 'Miss Kim'	Miss Kim Lilac	24"	#5 Cont.
		EVERGREEN SHRUBS			
16	BUC	Buxus 'Glenco'	Chicagoland Green Boxwood	24"	#5 Cont.
		PERENNIALS			
70	CAP	Carex pennsylvanica	Common Oak Sedge	#1 Cont.	12" o.c.
70	COV	Coreopsis verticillata 'Moonbeam'	Moonbeam Coreopsis	#1 Cont.	18" o.c.
35	ECM	Echinacea purpurea 'Magnus'	Magnus Purple Coneflower	#1 Cont.	18" o.c.
130	HAS	Hemerocallis 'Apricot Sparkles'	Peach Daylily	#1 Cont.	12" o.c.
130	HRS	Hemerocallis 'Stella de Oro'	Yellow Daylily	#1 Cont.	12" o.c.
		GROUNDCOVERS			
325	CAF	Carex facca	Blue Sedge	4" pots	12" o.c.
345	PAT	Pachysandra terminalis 'Green Carpet'	Japanese Spurge	4" pots	12" o.c.
		ORNAMENTAL GRASSES			
29	CAA	Calamagrostis acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	#1	18" o.c.
		SOD			
		Sod quantities by contractor			

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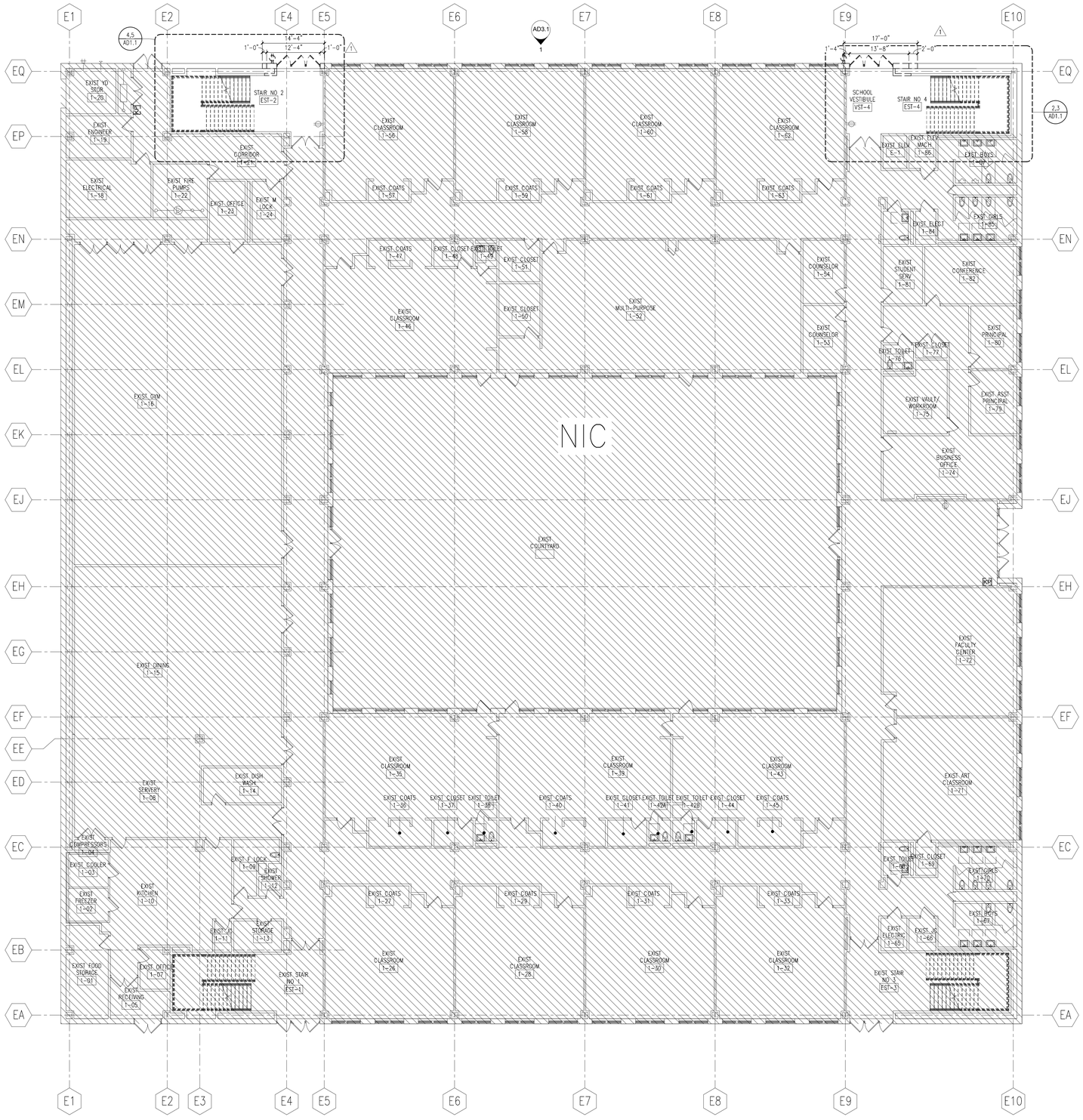
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FILE NAME:

NORTH
KEY PLAN

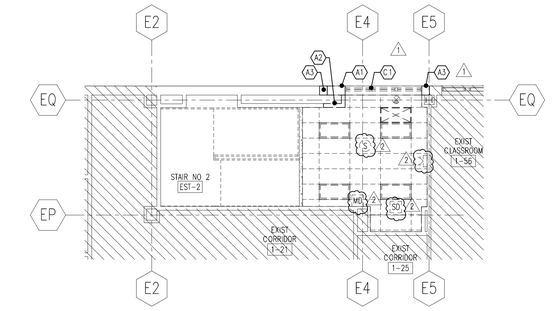
MAPPING, ASBESTOS-CONTAINING BUILDING MATERIALS ARE OF MAY BE PRESENT IN THE BUILDING. THE CONTRACTOR SHALL ENSURE THAT NO PERSON SHALL BE EMPLOYED FOR WORK UPON PROJECT FOR PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS

SHEET TITLE
LANDSCAPE DETAILS

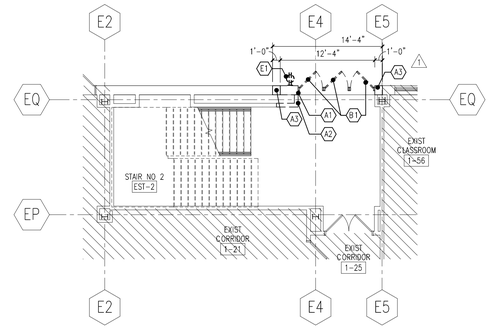
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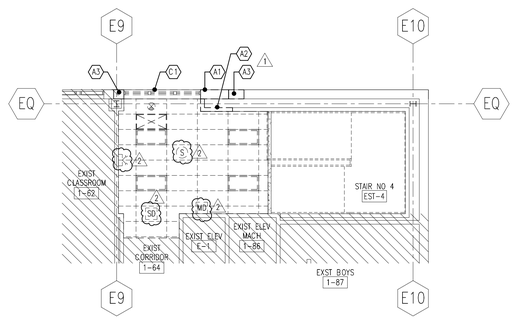
1 OVERALL LEVEL 01 ARCHITECTURAL DEMOLITION PLAN
3/32" = 1'-0"



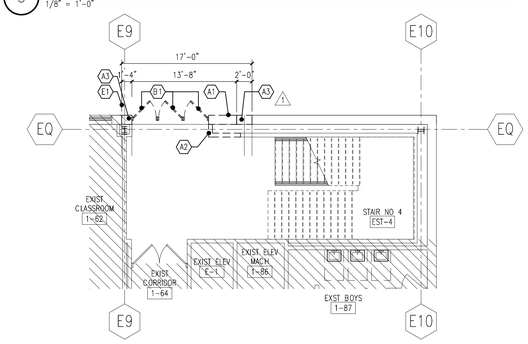
5 ENLARGED REFLECTED CEILING DEMOLITION PLAN – STAIR 2 @ LEVEL 01
1/8" = 1'-0"



4 ENLARGED DEMOLITION PLAN – EXIST STAIR 2 @ LEVEL 01
1/8" = 1'-0"



3 ENLARGED REFLECTED CEILING DEMOLITION PLAN – STAIR 4 @ LEVEL 01
1/8" = 1'-0"



2 ENLARGED DEMOLITION PLAN – EXIST STAIR 4 @ LEVEL 01
1/8" = 1'-0"

DEMOLITION NOTES

GENERAL DEMOLITION NOTES

1. THE DEMOLITION DRAWINGS PROVIDED ARE FOR GENERAL SCOPE ONLY. THEY ARE NOT INTENDED TO DETAIL EVERY ALTERATION, AND/OR REMOVAL REQUIRED FOR THE COMPLETION OF THE WORK.
2. DEMOLITION, ALTERATION AND REMOVAL FOR THE WORK INCLUDING BUT NOT LIMITED TO ALTERING, REMOVING, CUTTING, PATCHING, REPAINTING, RELOCATING, SALVAGING, DISPOSING OF AND SIMILAR ACTIVITIES AS NECESSARY TO FACILITATE CONSTRUCTION AND TO COMPLETE ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. PROVIDE AND MAINTAIN ALL MEASURES NECESSARY TO PROTECT AGAINST DAMAGING THE EXISTING CONSTRUCTION AND FACILITIES TO REMAIN OR TO BE SALVAGED. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGES, INCLUDING OWNER'S LOSS OF USE DUE TO INSUFFICIENT PROTECTION OF EXISTING CONSTRUCTION AND FACILITIES.
4. PROVIDE ADEQUATE FIRE PROTECTION IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS. DO NOT CLOSE OR OBSTRUCT WALKWAYS, PASSAGEWAYS OR STAIRWAYS. DO NOT STORE OR PLACE MATERIALS IN PASSAGEWAYS, STAIRS OR OTHER MEANS OF EGRESS. MAINTAIN CLEARANCE FOR ALL EXISTING MEANS OF EXITING.
5. DO NOT OVERLOAD THE EXISTING BUILDING STRUCTURE. MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING STRUCTURE AND PARTS THEREOF AT ALL TIMES.
6. LOCATE DUSTPROOF PROTECTION AS REQUIRED BY THE OWNER AND AS NECESSARY TO SEPARATE CONSTRUCTION AREAS FROM EXISTING OPERATIONAL AREAS AND FACILITIES. COORDINATE CONSTRUCTION SCHEDULE AND CONSTRICTION WORK WITH THE OWNER'S REPRESENTATIVE.
7. PROVIDE SUITABLE MEASURES NECESSARY TO PREVENT TRANSMISSION OF IMPACT NOISE OR VIBRATION INTO OCCUPIED AREAS OF OTHER EXISTING FACILITIES AND NEIGHBORING BUILDINGS.
8. MAKE SUCH PREPARATION AS NECESSARY TO ASCERTAIN ANY REQUIRED PROTECTIVE MEASURES ARE IN PLACE BEFORE PROCEEDING WITH DEMOLITION.
9. PROVIDE PATCHING, REPAINTING AND REFINISHING AS INDICATED OR AS NECESSARY DUE TO REMOVAL OR DAMAGED EXISTING CONSTRUCTION. MAINTAIN THE CONSTRUCTION INTEGRITY AND APPEARANCE TO MATCH ADJACENT CONSTRUCTION.
10. WHERE EXISTING SURFACES ARE TO BE REFINISHED OR ARE TO SERVE AS A SUBSTRATE FOR THE ATTACHMENT OF NEW MATERIALS OR CONSTRUCTION, PREPARE OR ALTER THE EXISTING SURFACES AS NECESSARY TO PROPERLY ACCOMMODATE THE NEW MATERIALS.
11. REINSTALL EXISTING MATERIAL OR EQUIPMENT INDICATED TO BE REMOVED AND REUSED OR TO BE TEMPORARILY REMOVED TO ACCOMMODATE NEW CONSTRUCTION. REINSTALL IN A MANNER AS TO MATCH THE EXISTING INSTALLATION UNLESS OTHERWISE INDICATED TO BE ALTERED, RESURFACED OR REFINISHED.
12. CAREFULLY REMOVE AND DISMANTLE MATERIALS TO BE SALVAGED. IF SALVAGED FOR OWNER'S FUTURE USE, CLEAN THE ITEM TO REMOVE DUST OR EXTRANEOUS MATTER AND DELIVER TO STORAGE SPACE AT EXISTING ADJACENT FACILITIES AS DESIGNATED BY THE OWNER. SALVAGE ALL EXISTING HARDWARE CORES.
13. EXISTING MATERIAL TO BE REMOVED AND NOT TO BE SALVAGED FOR REINSTALLATION OR FOR OWNER'S FUTURE USE SHALL BECOME PROPERTY OF THE CONTRACTOR. EXISTING MATERIAL, WHICH HAS BECOME THE CONTRACTORS PROPERTY SHALL NOT BE DISPLAYED NOR OFFERED FOR SALE ON THE OWNER'S PROPERTY.
14. DO NOT ALLOW REMOVED MATERIALS TO ACCUMULATE IN THE EXISTING BUILDING OR OWNER'S FACILITIES. HAUL REMOVED MATERIALS FROM THE SITE ON A DAILY BASIS.
15. CAREFULLY EXAMINE ALL ORIGINAL BUILDING DESIGN DRAWINGS AND OTHER DOCUMENTS AS PROVIDED BY THE OWNER TO BECOME FAMILIAR WITH THE EXISTING STRUCTURE AS ORIGINALLY DESIGNED. PERFORM FIELD INVESTIGATION AS NECESSARY TO CONFIRM EXISTING CONDITIONS.
16. EXERCISE CARE NOT TO DAMAGE ANY EXISTING CONSTRUCTION TO REMAIN. ALL WORK DAMAGED BY THE CONTRACTOR MUST BE RESTORED SO AS TO MATCH EXISTING ADJACENT SURFACES IN ALL RESPECTS AND AS ACCEPTABLE TO THE ARCHITECT. PERFORM ANY SUCH CORRECTIVE WORK AT NO ADDITIONAL COST TO THE OWNER.
17. MAINTAIN THE CONTINUITY OF ELECTRICAL CIRCUITS, EQUIPMENT, HVAC SYSTEMS, PLUMBING SYSTEMS AND DEVICES TO REMAIN. REFER TO EACH TRADES RESPECTIVE DRAWINGS. REPAIR ANY DAMAGE RESULTING FROM CUTTING INTO EXISTING WORK, AS DIRECTED BY THE ARCHITECT OR OWNER, AT NO ADDITIONAL COST TO THE OWNER.

DEMOLITION KEYNOTES

- A1 DEMO MASONRY EXTERIOR WALL
- A2 DEMO MASONRY INTERIOR WALL. PATCH ADJACENT FLOOR WHERE IMPACTED
- A3 DEMO FACE BRICK WYTHE AND STONE BASE. MASONRY BACKUP TO REMAIN. PROVIDE NEW MASONRY TIES AT NEW WORK WHERE REQUIRED.
- B1 DEMO DOOR & FRAME
- C1 DEMO EXTERIOR WINDOW, LIMESTONE SILL, AND MASONRY KNEEWALL
- D1 DEMO MASONRY EXTERIOR WALL IN ORDER TO REMOVE EXISTING HOT WATER HEATER. REFER TO SHEETS P1.1 & P1.2
- E1 DEMO ELEC OUTLET. REFER TO ELEC DWGS
- E2 DEMO ELEC DISTRIBUTION PANEL. REFER TO ELEC DWGS
- R6 REMOVE AND SALVAGE LIMESTONE COPING FOR REUSE. REFER TO SHEET AD1.3

DEMOLITION LEGEND

- DEMO KEYNOTE
- DOOR TO BE REMOVED
- WALL TO BE REMOVED
- EXISTING WALL TO REMAIN
- ACT CEILING TO BE REMOVED
- EXIT SIGN TO BE REMOVED
- LIGHT FIXTURE TO BE REMOVED
- MECH SUPPLY DIFFUSER TO BE REMOVED
- WALL OR FLOOR FINISH TO BE REMOVED
- S SPEAKER TO BE REMOVED REFER TO ELEC DWGS
- SD SMOKE DETECTOR TO BE REMOVED REFER TO ELEC DWGS
- MD MOTION DETECTOR TO BE REMOVED REFER TO ELEC DWGS
- EMERGENCY LIGHT TO BE REMOVED REFER TO ELEC DWGS

N

SCALE: 3/32" : 1'-0" (24' 16' 12' 8' 6' 4' 2' 0')

SCALE: 1/8" = 1'-0" (24' 16' 12' 8' 6' 4' 2' 0')

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8	1	08/15/2017	ADDENDUM 1
9	2	08/22/2017	ADDENDUM 2

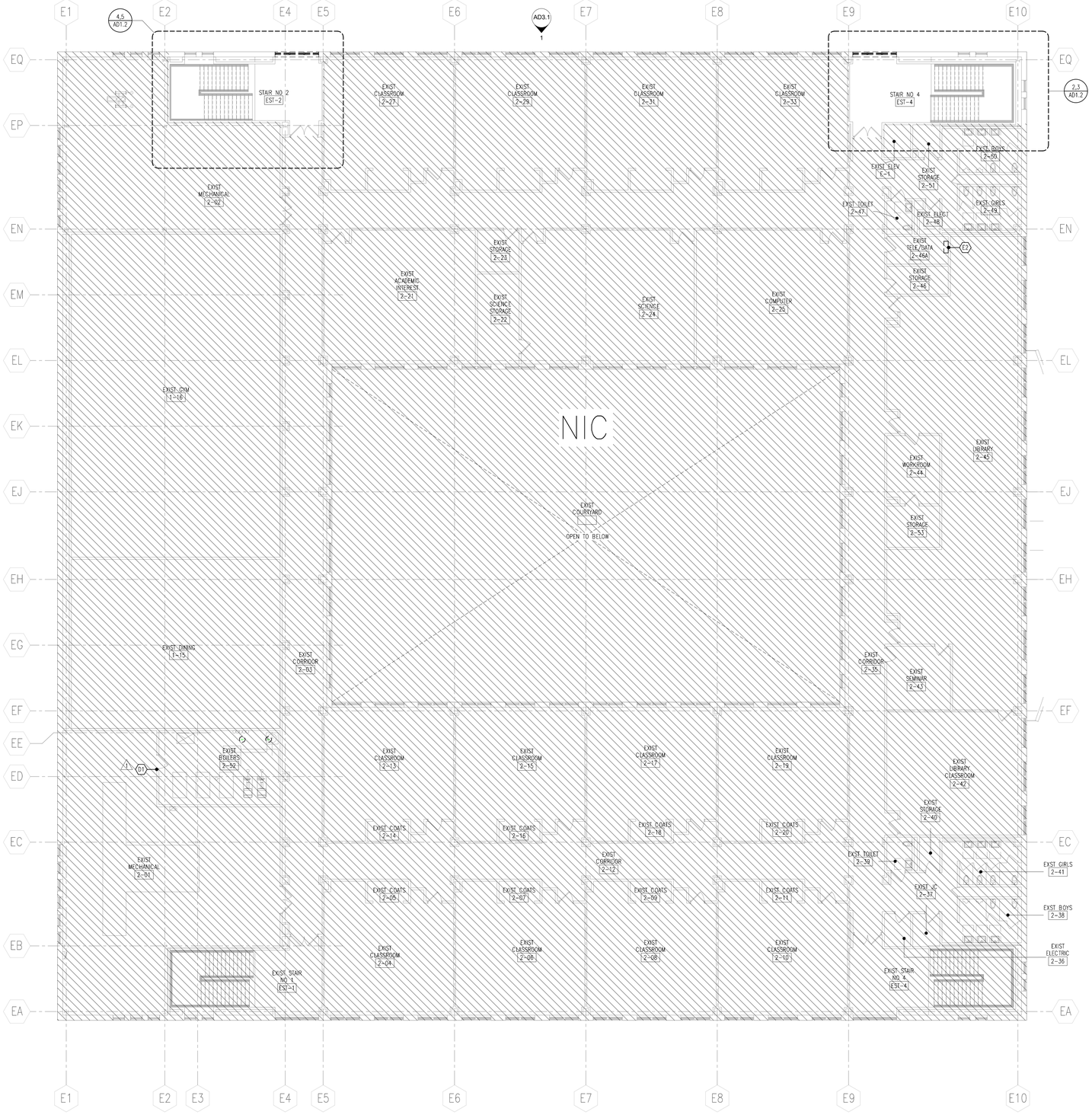
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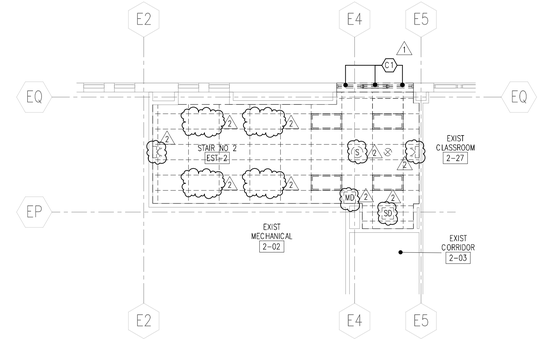
WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

SHEET TITLE
LEVEL 01 ARCHITECTURAL DEMOLITION PLAN

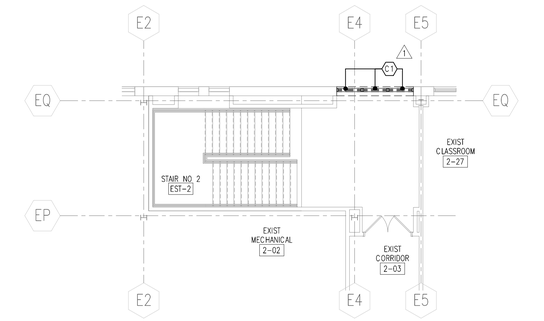
DRAWING NO.
AD1.1



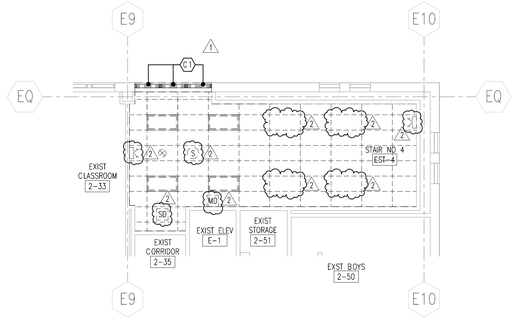
1 OVERALL LEVEL 02 ARCHITECTURAL DEMOLITION PLAN
3/32" = 1'-0"



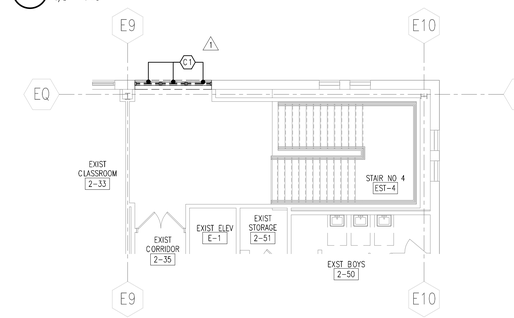
5 ENLARGED REFLECTED CEILING DEMOLITION PLAN – STAIR 2 @ LEVEL 02
1/8" = 1'-0"



4 ENLARGED DEMOLITION PLAN – EXIST STAIR 2 @ LEVEL 02
1/8" = 1'-0"



3 ENLARGED REFLECTED CEILING DEMOLITION PLAN – STAIR 4 @ LEVEL 02
1/8" = 1'-0"



2 ENLARGED DEMOLITION PLAN – EXIST STAIR 4 @ LEVEL 02
1/8" = 1'-0"

DEMOLITION NOTES

GENERAL DEMOLITION NOTES

1. THE DEMOLITION DRAWINGS PROVIDED ARE FOR GENERAL SCOPE ONLY. THEY ARE NOT INTENDED TO DETAIL EVERY ALTERATION, AND/OR REMOVAL REQUIRED FOR THE COMPLETION OF THE WORK.
2. DEMOLITION, ALTERATION AND REMOVAL FOR THE WORK INCLUDING BUT NOT LIMITED TO ALTERING, REMOVING, CUTTING, PATCHING, REPAINTING, RELOCATING, SALVAGING, DISPOSING OF AND SIMILAR ACTIVITIES AS NECESSARY TO FACILITATE CONSTRUCTION AND TO COMPLETE ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. PROVIDE AND MAINTAIN ALL MEASURES NECESSARY TO PROTECT AGAINST DAMAGING THE EXISTING CONSTRUCTION AND FACILITIES TO REMAIN OR TO BE SALVAGED. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGES, INCLUDING OWNER'S LOSS OF USE DUE TO INSUFFICIENT PROTECTION OF EXISTING CONSTRUCTION AND FACILITIES.
4. PROVIDE ADEQUATE FIRE PROTECTION IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS. DO NOT CLOSE OR OBSTRUCT WALKWAYS, PASSAGEWAYS OR STAIRWAYS. DO NOT STORE OR PLACE MATERIALS IN PASSAGEWAYS, STAIRS OR OTHER MEANS OF EGRESS. MAINTAIN CLEARANCE FOR ALL EXISTING MEANS OF EXITING.
5. DO NOT OVERLOAD THE EXISTING BUILDING STRUCTURE. MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING STRUCTURE AND PARTS THEREOF AT ALL TIMES.
6. LOCATE DUSTPROOF PROTECTION AS REQUIRED BY THE OWNER AND AS NECESSARY TO SEPARATE CONSTRUCTION AREAS FROM EXISTING OPERATIONAL AREAS AND FACILITIES. COORDINATE CONSTRUCTION SCHEDULE AND CONSTRICTION WORK WITH THE OWNER'S REPRESENTATIVE.
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- D1 DEMO MASONRY EXTERIOR WALL IN ORDER TO REMOVE EXISTING HOT WATER HEATER. REFER TO SHEETS P1.1 & P1.2
- 1 E1 DEMO ELEC OUTLET REFER TO ELEC DWGS
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- R8 REMOVE AND SALVAGE LIMESTONE COPING FOR REUSE REFER TO SHEET AD1.3

DEMOLITION LEGEND

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- EMERGENCY LIGHT TO BE REMOVED REFER TO ELEC DWGS

N

24' 16' 12' 8' 6' 4' 2' 0'
SCALE: 3/32" : 1'-0"

24' 16' 12' 8' 6' 4' 2' 0'
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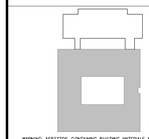
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REVISIONS

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8	1	08/15/2017	ADDENDUM 1
9	2	08/22/2017	ADDENDUM 2

DRAWN BY: JW
CHECKED BY: TS
SCALE: VARIES
FILE NAME: DW_AL_TS_AD12_LEVEL 02 ARCH DEMO PLAN_20170822



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SHEET TITLE
LEVEL 02 ARCHITECTURAL DEMOLITION PLAN

DRAWING NO.
AD1.2

GENERAL NOTES

1. REFERENCE REFLECTED CEILING PLAN SYMBOLS ON SHEET G1.3 ABBREVIATIONS AND SYMBOLS.

2. CENTER ITEMS IN CEILING PANELS UNLESS NOTED OTHERWISE.

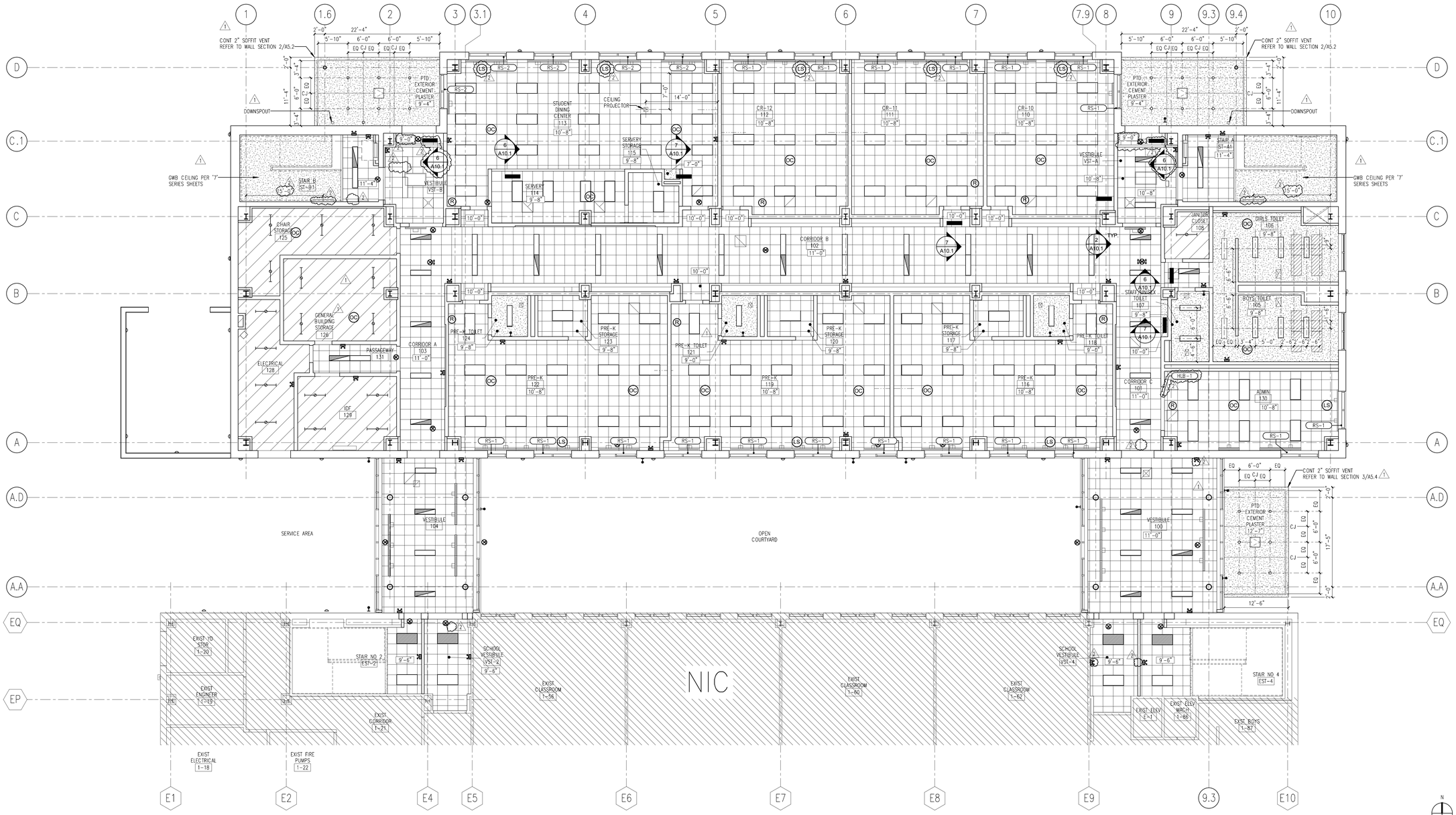
3. ENCLOSE ALL EXPOSED DUCTS, PIPES, CONDUITS, IN FINISHED SPACES, WITH CONSTRUCTION AND FINISH TO MATCH ADJACENT CONSTRUCTION UNLESS OTHERWISE NOTED.

4. PROVIDE ACCESS PANELS OF APPROPRIATE SIZE, TYPE AND FIRE RATING FOR ALL CONCEALED ITEMS THAT REQUIRE ADJUSTMENT, MAINTENANCE, MONITORING, ETC. COORDINATE LOCATION WITH ARCHITECT.

5. IN ALL ROOMS BELOW AREAS WHICH RECEIVE UNDER FLOOR SERVICES, REMOVE A PORTION OF EXISTING CEILING AS REQUIRED. PATCH FINISHES TO MATCH EXISTING OR AS INDICATED ON ROOM FINISH SCHEDULE.

6. REFER TO ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS FOR EXISTING AND NEW FIXTURES AND SERVICES TO BE REMOVED AND/OR INSTALLED. EXISTING FINISHES DISTURBED BY THIS WORK SHALL BE PATCHED TO MATCH ADJACENT UNDISTURBED FINISHES.

7. PENETRATIONS OR CORINGS INTO EXISTING CONCRETE SLAB AND JOIST SYSTEM FOR PLUMBING, ELECTRICAL OR DATA OUTLET, ETC, SHALL BE FIREPROTECTED TO MATCH EXISTING SLAB FIRE RATING. BOTTOM SIDE OF FLOOR BOXES PENETRATING SLAB SHALL BE FIREPROTECTED TO MATCH EXISTING RATING.



1 LEVEL 01 REFLECTED CEILING PLAN
1/8" = 1'-0"

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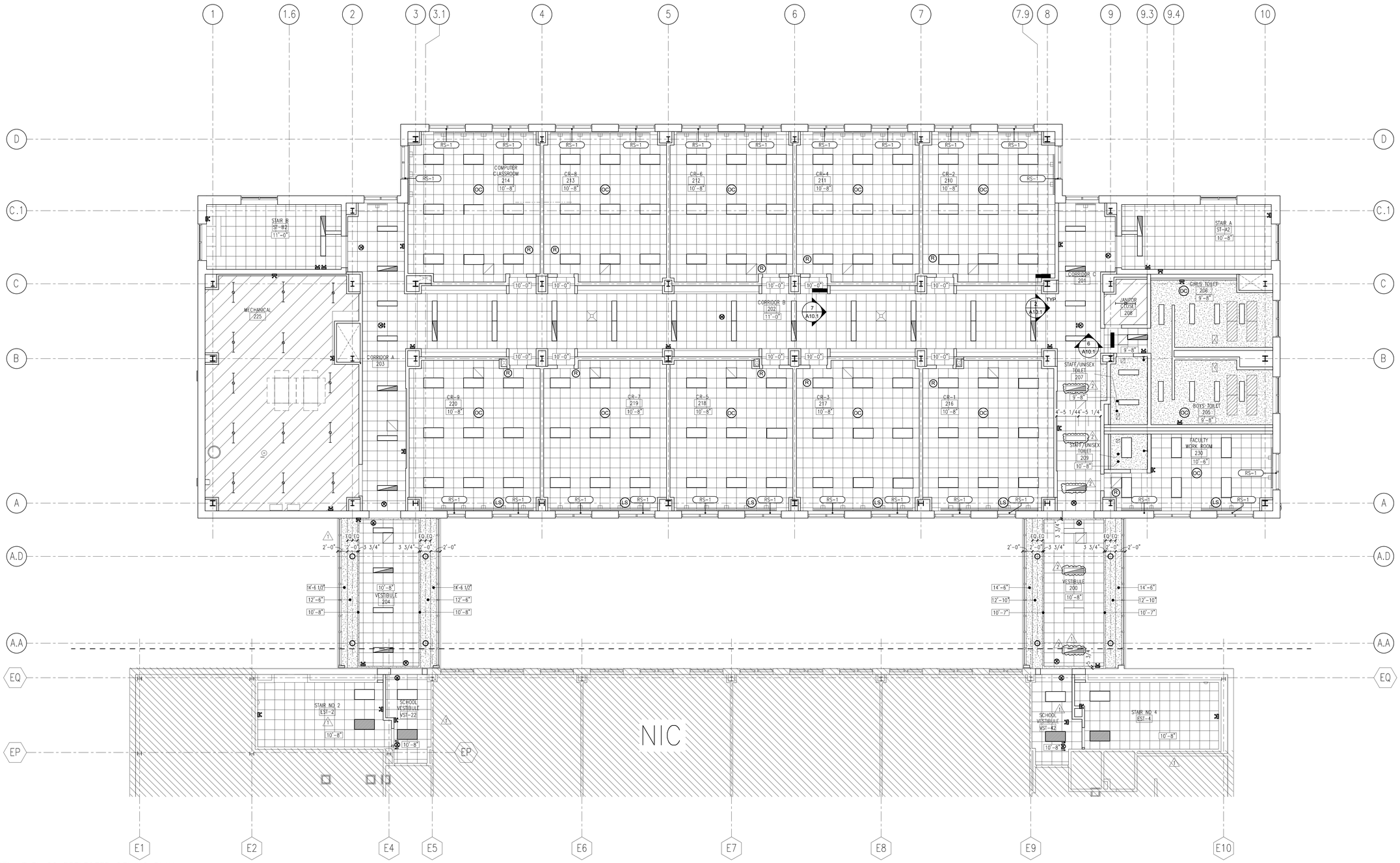
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CHECKED BY: TS
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FILE NAME: DW_AL_TS_A21_LEVEL 01 REFLECTED CEILING PLAN_20170815

NORTH
KEY PLAN

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SHEET TITLE
LEVEL 01 REFLECTED CEILING PLAN

DRAWING NO.
A2.1



1 LEVEL 02 REFLECTED CEILING PLAN
1/8" = 1'-0"

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

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EMILIANO ZAPATA
ACADEMY ANNEX
2728 S KOSTNER AVE
CHICAGO, IL 60623

PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
2		12/12/2016	DESIGN DEVELOPMENT
3		02/07/2017	60% CONSTRUCTION DOCUMENTS
4		03/14/2017	90% CONSTRUCTION DOCUMENTS
5		03/31/2017	ISSUE FOR PERMIT
6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
8	1	08/15/2017	ADDENDUM 1
9	2	08/22/2017	ADDENDUM 2

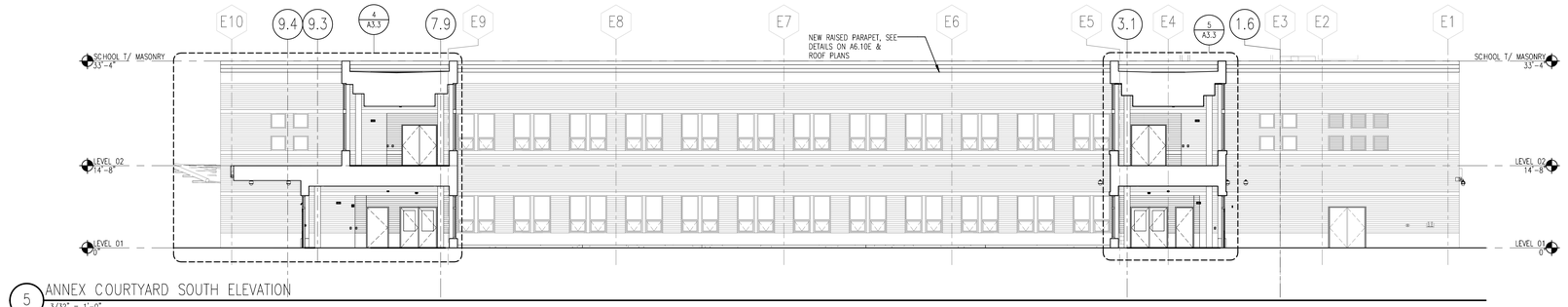
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KEY PLAN

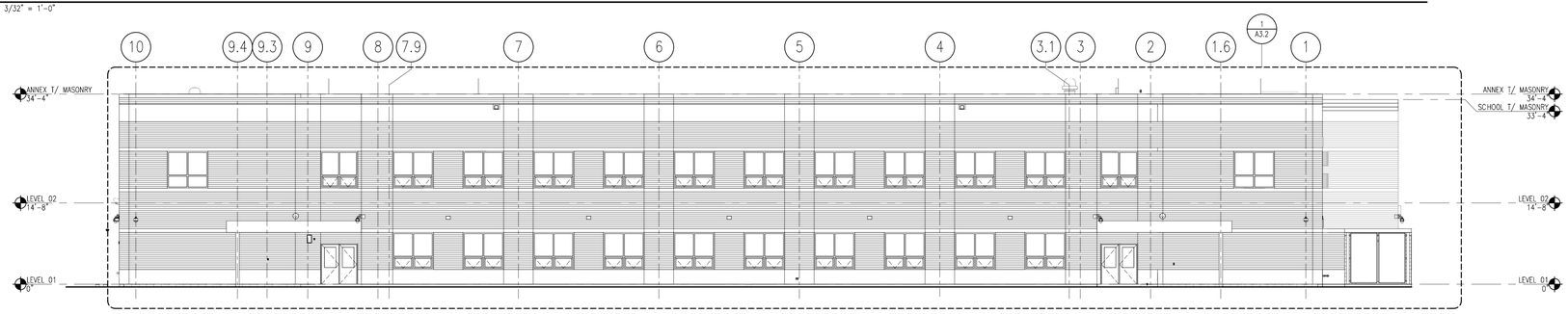
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SHEET TITLE
LEVEL 02 REFLECTED CEILING PLAN

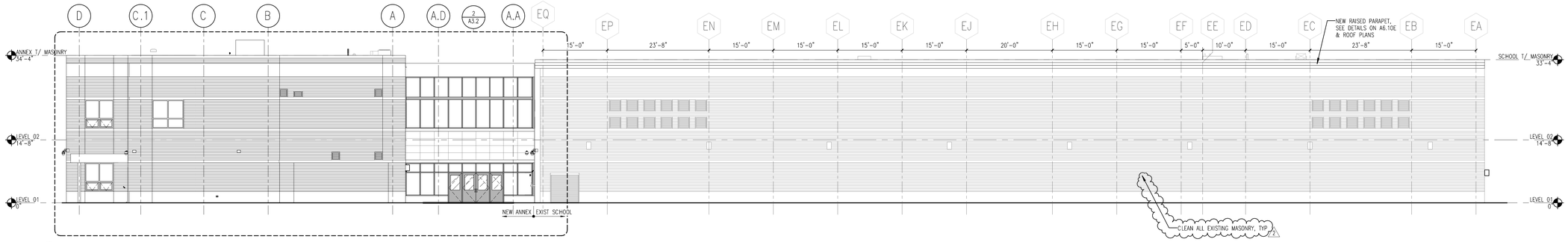
DRAWING NO.
A2.2



5 ANNEX COURTYARD SOUTH ELEVATION
3/32" = 1'-0"



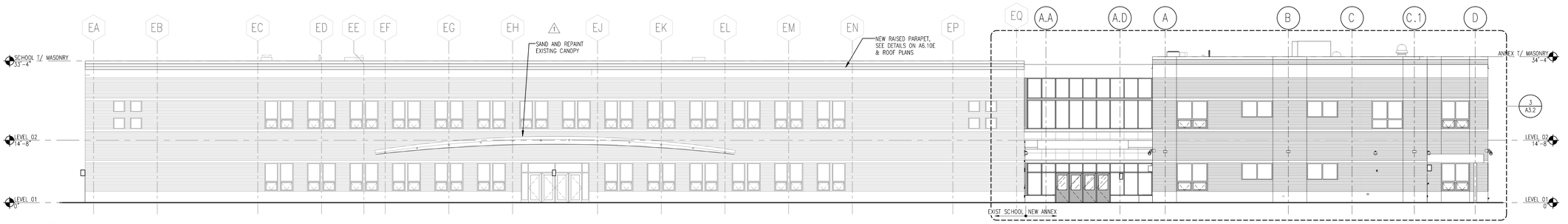
4 OVERALL NORTH ELEVATION
3/32" = 1'-0"



3 OVERALL WEST ELEVATION
3/32" = 1'-0"



2 OVERALL SOUTH ELEVATION (EXISTING BUILDING)
3/32" = 1'-0"



1 OVERALL EAST ELEVATION
3/32" = 1'-0"

24' 16' 12' 8' 6' 4' 2' 0"
SCALE: 3/32" : 1'-0"

DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

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1128 WEST CHICAGO AVE.
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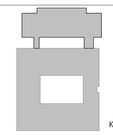
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PBC CONTRACT NO. C1580
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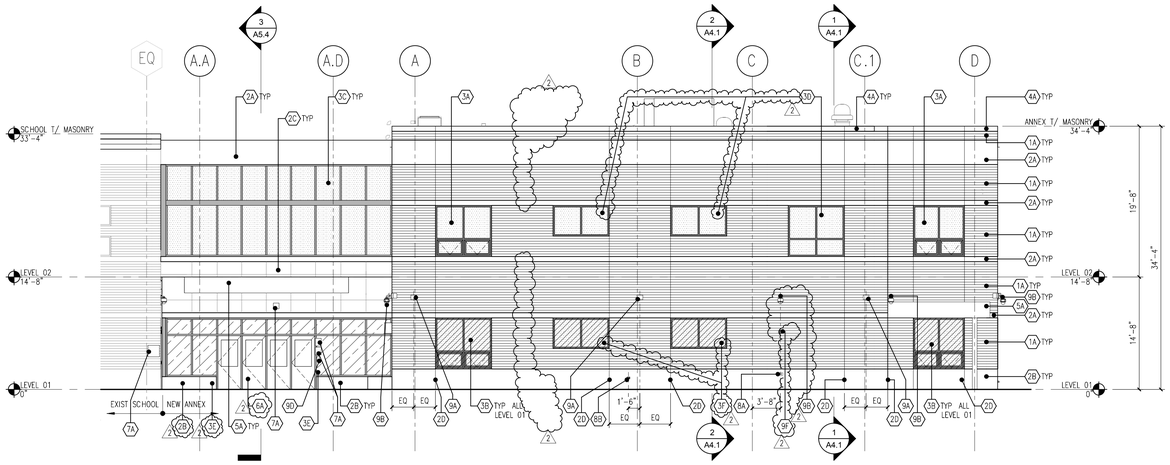
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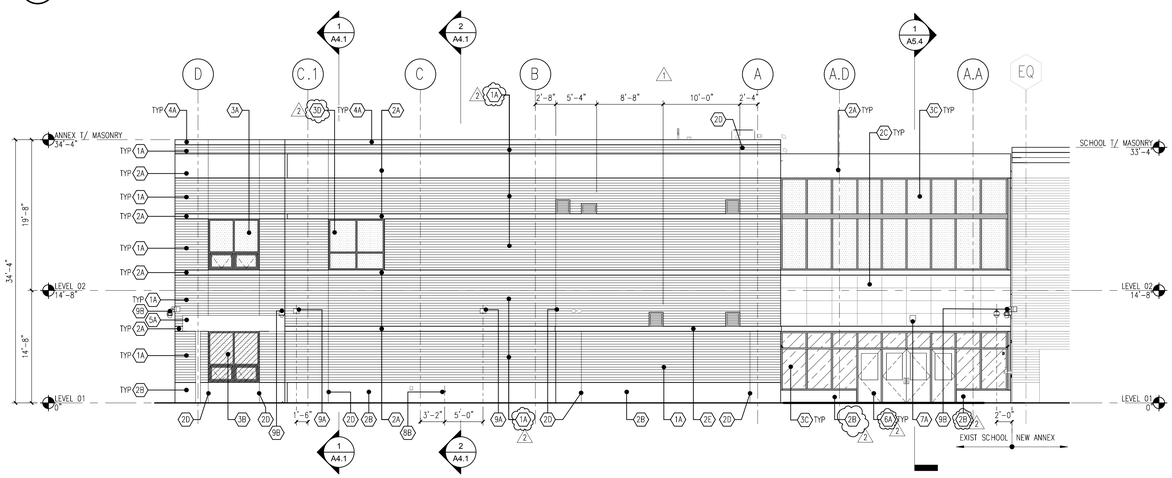
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SHEET TITLE
EXTERIOR BUILDING ELEVATIONS

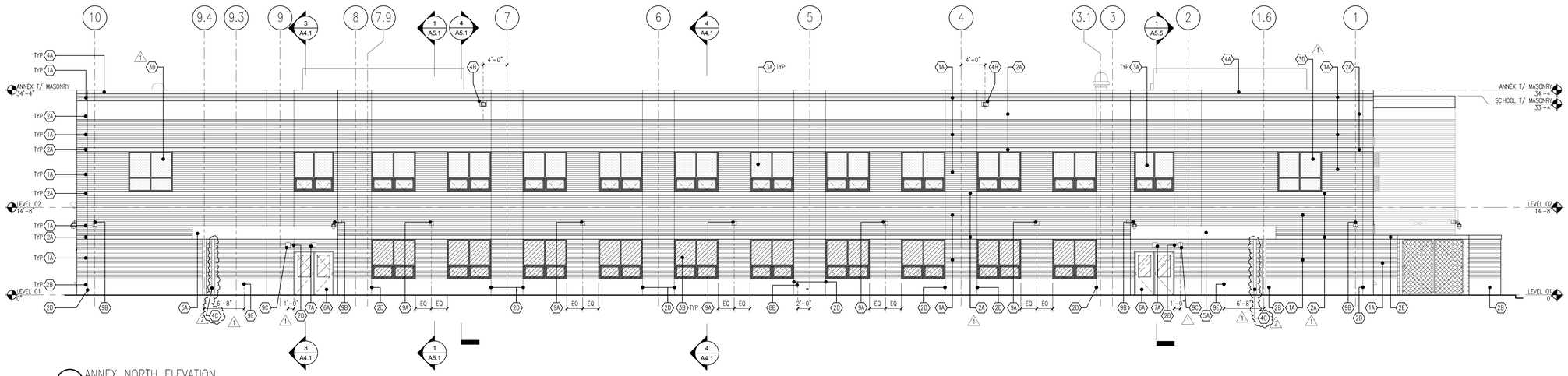
DRAWING NO.
A3.1



3 EAST ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION
1/8" = 1'-0"



1 ANNEX NORTH ELEVATION
1/8" = 1'-0"

ELEVATION GRAPHIC LEGEND

1. REFER TO SHEET A12.1 FOR GLAZING TYPES

UTILITY FACEBRICK (SEE SCHEDULE FOR COLOR)

INSULATED GLAZING TYPE G5

LAMINATED INSULATED GLAZING TYPE G5-L (REFER TO GLAZING SCHEDULE ON A12.1)

ELEVATION KEYNOTE LEGEND

- 1A FACE BRICK 'FB-1' UTILITY: NOM 4"X4"X12" – 1/3 RUNNING BOND
- 1B FACE BRICK 'FB-1' UTILITY: NOM 4"X4"X12" – SEE DETAIL 6/A3.2 FOR COURSING
- 1C FACE BRICK 'FB-2' UTILITY: NOM 4"X4"X12" – SEE DETAIL 6/A3.2 FOR COURSING
- 1 1D FACE BRICK 'FB-3' UTILITY: NOM 4"X4"X12" – MATCH EXISTING COURSING
- 2A CONT STONE ACCENT BAND WITH STONE SILL AT OPENINGS, SLOPED TO DRAIN, WITH CONT DRIP EDGE. COLOR TO MATCH BUILDING BASE
- 2B CONT STONE BUILDING BASE WITH STONE CAP, SLOPED TO DRAIN, WITH CONT DRIP EDGE. COLOR BY AOR
- 2C WALL MTD STONE VENEER PANELS. COLOR AND FINISH BY AOR
- 2D 1/2" MASONRY EXPANSION JOINT; SEALANT SHALL BE A CUSTOM COLOR APPROVED BY ARCHITECT TO MATCH ADJACENT MASONRY COLOR. PROVIDE COLOR BREAKS AT MASONRY STRIPES, TYP
- 1 2E CONT STONE COPING. REFER TO AS2.1
- 3A ALUM WINDOW WITH INSULATING GLAZING
- 3B ALUM WINDOW WITH INSULATING GLAZING AND SECURITY SCREEN
- 3C ALUM FRAME STOREFRONT SYSTEM WITH INSULATING GLAZING, TYP
- 3D 1 ALUM FRAME STOREFRONT WINDOWS W/ INSUL GLAZING
- 3E ALUM PANEL TO MATCH ALUM FRAME 1
- 2 3F ALUM FRAME STOREFRONT WINDOWS W/ INSUL GLAZING AND SECURITY SCREEN
- 4A CONT PREFIN MTL COPING 1
- 4B ROOF SCUPPER. REFER TO DETAIL 12/A6.3.
- 2 4C DOWNSPOUT
- 5A CANOPY ROOF
- 6A FRP DOORS IN HOLLOW ALUM FRAMES
- 6B CLEAR ANOD ALUM ENTRY DOORS WITH INSULATING GLAZING AND THERMALLY BROKEN PROFILES BY STOREFRONT SYSTEM MFR
- 7A SIGNAGE. REF. SHEET G1.4 FOR MOUNTING HEIGHT. SEE A14.0 & A14.3 FOR SIGN TYPE AND LOCATION
- 8A FIRE DEPT CONNECTION AT 2'-0" ABOVE GRADE REFER TO PLUMBING DWGS
- 8B RECESSED, NON-FREEZE, BOX WALL HYDRANT (HOSE BIBB) AT 2'-0" ABOVE GRADE REFER TO PLUMBING DWGS
- 9A WALL MTD EXT LIGHT FIXTURE AT 12'-0" ABOVE GRADE REFER TO ELEC DWGS
- 9B WALL MTD CCTV CAMERA AT 12'-0" ABOVE GRADE WITH WATERPROOF OUTLET REFER TO ELEC DWGS
- 9C WALL MTD WEATHERPROOF SPEAKER @ 12'-0" ABOVE GRADE REFER TO ELEC DWGS
- 9D AIPHONE. REF G1.6 FOR MOUNTING HEIGHT AND ELEC DWGS
- 1 9E ELEC OUTLET AT 1'-8" ABOVE GRADE REFER TO ELEC DWGS
- 2 9F ELECTRIC BELL AT 7'-6" ABOVE GRADE REFER TO ELEC DWGS

N

24' 16' 12' 8' 6' 4' 2' 0'
SCALE: 1/8" = 1'-0"

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REVISIONS

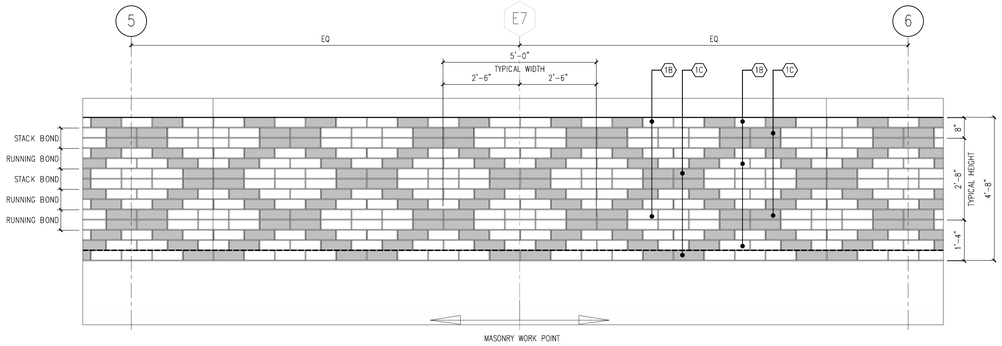
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DRAWN BY: JW
CHECKED BY: TS
SCALE: 1/8" = 1'-0"
FILE NAME: DW_AL_TS_A32_EXTERIOR BUILDING ELEVATIONS_20170822

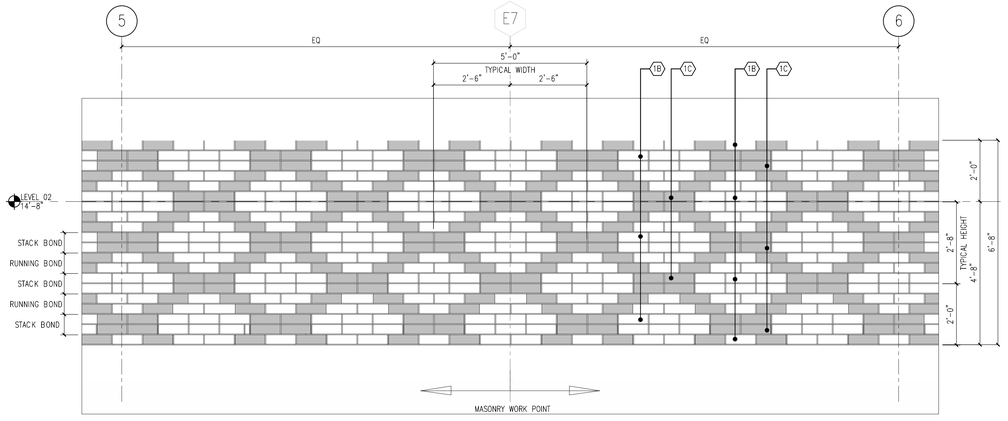
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SHEET TITLE
PARTIAL BUILDING ELEVATIONS

DRAWING NO.
A3.2



7 EXTERIOR WALL BRICK PATTERN
1/2" = 1'-0"



6 EXTERIOR WALL BRICK PATTERN
1/2" = 1'-0"

ELEVATION GRAPHIC LEGEND

1. REFER TO SHEET A12.1 FOR GLAZING TYPES

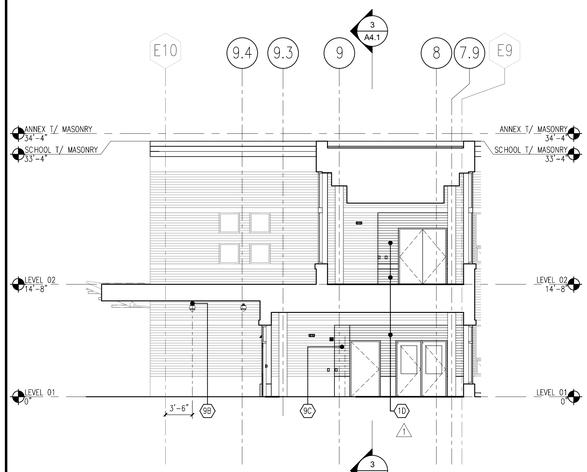
UTILITY FACEBRICK (SEE SCHEDULE FOR COLOR)

INSULATED GLAZING TYPE G5

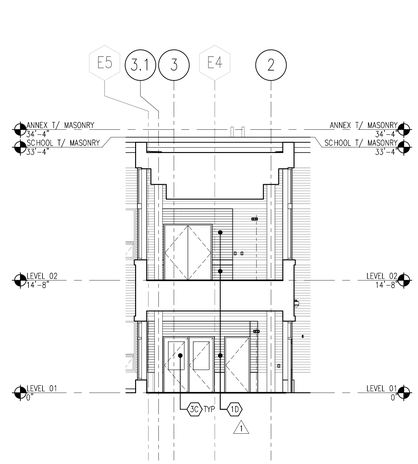
LAMINATED INSULATED GLAZING TYPE G5-L (REFER TO GLAZING SCHEDULE ON A12.1)

ELEVATION KEYNOTE LEGEND

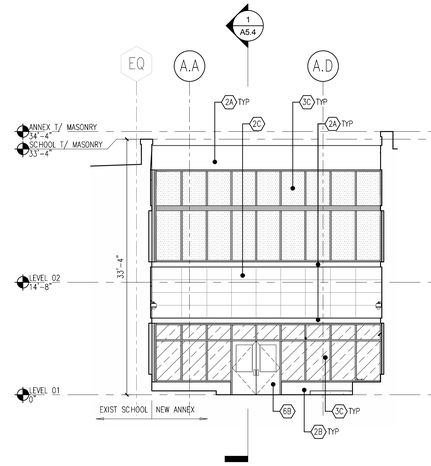
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- 1C FACE BRICK 'FB-2' UTILITY: NOM 4"X4"X12" – SEE DETAIL 6/A3.2 FOR COURSING
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- 4A CONT PREFIN MTL COPING 1/1
- 4B ROOF SCUPPER. REFER TO DETAIL 12/A6.3.
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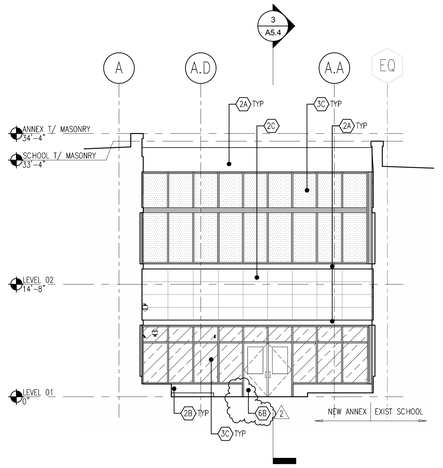
4 SOUTH VESTIBULE ELEVATION
1/8" = 1'-0"



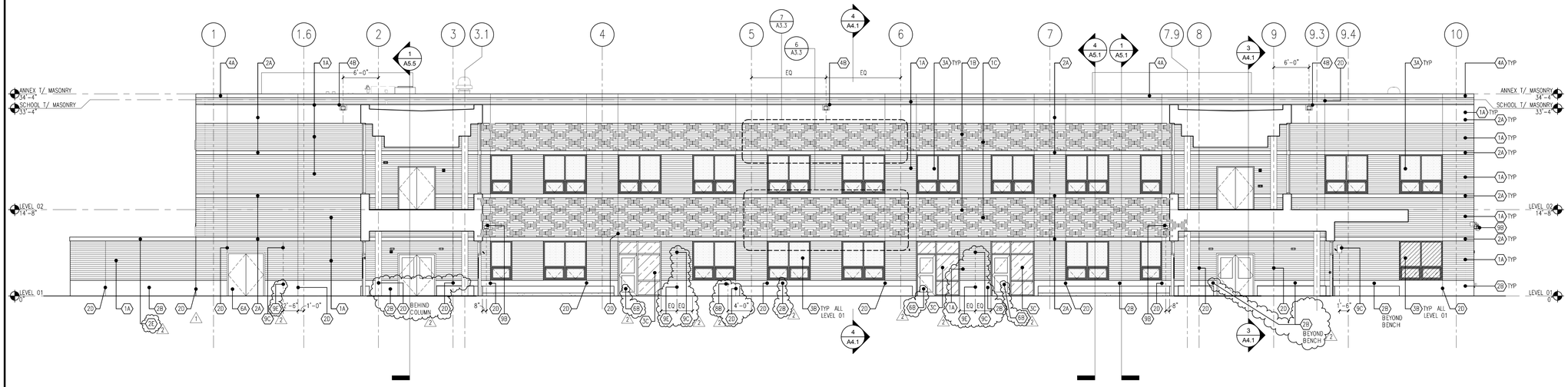
5 SOUTH VESTIBULE ELEVATION
1/8" = 1'-0"



2 WEST ANNEX COURTYARD ELEVATION
1/8" = 1'-0"



3 EAST ANNEX COURTYARD ELEVATION
1/8" = 1'-0"



1 NORTH ANNEX COURTYARD ELEVATION
1/8" = 1'-0"

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

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

CHICAGO PUBLIC SCHOOLS
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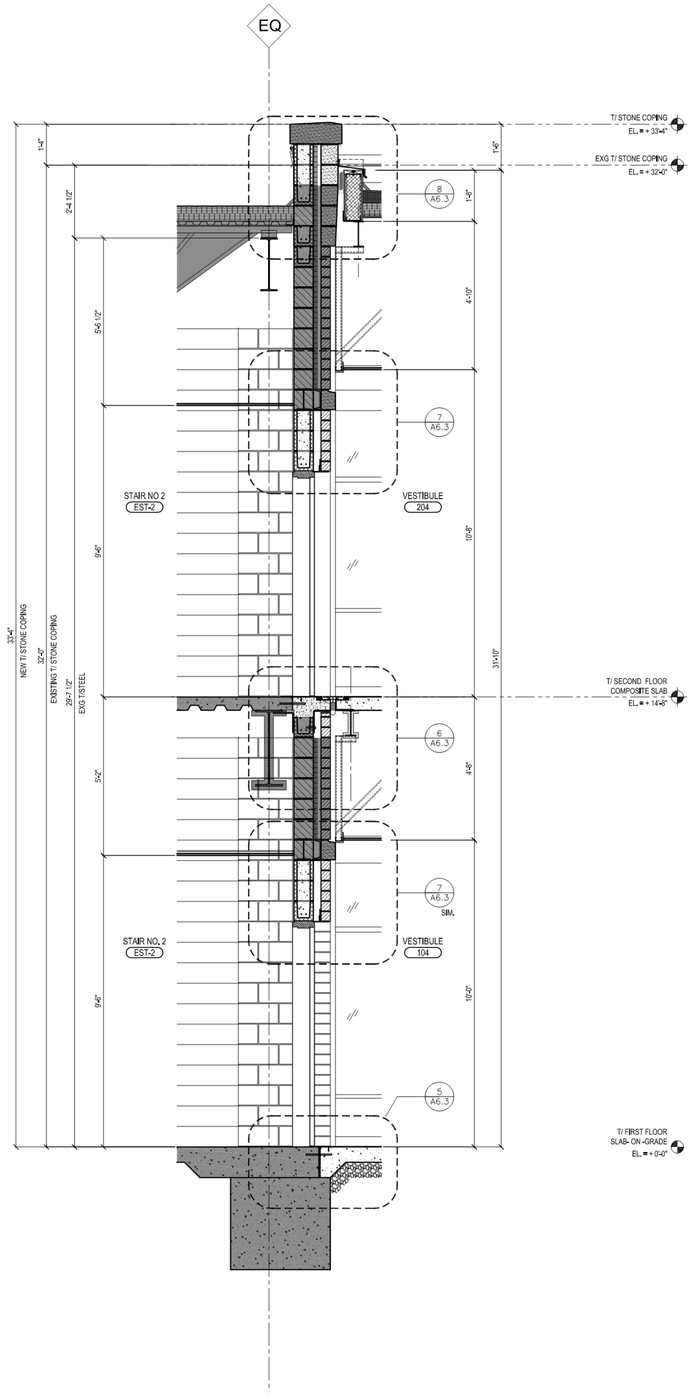
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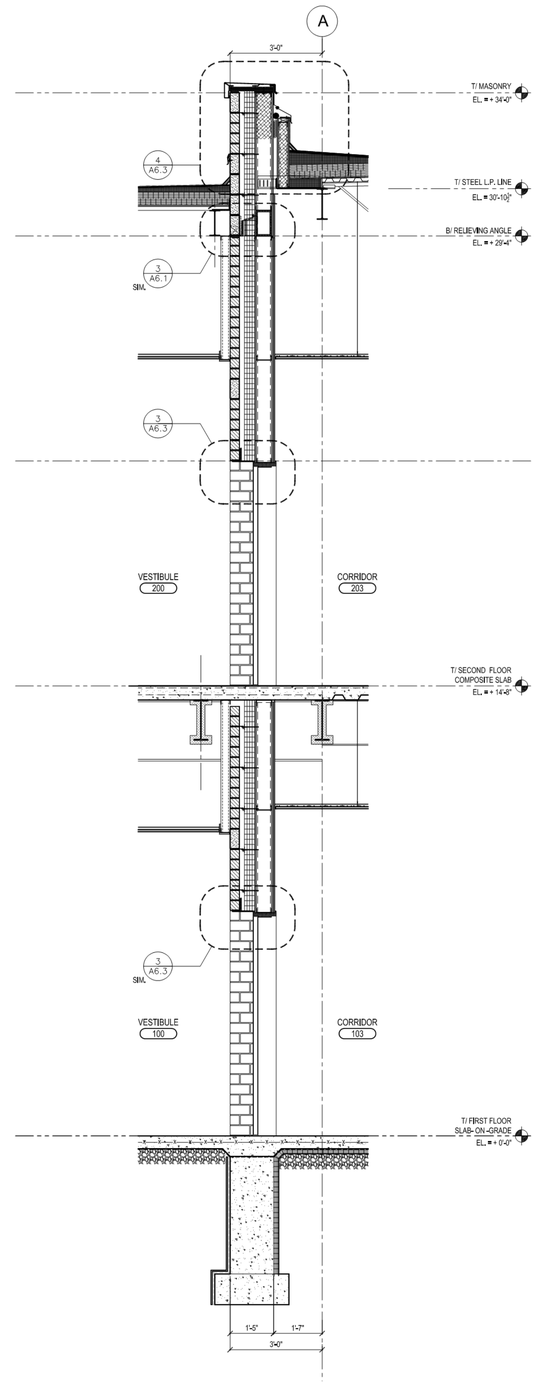
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SHEET TITLE
PARTIAL BUILDING ELEVATIONS

DRAWING NO.
A3.3



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



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

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

CHICAGO Public Schools
PUBLIC BUILDING COMMISSION

DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
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CHICAGO, IL 60604
T 312-294-0501

TERRA ENGINEERING, LTD.
225 W OHIO ST, 4TH FL
CHICAGO, IL 60654
T 312-467-0123

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T 773-975-6467

SHEN MILSOM & WILKE LLC
2 N RIVERSIDE PLAZA #1460
CHICAGO, IL 60606
T 312-559-4585

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EMILIANO ZAPATA
ACADEMY ANNEX
2728 S KOSTNER AVE
CHICAGO, IL 60623

PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
5		03/31/2017	ISSUE FOR PERMIT
6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
9	2	08/22/2017	ADDENDUM 2

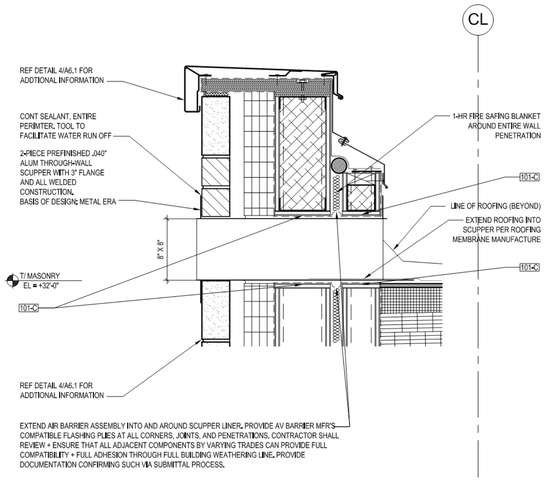
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FILE NAME:

NORTH
KEY PLAN

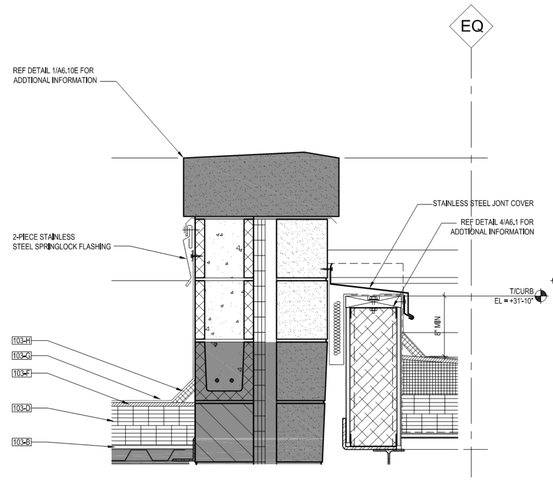
WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

SHEET TITLE
WALL SECTIONS

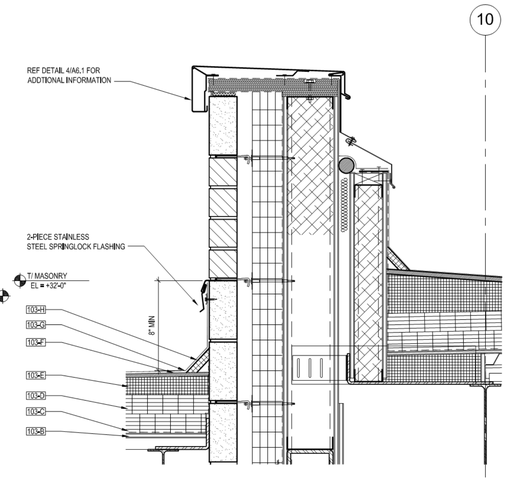
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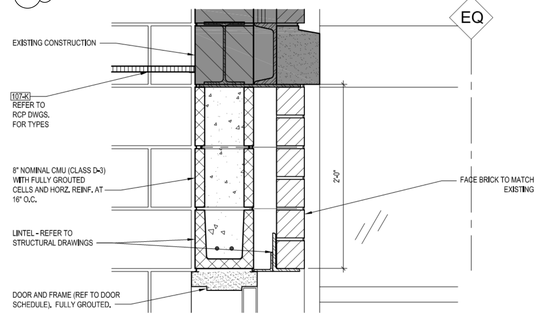
12 ENLARGED SECTION
1 1/2" = 1'-0"



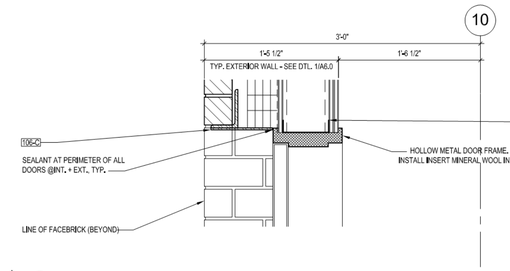
2 8 ENLARGED SECTION
1 1/2" = 1'-0"



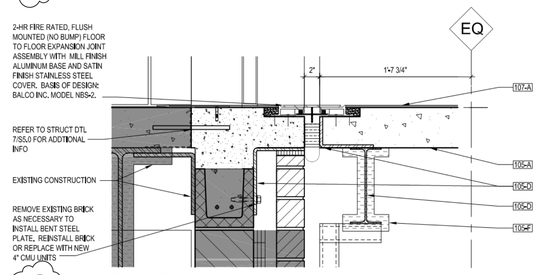
2 4 ENLARGED SECTION
1 1/2" = 1'-0"



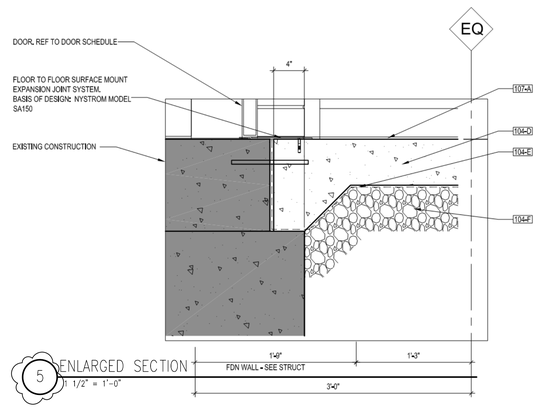
2 7 ENLARGED SECTION
1 1/2" = 1'-0"



2 3 ENLARGED SECTION
1 1/2" = 1'-0"



2 6 ENLARGED SECTION
1/2" = 1'-0"



2 5 ENLARGED SECTION
1 1/2" = 1'-0"

3" 2" 1' 9" 6" 3" 0"
SCALE: 1-1/2" : 1'-0"

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REVISIONS

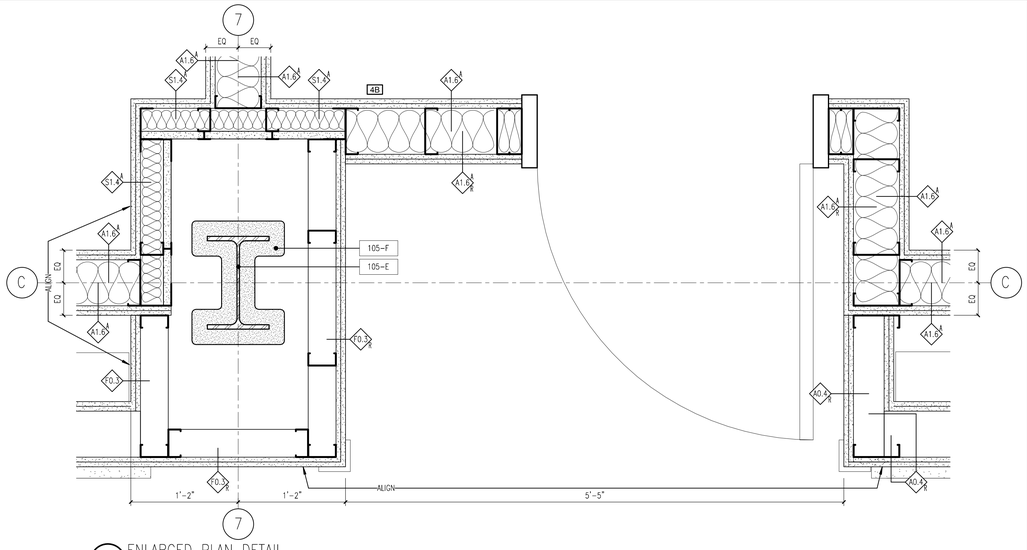
NO.	Δ	DATE	DESCRIPTION
6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
9	2	08/22/2017	ADDENDUM 2

DRAWN BY: Author
CHECKED BY: Checker
SCALE: VARIES
FILE NAME:

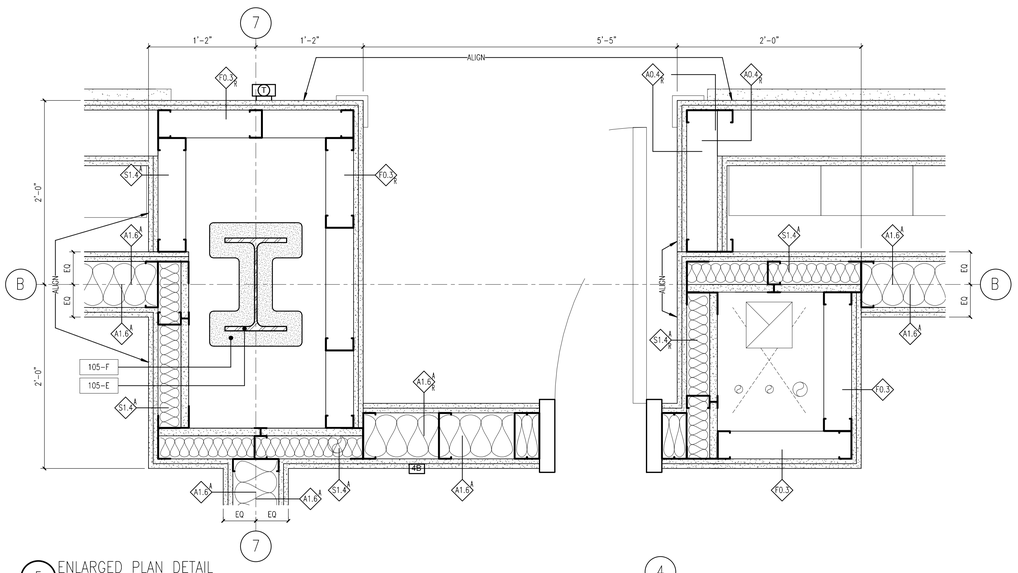
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SHEET TITLE
SECTION DETAILS

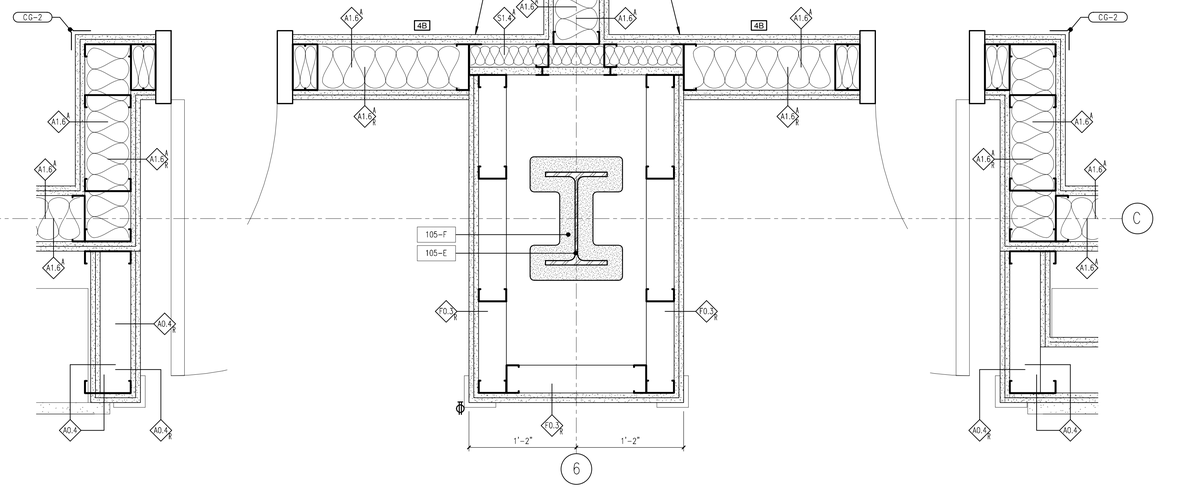
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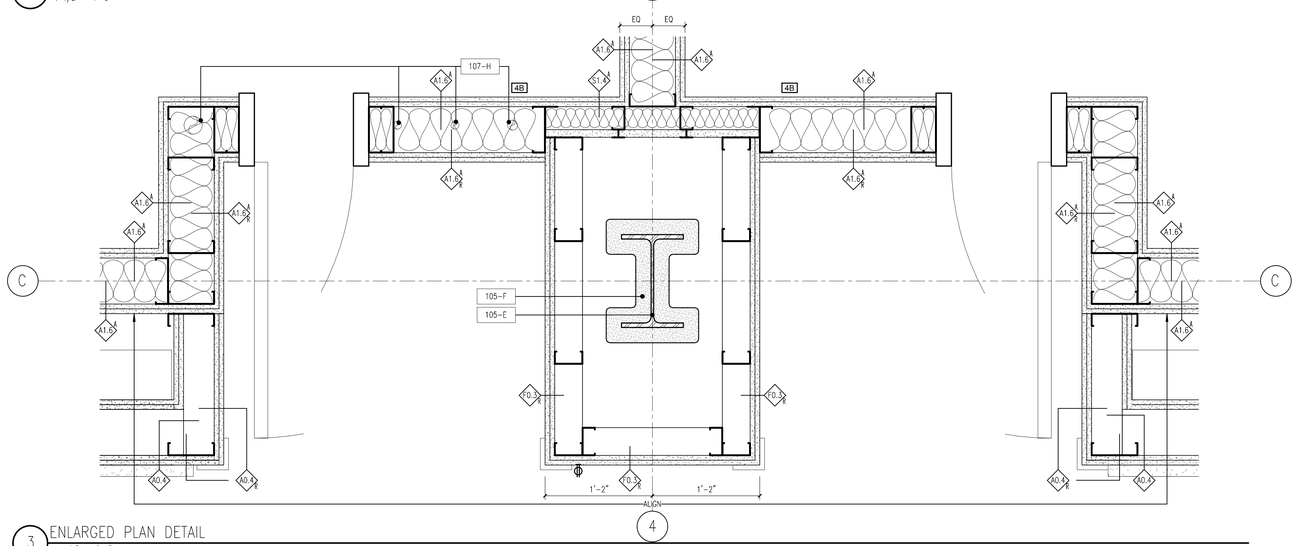
6 ENLARGED PLAN DETAIL
1 1/2" = 1'-0"



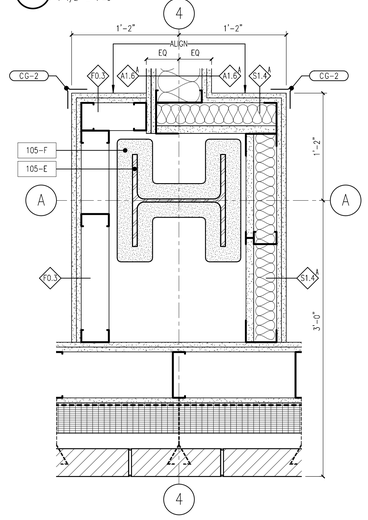
5 ENLARGED PLAN DETAIL
1 1/2" = 1'-0"



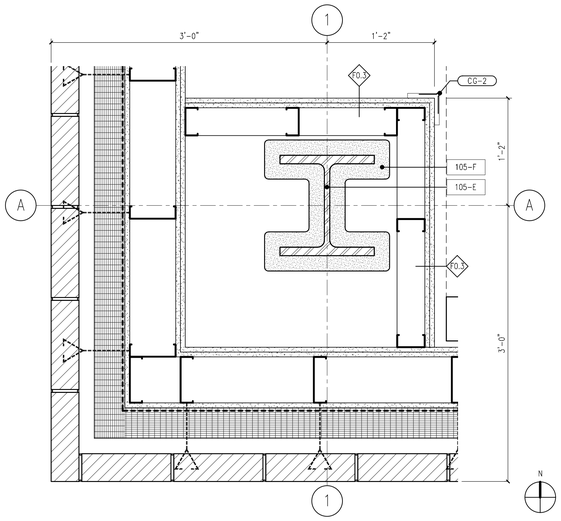
4 ENLARGED PLAN DETAIL
1 1/2" = 1'-0"



3 ENLARGED PLAN DETAIL
1 1/2" = 1'-0"



2 ENLARGED PLAN DETAIL
1 1/2" = 1'-0"



1 ENLARGED PLAN DETAIL
1 1/2" = 1'-0"

24' 16' 12' 8' 6' 4' 2' 0'
SCALE: 1/8" = 1'-0"

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REVISIONS

NO.	Δ	DATE	DESCRIPTION
9	2	08/22/2017	ADDENDUM 2

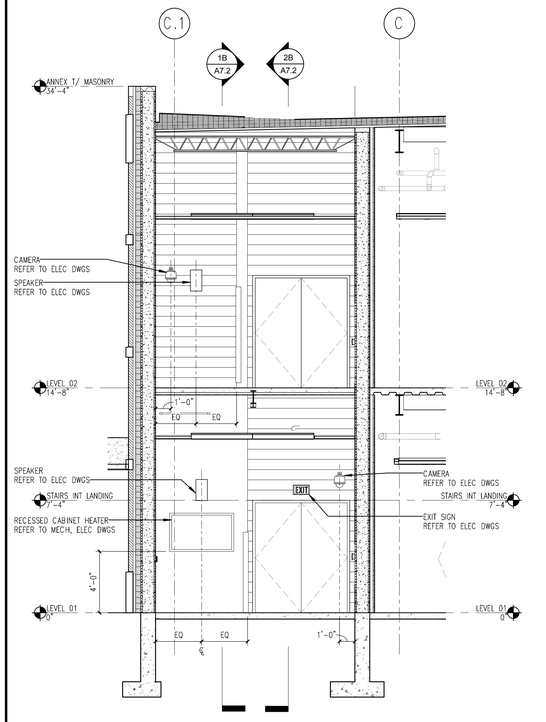
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CHECKED BY: Checker
SCALE: VARIES
FILE NAME:

NORTH
KEY PLAN

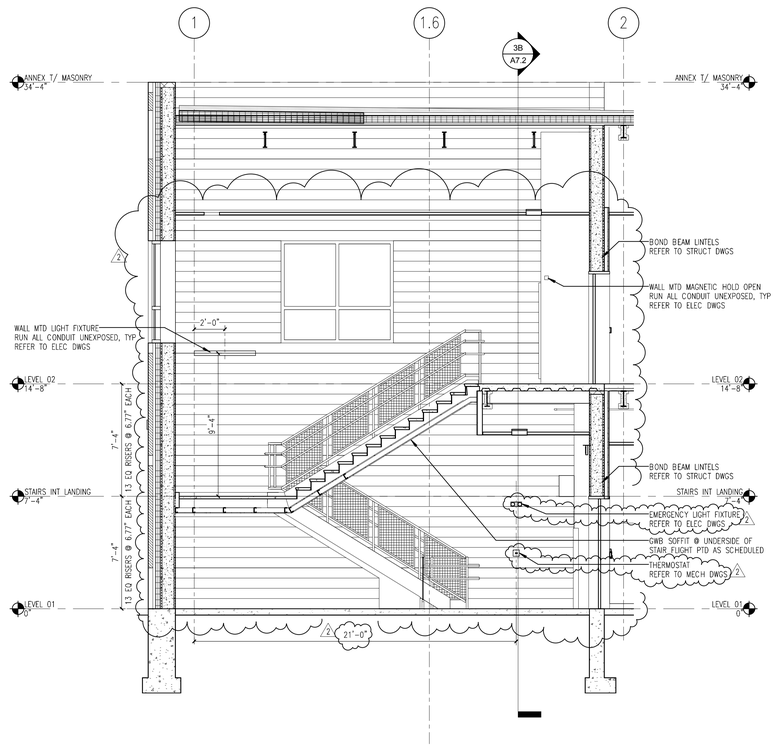
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SHEET TITLE
ENLARGED EXTERIOR PLAN DETAILS

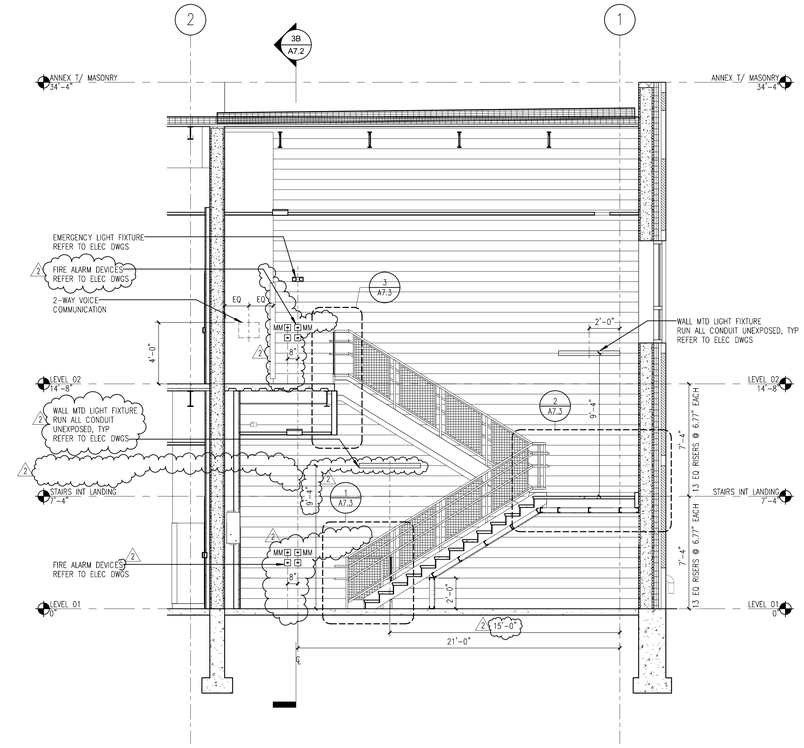
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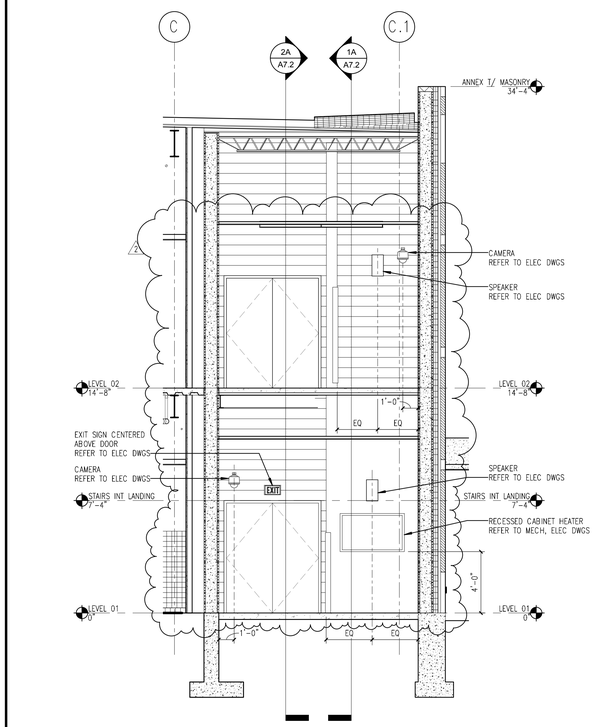
3B STAIR B SECTION EAST
1/4" = 1'-0"



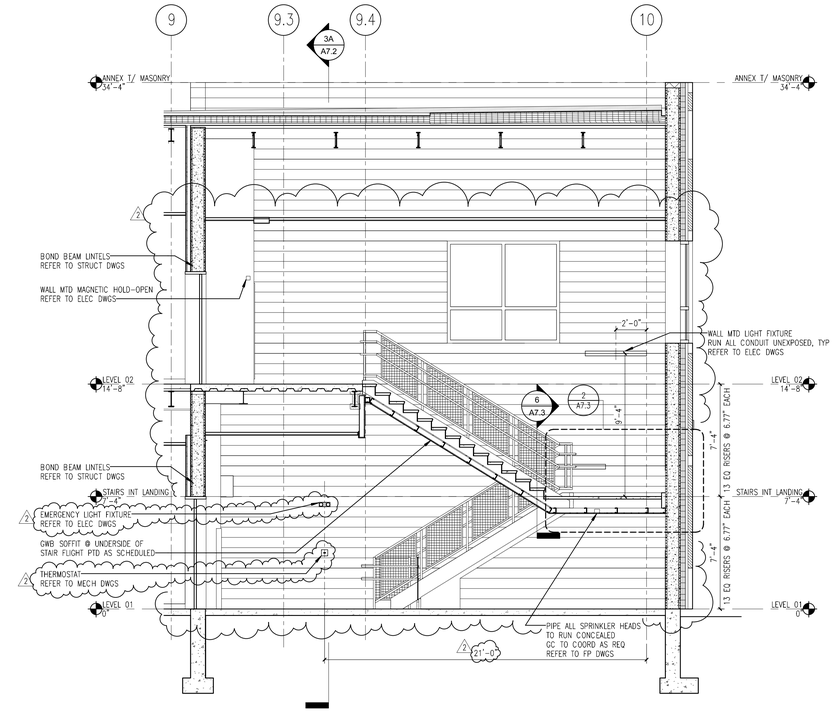
2B STAIR B SECTION NORTH 2
1/4" = 1'-0"



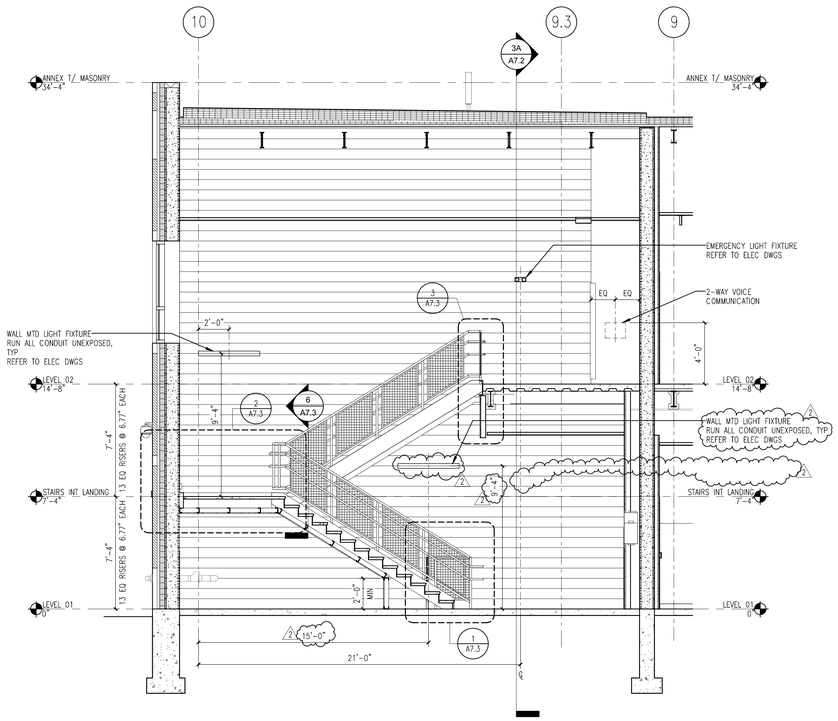
1B STAIR B SECTION SOUTH 2
1/4" = 1'-0"



3A STAIR A SECTION WEST
1/4" = 1'-0"



2A STAIR A SECTION NORTH 2
1/4" = 1'-0"



1A STAIR A SECTION SOUTH 2

12" 8" 6" 4" 3" 2" 1" 0"
SCALE: 1/4" : 1'-0"

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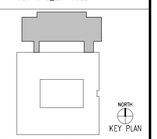
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REVISIONS

NO.	Δ	DATE	DESCRIPTION
2		12/12/2016	DESIGN DEVELOPMENT
3		02/07/2017	60% CONSTRUCTION DOCUMENTS
4		03/14/2017	90% CONSTRUCTION DOCUMENTS
5		03/31/2017	ISSUE FOR PERMIT
6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
9	2	08/22/2017	ADDENDUM 2

DRAWN BY: JW
CHECKED BY: TS
SCALE: 1/4" = 1'-0"
FILE NAME: DW_AL_TS_A72_ENLARGED STAIR SECTIONS_20170822



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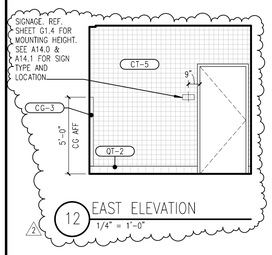
SHEET TITLE
ENLARGED STAIR SECTIONS

DRAWING NO.
A7.2

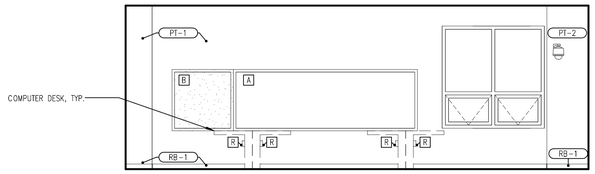
STUDENT DINING SEATING CAPACITY	
QTY.	(1) FOLDING TABLE = 10'-0" SEATING WIDTH PER STUDENT = 2'-6"
6	FOLDING TABLES
8	STUDENTS PER TABLE
48	TOTAL STUDENTS PER LUNCH SESSION

ELEVATION NOTES EQUIPMENT AND ELECTRICAL KEY	
ITEM NO.	DESCRIPTION
A	MARKERBOARD, 12' X 4'
B	TACKBOARD, 4' X 4'
C	MANUAL OPERATED PROJECTION SCREEN 2
D	SHORT THROW PROJECTOR (NIC). GC TO PROVIDE BLOCKING
E	WALL CLOCK AND CLOCK OUTLET
F	RECEPTACLES, VOICE DATA OULETS
G	LIGHT SWITCH
H	THERMOSTAT
J	VISUAL FIRE ALARM STROBE
K	SPEAKER
L	INTERCOM
M	PANIC/CALL INTERCOM BUTTON
N	TELEVISION OUTLET/RECEPTACLE
P	HDMI OUTLET
Q	WIRELESS ENCLOSURE
R	FURNITURE FEED
S	SOAP DISPENSER
T	PAPER TOWEL DISPENSER
U	SIGNAGE
V	TACKBOARD, 17'-6" X 3'-0"
W	TACKBOARD, 16'-0" X 3'-0"
X	TACKBOARD, 23'-0" X 3'-0"
Y	ELECTRICALLY OPERATED PROJECTION SCREEN 2

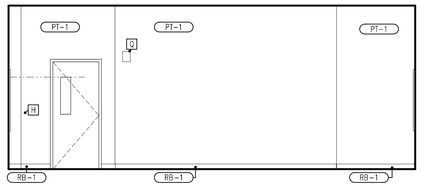
NOTE: SEE G1.4, G1.5, G1.6, & G1.7 FOR TYPICAL MOUNTING HEIGHTS



12 EAST ELEVATION
1/4" = 1'-0"

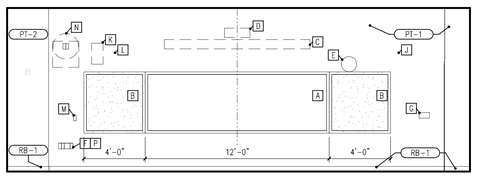


10 WEST ELEVATION
1/4" = 1'-0"

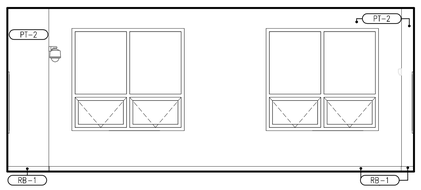


9 SOUTH ELEVATION – SECONDARY TEACHING WALL
1/4" = 1'-0"

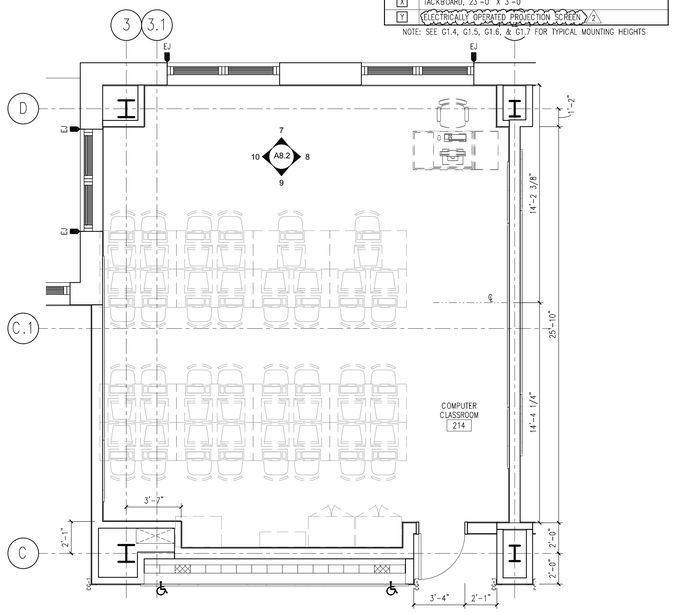
11 WEST ELEVATION
1/4" = 1'-0"



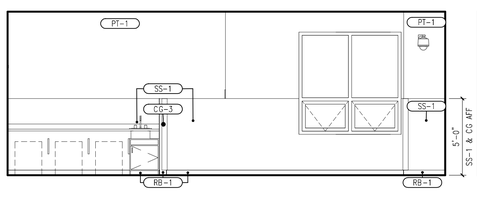
8 EAST ELEVATION – PRIMARY TEACHING WALL
1/4" = 1'-0"



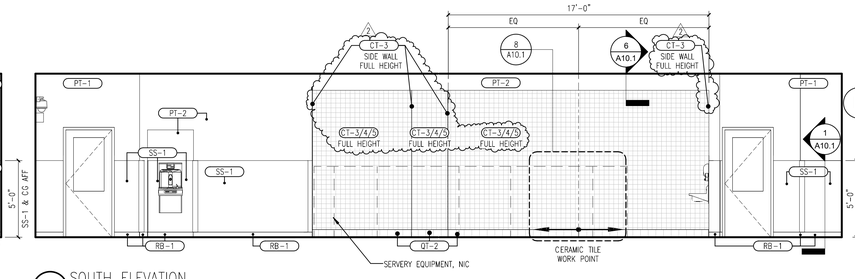
7 NORTH ELEVATION
1/4" = 1'-0"



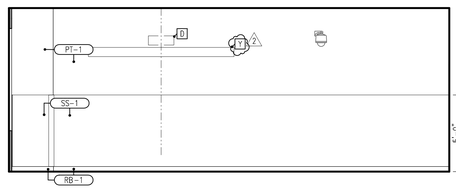
6 COMPUTER CLASSROOM
1/4" = 1'-0"



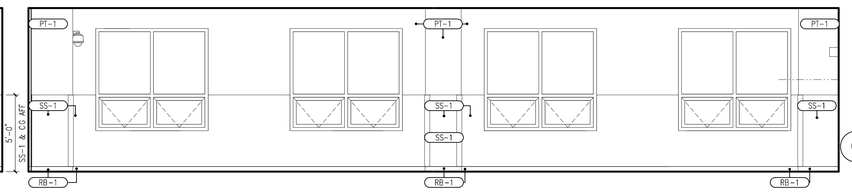
5 WEST ELEVATION
1/4" = 1'-0"



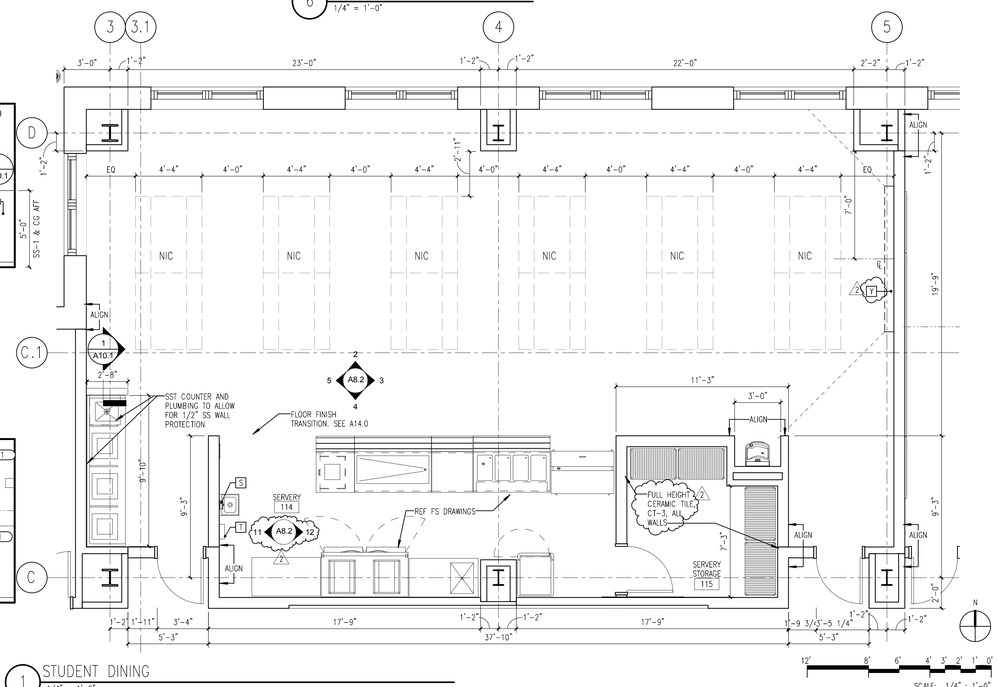
4 SOUTH ELEVATION
1/4" = 1'-0"



3 EAST ELEVATION
1/4" = 1'-0"



2 NORTH ELEVATION
1/4" = 1'-0"



1 STUDENT DINING
1/4" = 1'-0"

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2nd FLOOR
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P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

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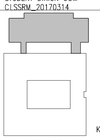
EMILIANO ZAPATA
ACADEMY ANNEX
2728 S KOSTNER AVE
CHICAGO, IL 60623

PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
1		10/21/2016	SCHEMATIC DESIGN
2		12/12/2016	DESIGN DEVELOPMENT
3		02/07/2017	60% CONSTRUCTION DOCUMENTS
4		03/14/2017	90% CONSTRUCTION DOCUMENTS
5		03/31/2017	ISSUE FOR PERMIT
6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
9	2	08/22/2017	ADDENDUM 2

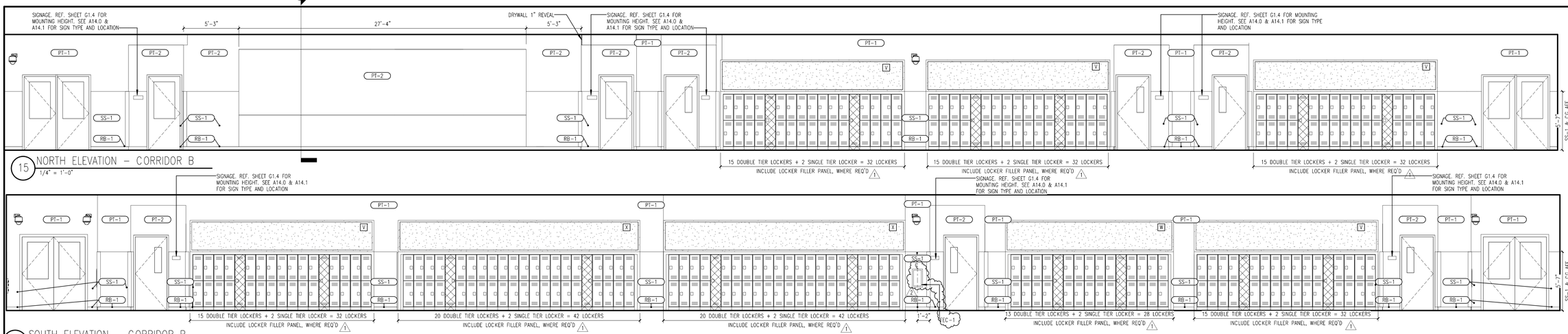
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CHECKED BY: TS
SCALE: As indicated
FILE NAME: DW_AL_TS_A82_ENLRGD PLN ELEVS STUDENT DINIGN CDM CLSSRM_20170314



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 CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

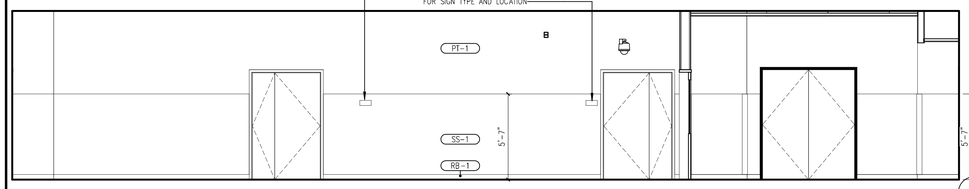
SHEET TITLE
ENLARGED PLAN AND ELEVATIONS – STUDENT DINING AND COMPUTER CLASSROOM

DRAWING NO.
A8.2

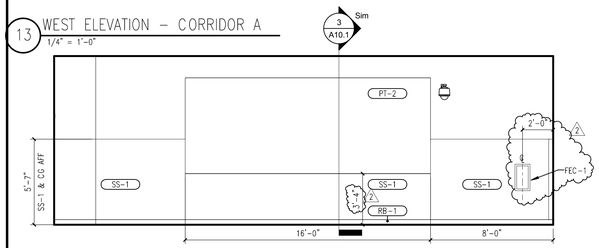


15 NORTH ELEVATION – CORRIDOR B
1/4" = 1'-0"

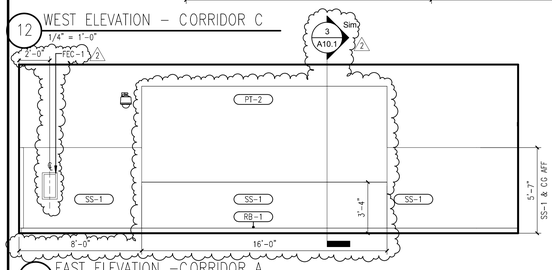
14 SOUTH ELEVATION – CORRIDOR B
1/4" = 1'-0"



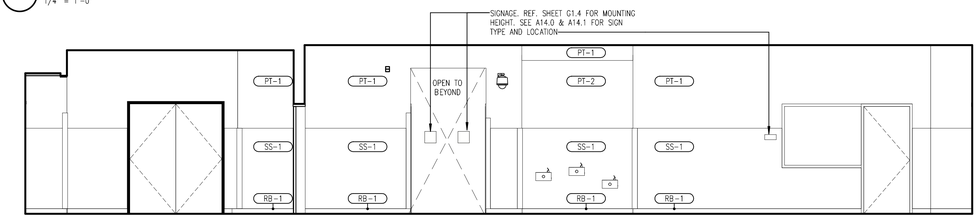
13 WEST ELEVATION – CORRIDOR A
1/4" = 1'-0"



12 WEST ELEVATION – CORRIDOR C
1/4" = 1'-0"



11 EAST ELEVATION –CORRIDOR A
1/4" = 1'-0"





10 ENLARGED PLAN – CORRIDOR A, B, & C
1/8" = 1'-0"
SCALE: 1/8" : 1'-0"

9 EAST ELEVATION – CORRIDOR C
1/4" = 1'-0"

8 WEST ELEVATION
1/4" = 1'-0"

7 SOUTH ELEVATION
1/4" = 1'-0"

6 EAST ELEVATION
1/4" = 1'-0"

5 NORTH ELEVATION
1/4" = 1'-0"

4 WEST ELEVATION
1/4" = 1'-0"

3 SOUTH ELEVATION
1/4" = 1'-0"

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

1 NORTH ELEVATION
1/4" = 1'-0"

ELEVATION NOTES EQUIPMENT AND ELECTRICAL KEY	
ITEM NO.	DESCRIPTION
A	MARKERBOARD, 12' X 4'
B	TACKBOARD, 4' X 4'
C	PROJECTION SCREEN
D	SHORT THROW PROJECTOR (NIC). GC TO PROVIDE BLOCKING
E	WALL CLOCK AND CLOCK OUTLET
F	RECEPTACLES, VOICE DATA OULETS
G	LIGHT SWITCH
H	THERMOSTAT
J	VISUAL FIRE ALARM STROBE
K	SPEAKER
L	INTERCOM
M	PANIC/CALL INTERCOM BUTTON
N	TELEVISION OUTLET/RECEPTACLE
P	HDMI OUTLET
Q	WIRELESS ENCLOSURE
R	FURNITURE FEED
S	SOAP DISPENSER
T	PAPER TOWEL DISPENSER
U	SIGNAGE
V	TACKBOARD, 17'-6" X 3'-0"
W	TACKBOARD, 16'-0" X 3'-0"
X	TACKBOARD, 23'-0" X 3'-0"

NOTE: SEE G1.4, G1.5, G1.6, & G1.7 FOR TYPICAL MOUNTING HEIGHTS

LOCKER LEGEND	
	ADA ACCESIBLE
LOCKER SCHEDULE	
LEVEL 01 – ANNEX	
16	SINGLE TIER LOCKERS (ADA ACCESIBLE)
256	DOUBLE TIER LOCKERS
272	TOTAL LOCKERS
LEVEL 02 – ANNEX	
20	SINGLE TIER LOCKERS (ADA ACCESIBLE)
300	DOUBLE TIER LOCKERS
320	TOTAL LOCKERS
TOTAL – ANNEX	
36	SINGLE TIER LOCKERS (ADA ACCESIBLE)
556	DOUBLE TIER LOCKERS
592	TOTAL LOCKERS

N

12" 8" 6" 4" 3" 2" 1" 0"
SCALE: 1/4" : 1'-0"

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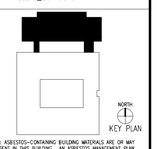
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PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
2		12/12/2016	DESIGN DEVELOPMENT
3		02/07/2017	60% CONSTRUCTION DOCUMENTS
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5		03/31/2017	ISSUE FOR PERMIT
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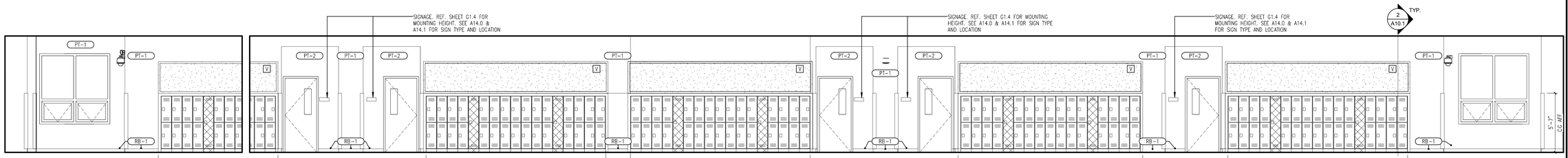
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FILE NAME: DW_AL_TS_A84_L01 CORR INT ELEVS_20170815



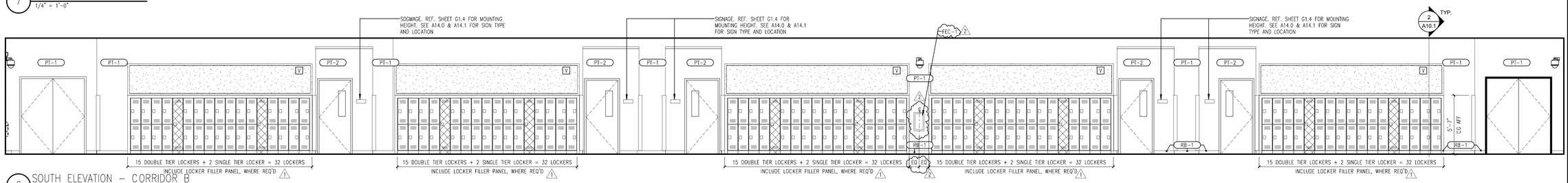
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SHEET TITLE
LEVEL 01 CORRIDOR INTERIOR ELEVATIONS

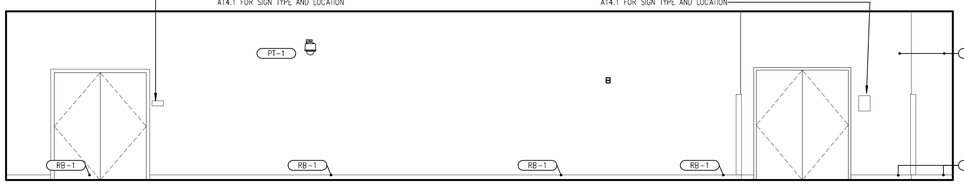
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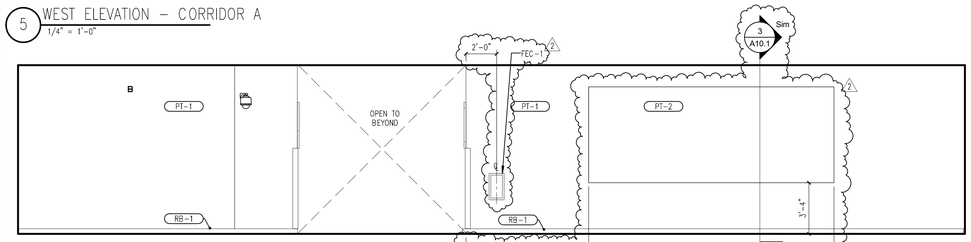
7 CORRIDOR B – NORTH
1/4" = 1'-0"



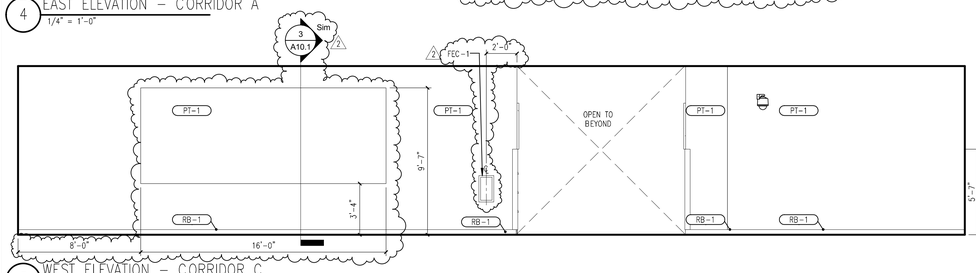
6 SOUTH ELEVATION – CORRIDOR B
1/4" = 1'-0"



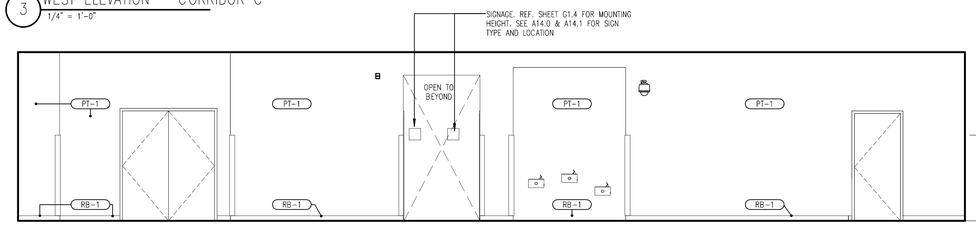
5 WEST ELEVATION – CORRIDOR A
1/4" = 1'-0"



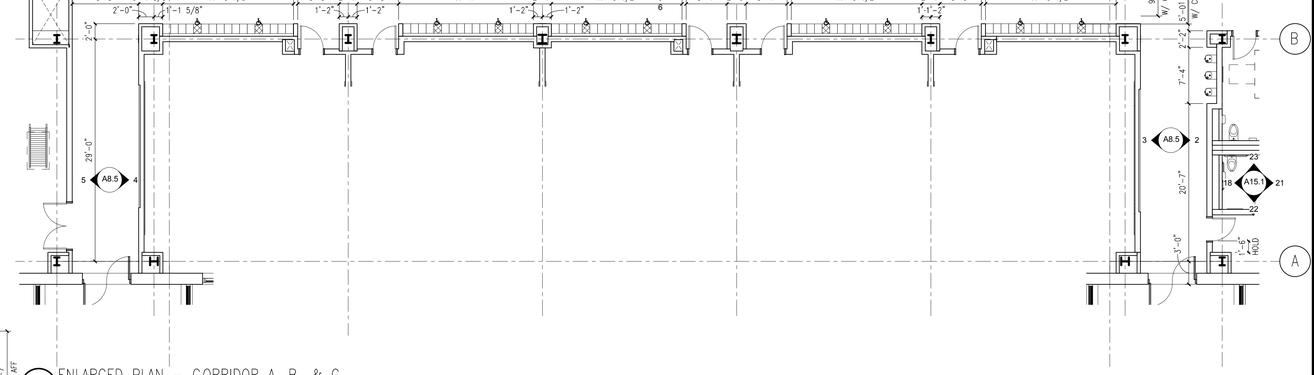
4 EAST ELEVATION – CORRIDOR A
1/4" = 1'-0"



3 WEST ELEVATION – CORRIDOR C
1/4" = 1'-0"



2 EAST ELEVATION – CORRIDOR C
1/4" = 1'-0"



1 ENLARGED PLAN – CORRIDOR A, B, & C
1/8" = 1'-0"

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

LOCKER LEGEND	
	ADA ACCESIBLE

LOCKER SCHEDULE	
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256	DOUBLE TIER LOCKERS
272	TOTAL LOCKERS
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T	PAPER TOWEL DISPENSER
U	SIGNAGE
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X	TACKBOARD, 23'-0" X 3'-0"

NOTE: SEE G1.4, G1.5, G1.6, & G1.7 FOR TYPICAL MOUNTING HEIGHTS

N

12' 8' 6' 4' 3' 2' 1' 0"

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

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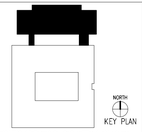
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8	1	08/15/2017	ADDENDUM 1
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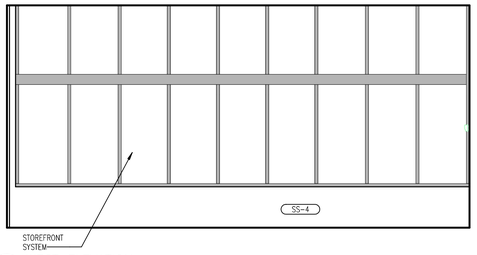
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SHEET TITLE

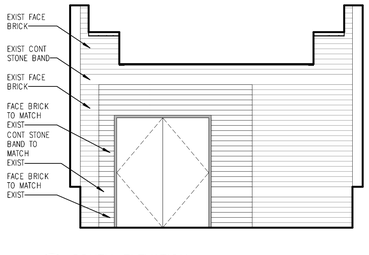
LEVEL 02 CORRIDOR INTERIOR ELEVATIONS

DRAWING NO.

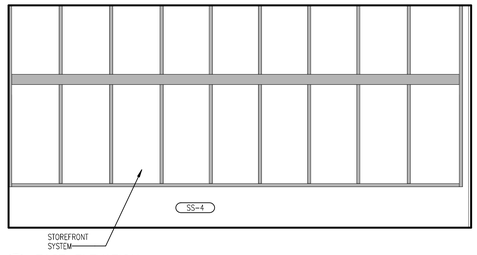
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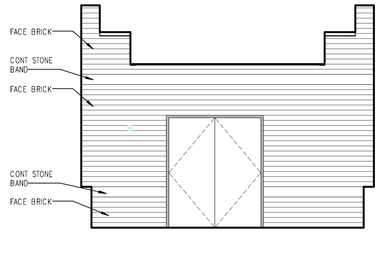
20 WEST ELEVATION
1/4" = 1'-0"



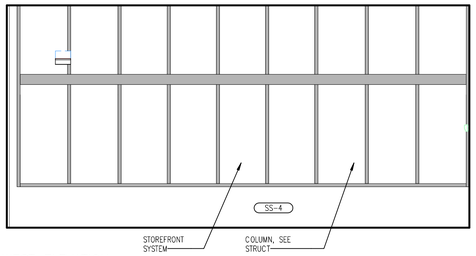
19 SOUTH ELEVATION
1/4" = 1'-0"



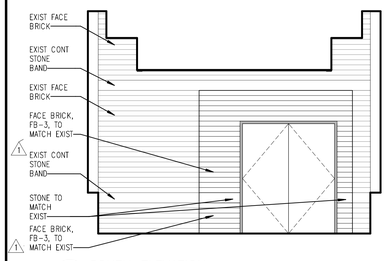
18 EAST ELEVATION
1/4" = 1'-0"



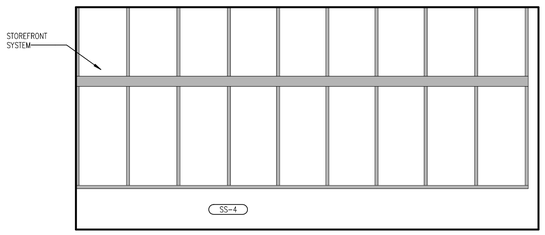
17 NORTH ELEVATION
1/4" = 1'-0"



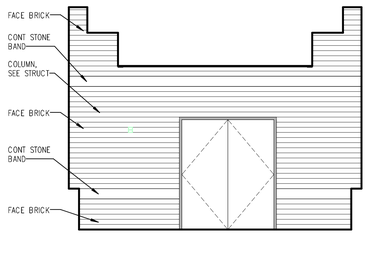
16 WEST ELEVATION
1/4" = 1'-0"



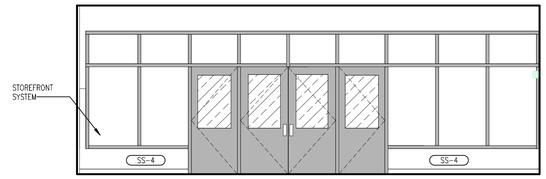
15 SOUTH ELEVATION
1/4" = 1'-0"



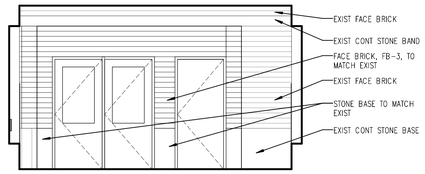
14 EAST ELEVATION
1/4" = 1'-0"



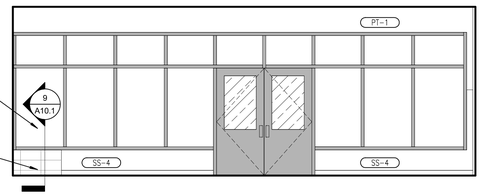
13 NORTH ELEVATION
1/4" = 1'-0"



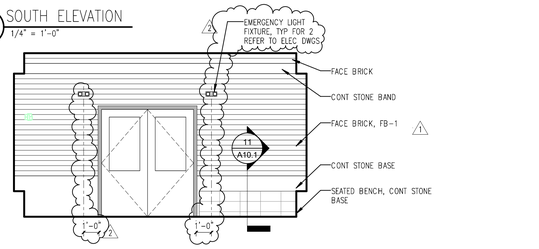
12 WEST ELEVATION
1/4" = 1'-0"



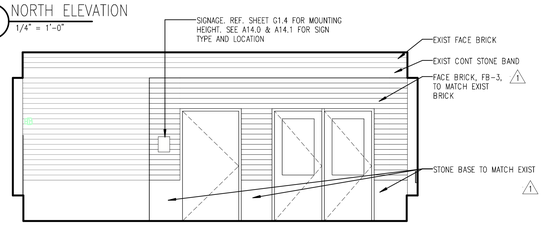
11 SOUTH ELEVATION
1/4" = 1'-0"



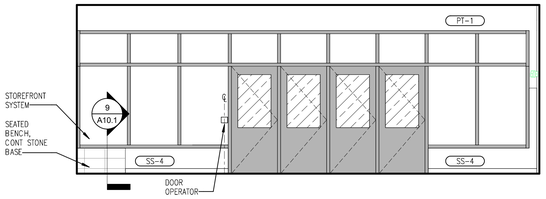
10 EAST ELEVATION
1/4" = 1'-0"



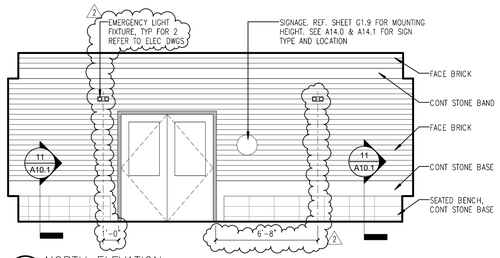
9 NORTH ELEVATION
1/4" = 1'-0"



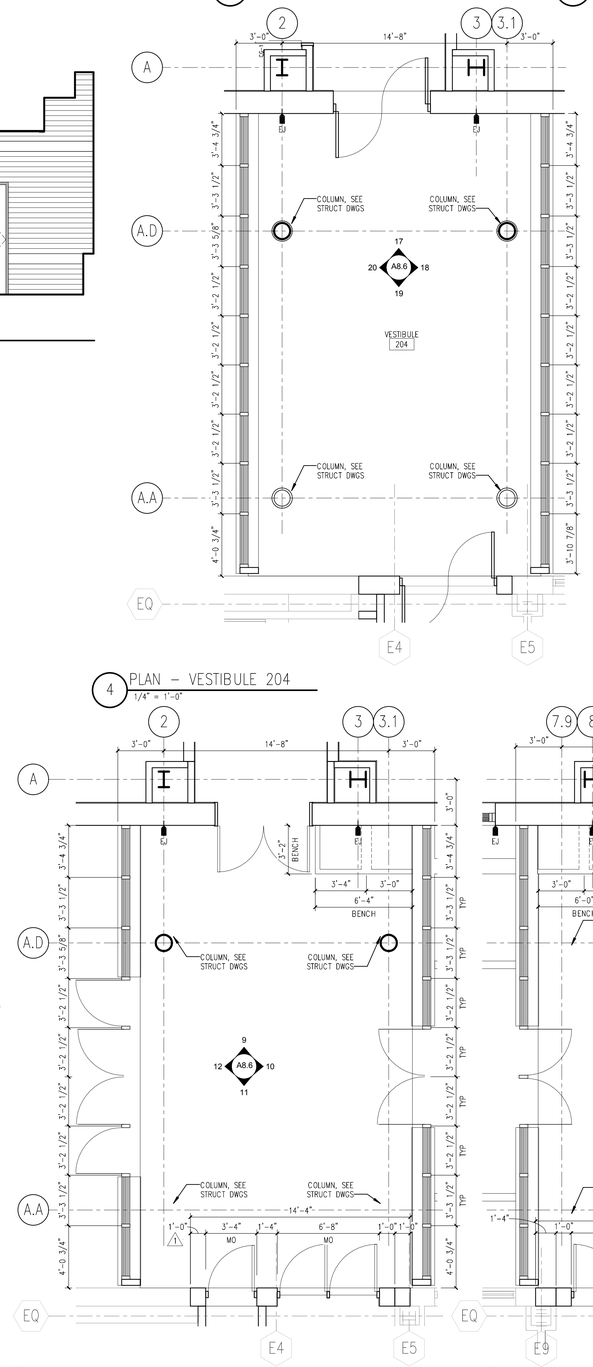
8 WEST ELEVATION
1/4" = 1'-0"



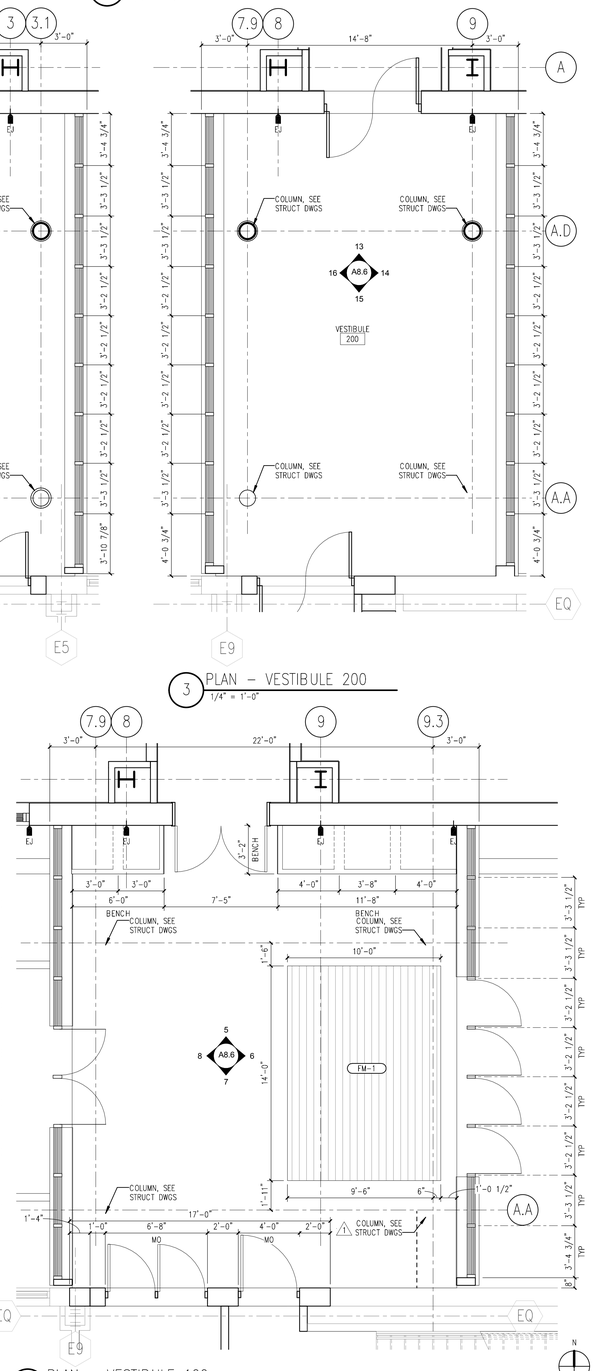
6 EAST ELEVATION
1/4" = 1'-0"



5 NORTH ELEVATION
1/4" = 1'-0"



4 PLAN – VESTIBULE 204
1/4" = 1'-0"



3 PLAN – VESTIBULE 200
1/4" = 1'-0"

2 PLAN – VESTIBULE 104
1/4" = 1'-0"

1 PLAN – VESTIBULE 100
1/4" = 1'-0"

12' 8' 6' 4' 3" 2' 1' 0"
SCALE: 1/4" : 1'-0"

CHICAGO Public Schools
PUBLIC BUILDING COMMISSION
DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

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CHICAGO, IL 60604
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PBC CONTRACT NO. C1580
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CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
2		12/12/2016	DESIGN DEVELOPMENT
3		02/07/2017	60% CONSTRUCTION DOCUMENTS
4		03/14/2017	90% CONSTRUCTION DOCUMENTS
5		03/31/2017	ISSUE FOR PERMIT
6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
8	1	08/15/2017	ADDENDUM 1
9	2	08/22/2017	ADDENDUM 2

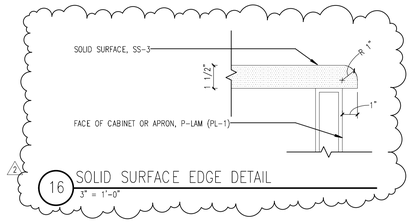
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CHECKED BY: TS
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FILE NAME: DW_AI_TS_A86_ENLRGD PLNS ELEVS VESTIBULES_20170822

NORTH
KEY PLAN

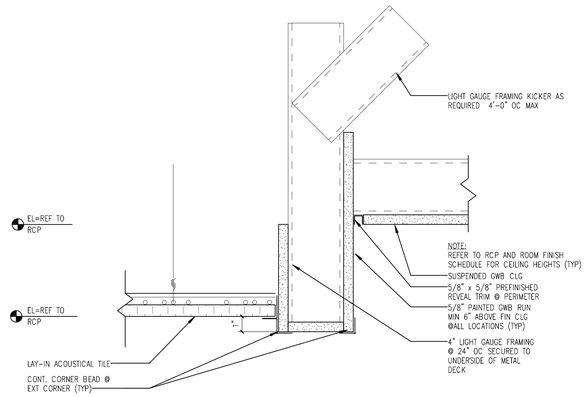
WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK AS A LICENSED ASBESTOS WORKER AS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

SHEET TITLE
ENLARGED PLANS AND ELEVATIONS – VESTIBULES

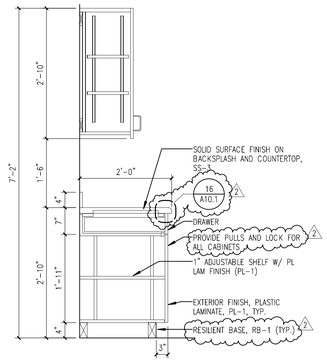
DRAWING NO.
A8.6



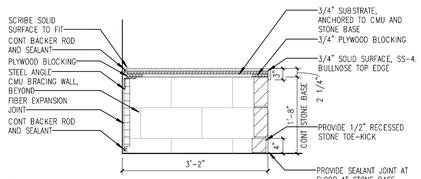
16 SOLID SURFACE EDGE DETAIL
3" = 1'-0"



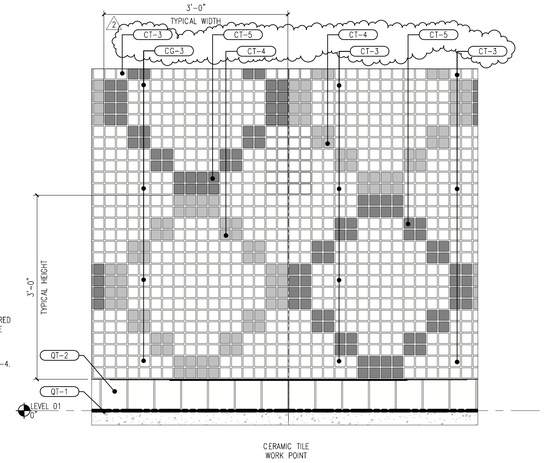
13 CEILING DETAILS
3" = 1'-0"



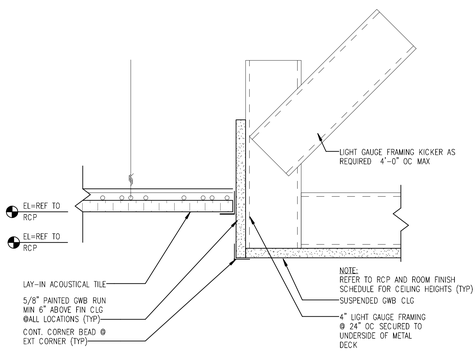
12 SECTION – 36 IN. BASE CABINET
3/4" = 1'-0"



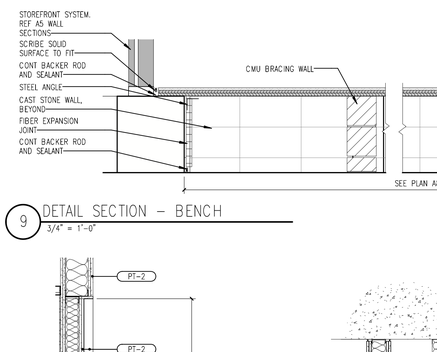
11 DETAIL SECTION – BENCH
3/4" = 1'-0"



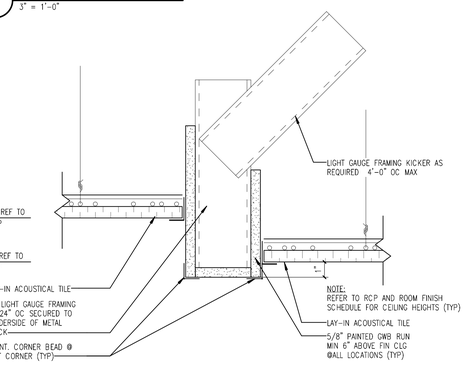
8 INTERIOR WALL TILE PATTERN
1" = 1'-0"



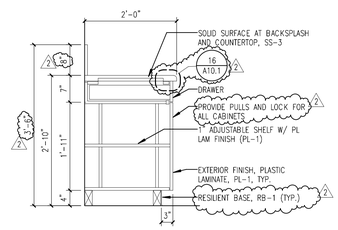
10 SECTION – 30 IN. BASE CABINET
3/4" = 1'-0"



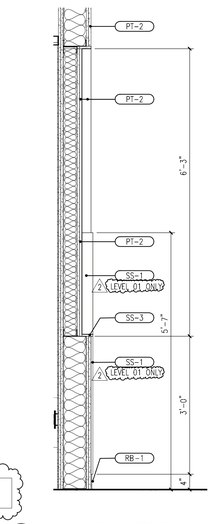
9 DETAIL SECTION – BENCH
3/4" = 1'-0"



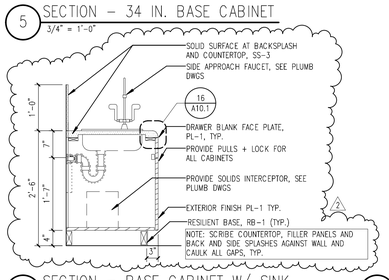
7 CEILING DETAILS
3" = 1'-0"



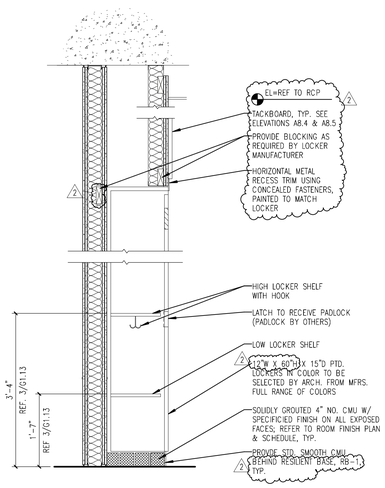
5 SECTION – 34 IN. BASE CABINET
3/4" = 1'-0"



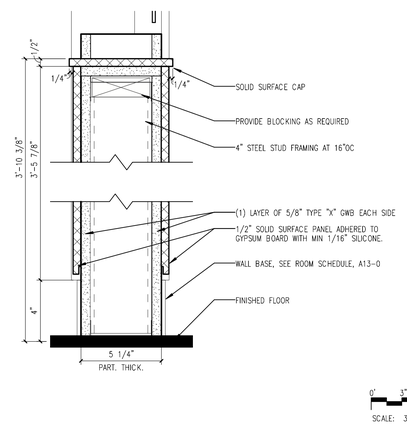
3 WALL MURAL SECTION
3/4" = 1'-0"



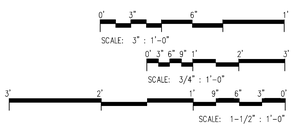
4 SECTION – BASE CABINET W/ SINK
3/4" = 1'-0"



2 SECTION – ACCESSIBLE LOCKER
3/4" = 1'-0"



1 PARTIAL HEIGHT WALL SECTION
3" = 1'-0"



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1128 WEST CHICAGO AVE.
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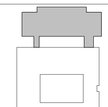
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PBC CONTRACT NO. C1580
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REVISIONS

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6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
9	2	08/22/2017	ADDENDUM 2

DRAWN BY: MB
CHECKED BY: TS
SCALE: As indicated
FILE NAME: DW_AL_TS_A101_INTERIOR DETAILS_20170314



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SHEET TITLE
INTERIOR DETAILS

DRAWING NO.
A10.1

SCHEDULE INFORMATION AND NOTES

TYPICAL FRAME DETAIL & DOOR NOTES:

1. UNLESS NOTED OTHERWISE THE WIDTH OF HOLLOW METAL FRAMES ARE ACTUAL PARTITION THICKNESS PLUS 1" (SEE PARTITION TYPES ON SHEET A9.1). PARTITION TYPES ARE KEYED ON FLOOR PLANS.
2. PROVIDE SPECIFIED FRAME ANCHORS (LISTED IN SPECIFICATIO 08110 – STEEL AND DOORS AND FRAMES) TO ACCOMMODATE PARTITION TYPES AND REQUIREMENTS FOR FIRE RATING.
3. AT GYPSUM BOARD PARTITIONS, SPOT GROUT FRAMES AT EACH JAMB ANCHOR.
4. AT ALL MASONRY PARTITIONS, SOLIDLY GROUT THE ENTIRE VOID IN THE HOLLOW METAL FRAME.
5. PROVIDE SEALANT AT JUNCTION OF ALL FRAMES TO PARTITIONS AND COLUMN ENCLOSURES WITH RATING AS REQUIRED.
6. AT ALL FRAMES ANCHORED TO CAST IN PLACE CONCRETE, PRECAST CONCRETE, OR MASONRY (IF MASONRY ANCHORS NOT TO OTHERWISE SPECIFIED) PROVIDE 3/8" DIA. EXPANSION ANCHORS WITH FLAT COUNTERSUNK HEADS, DIMPLE FRAME WITH 1/16" DEPRESSION TO RECEIVE SCRHEW HEAD. PROVIDE METAL BODY PUTTY FIL OVER SCREW HEAD AND GRIND SMOOTH, PRIME AND PAINT.
7. AT WOOD DOORS PAINT ALL METAL GLAZING STOPS AND METAL LOUVERS TO MATCH FINAL DOOR AND FRAME FINISH.
8. HEIGHT AND WIDTH OF DOOR OPENING INDICATED ON SCHEDULE ARE DIMENSIONS EXCLUSIVE OF HOLLOW METAL FRAME.
9. ALL B-LABEL OPENING PROTECTIVES INCLUDING LITES, DOOR LITES, AND SIDELITES SHALL RECEIVE 5/16" CERAMIC FIRE-RATED GLAZING AND BE INSTALLED WITH FIRE GLAZE COMPOUND.
10. ALL DOOR FRAMES SHALL MATCH THE FIRE DOOR RATING AND UL LABEL.
11. ALL HOLLOW METAL DOORS AND FRAMES SHALL BE PAINTED U.N.O.
12. ROUND GLAZING KIT @ DOOR TYPE, PROVIDE 12" DIA. ROUND GLAZING KIT BY ANEMOSTAT DOOR PRODUCTS; LO-FP-12 (BASIS OF DESIGN) WITH BAKED ENAMEL TO MATCH DOOR AND FRAME COLOR (LESS THAN 100 SQ. INCHES EXPOSED AREA, UL TESTED FOR B-LABEL).

FINISH HARDWARE GENERAL NOTES:

1. ACCESSIBILITY REQUIREMENTS
   A. ALL DOORS TO REQUIRE ACCESSIBLE ROOMS AND SPACES TO RECEIVE HARDWARE PER ADAAG 4.13.9, MINIMUM 32" CLEAR OPENING, AND COMPLY WITH ALL ADAAG SECTION 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 REMARKS IN SCHEDULE.
2. ORNAMENTAL STEEL FENCE GATES:
   A. PROVIDE ADA COMPLIANT LATCH HARDWARE AND LOCK HASP FOR OWENER AND/OR UTILITY PROVIDED LOCKS. REFER TO LANDSCAPE PLANS/DETAILS AND SITE PLAN, COORDINATE WITH FENCING CONTRACTOR AS REQUIRED.
3. FOR DOOR SCHEDULE TO RECEIVE MOP PLATE:
   A. WHERE POSSIBLE PROVIDE 10"HT S.S. PLATE
4. DOOR HOLD-OPENS DESIGNATED AS "N7" SHALL BE IN CONFORMANCE WITH CHICAGO BUILDING CODE 7(15-8-180)

MAXIMUM FIRE-RATED GLASS SIZES	
WALL RATING & OPENING LABEL	5/16" FIRELITE PLUS CERAMIC FIRE-RATED GLAZING
1-HR / C 3/4	3325 SQ. IN.
2-HR / B 1-1/2	2627 SQ. IN.

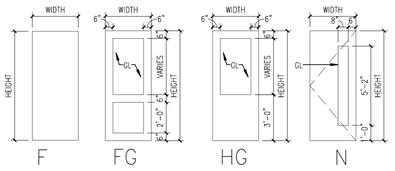
ABBREVIATIONS:

AL	ALUMINUM
FF	FIRE RATED FOR CFRG ASSEMBLY
FRP	FIRE RATED PANEL
HM	HOLLOW METAL
SF	STOREFRONT, SEE ELEVS.
SS	STAINLESS STEEL
WD	WOOD
CFRG	CERAMIC FIRE-RATED GLAZING (G3 PER SCHEDULE)
N	NO
Y	YES
NR	NOT REQUIRED
NA	NOT APPLICABLE

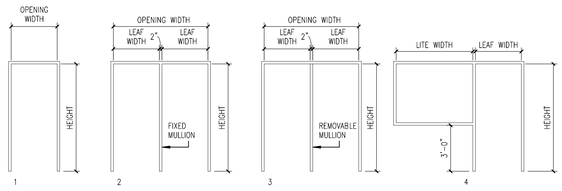
ABBREVIATIONS:

A LABEL – 3 HOUR
B LABEL – 1-1/2 HOUR
C LABEL – 3/4 HOUR

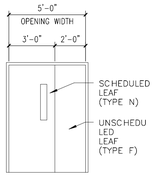
GLAZING LEGEND AND NOTES SIZES	
G1	1/4" ONE-WAY TEMPERED GLASS (SAFETY RATED)
G2	1/4" CLEAR TEMPERED GLASS (SAFETY RATED)
G3	5/16" FIRELITE PLUS (PREMIUM) CERAMIC FIRE-RATED SAFETY GLAZING (FIRE AND SAFETY RATED). FOR B-LABEL OPENING PROTECTIVES PROVIDE PEMKO DOORLITE SET WITH PEMKO FS3000 FIREGLAZE (COMPOUND) OR APPROVED EQUAL.
G4	1" LAMINATED & FIRE-RATED GLASS
G5	1" INSULATED EXTERIOR GLASS ASSEMBLY: SOLARSCREEN, LOW-E; COMPRISED OF 1/4" CLEAR OUTBOARD LITE, 1/2" AIRSPACE, 1/4" CLEAR INBOARD LITE.
G5-L	1" INSULATED LAMINATED EXTERIOR GLASS ASSEMBLY: SOLARSCREEN, LOW-E; COMPRISED OF 1/4" CLEAR OUTBOARD LITE, 1/2" AIRSPACE, 1/4" CLEAR INBOARD LITE.
NOTES	
1.	AT NON-FIRE RATED DOOR AND LITE OPENINGS, PROVIDE SAFETY GLASS WHERE REQUIRED BY SAFETY GLAZING LAWS.
2.	AT FIRE RATED DOOR AND LITE OPENINGS, PROVIDE WIRELESS FIRE PROTECTION RATED GLAZING
	MAXIMUM GLAZING ALLOWED – WHEN USING FIRE RATED GLAZING IN DOORS LABEL / HOURS (MINS) / MAX. GLASS AREA A / 3 HR (180 MINS) / NO GLASS ALLOWED B / 1-1/2 HR (90 MINS) / 100 SQ IN (TOTAL) C / 3/4 HR (45 MINS) / 1,296 SQ IN (PER LITE) C / 1/3 HR (0 MINS) / 1,296 SQ IN (PER LITE)



DOOR TYPES



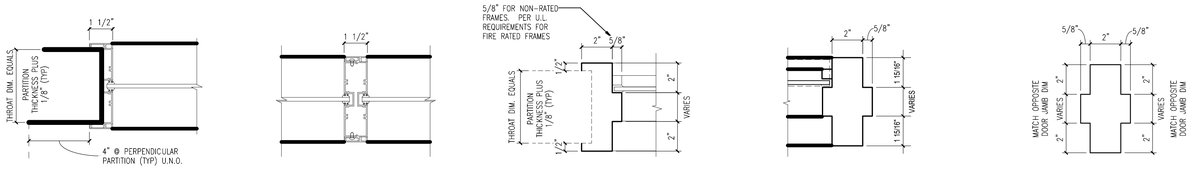
FRAME TYPES



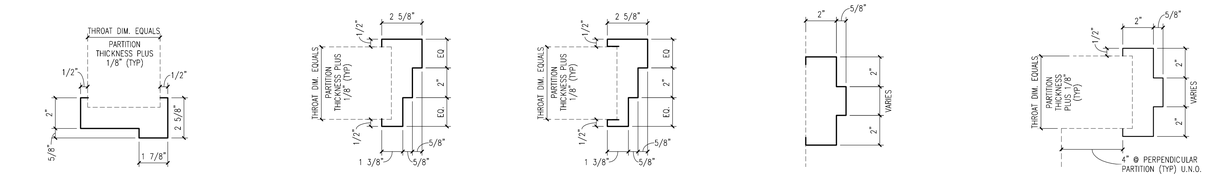
DOOR SCHEDULE				
		DOOR		
		SIZE		
OPENING NUMBER	TYPE	OPENING WIDTH	LEAF WIDTH	OPENING HEIGHT
XXX	N_F (UN)	5'-0"	3'-0"	7'-0"

NOTE:
WHEN MULTIPLE LEAVES OCCUPY A SINGLE DOOR OPENING, EACH LEAF IS LISTED IN THE SCHEDULE UNDER THE HEADING "DOOR TYPE" – EXAMPLE: N_F (UN). THE WIDTH OF THE FIRST LEAF IS SCHEDULED UNDER THE HEADING "LEAF WIDTH". THE WIDTH OF THE SECOND LEAF EQUALS THE DOOR OPENING WIDTH MINUS THE WIDTH OF THE SCHEDULED DOOR LEAF (AND CENTER MULLION IF APPLICABLE). FOR UNEQUAL PAIRS, THE SYMBOL (UN) APPEARS AFTER THE DOOR TYPE.

MULTIPLE LEAF KEY



10 ALUM PROFILE 3" = 1'-0"
9 ALUM PROFILE 3" = 1'-0"
8 HM PROFILE 3" = 1'-0"
7 HM PROFILE 3" = 1'-0"
6 HM PROFILE 3" = 1'-0"



5 HM PROFILE 3" = 1'-0"
4 HM PROFILE 3" = 1'-0"
3 HM PROFILE 3" = 1'-0"
2 HM PROFILE 3" = 1'-0"
1 HM PROFILE 3" = 1'-0"

DOOR SCHEDULE

ROOM NAME	ROOM NUMBER	LEVEL	OPENING NUMBER	DOOR TYPE	DOOR SIZE OPENING WIDTH	DOOR SIZE LEAF WIDTH	DOOR SIZE OPENING HEIGHT	DOOR MATL	DOOR GLASS	FRAME TYPE	FRAME MATL	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FIRE RATING (MIN.)	HDW SET	REMARKS
LEVEL 01																	
VESTIBULE	100	LEVEL 01	100A	HG	3'-0"		7'-0"	FRP	G5-L	SF	AL				1 1/2 C	55	
VESTIBULE	100	LEVEL 01	100B	HG	3'-0"		7'-0"	FRP	G5-L	SF	AL				1 1/2 C	55	
VESTIBULE	100	LEVEL 01	100C	HG	3'-0"		7'-0"	FRP	G5-L	SF	AL				1 1/2 C	55	
VESTIBULE	100	LEVEL 01	100D	HG	3'-0"		7'-0"	FRP	G5-L	SF	AL				1 1/2 C	51	
VESTIBULE	100	LEVEL 01	100E	HG,HG	6'-0"	3'-0"	7'-0"	HM	G3	1	HM	1/A12.1	1/A12.1	–	C	76	
VESTIBULE	100	LEVEL 01	100F	FG,FG	6'-2 1/2"	3'-0"	7'-0"	AL	G5-L	SF	AL				2 1/2 C	56	
VESTIBULE	104	LEVEL 01	104A	HG	3'-0"		7'-0"	FRP	G5-L	SF	AL				1 1/2 C	55	
VESTIBULE	104	LEVEL 01	104B	HG,HG	6'-2 1/2"	3'-0"	7'-0"	FRP	G5-L	SF	AL				1 1/2 C	77	
VESTIBULE	104	LEVEL 01	104C	HG	3'-0"		7'-0"	FRP	G5-L	SF	AL				1 1/2 C	55	
CORRIDOR A	103	LEVEL 01	104E	HG,HG	6'-0"	3'-0"	7'-0"	HM	G3	1	HM	1/A12.1	1/A12.1		C	74	
VESTIBULE	104	LEVEL 01	104F	HG,HG	6'-2 1/2"	3'-0"	7'-0"	AL	G5-L	SF	AL				2 1/2 C	78	
STAFF/UNISEX TOILET	107	LEVEL 01	107	F	3'-0"		7'-0"	WD	–	1	HM	1/A12.1	1/A12.1		C	69	
JANITOR CLOSET	108	LEVEL 01	108	F	3'-0"		7'-0"	WD	–	1	HM	1/A12.1	1/A12.1		C	62	
CR-10	110	LEVEL 01	110	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
CR-11	111	LEVEL 01	111	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
CR-12	112	LEVEL 01	112	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
STUDENT DINING CENTER	113	LEVEL 01	113A	HG	3'-0"		7'-0"	HM	G3	1	HM	1/A12.1	1/A12.1		C	53	
STUDENT DINING CENTER	113	LEVEL 01	113B	HG	3'-0"		7'-0"	HM	G3	1	HM	1/A12.1	1/A12.1		C	53	
SERVERY STORAGE	115	LEVEL 01	115	F	3'-0"		7'-0"	HM	–	1	HM	1/A12.1	1/A12.1		–	73	
PRE-K	116	LEVEL 01	116A	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
PRE-K	116	LEVEL 01	116B	FG	3'-0"		7'-0"	AL	G5-L	SF	AL				2 1/2 C	58	
PRE-K STORAGE	117	LEVEL 01	117	F	3'-0"		7'-0"	WD	–	1	HM	1/A12.1	1/A12.1		–	73	
PRE-K TOILET	118	LEVEL 01	118	F	3'-0"		7'-0"	WD	–	1	HM	1/A12.1	1/A12.1		–	69	
PRE-K	119	LEVEL 01	119A	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
PRE-K	119	LEVEL 01	119B	FG	3'-0"		7'-0"	AL	G5-L	SF	AL				2 1/2 C	58	
PRE-K STORAGE	120	LEVEL 01	120	F	3'-0"		7'-0"	WD	–	1	HM	1/A12.1	1/A12.1		–	73	
PRE-K TOILET	121	LEVEL 01	121	F	3'-0"		7'-0"	WD	–	1	HM	1/A12.1	1/A12.1		–	69	
PRE-K	122	LEVEL 01	122A	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
PRE-K	122	LEVEL 01	122B	FG	3'-0"		7'-0"	AL	G5-L	SF	AL				2 1/2 C	58	
PRE-K STORAGE	123	LEVEL 01	123	F	3'-0"		7'-0"	WD	–	1	HM	1/A12.1	1/A12.1		–	73	
PRE-K TOILET	124	LEVEL 01	124	F	3'-0"		7'-0"	WD	–	1	HM	1/A12.1	1/A12.1		–	69	
CHAIR STORAGE	125	LEVEL 01	125	F,F (UN)	4'-6"	3'-0"	7'-0"	HM	–	1	HM	1/A12.1	1/A12.1		B	66	
GENERAL BUILDING STORAGE	126	LEVEL 01	126	F	3'-0"		7'-0"	HM	–	1	HM	1/A12.1	1/A12.1		B	66	
ELECTRICAL	128	LEVEL 01	128A	F	3'-0"		7'-0"	HM	–	1	HM	1/A12.1	1/A12.1		B	62	KNURLED
ELECTRICAL	128	LEVEL 01	128B	F,F	6'-0"	3'-0"	7'-2"	FRP	–	3	AL	2/A12.1	2/A12.1		2 1/2 C	59	KNURLED
IDF	129	LEVEL 01	129	F,F (UN)	4'-6"	3'-0"	7'-0"	HM	–	1	HM	1/A12.1	1/A12.1		B	67	KNURLED
ADMIN	130	LEVEL 01	130	HG	3'-0"		7'-0"	WD	G3	4	HM	1/A12.1	1/A12.1 7/A12.1 7/A12.1	8/A12.1	C	71	
PASSAGEWAY	131	LEVEL 01	131	F,F (UN)	4'-6"	3'-0"	7'-0"	HM	–	1	HM	1/A12.1	1/A12.1		B	66	
STAIR NO 2	EST-2	LEVEL 01	EST-21	F	3'-0"		7'-2"	HM	G3	2	HM	2/A12.1	2/A12.1		1 1/2 C	61	
STAIR NO 4	EST-4	LEVEL 01	EST-41	F	3'-8"		7'-2"	HM	G3	2	HM	2/A12.1	2/A12.1		1 1/2 C	61	
STAIR A	ST-A1	LEVEL 01	ST-A1	F,F	6'-0"	3'-0"	7'-2"	HM	–	2	HM	1/A12.1	2/A12.1		1 1/2 C	75	
STAIR B	ST-B1	LEVEL 01	ST-B1	F,F	6'-0"	3'-0"	7'-2"	HM	–	2	HM	2/A12.1	2/A12.1		C	75	
SCHOOL VESTIBULE	VST-2	LEVEL 01	VST-21A	F	3'-1"		7'-2"	HM	G3	2	HM	2/A12.1	2/A12.1		C	60	
SCHOOL VESTIBULE	VST-2	LEVEL 01	VST-21B	F	3'-1"		7'-2"	HM	G3	2	HM	2/A12.1			C	60	
SCHOOL VESTIBULE	VST-4	LEVEL 01	VST-41A	F	3'-1"		7'-2"	HM	G3	2	HM	2/A12.1	2/A12.1		C	60	
SCHOOL VESTIBULE	VST-4	LEVEL 01	VST-41B	F	3'-1"		7'-2"	HM	G3	2	HM	2/A12.1			C	60	
VESTIBULE	VST-A	LEVEL 01	VST-A1	HG	3'-1"		7'-2"	FRP	G5-L	2 1/2	AL	2/A12.1	2/A12.1		1 1/2 C	63	
VESTIBULE	VST-A	LEVEL 01	VST-A2	HG	3'-1"		7'-2"	FRP	G5-L	2	AL	2/A12.1	2/A12.1		1 1/2 C	63	
VESTIBULE	VST-A	LEVEL 01	VST-A3	HG	3'-0"		7'-0"	HM	G3	2	HM	1/A12.1	1/A12.1 6/A12.1		C	60	
VESTIBULE	VST-A	LEVEL 01	VST-A4	HG	3'-0"		7'-0"	HM	G3	2	HM	1/A12.1	1/A12.1 6/A12.1		C	60	
VESTIBULE	VST-B	LEVEL 01	VST-B1	HG	3'-1"		7'-2"	FRP	G5-L	2 1/2	AL	2/A12.1	2/A12.1		1 1/2 C	63	
VESTIBULE	VST-B	LEVEL 01	VST-B2	HG	3'-1"		7'-2"	FRP	G5-L	2	AL	2/A12.1	2/A12.1		1 1/2 C	63	
VESTIBULE	VST-B	LEVEL 01	VST-B3	HG	3'-0"		7'-0"	HM	G3	2	HM	1/A12.1	1/A12.1 6/A12.1		C	60	
VESTIBULE	VST-B	LEVEL 01	VST-B4	HG	3'-0"		7'-0"	HM	G3	2	HM	1/A12.1	1/A12.1 6/A12.1		C	60	
LEVEL 02																	
VESTIBULE	200	LEVEL 02	200	F,F	6'-0"	3'-0"	7'-2"	HM	G3	2	HM	5/A12.1	3/A12.1		C	54	
VESTIBULE	204	LEVEL 02	204	F,F	6'-0"	3'-0"	7'-2"	HM	G3	2	HM				C	54	
STAFF/UNISEX TOILET	207	LEVEL 02	207	F	3'-0"		7'-0"	WD	–	1	HM	1/A12.1	1/A12.1		C	68	
JANITOR CLOSET	208	LEVEL 02	208	F	3'-0"		7'-0"	WD	–	1	HM	1/A12.1	1/A12.1		C	65	
STAFF/UNISEX TOILET	209	LEVEL 02	209	F	3'-0"		7'-0"	WD	–	1	HM	1/A12.1	1/A12.1		–	69	
CR-2	210	LEVEL 02	210	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
CR-4	211	LEVEL 02	211	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
CR-6	212	LEVEL 02	212	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
CR-8	213	LEVEL 02	213	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
COMPUTER CLASSROOM	214	LEVEL 02	214	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
CR-1	216	LEVEL 02	216	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
CR-3	217	LEVEL 02	217	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
CR-5	218	LEVEL 02	218	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
CR-7	219	LEVEL 02	219	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
CR-9	220	LEVEL 02	220	N	3'-0"		7'-0"	WD	G3	1	HM	1/A12.1	1/A12.1		C	70	
MECHANICAL	225	LEVEL 02	225	F,F	6'-0"	3'-0"	7'-0"	HM	–	2	HM	1/A12.1	1/A12.1		B	66	KNURLED
FACULTY WORK ROOM	230	LEVEL 02	230	F	3'-0"		7'-0"	HM	–	1	HM	1/A12.1	1/A12.1		C	72	
STAIR NO 2	EST-2	LEVEL 02	EST-22	F	3'-0"		7'-2"	HM	–	1	HM	2/A12.1	2/A12.1		1 1/2 C	64	
STAIR NO 4	EST-4	LEVEL 02	EST-42	F	3'-8"		7'-2"	HM	–	1	HM	2/A12.1	2/A12.1		C	64	
STAIR A	ST-A2	LEVEL 02	ST-A2	F,F	6'-0"	3'-0"	7'-2"	HM	–	2	HM	2/A12.1	2/A12.1		C	52	
STAIR B	ST-B2	LEVEL 02	ST-B2	F,F	6'-0"	3'-0"	7'-2"	HM	–	2	HM	2/A12.1	2/A12.1		C	52	
SCHOOL VESTIBULE	VST-22	LEVEL 02	VST-22	F,F	6'-0"	3'-0"	7'-2"	HM	G3	2	HM	5/A12.1	2/A12.1		C	54	
SCHOOL VESTIBULE	VST-42	LEVEL 02	VST-42	F,F	6'-0"	3'-0"	7'-2"	HM	G3	2	HM	5/A12.1	2/A12.1		C	54	

SCALE: 3" : 1'-0"

CHICAGO PUBLIC SCHOOLS
PUBLIC BUILDING COMMISSION
DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
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CHICAGO, IL 60604
T 312-294-0501

TERRA ENGINEERING, LTD.
225 W OHIO ST, 4TH FL
CHICAGO, IL 60654
T 312-467-0123

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CHICAGO, IL 60613
T 773-975-6467

SHEN MILSOM & WILKE LLC
2 N RIVERSIDE PLAZA #1460
CHICAGO, IL 60606
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ILLINOIS ROOF CONSULTING ASSOCIATES, INC.
4302-G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

EDGE ASSOCIATES, INC.
150 HOUSTON ST, STE 304
BATAVIA, IL 60510
T 630-962-4422

CARNOW, CONIBEAR & ASSOCIATES, LTD.
600 W VAN BUREN ST, STE 500
CHICAGO, IL 60607
T 312-782-4486

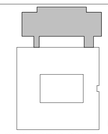
EMILIANO ZAPATA
ACADEMY ANNEX
2728 S KOSTNER AVE
CHICAGO, IL 60623

PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
2		12/12/2016	DESIGN DEVELOPMENT
3		02/07/2017	60% CONSTRUCTION DOCUMENTS
4		03/14/2017	90% CONSTRUCTION DOCUMENTS
5		03/31/2017	ISSUE FOR PERMIT
6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
9	2	08/22/2017	ADDENDUM 2

DRAWN BY: MB
CHECKED BY: TS
SCALE: VARIES
FILE NAME: DW_AL_TS_A121_OPENING SCHEDULES AND DETAILS_20170512



WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE FOR REVIEW. NO PERSON SHALL DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS SUCH 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.

SHEET TITLE
OPENING SCHEDULES AND DETAILS

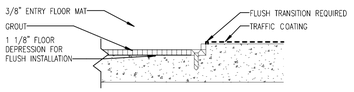
DRAWING NO.
A12.1

FINISH SCHEDULE

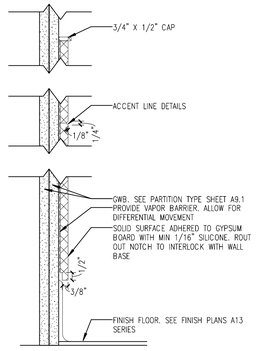
RM #	ROOM NAME	FLOOR	BASE	WALL		CEILING		WINDOW COVERING
		FLOOR	FIELD	FIELD	ACCENT	FIELD	ACCENT	
100	VESTIBULE	VT-1/2/3	–	PT-1 SS-4	–	ACT-4	GWB-2	–
101	CORRIDOR C	VT-1/2/3	RB-1	PT-1	PT-2	ACT-4	GWB-2	–
102	CORRIDOR B	VT-1/2/3	RB-1	PT-1	PT-2	ACT-4	–	–
103	CORRIDOR A	VT-1/2/3	RB-1	PT-1	PT-2	ACT-4	–	–
104	VESTIBULE	VT-1/2/3	–	PT-1 SS-4	–	ACT-4	GWB-2	–
105	BOYS TOILET	CT-1	CT-1	PT-3 CT-2	–	GWB-1	–	–
106	GIRLS TOILET	CT-1	CT-1	PT-4 CT-2	–	GWB-1	–	–
107	STAFF/UNISEX TOILET	CT-1	CT-1	PT-4 CT-2	–	GWB-1	–	–
108	JANITOR CLOSET	CT-1	CT-1	PT-1 CT-2	–	EXPOSED	–	–
110	CR-10	VT-1/2/3	RB-1	PT-1	PT-3	ACT-1	–	Manual Shade
111	CR-11	VT-1/2/3	RB-1	PT-1	PT-3	ACT-1	–	Manual Shade
112	CR-12	VT-1/2/3	RB-1	PT-1	PT-3	ACT-1	–	Manual Shade
113	STUDENT DINING CENTER	VT-1/2/3	RB-1	PT-1 CT-2	PT-2 1	ACT-2	–	Motorized Window Roller Shade
114	SERVERY	QT-1	QT-1	CT-3	CT-4 CT-5	ACT-3	–	–
115	SERVERY STORAGE	QT-1	QT-1	CT-3	–	ACT-3	–	–
116	PRE-K	VT-1/2/3	RB-1	PT-1	PT-4	ACT-1	–	Manual Shade
117	PRE-K STORAGE	VT-1/2/3	RB-1	PT-1	– 1	ACT-4	–	–
118	PRE-K TOILET	CT-1	CT-1	PT-4 CT-2	–	GWB-1	–	–
119	PRE-K	VT-1/2/3	RB-1	PT-1	PT-4	ACT-1	–	Manual Shade
120	PRE-K STORAGE	VT-1/2/3	RB-1	PT-1	– 1	ACT-4	–	–
121	PRE-K TOILET	CT-1	CT-1	PT-4 CT-2	–	GWB-1	–	–
122	PRE-K	VT-1/2/3	RB-1	PT-1	PT-4	ACT-1	–	Manual Shade
123	PRE-K STORAGE	VT-1/2/3	RB-1	PT-1	– 1	ACT-4	–	–
124	PRE-K TOILET	CT-1	CT-1	CT-2	–	GWB-1	–	–
125	CHAIR STORAGE	VT-1/2/3	RB-1	PT-1	–	EXPOSED	–	–
126	GENERAL BUILDING STORAGE	VT-1/2/3	RB-1	PT-1	–	EXPOSED	–	–
128	ELECTRICAL	TF-1	RB-2	PT-1	–	EXPOSED	–	–
129	IDF	SDF-1	RB-1	PT-1	–	EXPOSED	–	–
130	ADMIN	CPT-1	RB-3	PT-1	PT-6	ACT-4	–	Manual Shade
131	PASSAGEWAY	VT-1/2/3	RB-1	PT-1	– 1	ACT-4	–	–
200	VESTIBULE	VT-1/2/3	–	PT-1 SS-4	–	ACT-4	GWB-2	–
201	CORRIDOR C	VT-1/2/3	RB-1	PT-1	PT-2	ACT-4	GWB-2	–
202	CORRIDOR B	VT-1/2/3	RB-1	PT-1	PT-2	ACT-4	–	–
203	CORRIDOR A	VT-1/2/3	RB-1	PT-1	PT-2	ACT-4	–	–
204	VESTIBULE	VT-1/2/3	–	PT-1 SS-4	–	ACT-4	GWB-2	–
205	BOYS TOILET	CT-1	CT-1	PT-3 CT-2	–	GWB-1	–	–
206	GIRLS TOILET	CT-1	CT-1	CT-2	–	GWB-1	–	–
207	STAFF/UNISEX TOILET	CT-1	CT-1	CT-2	–	GWB-1	–	–
208	JANITOR CLOSET	CT-1	CT-1	CT-2	–	EXPOSED	–	–
209	STAFF/UNISEX TOILET	CT-1	CT-1	CT-2	–	GWB-1		–
210	CR-2	VT-1/2/3	RB-1	PT-1	PT-3	ACT-1	–	Manual Shade
211	CR-4	VT-1/2/3	RB-1	PT-1	PT-3	ACT-1	–	Manual Shade
212	CR-6	VT-1/2/3	RB-1	PT-1	PT-3	ACT-1	–	Manual Shade
213	CR-8	VT-1/2/3	RB-1	PT-1	PT-3	ACT-1	–	Manual Shade
214	COMPUTER CLASSROOM	VT-1/2/3	RB-1	PT-1	PT-3	ACT-1	–	Manual Shade
216	CR-1	VT-1/2/3	RB-1	PT-1	PT-3	ACT-1	–	Manual Shade
217	CR-3	VT-1/2/3	RB-1	PT-1	PT-3	ACT-1	–	Manual Shade
218	CR-5	VT-1/2/3	RB-1	PT-1	PT-3	ACT-1	–	Manual Shade
219	CR-7	VT-1/2/3	RB-1	PT-1	PT-3	ACT-1	–	Manual Shade
220	CR-9	VT-1/2/3	RB-1	PT-1	PT-3	ACT-1	–	Manual Shade
225	MECHANICAL	TF-1	RB-2	PT-1	–	EXPOSED	–	–
230	FACULTY WORK ROOM	CPT-1	RB-3	PT-1	PT-6	ACT-4	–	Manual Shade
EST-2	STAIR NO 2	VCT-1/2	RB-4	PT-1	–	ACT-4	–	–
EST-2	STAIR NO 2	VCT-1/2	RB-4	PT-1	–	ACT-4	–	–
EST-4	STAIR NO 4	VCT-1/2	RB-4	PT-1	–	ACT-4	–	–
EST-4	STAIR NO 4	VCT-1/2	RB-4	PT-1	–	ACT-4	–	–
ST-A1	STAIR A	SVT-1	RB-2	PT-1	–	ACT-4	–	–
ST-A2	STAIR A	SVT-1	RB-2	PT-1	–	ACT-4	–	–
ST-B1	STAIR B	SVT-1	RB-2	PT-1	–	ACT-4	–	–
ST-B2	STAIR B	SVT-1	RB-2	PT-1	–	ACT-4	–	–
VST-2	SCHOOL VESTIBULE	VCT-1/2	RB-4	PT-1	–	ACT-4	–	–
VST-4	SCHOOL VESTIBULE	VCT-1/2	RB-4	PT-1	–	ACT-4	–	–
VST-22	SCHOOL VESTIBULE	VCT-1/2	RB-4	PT-1	–	ACT-4	–	–
VST-42	SCHOOL VESTIBULE	VCT-1/2	RB-4	PT-1	–	ACT-4	–	–
VST-A	VESTIBULE	VT-1/2/3	RB-1	PT-1	–	ACT-4	–	–
VST-B	VESTIBULE	VT-1/2/3	RB-1	PT-1	–	ACT-4	–	–

FINISH LEGEND

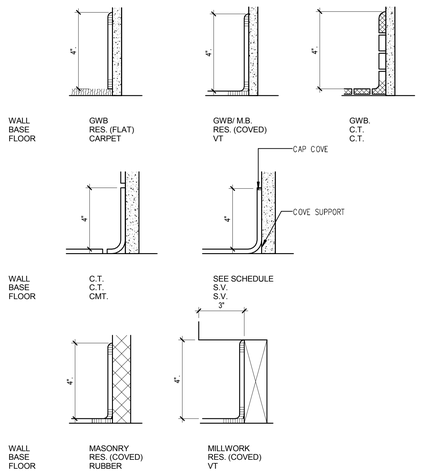
SYMBOL	MATERIAL	REMARKS	Finish Specifications
ACT-1	Acoustical Ceiling Tile	24" x 24" 9/16" Grid	09 51 13
ACT-2	Acoustical Ceiling Tile	24" x 24" 9/16" Grid	09 51 13
ACT-3	Acoustical Ceiling Tile	24" x 24" 9/16" Grid	09 51 13
1 ACT-4	Acoustical Ceiling Tile	24" x 24" 9/16" Grid	09 51 13
CPT-1	Carpet	12" x 36", Brick Ashlar	09 68 13
CT-1	Ceramic Tile	2" x 2"	09 30 00
CT-2	Ceramic Tile	4" x 4"	09 30 00
CT-3	Ceramic Tile	2" x 2"	09 30 00
CT-4	Ceramic Tile	2" x 2"	09 30 00
CT-5	Ceramic Tile	2" x 2"	09 30 00
CG-1	Corner Guard	Flush Mount	10 26 00
CG-2	Corner Guard	Surface Mount	10 26 00
CG-3	Corner Guard	Flush Mount End Wall Protector	10 26 00
CG-4	Corner Guard	Surface Mount End Wall Protector	10 26 00
ECP-1	Exterior Cement Plaster	Exterior Canopy Ceiling	2 09 24 00
FM-1	Floor Mat	Walk-Off Mats	12 48 16
2 GF-1	Glass Film	Toilet Room Windows, Interior Glass Face	
GWB-1	Gypsum Wall Board	Bathroom Ceiling	09 21 16
GWB-2	Gypsum Wall Board	Ceiling Soffits/Bulkhead	09 21 16
2 PL-1	High Pressure Laminate	Base & Upper Cabinets	06 40 23
HLB-1	Horizontal Louver Blinds	Administrative Areas at Windows	12 21 13
LMP-1	Locker Metal Paint	Lockers & Locker Trim	10 51 13
PT-1	Paint	Field Paint	09 91 00
PT-2	Paint	Accent Paint, Corridor and Student Dining Center	09 91 00
PT-3	Paint	Accent Paint, Classroom and Boys Toilet Room	09 91 00
PT-4	Paint	Accent Paint, Pre-K, Girls Toilet Room and Staff/Unisex Toilet Room	09 91 00
PT-5	Paint	HM Door Frames and HM Door	09 91 00
PT-6	Paint	Accent Paint, Admin Areas	09 91 00
QT-1	Quarry Tile	6"x6	09 30 00
QT-2	Quarry Tile	5"x6, Cove Base	09 30 00
RB-1	Resilient Base	Typical	09 65 13
RB-2	Resilient Base	Stairwell	09 65 13
RB-3	Resilient Base	Carpet Areas	09 65 13
RS-1	Roller Shade	Manual Window Roller Shade	12 24 13
RS-2	Roller Shade	Motorized Window Roller Shade	12 24 14
RF-1	Rubber Floor Tile	Annex Stairwells	09 65 20
RST-1	Rubber Stair Tread	Annex Stairwells	09 65 20
SS-1	Solid Surface	Wall Protection	06 61 16
SS-2	Solid Surface	Interior Window Sill	06 61 16
SS-3	Solid Surface	Countertop	06 61 16
SS-4	Solid Surface	Vestibule Link Wall Protection	06 61 16
SS-5	Solid Surface	Vestibule Link Window Sill	06 61 16
SDF-1	Static Dissipative Flooring	24" x 24"	09 65 20
TP-1	Toilet Partition Panels		10 21 13
TF-1	Traffic Coated Floor		07 18 00
TS-1	Transition Strip	VT to CT	09 65 13
TS-2	Transition Strip	VT to CPT	09 65 13
TS-2	Transition Strip	New VCT to Existing VCT	09 65 13
VCT-1	Vinyl Composition Tile	12" x 12", Checkerboard	09 65 19
VCT-2	Vinyl Composition Tile	12" x 12", Checkerboard	09 65 19
VT-1	Vinyl Tile	24" x 24", 50%	09 65 20
VT-2	Vinyl Tile	24" x 24", 30%	09 65 20
VT-3	Vinyl Tile	24" x 24", 20%	09 65 20
WD-1	Wood Door	Typical	08 14 16



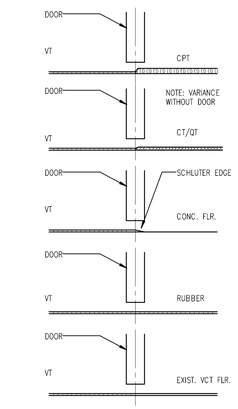
4 ENTRY FLOOR MAT TRANSITION
3" = 1'-0"



3 WALL PROTECTION DETAILS
3" = 1'-0"



2 BASE DETAILS
3" = 1'-0"



NOTES:
1. CENTER SEAMS AND/ OR ALUMINUM EDGE STRIPS UNDER DOOR UNLESS OTHERWISE NOTED.
2. PROVIDE SUBFLOOR LEVELER SYSTEM COMPONENTS AT ALL DISSIMILAR MATERIALS TO ALIGN FLOORING MATERIALS.

1 FLOOR DIVISION DETAILS
3" = 1'-0"

1" 6" 3" 0"
SCALE: 3" : 1'-0"

PUBLIC BUILDING COMMISSION OF CHICAGO
CHICAGO Public Schools
DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

TERRA ENGINEERING, LTD.
225 W OHIO ST, 4TH FL
CHICAGO, IL 60654
T 312-467-0123

HUKESSLER ASSOCIATES, INC.
3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

SHEN MILSOM & WILKE LLC
2 N RIVERSIDE PLAZA #1460
CHICAGO, IL 60606
T 312-559-4585

ILLINOIS ROOF CONSULTING ASSOCIATES, INC.
4302-G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

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150 HOUSTON ST, STE 304
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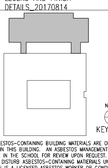
EMILIANO ZAPATA
ACADEMY ANNEX
2728 S KOSTNER AVE
CHICAGO, IL 60623

PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
2		12/12/2016	DESIGN DEVELOPMENT
3		02/07/2017	60% CONSTRUCTION DOCUMENTS
4		03/14/2017	90% CONSTRUCTION DOCUMENTS
5		03/31/2017	ISSUE FOR PERMIT
6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
8	1	08/15/2017	ADDENDUM 1
9	2	08/22/2017	ADDENDUM 2

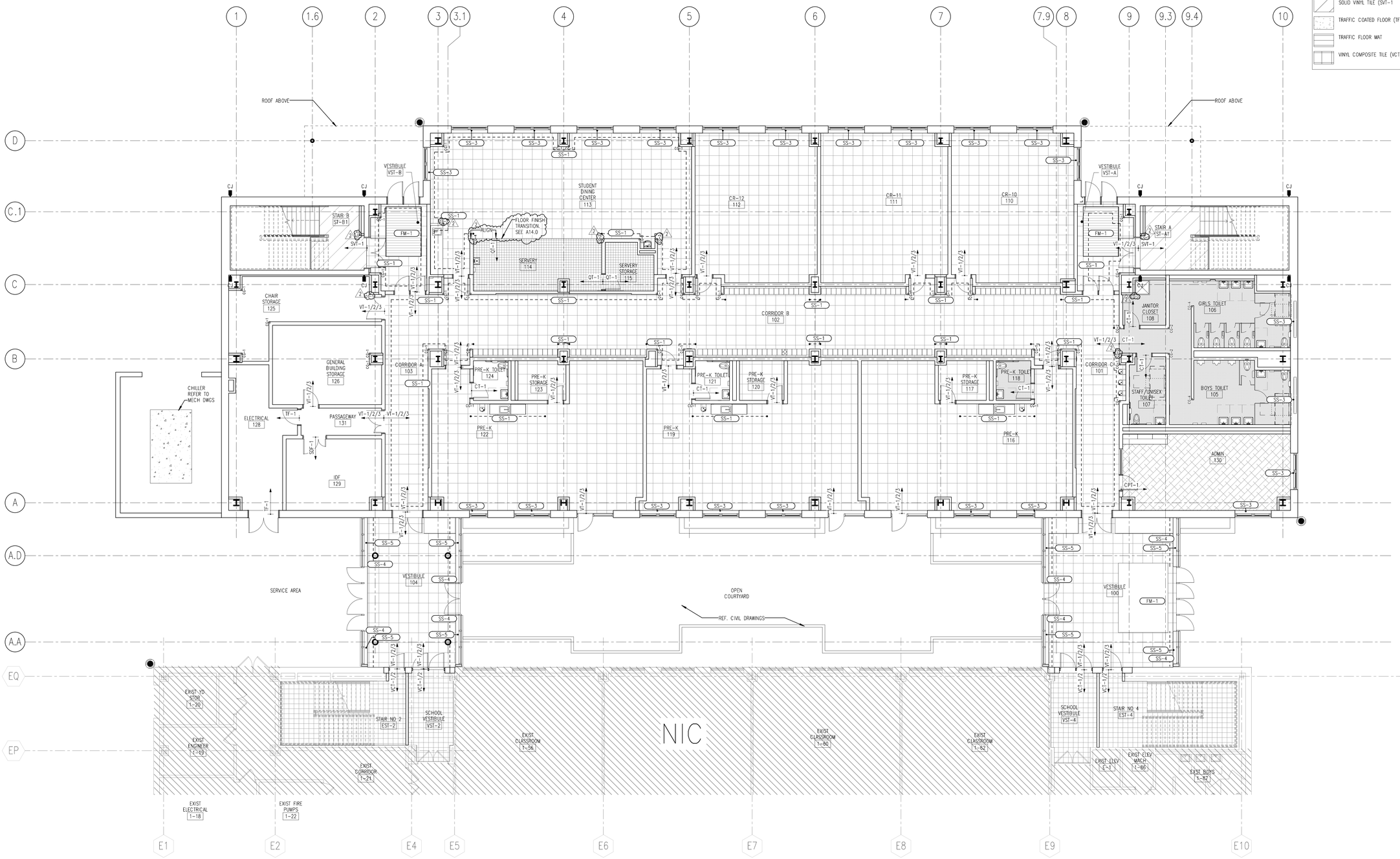
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SHEET TITLE
FINISH SCHEDULE, LEGEND AND FINISH DETAILS

DRAWING NO.
A13.0



1 LEVEL 01 FINISH FLOOR PLAN
1/8" = 1'-0"

PUBLIC BUILDING COMMISSION OF CHICAGO
Chicago Public Schools
DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

TERRA ENGINEERING, LTD.
225 W OHIO ST, 4TH FL
CHICAGO, IL 60654
T 312-467-0123

HUKESSLER ASSOCIATES, INC.
3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

SHEN MILSOM & WILKE LLC
2 N RIVERSIDE PLAZA #1460
CHICAGO, IL 60606
T 312-559-4585

ILLINOIS ROOF CONSULTING ASSOCIATES, INC.
4302-G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

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150 HOUSTON ST, STE 304
BATAVIA, IL 60510
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CHICAGO, IL 60607
T 312-782-4486

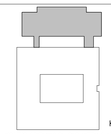
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ACADEMY ANNEX
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CHICAGO, IL 60623

PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

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7		07/28/2017	ISSUE FOR BID
9	2	08/22/2017	ADDENDUM 2

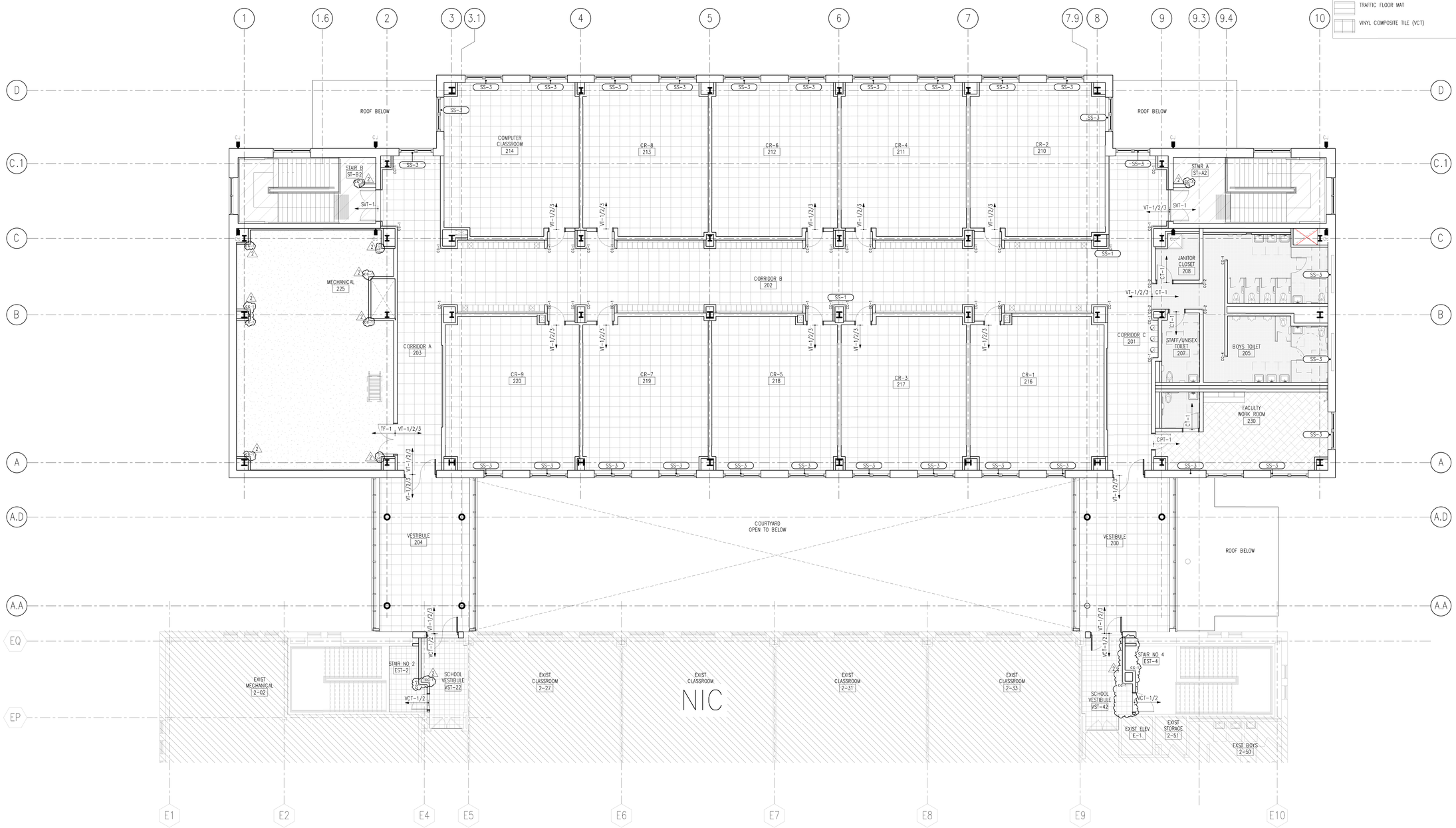
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SHEET TITLE
LEVEL 01 FINISH PLAN

DRAWING NO.
A13.1



1 LEVEL 02 FINISH FLOOR PLAN
1/8" = 1'-0"

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ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
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CHICAGO, IL 60604
T 312-294-0501

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CHICAGO, IL 60654
T 312-467-0123

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3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

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CHICAGO, IL 60606
T 312-559-4585

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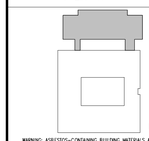
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ACADEMY ANNEX
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CHICAGO, IL 60623

PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

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6		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
9	2	08/22/2017	ADDENDUM 2

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SCALE: VARIES
FILE NAME: DW_AL_TS_A132_LEVEL 02 FINISH PLAN_20170314



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SHEET TITLE
LEVEL 02 FINISH PLAN

DRAWING NO.
A13.2

LEVEL 01 - TOILET ACCESSORIES

TOTAL	Description	Sodexo Equip. No.	Responsibility-Furnished / Installed	Boys Toilet	Girls Toilet	Staff / Unisex Toilet	Janitor Closet	Servery	Pre-K Toilet	Pre-K Toilet	Pre-K Toilet	Pre-K Classroom	Pre-K Classroom	Pre-K Classroom
				105	106	107	108	114	118	121	124	116	119	122
6	Toilet Paper Dispenser (Single Roll - Surface Mounted)	Tork T2 - Tork Mini Jumbo Bath Tissue Roll Dispenser, with Reserve	VF/CI	1	1	1	-	-	1	1	1	-	-	-
5	Toilet Paper Dispenser (Dual Roll - Surface Mounted)	Tork T2 - Tork Twin Mini Jumbo Bath Tissue Roll Dispenser	VF/CI	1	4	-	-	-	-	-	-	-	-	-
1	Sanitary Napkin Disposal (Recessed Mounted)	See Specifications	CF/CI	-	-	1	-	-	-	-	-	-	-	-
1	Sanitary Napkin Disposal (Surface Mounted)	See Specifications	CF/CI	-	1	-	-	-	-	-	-	-	-	-
4	Sanitary Napkin Disposal (Partition Mounted)	See Specifications	CF/CI	-	4	-	-	-	-	-	-	-	-	-
1	Sanity Napkin Vendor (Recessed Mounted)	Bulk Hand Soap Dispenser 9263-1970	CF/CI	-	1	-	-	-	-	-	-	-	-	-
13	Soap Dispenser (Surface Mounted)	ADX12 Model # 8888-06	VF/CI	4	4	1	-	1	1	1	1	-	-	-
6	Mirror - Full (24"x60")	See Specifications	CF/CI	1	1	1	-	-	1	1	1	-	-	-
1	Grab Bar - 36" (Horizontal)	See Specifications	CF/CI	-	-	1	-	-	-	-	-	-	-	-
1	Grab Bar - 42" (Horizontal)	See Specifications	CF/CI	-	-	1	-	-	-	-	-	-	-	-
6	Grab Bar - 18" (Vertical)	See Specifications	CF/CI	1	1	1	-	-	1	1	1	-	-	-
5	Grab Bar - 24" (Horizontal)	See Specifications	CF/CI	1	1	-	-	-	1	1	1	-	-	-
5	Grab Bar - 48"x6" (Horizontal - Two Wall)	See Specifications	CF/CI	1	1	-	-	-	1	1	1	-	-	-
3	Changing Table	See Specifications	VF/CI	1	1	1	-	-	-	-	-	-	-	-
1	Paper Towel Dispenser (Surface Mounted)	Tork H1 - hand towel roll system	VF/VI	-	-	-	-	1	-	-	-	-	-	-
3	Paper Towel Dispenser (Surface Mounted)	Tork H1 - hand towel roll system	VF/CI	-	-	-	-	-	-	-	-	1	1	1
10	Hand Dryer (Surface Mounted)	See Specifications	CF/CI	3	3	1	-	-	1	1	1	-	-	-
1	Utility Shelf With Hooks & Mop Strips (Surface Mounted)	See Specifications	CF/CI	-	-	-	1	-	-	-	-	-	-	-
72				14	23	9	0	2	7	7	7	1	1	1

ABBREVIATIONS

VF	VENDOR FURNISHED
VI	VENDOR INSTALLED
CF	CONTRACTOR FURNISHED
CI	CONTRACTOR INSTALLED

LEVEL 02 - TOILET ACCESSORIES

TOTAL	Description	Sodexo Equip. No.	Responsibility-Furnished / Installed	Boys Toilet	Girls Toilet	Staff / Unisex	Janitor Closet	Staff / Unisex Toilet
				205	209	207	208	209
4	Toilet Paper Dispenser (Single Roll - Surface Mounted)	Tork T2 - Tork Mini Jumbo Bath Tissue Roll Dispenser, with Reserve	VF/CI	1	1	1	-	1
5	Toilet Paper Dispenser (Dual Roll - Surface Mounted)	Tork T2 - Tork Twin Mini Jumbo Bath Tissue Roll Dispenser	VF/CI	1	4	-	-	-
2	Sanitary Napkin Disposal (Recessed Mounted)	See Specifications	CF/CI	-	-	1	-	1
1	Sanitary Napkin Disposal (Surface Mounted)	See Specifications	CF/CI	-	1	-	-	-
4	Sanitary Napkin Disposal (Partition Mounted)	See Specifications	CF/CI	-	4	-	-	-
1	Sanity Napkin Vendor (Recessed Mounted)	Bulk Hand Soap Dispenser 9263-1970	CF/CI	-	1	-	-	-
10	Soap Dispenser (Surface Mounted)	ADX12 Model # 8888-06	VF/CI	4	4	1	-	1
4	Mirror - Full (24"x60")	See Specifications	CF/CI	1	1	1	-	1
2	Grab Bar - 36" (Horizontal)	See Specifications	CF/CI	-	-	1	-	1
2	Grab Bar - 42" (Horizontal)	See Specifications	CF/CI	-	-	1	-	1
4	Grab Bar - 18" (Vertical)	See Specifications	CF/CI	1	1	1	-	1
2	Grab Bar - 24" (Horizontal)	See Specifications	CF/CI	1	1	-	-	-
2	Grab Bar - 48"x6" (Horizontal - Two Wall)	See Specifications	CF/CI	1	1	-	-	-
3	Changing Table	See Specifications	VF/CI	1	1	1	-	-
0	Paper Towel Dispenser (Surface Mounted)	Tork H1 - hand towel roll system	VF/VI	-	-	-	-	-
0	Paper Towel Dispenser (Surface Mounted)	Tork H1 - hand towel roll system	VF/CI	-	-	-	-	-
8	Hand Dryer (Surface Mounted)	See Specifications	CF/CI	3	3	1	-	1
1	Utility Shelf With Hooks & Mop Strips (Surface Mounted)	See Specifications	CF/CI	-	-	-	1	-
46				11	20	8	0	7

TOTALS - TOILET ACCESSORIES

PROJECT TOTALS	Description	Sodexo Equip. No.	Responsibility-Furnished / Installed	First Floor	Second Floor
10	Toilet Paper Dispenser (Single Roll - Surface Mounted)	Tork T2 - Tork Mini Jumbo Bath Tissue Roll Dispenser, with Reserve	VF/CI	6	4
10	Toilet Paper Dispenser (Dual Roll - Surface Mounted)	Tork T2 - Tork Twin Mini Jumbo Bath Tissue Roll Dispenser	VF/CI	5	5
3	Sanitary Napkin Disposal (Recessed Mounted)	See Specifications	CF/CI	1	2
2	Sanitary Napkin Disposal (Surface Mounted)	See Specifications	CF/CI	1	1
8	Sanitary Napkin Disposal (Partition Mounted)	See Specifications	CF/CI	4	4
2	Sanity Napkin Vendor (Recessed Mounted)	Bulk Hand Soap Dispenser 9263-1970	CF/CI	1	1
23	Soap Dispenser (Surface Mounted)	ADX12 Model # 8888-06 / ADX12 Model # 8888-06	VF/CI	13	10
10	Mirror - Full (24"x60")	See Specifications	CF/CI	6	4
3	Grab Bar - 36" (Horizontal)	See Specifications	CF/CI	1	2
3	Grab Bar - 42" (Horizontal)	See Specifications	CF/CI	1	2
10	Grab Bar - 18" (Vertical)	See Specifications	CF/CI	6	4
7	Grab Bar - 24" (Horizontal)	See Specifications	CF/CI	5	2
7	Grab Bar - 48"x6" (Horizontal - Two Wall)	See Specifications	CF/CI	5	2
6	Changing Table	See Specifications	VF/CI	3	3
1	Paper Towel Dispenser (Surface Mounted)	Tork H1 - hand towel roll system	VF/VI	1	0
3	Paper Towel Dispenser (Surface Mounted)	Tork H1 - hand towel roll system	VF/CI	3	0
18	Hand Dryer (Surface Mounted)	See Specifications	CF/CI	10	8
2	Utility Shelf With Hooks & Mop Strips (Surface Mounted)	See Specifications	CF/CI	1	1
128				73	55

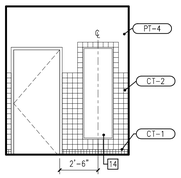
ELEVATION NOTES
TOILET ACCESSORIES KEY

ITEM NO.	DESCRIPTION
1	WATER CLOSET – ADA
2	WATER CLOSET – NON-ADA
3	URINAL – ADA
4	URINAL – NON-ADA
5	LAVATORY – ADA
6	LAVATORY – NON-ADA
7	TOILET PAPER DISPENSER – SINGLE ROLE
8	TOILET PAPER DISPENSER – DUAL ROLE
9	SANITARY NAPKIN DISPOSAL – RECESSED
10	SANITARY NAPKIN DISPOSAL – SURFACE MOUNTED
11	SANITARY NAPKIN DISPOSAL – PARTITION MOUNTED
12	SANITARY NAPKIN VENDOR – RECESSED
13	SOAP DISPENSER
14	MIRROR, FULL LENGTH
15	HORIZONTAL GRAB BAR, 36"
16	HORIZONTAL GRAB BAR, 42"
17	VERTICAL GRAB BAR, 18"
18	HORIZONTAL GRAB BAR, 24"
19	HORIZONTAL GRAB BAR, TWO WALL 48"x6"
20	ELECTRIC WATER COOLER
21	ELECTRIC HAND DRYER
22	CHANGING TABLE
23	JANITORIAL SINK
24	UTILITY SHELF W/ HOOKS & MOPS STRIPS (SURFACE MOUNTED)
25	LOCKING HOSE BIBB
26	12"X12" STAINLESS STEEL ACCESS PANEL

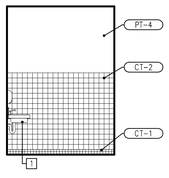
NOTE: SEE G1.6, G1.7 FOR TYPICAL MOUNTING HEIGHTS AND LOCATIONS

INTERIOR ELEVATION LEGEND

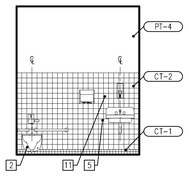
XXX–X FINISH MATERIAL TAG, REF. A13.0



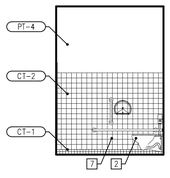
27 PRE-K TOILET – WEST
1/4" = 1'-0"



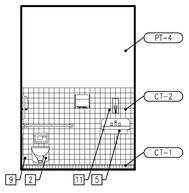
26 PRE-K TOILET – SOUTH
1/4" = 1'-0"



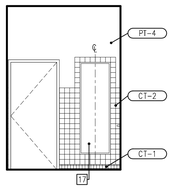
25 PRE-K TOILET – EAST
1/4" = 1'-0"



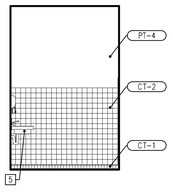
24 PRE-K TOILET – NORTH
1/4" = 1'-0"



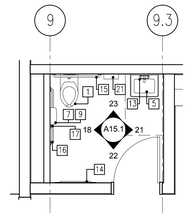
23 UNISEX TOILET – NORTH
1/4" = 1'-0"



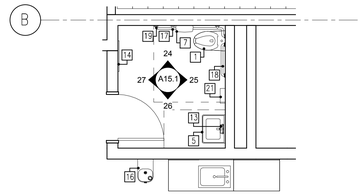
22 UNISEX TOILET – SOUTH
1/4" = 1'-0"



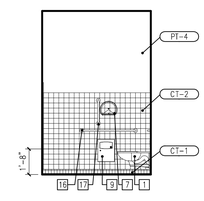
21 UNISEX TOILET – EAST
1/4" = 1'-0"



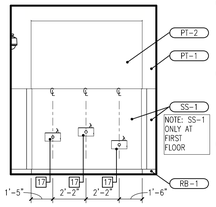
20 ENLARGED FLOOR PLAN – STAFF/UNISEX TOILET
1/4" = 1'-0"



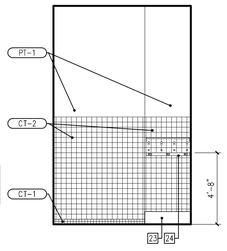
19 ENLARGED FLOOR PLAN – PRE-K TOILET ROOM
1/4" = 1'-0"



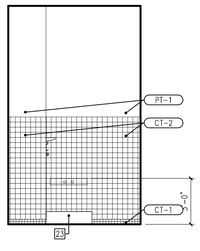
18 STAFF/UNISEX TOILET – WEST
1/4" = 1'-0"



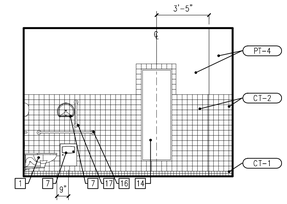
17 CORRIDOR C – EAST
1/4" = 1'-0"



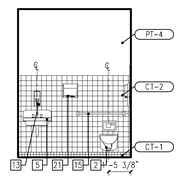
16 JANITOR CLOSET – WEST
1/4" = 1'-0"



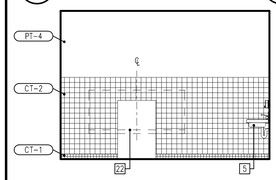
15 JANITOR CLOSET – NORTH
1/4" = 1'-0"



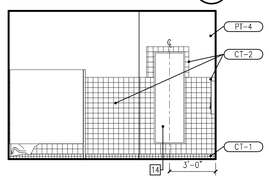
14 UNISEX TOILET – WEST
1/4" = 1'-0"



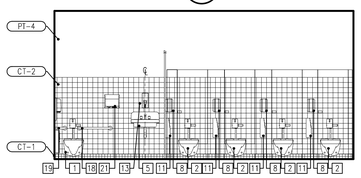
13 UNISEX TOILET – SOUTH
1/4" = 1'-0"



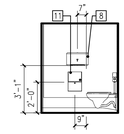
12 STAFF/UNISEX TOILET – EAST
1/4" = 1'-0"



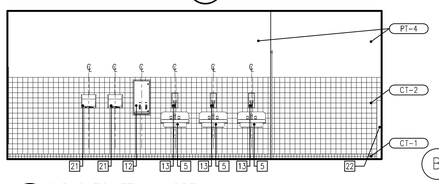
11 GIRLS TOILET – WEST
1/4" = 1'-0"



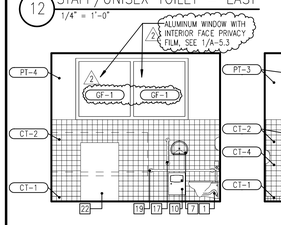
10 GIRLS TOILET – SOUTH
1/4" = 1'-0"



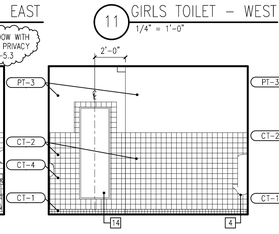
9 GIRLS PARTITION
1/4" = 1'-0"



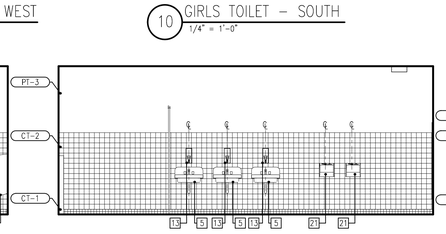
8 GIRLS TOILET – NORTH
1/4" = 1'-0"



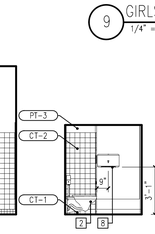
7 GIRLS TOILET – EAST
1/4" = 1'-0"



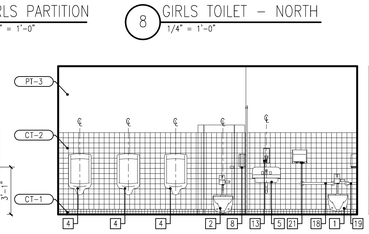
6 BOYS TOILET – WEST
1/4" = 1'-0"



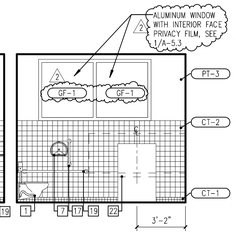
5 BOYS TOILET – SOUTH
1/4" = 1'-0"



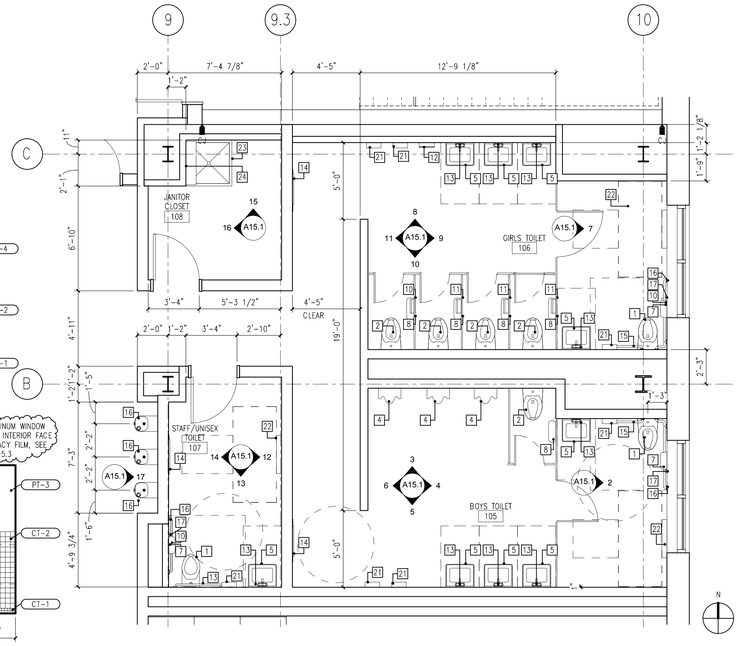
4 BOYS TOILET PARTITION
1/4" = 1'-0"



3 BOYS TOILET – NORTH
1/4" = 1'-0"



2 BOYS TOILET – EAST
1/4" = 1'-0"



1 TYPICAL TOILET BLOCK
1/4" = 1'-0"

12' 8' 6' 4' 3' 2' 1' 0"
SCALE: 1/4" : 1'-0"

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CAPITAL IMPROVEMENT PROGRAM

ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

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T 312-467-0123

HUKESSLER ASSOCIATES, INC.
3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

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CHICAGO, IL 60606
T 312-559-4585

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4302-G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

EDGE ASSOCIATES, INC.
150 HOUSTON ST, STE 304
BATAVIA, IL 60510
T 630-962-4422

CARNOW, CONIBEAR & ASSOCIATES, LTD.
600 W VAN BUREN ST, STE 500
CHICAGO, IL 60607
T 312-782-4486

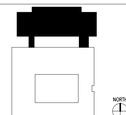
EMILIANO ZAPATA
ACADEMY ANNEX
2728 S KOSTNER AVE
CHICAGO, IL 60623

PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
1		10/21/2016	SCHEMATIC DESIGN
2		12/12/2016	DESIGN DEVELOPMENT
3		02/07/2017	60% CONSTRUCTION DOCUMENTS
4		03/14/2017	90% CONSTRUCTION DOCUMENTS
5		03/31/2017	ISSUE FOR PERMIT
6		04/19/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
9	2	08/22/2017	ADDENDUM 2

DRAWN BY: Author
CHECKED BY: Checker
SCALE: As indicated
FILE NAME: DW_AL_TS_A151_ENLRGD TOILET PLNS_20160314



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SHEET TITLE
ENLARGED TOILET PLANS

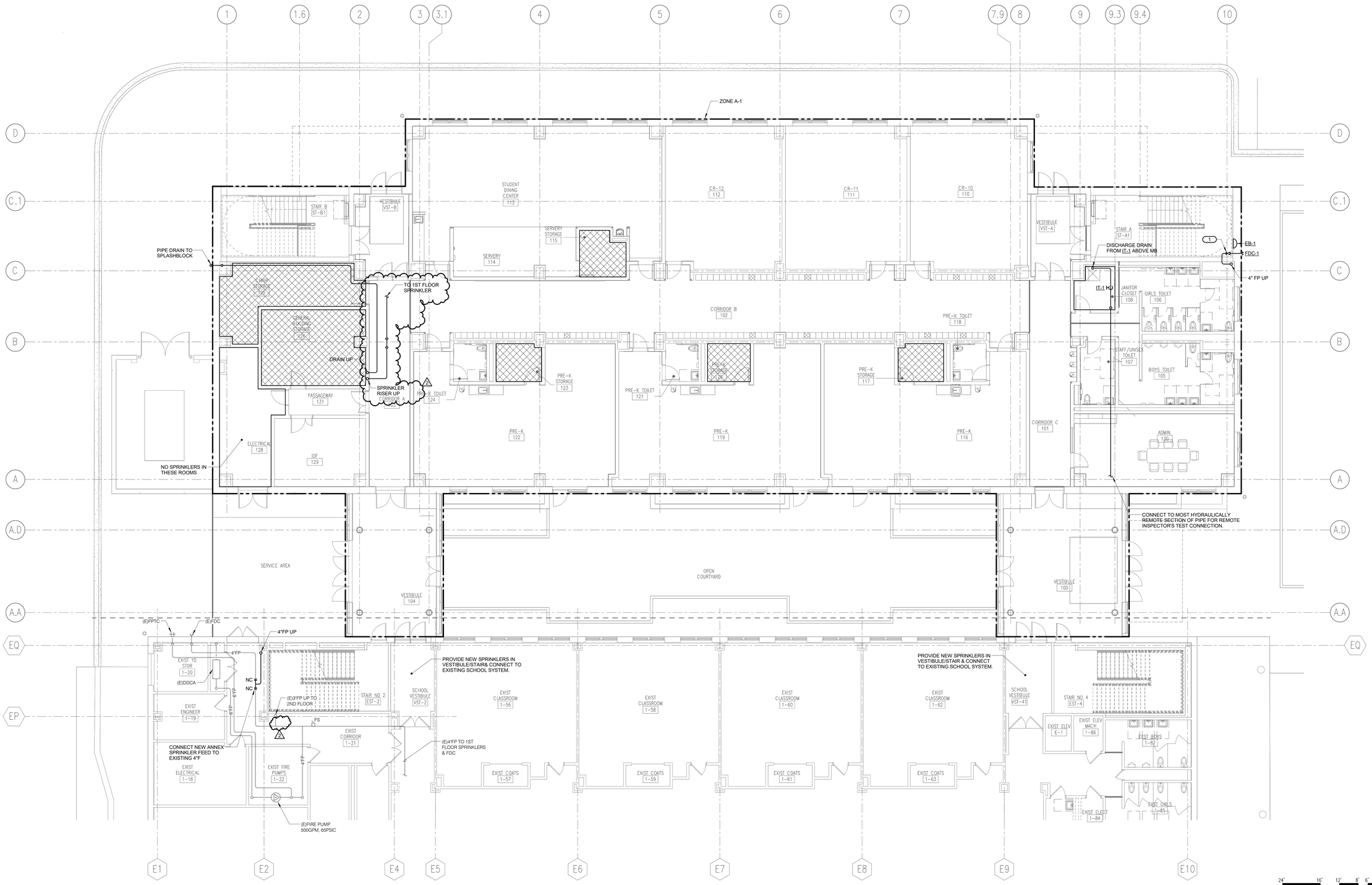
DRAWING NO.
A15.1

GENERAL NOTES :

1. ANY WORK IDENTIFIED IN THE EXISTING BUILDING IS TO BE PERFORMED WHEN SCHOOL IS UNOCCUPIED.

KEYNOTES: (#)

1. CHECK VALVE TO BE LOCATED IN ACCESSIBLE SPACE BELOW STAIR.



1 LEVEL 01 FLOOR PLAN - FIRE PROTECTION

1/8" = 1'-0"

NORTH

N.

24' 16' 12' 8' 6' 4' 2' 0'

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

IMEG
231 SOUTH LASALLE, SUITE 600
CHICAGO, IL 60604
312.294.0501 FAX: 312.294.0003
www.imegcorp.com
PROJECT # 00161225.00
Illinois Design Firm Registration #184007637-0006

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REFERENCE SCALE IN INCHES

0 1 2 3

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1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

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225 W OHIO ST, 4TH FL
CHICAGO, IL 60654
T 312-467-0123

HJKESSLER ASSOCIATES, INC.
3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

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2 N RIVERSIDE PLAZA #1460
CHICAGO, IL 60606
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IRCA
4302 G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

EDGE ASSOCIATES, INC.
150 HOUSTON ST, STE 304
BATAVIA, IL 60510
T 630-326-9547

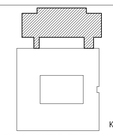
EMILIANO ZAPATA
ACADEMY ANNEX
2728 S KOSTNER AVE
CHICAGO, IL 60623

PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	DATE	DESCRIPTION
	12/12/2016	DESIGN DEVELOPMENT
	02/07/2017	60% CONSTRUCTION DOCUMENTS
	03/14/2017	90% CONSTRUCTION DOCUMENTS
	03/31/2017	ISSUE FOR PERMIT
	04/10/2017	100% CONSTRUCTION DOCUMENTS
	07/28/2017	ISSUE FOR BID
2	08/22/2017	ADDENDUM#2

DRAWN BY: BIM
CHECKED BY: LH/SP
SCALE: 1/8" = 1'-0"
FILE NAME:



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SHEET TITLE

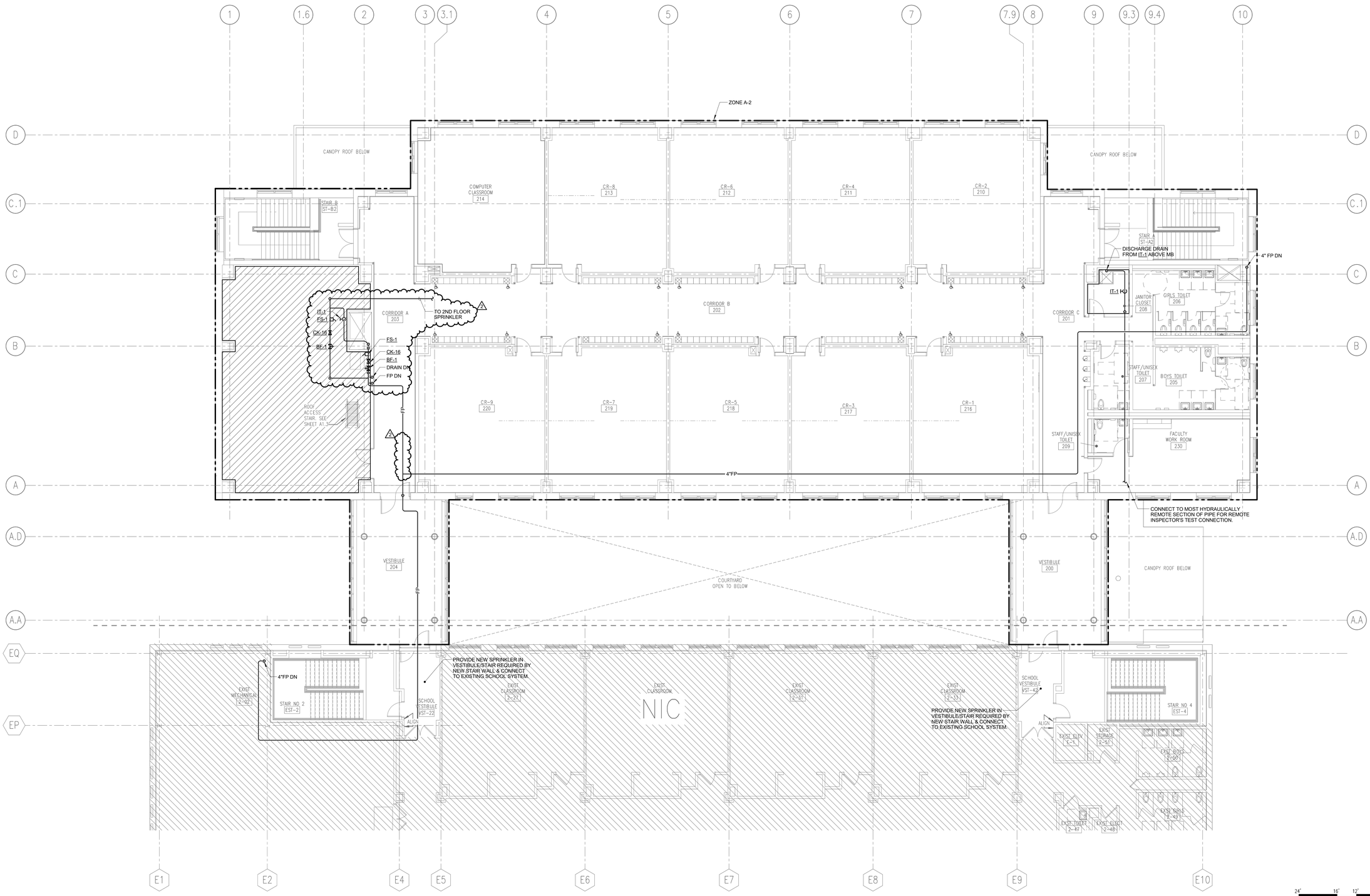
LEVEL 01 FLOOR PLAN - FIRE PROTECTION

DRAWING NO.

F1.1

GENERAL NOTES :

1. ANY WORK IDENTIFIED IN THE EXISTING BUILDING IS TO BE PERFORMED WHEN SCHOOL IS UNOCCUPIED.



1 LEVEL 02 SECOND FLOOR PLAN - FIRE PROTECTION

1/8" = 1'-0"

NORTH

N

24' 16' 12' 8' 6" 4" 2" 0"

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

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ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
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ARCHITECTURE/PLANNING/DESIGN

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231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

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CHICAGO, IL 60654
T 312-467-0123

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CHICAGO, IL 60613
T 773-975-6467

SHEN MILSOM & WILKE LLC
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CHICAGO, IL 60606
T 312-559-4585

IRCA
4302 G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

EDGE ASSOCIATES, INC.
150 HOUSTON ST, STE 304
BATAVIA, IL 60510
T 630-326-9547

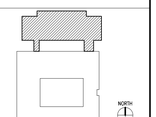
EMILIANO ZAPATA
ACADEMY ANNEX
2728 S KOSTNER AVE
CHICAGO, IL 60623

PBC CONTRACT NO. C1580
PBC PROJECT NO. 05055
PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	DATE	DESCRIPTION
	12/12/2016	DESIGN DEVELOPMENT
	02/07/2017	60% CONSTRUCTION DOCUMENTS
	03/14/2017	90% CONSTRUCTION DOCUMENTS
	03/31/2017	ISSUE FOR PERMIT
	04/10/2017	100% CONSTRUCTION DOCUMENTS
	07/26/2017	ISSUE FOR BID
2	08/22/2017	ADDENDUM#2

DRAWN BY: BIM
CHECKED BY: LH/SP
SCALE: 1/8" = 1'-0"
FILE NAME:



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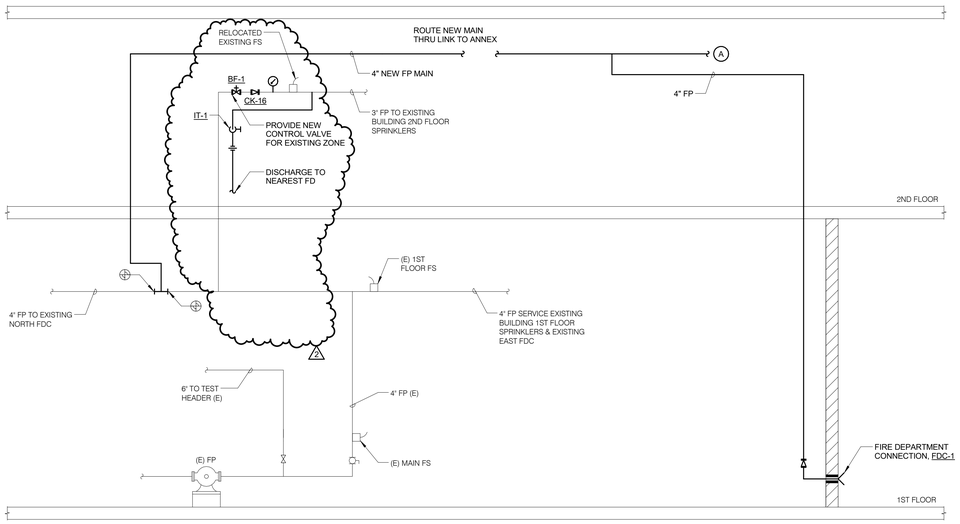
SHEET TITLE
LEVEL 02 FLOOR PLAN - FIRE PROTECTION

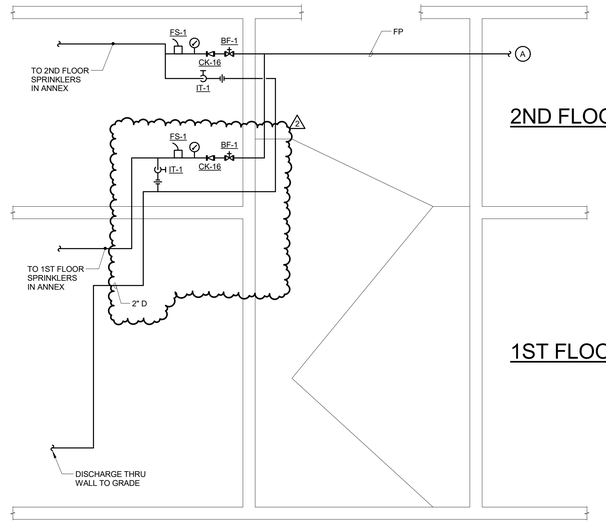
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F1.2

IMEG
231 SOUTH LASALLE, SUITE 600
CHICAGO, IL 60604
312.294.0501 FAX: 312.294.0003
www.imegcorp.com
PROJECT # 00161225.00
Illinois Design Firm Registration #184007637-0006

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REFERENCE SCALE IN INCHES
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1 FIRE PROTECTION RISER DIAGRAM

NO SCALE

Chicago Public Schools

DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

TERRA ENGINEERING, LTD.
225 W OHIO ST, 4TH FL
CHICAGO, IL 60654
T 312-467-0123

HJKESSLER ASSOCIATES, INC.
3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

SHEN MILSOM & WILKE LLC
2 N RIVERSIDE PLAZA #1460
CHICAGO, IL 60606
T 312-559-4585

IRCA
4302 G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

EDGE ASSOCIATES, INC.
150 HOUSTON ST, STE 304
BATAVIA, IL 60510
T 630-326-9547

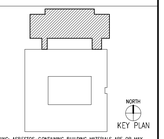
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SHEET TITLE

FIRE PROTECTION RISER DIAGRAM

DRAWING NO.

F2.1

IMEG
231 SOUTH LASALLE, SUITE 600
CHICAGO, IL 60604
312.294.0001 FAX: 312.294.0003
www.imegcorp.com
Illinois Design Firm Registration #184007637-0006
PROJECT # 00161225.00

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REFERENCE SCALE IN INCHES
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GENERAL ELECTRICAL SYMBOLS

	CONDUIT RUN CONCEALED IN CEILING OR WALL
	CONDUIT RUN CONCEALED IN OR BELOW FLOOR
	CONDUIT RUN EXPOSED ON CEILING OR WALL

ARROWHEAD DENOTES HOMERUN TO PANELBOARD. SLASH LINES INDICATE QUANTITY OF WIRE; NEUTRAL WIRE SHOWN AS A LONG LINE, PHASE WIRES AND SWITCH LEGS SHOWN AS SHORT LINES, AND GROUND WIRE SHOWN AS A LONG LINE WITH A DOT.

X — CONDUIT, WHERE "X" IS THE TYPE OR FUNCTION OF CONDUIT.

"C"	INDICATES CLOCK	"S"	INDICATES SOUND
"CO"	INDICATES CONDUIT ONLY	"T"	INDICATES TELEPHONE
"CTV"	INDICATES CCTV	"TVA"	INDICATES TELEVISION ANTENNA
"D"	INDICATES DATA	"TVC"	INDICATES CABLE TELEVISION
"FA"	INDICATES FIRE ALARM		
"I"	INDICATES INTERCOM		
"LV"	INDICATES LOW VOLTAGE		
"NC"	INDICATES NURSE CALL		

	CONDUIT STUBBED UP
	CONDUIT STUBBED DOWN
	FLEXIBLE CONDUIT
XX	CONDUIT TERMINATION: "CS" INDICATES CAP AND STAKE; "GB" INDICATES GROUNDING BUSHING; "IB" INDICATES INSULATING BUSHING; "TB" INDICATES TERMINAL BUSHING
	CONDUIT SEAL
	MULTI-OUTLET DIVIDED WIREWAY FOR POWER AND DATA
CT CT	CABLE TRAY
	UNDERGROUND DUCTBANK
	UNDERGROUND DIRECT BURIAL CABLE
PB	PULL BOX
J	JUNCTION BOX- CEILING OR WALL
E	ELECTRICAL CONNECTION TO EQUIPMENT
J E	JUNCTION BOX WITH FLEXIBLE CONDUIT AND FINAL CONNECTION TO EQUIPMENT.

LIGHTING SYMBOLS

A 1a	2' X 4' LIGHTING FIXTURE.
A 1a	1' X 1' LIGHTING FIXTURE.
A 1a	1' X 4' LIGHTING FIXTURE.
A 1a	INDUSTRIAL LIGHTING FIXTURE- LENGTH AS INDICATED.
A 1a	WALL MOUNTED LIGHTING FIXTURE- LENGTH AS INDICATED.
	LINEAR FLUORESCENT
	WALL MOUNT LIGHTING FIXTURE
A	1' X 4' LIGHTING FIXTURE USED FOR NIGHT LIGHT
A	2' X 4' LIGHTING FIXTURE USED FOR NIGHT LIGHT
EM	BATTERY PACK, EMERGENCY LIGHTING UNIT
EM	REMOTE EMERGENCY HEAD CONNECTED TO BATTERY PACK.

LIGHTING FIXTURES: "A" INDICATES LIGHTING FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MOUNTING. "1" INDICATES CIRCUIT NUMBER "a" INDICATES CONTROL.

#3 Y	EXIT SIGN "#X" INDICATES INSCRIPTION, ARROWS, AND SINGLE OR DOUBLE FACED, AS SHOWN BELOW. SHADED QUADRANTS INDICATES DIRECTION OF LIGHTED FACES. "Y" INDICATES CIRCUIT

#21 Y

SINGLE FACE		DOUBLE FACE	
"#1"	FIRE ESCAPE	"#14"	TRIANGLE
"#2"	STAIRWAY	"#16"	FIRE ESCAPE
"#2A"	STAIRWAY	"#17"	STAIRWAY
"#3"	EXIT	"#18"	EXIT
"#4"	FIRE ESCAPE	"#19"	FIRE ESCAPE
"#5"	STAIRWAY	"#20"	STAIRWAY
"#5A"	STAIRS	"#20A"	STAIRS
"#6"	EXIT	"#21"	EXIT
"#7"	FIRE ESCAPE	"#22"	FIRE ESCAPE
"#8"	STAIRWAY	"#23"	STAIRWAY
"#8A"	STAIRS	"#23A"	STAIRS
"#9"	EXIT	"#24"	EXIT
"#10"	FIRE ESCAPE	"RAS"	AREA OF RESCUE ASSISTANCE
"#11"	STAIRWAY		
"#11A"	STAIRS		
"#12"	EXIT		
"#13"	EXIT - RECESSED		
"#15"	ELEVATOR		
"RAS"	AREA OF RESCUE ASSISTANCE		

NOTES:
1. ALL WORK IS NEW, UNLESS NOTED OTHERWISE
2. ALL CONDUIT IS 3/4" MINIMUM. ALL CONDUCTORS ARE #12 THHN, MINIMUM.

3W XXa — LIGHT SWITCH, SINGLE POLE UNLESS NOTED OTHERWISE:

"a"	INDICATES LIGHTS CONTROLLED	"XX"	INDICATES CIRCUIT NUMBER
"EP"	INDICATES EXPLOSION PROOF	"WP"	INDICATES WEATHERPROOF
"K"	INDICATES KEY OPERATED	"2P"	INDICATES 2 POLE
"P"	INDICATES PILOT LIGHT	"3P"	INDICATES THREE POLE
		"3W"	INDICATES THREE-WAY
		"4W"	INDICATES FOUR-WAY

4B	WALL STATION LIGHTING CONTROL
D	DIMMER WALL STATION
C	LIGHTING CONTACTOR
LS	DAYLIGHT SENSOR
R	LIGHTING DIMMING CONTROLLER RELAY

POWER SYMBOLS

WALL MOUNTED	FLOOR BOX	POKE-THROUGH	CEILING MOUNTED	
				DUPLEX RECEPTACLE
				QUAD RECEPTACLE
IG	IG	IG	IG	IG DUPLEX RECEPTACLE
IG	IG	IG	IG	IG QUAD RECEPTACLE
IG	IG	IG	IG	COMBINATION IG DUPLEX RECEPTACLE, DUPLEX RECEPTACLE AND TELEPHONE/ DATA SYSTEMS OUTLET

WP / XX — ADJACENT LETTERS IN THE SYMBOLS ABOVE INDICATE THE FOLLOWING:

"CR"	INDICATES CHILD RESISTENT (SAFETY TYPE)
"CS"	INDICATES CHARGING STATION
"D"	INDICATES RECEPTACLE ON A DEDICATED CIRCUIT
"E"	INDICATES RECEPTACLE FED BY EMERGENCY CIRCUIT
"EP"	INDICATES RECEPTACLE IS EXPLOSION PROOF
"EWC"	INDICATES RECEPTACLE SERVES ELECTRIC WATER COOLER
"GFI"	INDICATES RECEPTACLE HAS GROUND FAULT CIRCUIT INTERRUPTER
"IG"	INDICATES RECEPTACLE HAS ISOLATED GROUND/ COMPUTER
"TVS"	INDICATES RECEPTACLE HAS TRANSIENT VOLTAGE SURGE SUPPRESSION
"WP"	INDICATES RECEPTACLE HAS WATERPROOF COVER
"XX"	INDICATES RECEPTACLE CIRCUIT NUMBER
"S"	INDICATES RECEPTACLE IS SAFETY TYPE

	DUPLEX RECEPTACLE - MOUNTING HEIGHT ABOVE COUNTER. PER NOTES, DETAILS, ARCH. DWGS.
	CLOCK OUTLET AND CLOCK FOR INTEGRATED CLOCK SYSTEM. "DF" INDICATES DOUBLE FACE CLOCK OUTLET
$ XX	MANUAL MOTOR CONTROL: "M" INDICATES LOCKOUT MOTOR SWITCH; "K" INDICATES KEY OPERATED; "P" INDICATES PILOT LIGHT; "TH" INDICATES THERMAL OVERLOAD PROTECTION; "XX" INDICATES CIRCUIT NUMBER; "2P" INDICATES 2 POLE SWITCH; "3P" INDICATES 3 POLE SWITCH; "T" INDICATES THERMOTOGLE SWITCH
EPO	EMERGENCY "POWER" OFF STATION
	CONTROL PANEL
E	MOTOR - REFER TO EQUIPMENT SCHEDULE
FDS	FUSED DISCONNECT SWITCH
DS	NON-FUSED DISCONNECT SWITCH,
CS	COMBINATION MOTOR STARTER AND NON-FUSED DISCONNECT SWITCH
	VFD PROVIDED BY DIV. 15 INSTALLED BY DIV. 16
	MOTOR STARTER
	SWITCHGEAR, SWITCHBOARD OR MOTOR CONTROL CENTER, DASHED LINES INDICATE FUTURE SECTIONS, ARROW INDICATES FRONT
	SURFACE MOUNTED DISTRIBUTION PANELBOARD
	SURFACE MOUNTED NORMAL BRANCH CIRCUIT PANELBOARD
	RECESSED MOUNTED NORMAL BRANCH CIRCUIT PANELBOARD
	EQUIPMENT BRANCH PANELBOARD (480/277V)
	EMERGENCY BRANCH PANELBOARD
	TECHNICAL PANELBOARD
TR	LOW VOLTAGE TRANSFORMER
EUH	ELECTRIC UNIT HEATER
	TRANSFORMER MOUNTED ON HOUSEKEEPING PAD

SITE SYMBOLS

	PROPOSED POLE
	EXTERIOR LIGHT
#1 A 1a	LED SINGLE ARM POLE MOUNTED.
#1 #2 A 1a	LED DOUBLE ARM POLE MOUNTED.

LIGHTING FIXTURES: "A" INDICATES LIGHTING FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MOUNTING. "1" INDICATES CIRCUIT NUMBER "a" INDICATES SWITCH CONTROL.

A 1a	LED 4 in. WALL -ARM MOUNT LUMINAIRE WITH HORIZONTAL LAMP, FLAT LENS, FULL CUTOFF.
	DOWNLIGHT

SINGLE LINE DIAGRAM SYMBOLS

	PANELBOARD, TOP SHADING CORRESPONDS WITH PANELBOARDS DESCRIBED IN 'POWER SYMBOLS' ABOVE - REFER TO PANELBOARDS SCHEDULE
	SWITCHBOARD, SWITCHGEAR, OR UNIT SUB STATION
	TRANSFORMER - REFER TO TRANSFORMER SCHEDULE
K	KEY LOCK
	CABLE LUGS
	SWITCH
	FUSE
	GROUNDING ELECTRODE CONDUCTOR
	REMOVABLE LINK
	PROVISIONS FOR FUTURE EXPANSION
	CIRCUIT BREAKER
	AUTOMATIC TRANSFER SWITCH
M	UTILITY ELECTRICAL METER MTD. REMOTELY FROM SWITCHBOARD

GENERAL NOTES

1. THE CONTRACTOR PROPOSING TO PERFORM THE ELECTRICAL WORK SHALL VISIT THE JOB SITE AND FULLY FAMILIARIZE HIMSELF/HERSELF OF ALL CONDITIONS THAT AFFECT THE WORK, OR COST THEREOF, AND EXAMINE THE DRAWINGS AND SPECIFICATIONS PRIOR TO SUBMITTING HIS BID.
2. ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.
3. THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THIS CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED. EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, SPECIFICATIONS GOVERN UNLESS THE ARCHITECT/ENGINEER DIRECTS OTHERWISE.
4. THE ELECTRICAL CONTRACTOR SHALL CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO INSURE THAT NO FIXTURE, LIGHT SWITCH, CONTROL AND POWER WIRING IS OMITTED. HE/SHE SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA. IN SOME CASES EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN ONLY. ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQUIRED FOR THE PROPER FUNCTION OF BUILDING EQUIPMENT. NO EXTRA CHARGES SHALL BE ACCEPTED BY OWNER AFTER BIDDING FOR SUCH EQUIPMENT AND LABOR.
5. EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO INSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.
6. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE APPLICABLE CODES AND REGULATIONS.
7. PROVIDE TEMPORARY POWER AND LIGHTING AND ASSOCIATED DEVICES AND WIRING AS REQUIRED DURING CONSTRUCTION.
8. PREPARE AND SUBMIT 1/4" SCALE INSTALLATION DRAWINGS PRIOR TO ORDERING EQUIPMENT AND ROUGHING FEEDERS. LOCATE ALL ELECTRICAL EQUIPMENT, INDICATE CLEARANCES AND ROUTING OF ALL UNDERGROUND AND OVERHEAD FEEDERS.
9. UTILIZE THE SERVICES OF THE MANUFACTURER'S TECHNICAL REPRESENTATIVE FOR EACH ELECTRICAL SYSTEM FOR GUIDANCE DURING THE PREPARATION OF SHOP DRAWINGS, INSTALLATION, WIRING, TESTING AND COMISSIONING.
10. COORDINATE WORK WITH OTHER TRADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS AND OTHER STRUCTURAL FEATURES.
11. CONDUIT RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC. PROVIDE CONDUITS CONCEALED IN FLOOR, WALLS, ACCESSIBLE CEILINGS AND EXPOSED IN EQUIPMENT ROOMS. FOR OUTDOOR LOCATIONS USE IMC CONDUITS AND WP BOXES. EXPOSED CONDUIT/RACEWAY IN FINISHED SPACES SHALL NOT BE USED WITHOUT ARCHITECT/OWNER'S APPROVAL.
12. SEAL ALL WALL AND FLOOR CONDUIT PENETRATIONS TO PRESERVE THE ROOM FIRE RATING.
13. ALL OUTDOOR ENCLOSURES SHALL BE NEMA 3R CORROSION RESISTANT AND GASKETED.
14. ELECTRICAL EQUIPMENT SHALL NOT BE INSTALLED BELOW WATER PIPES. IF THIS IS NOT POSSIBLE PROVIDE LEAK DETECTORS WITH GALVANIZED METALS SHIELDS (DRIP PANS) TO DEFLECT ALL WATER SPRAY AWAY FROM SUCH EQUIPMENT. LEAK DETECTOR ALARMS SHALL BE MOUNTED IN THE SCHOOL ENGINEER'S ROOM.
15. FOR BRANCH CIRCUITS, PROVIDE WIRE SIZE AS SHOWN BELOW BASED ON LENGTH OF CIRCUIT:

    UP TO 50 FT USE #12 AWG
    50 FT TO 70 FT USE #10 AWG
    OVER 70 FT USE #8 AWG OR LARGER TO LIMIT THE VOLTAGE DROP TO MAXIMUM 3% AT THE FARTHEST OUTLET.

16. CIRCUITS ARE SIZED ASSUMING NO MORE THAN FOUR CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT. FOR CONDUITS CONTAINING MORE THAN FOUR, PROVIDE APPROPRIATE DERATING OF CONDUCTORS PER CHICAGO CODE.
17. THIS SHEET OF SYMBOLS AND NOTES IS A STANDARD LIST. NOT ALL ITEMS MAY BE USED OR APPLY TO THIS SPECIFIC JOB.
18. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHT OF ALL WIRING DEVICES, OUTLETS, LIGHTING FIXTURES, LIFE SAFETY SPEAKERS, SMOKE DETECTORS, ETC.
19. REFER TO PANEL DIVISION LINES FOR BRANCH CIRCUIT HOMERUN PANELBOARD DESIGNATION, UNLESS NOTED OTHERWISE.
20. MANUAL PULL STATIONS SHALL BE PROVIDED WITH PROTECTIVE COVER. LIFTING THE COVER SHALL ACTIVATE AN INTEGRAL BATTERY-POWERED AUDIBLE HORN.

    ALL WORK RELATED TO EXISTING SYSTEMS SUCH AS FIRE ALARM, LOW VOLTAGE SYSTEMS, POWER OUTAGES, ETC. SHALL BE PERFORMED WITHOUT ANY DISRUPTION OF THEIR OPERATION DURING TIMES WHEN EXISTING SCHOOL IS OCCUPIED.
21. ALL WORK SHALL BE COORDINATED WITH THE SCHOOL ENGINEER AND SCHOOL STAFF. ALL WORK SHALL BE PERFORMED AT TIMES APPROVED BY THE SCHOOL ENGINEER AND SCHOOL STAFF.

COMMUNICATIONS

WALL MOUNTED	CEILING MOUNTED	
H		HDMI CONNECTION
S	S	SPEAKER
S P	S P	PAGING SPEAKER
S		CLASSROOM INTERCOM SPEAKER/MICROPHONE
		INTERCOM, WALL MOUNTED AT 42" A.F.F.
	MD	MOTION DETECTOR - 9'-0" AFF FOR CEILINGS GREATER THAN 9'-6" - OR 6" BELOW CEILING WHEN LESS THAN 9'-6"

CR	CARD READER
ES	ELECTRIC STRIKE
DC	DOOR CONTACT
DR	DOOR RELEASE
KP	KEYPAD
DB	DOORBELL
T	TRANSFORMER

WALL MOUNTED	FLOOR BOX	POKE-THROUGH	CEILING MOUNTED	SUBSCRIPT INDICATES THE FOLLOWING FOR BELOW WALL MOUNTED OUTLETS, (U.N.O.):
				"H" HANDICAP MOUNTED AT 48" AFF. "P" PAY PHONE MOUNTED AT 54" AFF. "W" WALL MOUNTED AT 54" AFF. "M" AUTOMATIC METER READER OUTLET "AS" ATTENDANCE SWIPE "K" FOR KRONOS
				TELEPHONE OUTLET
				DATA SYSTEMS OUTLET

ADM	ADMINISTRATIVE INTERCOM MASTER STATION
CCE	CLASSROOM CONCENTRATOR ENCLOSURE
LCE	LAB AND LIBRARY CONCENTRATOR ENCLOSURE
SCE	SHARED CONCENTRATOR BOX
TCE	THREE CLASSROOM CONCENTRATOR ENCLOSURE
ACE	ADMINISTRATIVE CONCENTRATOR ENCLOSURE
CCTV PTZ	CLOSED CIRCUIT TELEVISION CAMERA PAN TILT ZOOM
CCTV	CLOSED CIRCUIT TELEVISION CAMERA
CCTV WG	CLOSED CIRCUIT TELEVISION CAMERA WIRE GUARD
CRE	CCTV REMOTE ENCLOSURE
	CABLE TELEVISION, CATV
DB	DOOR BELL
PP	PUSH PLATE FOR ADA DOOR OPERATOR
AP	AIPHONE
EMER	EMERGENCY DOOR BELL
WP	VANDAL RESISTANT WEATHER PROOF PUSH-BUTTON FOR INTERCOM

SENSOR LEGEND

PP	POWER PACK WITH RELAY CIRCUIT PROTECTION
$ OS	LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY OCCUPANCY SENSORS
PS	PHOTO SENSOR DAYLIGHT
DS	LOW VOLTAGE WALL MOUNT WIDE VIEW SENSOR DUAL TECHNOLOGY USE OPTION WV-BR FOR CEILING MOUNTING
OS	LOW VOLTAGE CEILING MOUNT SENSOR: DUAL TECHNOLOGY
PC	PHOTOCELL

1. SENSORS IN ELECTRICAL/MECHANICAL LOCATIONS NEED TO BE VERIFIED WITH AUTHORITY HAVING JURISTICTION.
2. ONE POWER PACK IS NEEDED PER CIRCUIT /ZONE TO BE CONTROLLED BY LOW VOLTAGE SENSORS. PLEASE RECHECK COUNTS TO VERIFY THE NUMBER OF POWER PACKS NEEDED TO MAKE A COMPLETE SYSTEM.
3. ADDITIONAL SENSORS MAY BE REQUIRED TO PROVIDE COMPLETE COVERAGE DEPENDING ON PARTITION, FURNITURE, AND SHELVING PLACEMENT.
4. LIGHTING CONTROL SYSTEM COMPONENTS AND QUANTITY OF DEVICES MAY VARY WITH THE MANUFACTURER. PROVIDE ALL COMPONENTS AND WIRING AS REQUIRED BY MANUFACTURER FOR A COMPLETE FUNCTIONAL SYSTEM.

WIRING NOTES

A. BRANCH CIRCUIT WIRING FOR 120 VOLT 20 AMP CIRCUITS WIRED TO 208Y/120V SYSTEMS SHALL BE ADJUSTED FOR DISTANCE VOLTAGE DROP AND LOAD HARMONIC CONTENTS AS FOLLOWS:

1. GENERAL RECEPTACLES, INCANDESCENT LIGHTING, AND RESISTIVE LOADS:
   UP TO 50 FEET IN LENGTH: 3#12, 1#12N, 1#12G - 3/4"C
   50 FEET TO 70 FEET IN LENGTH: 3#10, 1#10N, 1#10G - 3/4"C
   OVER 70 FEET IN LENGTH: 3#8, 1#8N, 1#10G - 3/4"C
2. COMPUTER RECEPTACLES, FLUORESCENT AND HID LIGHTING, AND INDUCTIVE LOADS:
   UP TO 50 FEET IN LENGTH: 3#12, 1#10N, 1#12G - 3/4"C
   50 FEET TO 70 FEET IN LENGTH: 3#10, 1#8N, 1#10G - 3/4"C
   OVER 70 FEET IN LENGTH: 3#8, 1#8N, 1#8G - 3/4"C

TRADE SIZE *	CABLE OUTSIDE DIAMETER cm (in.)									
	0.33 (0.13)	0.46 (0.18)	0.56 (0.22)	0.61 (0.24)	0.74 (0.29)	0.79 (0.31)	0.94 (0.37)	1.35 (0.53)	1.58 (0.62)	178 (0.70)
1/2	1	1	0	0	0	0	0	0	0	0
3/4	6	5	4	3	2	2	1	0	0	0
1	8	8	7	6	3	3	2	1	0	0
1 1/4	16	14	12	10	6	4	3	1	1	1
1 1/2	20	18	16	15	7	6	4	2	1	1
2	30	26	22	20	14	12	7	4	3	2
2 1/2	45	40	36	30	17	14	12	6	3	3
3	70	60	50	40	20	20	17	7	6	6
3 1/2	-	-	-	-	-	-	22	12	7	6
4	-	-	-	-	-	-	30	14	12	7

* CPS STANDARD MIN. - 3/4"C

1. CATEGORY 5e CABLE APPROXIMATELY SIZED AT .22" O.D. CATEGORY 6 APPROXIMATELY SIZED AT 0.24/0.26" O.D. VERIFY WITH APPROVED MANUFACTURER PRODUCT.
2. CABLE TABLE 5.9 FROM 2000 BICSI TDMM, 10TH EDITION MANUAL, CH. 5 HORIZONTAL CABLING SYSTEM. INCORPORATES GUIDELINES FROM ANSI/ TIA/EIA - 569-B

RESCUE ASSISTANCE SYMBOLS

RAAP	RESCUE ASSISTANCE ANNUNCIATOR PANEL
RACP	RESCUE ASSISTANCE CONTROL PANEL
RA	RESCUE ASSISTANCE COMMUNICATION
RAS	RESCUE ASSISTANCE SIGN

FIRE ALARM SYMBOLS

A	AUDIBLE GENERAL ALARM
V	VISUAL STROBE
AV	GENERAL ALARM DEVICE WITH VISUAL DEVICE
S	FIRE ALARM MANUAL PULL STATION
SD	SMOKE DETECTOR
D	HEAT DETECTOR
DD	DUCT DETECTOR
RI	REMOTE INDICATOR LIGHT FOR SMOKE DETECTOR
EOL	END OF LINE DEVICE
WFS	WATER FLOW SWITCH
VSS	VALVE SUPERVISION SWITCH
	MAGNETIC DOOR HOLD OPEN
DHR	DOOR HOLDER RELAY PANEL
FA	CITY FIRE ALARM BOX
CBT	CITY FIRE ALARM BOX TIE AND DISCONNECT PANEL
TB	TROUBLE BELL
ST	TEST AND SILENCE SWITCH WITH LAMP
FAAP	FIRE ALARM ANNUNCIATOR PANEL
DAAP	DUCT DETECTOR ALARM ANNUNCIATION PANEL
SAAP	SPRINKLER ALARM ANNUNCIATION PANEL
FACP	FIRE ALARM CONTROL PANEL
SSCP	SPRINKLER SUPERVISORY CONTROL PANEL
DDCP	DUCT DETECTOR CONTROL PANEL
CO	CARBON MONOXIDE DETECTOR
EB	ELECTRIC BELL FOR SIAMESE CONNECTION (120V)
MM	MONITOR MODULE

ABBREVIATIONS

NOTE: ABBREVIATIONS ARE ALPHABETICALLY LISTED BY DESCRIPTION.

ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
ACL	ACROSS THE LINE
ALM	ALARM
AC	ALTERNATING CURRENT
A	AUXILARY CONTACTS
AMP	AMPERE
AIC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
ANN	ANNUNCIATOR
ATS	AUTOMATIC TRANSFER SWITCH
BAL	BALLAST
BAS	BUILDING AUTOMATION SYSTEM
BR	BRANCH
BRKR	BREAKER
BGB	BUILDING GROUND BOX
CAB	CABINET
CATV	CABLE TELEVISION
C.B.	CIRCUIT BREAKER
CBT	CITY TIE BOX
CCT	CIRCUIT
CCTV	CLOSED CIRCUIT TELEVISION
CLO	CLOSET
COAX	COAXIAL
C.U.	COEFFICIENT OF UTILIZATION
CECO	COMMONWEALTH EDISON COMPANY
C	CONDUIT
CONN	CONNECTION
CONV	CONVENIENCE
CR	CHILD RESISTANT
CU	COPPER
CUH	CABINET UNIT HEATER
CT	CURRENT TRANSFORMER
HZ	HERTZ (CYCLES/SECOND)
DC	DIRECT CURRENT
DHR	DOOR HOLDER RELAY PANEL
DS	DISCONNECT SWITCH
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DO	DRAWOUT
DT	DUSTTIGHT
E.C.	ELECTRICAL CONTRACTOR
ECP	ELEVATION CONTROL PANEL
ELEC	ELECTRIC
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING (THIN WALL CONDUIT)
EQ	EQUIPMENT
EUH	ELECTRIC UNIT HEATER
EX	EXISTING
EP	EXPLOSION PROOF
FPB	FAN POWERED BOX
FA	FIRE ALARM
FDC	FIRE DEPARTMENT CONNECTION
FB	FLOORBOX
FLUOR	FLUORESCENT
F	FUSE
F.S.	FUSED SWITCH
GEN	GENERATOR
GRD	GROUND
GFI	GROUND FAULT INTERRUPTER
GHW	GALVANIZED HEAVYWALL STEEL CONDUIT
HD	HAND DRYER
HV	HIGH VOLTAGE
HP	HORSE POWER
INC	INCANDESCENT
IC	INTERRUPTING CAPACITY
IMC	INTERMEDIATE GRADE CONDUIT
JB	JUNCTION BOX
KW	KILOWATT
KWH	KILOWATT-HOUR
KVA	KILOVOLT-AMPERE
KO	KNOCKOUT
LTG	LIGHTING
LS	LOUD SPEAKER
LV	LOW VOLTAGE
MH	MANHOLE
MFR	MANUFACTURER
MV	MULTI VAPOR
MERC.	MERCURY VAPOR
MTR	MOTOR
MCC	MOTOR CONTROL CENTER
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NEUT	NEUTRAL
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OEMC	OFFICE OF EM MANAGEMENT
PNL	PANEL
PH	PHASE
PT	POTENTIAL TRANSFORMER
PWR	POWER
PRI	PRIMARY
PROT.	PROTECTION OR PROTECTIVE
PA	PUBLIC ADDRESS
PB	PULL BOX
RT	RAINTIGHT
RECP	RECEPTACLE
RC	REMOTE CONTROL
R	RESISTANCE
SEC	SECONDARY
SC	SHORT CIRCUIT
SP	SINGLE POLE
SPST	SINGLE POLE SINGLE THROW
SPKR	SPEAKER
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STA	STATION
S	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
SYS	SYSTEM
TC	TERMINAL CABINET
TEL	TELEPHONE
TEL CL.	TELEPHONE CLOSET
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TERM.	TERMINAL
TP	TECHNICAL PANEL
TX	TRANSFORMER
T	TRIP
TL	TWIST LOCK
UL	UNDERWRITER'S LABORATORIES
UNG	UNGROUNDED
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VP	VAPORPROOF
VT	VAPORTIGHT
V	VOLT
VA	VOLT-AMPERE
W	WATT
WG	WIREGUARD
WP	WEATHERPROOF
WT	WATERTIGHT

IMEG CORP.
231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

TERRA ENGINEERING, LTD.
225 W OHIO ST, 4TH FL
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T 312-467-0123

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3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

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T 312-559-4585

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T 815-385-6560

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BATAVIA, IL 60510
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T 312-782-4486

DEPARTMENT OF FACILITIES
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ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

EMILIANO ZAPATA
ACADEMY ANNEX

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9	2	08/22/2017	ADDENDUM#2

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FILE NAME:

NORTH
KEY PLAN

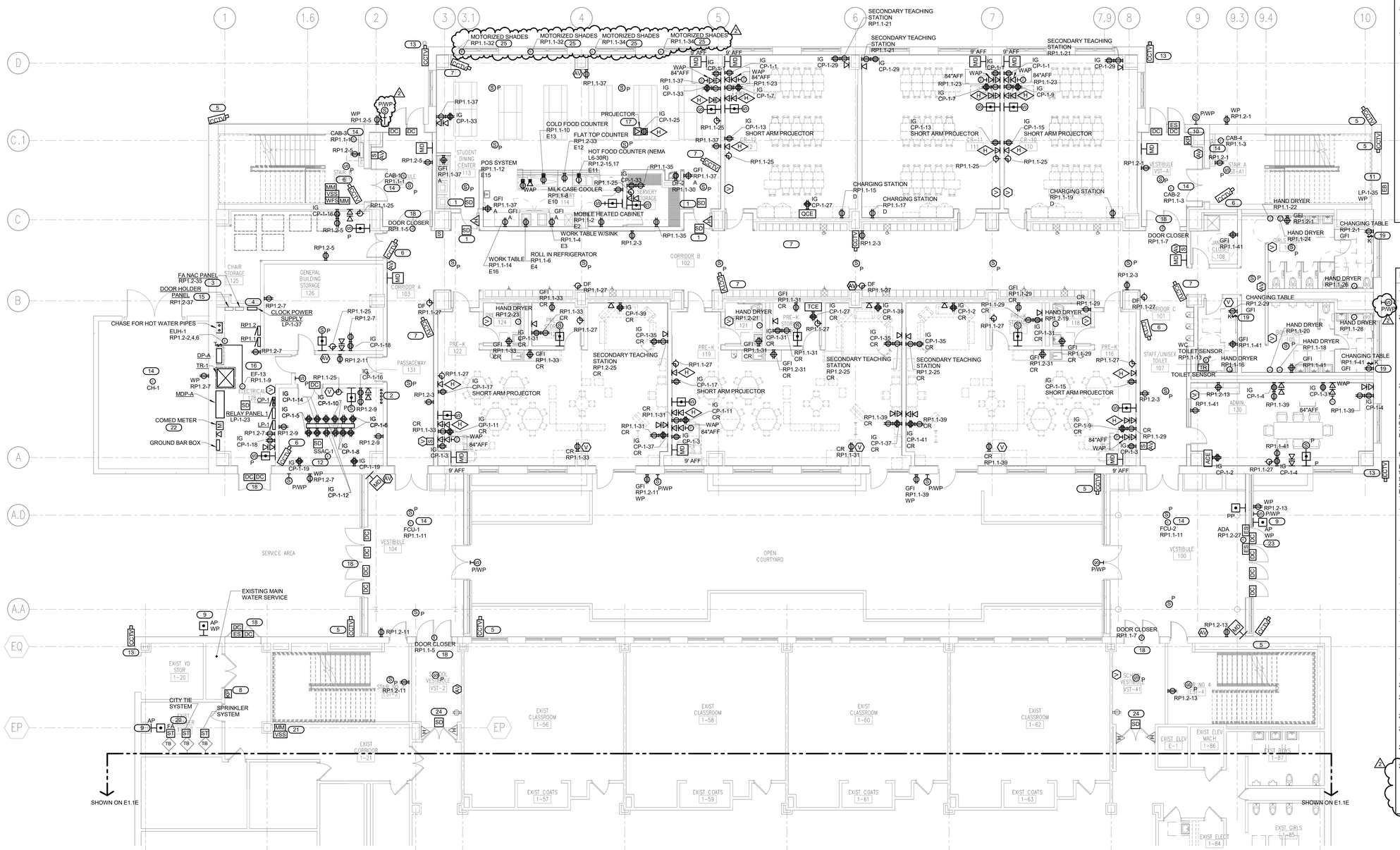
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SHEET TITLE
ELECTRICAL SYMBOLS AND NOTES

DRAWING NO.
E0.1

IMEG
231 SOUTH LASALLE, SUITE 600
CHICAGO, IL 60604
312.294.0501 FAX: 312.294.0003
www.imegcorp.com
PROJECT # 00161225.00
Illinois Design Firm Registration #184007637-0006

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LEVEL 01 FLOOR PLAN - POWER & SYSTEMS

1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR GENERAL ELECTRICAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. REFER TO SHEET SERIES E3.00 FOR ELECTRICAL DIAGRAMS.
3. REFER TO SERIES E5.00 FOR ELECTRICAL SCHEDULES.
4. REFER TO SERIES E7.00 FOR ELECTRICAL DETAILS.
5. INTRUSION DETECTION SYSTEM IN THE ANNEX SHALL BE INTEGRATED WITH MAIN BUILDING. REPLACE EXISTING VISTA 50 WITH VISTA 128 PANEL. INTEGRATE ALL EXISTING ZONES INTO NEW PANEL. PROVIDE NEW ZONE/LOOP EXPANDER INTO THE IDF ROOM TO CONNECT NEW DEVICES IN THE ANNEX. PROVIDE IP COMMUNICATOR. PROVIDE ALARM SIGNAL FROM FACP TO SECURITY PANEL TO INDICATE FIRE ALARM MODE.
6. PROVIDE NEW DVS SYSTEM GENETIC SECURITY DESK SOFTWARE (MOST CURRENT VERSION IN USE BY CPS-OSSS) FOR SECURITY CAMERAS. PROVIDE NEW SECURITY CAMERAS IN THE ANNEX. EXISTING CAMERAS IN THE MAIN BUILDING SHALL BE REPLACED WITH NEW AND RECONNECTED INTO THE NEW SYSTEM.
7. THE INTERCOM /CLOCK SYSTEM IN THE ANNEX SHALL BE INTEGRATED INTO THE MAIN BUILDING INTERCOM HEAD-END. PROVIDE A NEW REMOTE HEAD-END IN THE MDF ROOM TO REPLACE EXISTING. PROVIDE EQUIPMENT IN THE IDF ROOM CONNECT ALL NEW DEVICES IN THE ANNEX. CONNECT THE TWO HEAD-ENDS IN BOTH BUILDINGS.
8. PROVIDE NEW AIPHONE SYSTEM TYPE AX TO REPLACE EXISTING SYSTEM AND EXPAND INTO THE ANNEX. PROVIDE NEW AIPHONE MASTER AND DOOR STATIONS AS SHOWN ON PLANS.
9. EXACT DEVICE LOCATION AND MOUNTING HEIGHTS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
10. CONSOLIDATE TEACHING WALL TECHNOLOGY OUTLETS TO CONFORM MORE TO CPS DESIRED LOCATION. TEACHER'S OUTLET STATIONS SHOULD BE APPROXIMATELY 5' FROM EXTERIOR WALL. SHORT ARM PROJECTOR SHALL BE CENTERED ABOVE THE BOARD ON TEACHER'S WALL. COORDINATE EXACT LOCATION WITH ARCHITECT
11. PROVIDE 4" HOUSING KEEPING PAD FOR ALL FLOOR MOUNTED EQUIPMENT.
12. DEVICES MOUNTED BACK TO BACK ON WALLS SHALL BE INSTALLED AT A MINIMUM 24" APART, REFER TO DETAIL E7.5/7; OTHERWISE ACOUSTICAL SEPARATION SHALL BE PROVIDED BY USING A MINIMUM 1/8" THICK SOUND BARRIER INSULATION PAD, MASTIC NON-HARDENING SHEET MATERIAL APPLIED TO ALL FIVE SIDES OF BACK BOXES.
13. ALL INTERIOR CAMERAS SHALL BE MOUNTED AT 9' 0"AFF AND EXTERIOR CAMERAS SHALL BE MOUNTED AT BETWEEN 12'-15' AFF. COORDINATE WITH ARCHITECTURAL DRAWINGS.

KEYNOTES: (#)

1. SMOKE DETECTOR FOR DOOR RELEASE SHALL SEND A SUPERVISORY SIGNAL TO FACP UPON RELEASING THE DOORS. GENERAL FIRE ALARM SHALL CLOSE THE DOORS.
2. PROVIDE (5) 2" CONDUITS TO MDF ROOM FOR INTERCONNECTION OF LOW VOLTAGE SYSTEMS: INTERCOM, VOICE, DATA, SECURITY, CABLE TV, AND SPARE.
   VOICE: 100 PAIR TIE CABLE IN 2"C.
   DATA: 12 STRAND FIBER & SECURITY 6 STRAND FIBER IN 2"C.
   CABLE TV: RG11 COAX IN 2"C.
   INTERCOM: VERIFY CABLE TYPE WITH PROVIDER IN 2"C.
   SPARE: 2"C.
3. PROVIDE NEW FIRE ALARM TRANSPONDER NAC PANEL. CONNECT INTO NEW FIRE ALARM PANEL IN EXISTING BUILDING PROVIDE MINIMUM 1"C.
4. PROVIDE BOOSTER POWER SUPPLY FOR CLOCKS.
5. CAMERA SHALL BE AXIS P3225LVE.
6. CAMERA SHALL BE AXIS 3045V.
7. CAMERA SHALL BE AXIS P3225LV.
8. PROVIDE NEW SECURITY KEYPAD TO REPLACE EXISTING. FIELD VERIFY LOCATION CONNECT INTO SECURITY SYSTEM.
9. PROVIDE NEW AIPHONE DOOR INTERCOM AND MASTER STATION DESK MOUNTED IN LOCATIONS SHOWN ON DRAWINGS. NEW WIRING AND CONDUIT. NEW AIPHONE AX SYSTEM SHALL BE PROVIDED PER SPECIFICATIONS. VERIFY EXACT MOUNTING LOCATION WITH ARCHITECURAL DRAWINGS.
10. PROVIDE NEW KEYPAD SECURITY CONNECT INTO SECURITY SYSTEM.
11. PROVIDE 120V ELECTRIC BELL BY THE WATER CONNECTION FOR SPRINKLER SIAMESE CONNECTION. INSTALL 10' AFF. FIELD COORDINATE EXACT LOCATION. PROVIDE 120V FOR ELECTRIC BELL.
12. PROVIDE POWER TO SSAC-1 FROM CU-1 LOCATED ON ROOF. PROVIDE ALL WIRING AND CONDUIT. DISCONNECT PROVIDED BY MANUFACTURER. PROVIDE POWER TO CONDENSATE PUMP PER MANUFACTURER'S RECOMMENDATION.
13. CAMERA SHALL BE AXIS Q6045E.
14. UNIT PROVIDED WITH CONTROLS AND DISCONNECT BY MANUFACTURER. FIELD COORDINATE EXACT LOCATION.
15. CONNECT DOOR HOLDER RELAY PANEL INTO THE FIRE ALARM SYSTEM.
16. UNIT PROVIDED WITH DISCONNECT.
17. PROJECTOR, DATA AND RECEPTACLES TO BE CEILING MOUNTED APPROXIMATELY 12'-14' FROM PROJECTING WALL. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT
18. COORDINATE WORK RELATED TO DOOR CLOSER WITH ARCHITECT.
19. PROVIDE RECEPTACLES AND ASSOCIATED KEY-SWITCH FOR CHANGING TABLES. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
20. REPLACE EXISTING TROUBLE BELLS SWITCHES WITH NEW COMPATIBLE WITH NEW SYSTEM.
21. PROVIDE VALVE SUPERVISORY SWITCH FOR NEW CONNECTION. COORDINATE EXACT LOCATION.
22. PROVIDE METER AND ENCLOSURE PER COMED SPECIFICATIONS.
23. DOOR INTERCOM AIPHONE SHALL OPERATE ADA DOOR SEPERATE FROM 2ND DOOR. PROVIDE A CAT 5 CABLE FOR EACH DOOR.
24. PROVIDE SMOKE DETECTOR FOR DOOR HOLD OPERATION. INSTALL WITHIN 5' OF DOOR AND CONNECT TO FIRE ALARM SYSTEM.
25. PROVIDE POWER FOR MOTORIZED WINDOW SHADES. COORDINATE WORK WITH MANUFACTURER. PROVIDE ASSOCIATED WIRING, CONDUITS AND BOXES. INSTALL CONTROLLS PER MANUFACTURER RECOMMENDATION COORDINATE LOCATION WITH USER.

DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
231 S LASALLE ST, STE 600
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T 312-294-0501

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T 312-559-4585

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MCHENRY, IL 60050
T 815-385-6560

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KEY PLAN

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SHEET TITLE

LEVEL 01 FLOOR PLAN - POWER & SYSTEMS

DRAWING NO.

E1.1

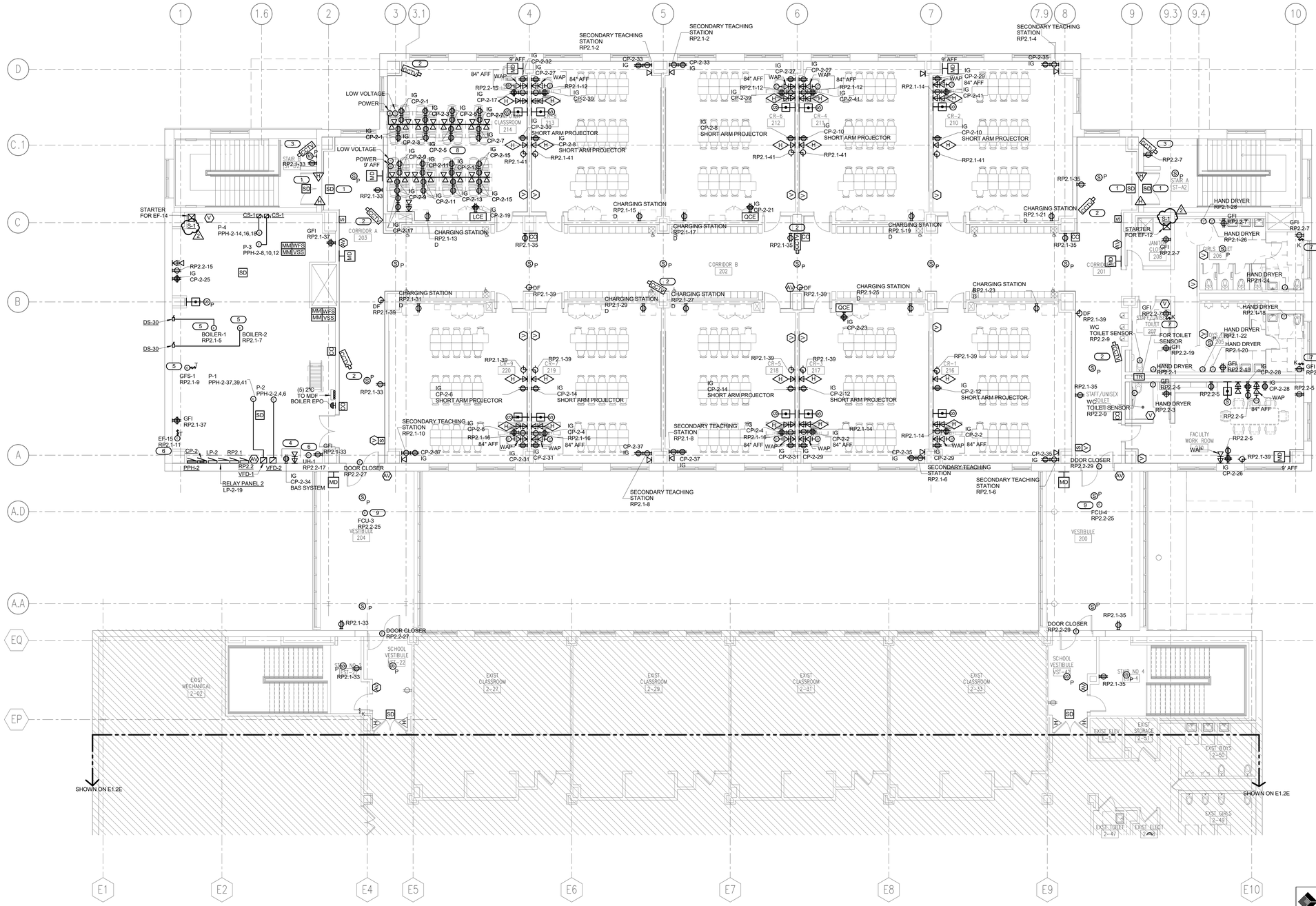
IMEG
231 SOUTH LASALLE, SUITE 600
CHICAGO, IL 60604
312.294.0501 FAX: 312.294.0003
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REFERENCE SCALE IN INCHES
0 1 2 3

N

24' 16' 12' 8' 6' 4' 2' 0"
SCALE: 1/8" = 1'-0"



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14. ALL INTERIOR CAMERAS SHALL BE MOUNTED AT 9' 0"AFF AND EXTERIOR CAMERAS SHALL BE MOUNTED AT 12' 0"AFF.

KEYNOTES: (#)

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2. CAMERA SHALL BE AXIS P3225LV.
3. CAMERA SHALL BE AXIS M3045V.
4. PROVIDE DEDICATED POTS OR CENTREX PHONELINE FOR DDC SYSTEM CONNECT INTO IDF ROOM. FIELD COORDINATE LOCATION.
5. UNIT PROVIDED WITH CONTROLS/STARTER.
6. UNIT PROVIDED WITH DISCONNECT.
7. PROVIDE RECEPTACLES AND ASSOCIATED KEY-SWITCH FOR CHANGING TABLES. COORDINATE EXACT LOCATION WITH ARCHITECTURAL.
8. FOR COMPUTER WORKSTATIONS PROVIDE POWER WIRING IN SEPARATE RACEWAY FROM LOW VOLTAGE. USE FURNITURE RACEWAYS. PROVIDE ALL BOXES RECEPTACLES AND DATA OUTLETS.
9. UNIT PROVIDED WITH DISCONNECT AND CONTROLS.

1 LEVEL 02 FLOOR PLAN - POWER & SYSTEMS

1/8" = 1'-0"

NORTH

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

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FILE NAME:

KEY PLAN

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SHEET TITLE

LEVEL 02 FLOOR PLAN - POWER & SYSTEMS

DRAWING NO.

E1.2

IMEG
231 SOUTH LASALLE, SUITE 600
CHICAGO, ILLINOIS
312.294.0501 FAX: 312.294.0003
www.imegcorp.com
PROJECT # 00161225.00
Illinois Design Firm Registration #184007637-0006

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REFERENCE SCALE IN INCHES
0 1 2 3

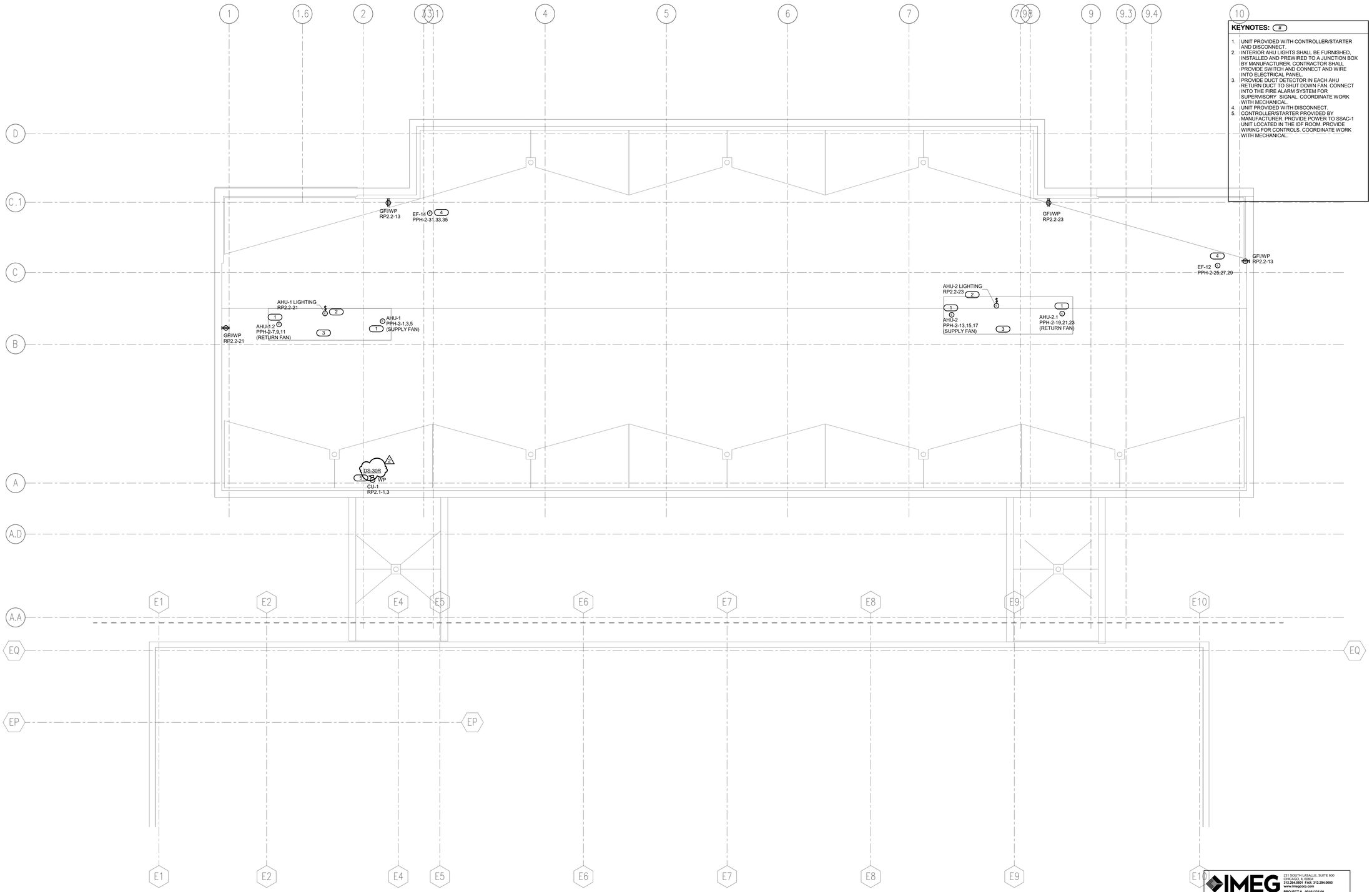
24' 16' 12' 8' 6' 4' 3' 0'

GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
2. REFER TO SHEET E3.1 FOR RISER DIAGRAM AND SHEET SERIES E5 FOR SCHEDULES.
3. EXACT DEVICE LOCATION AND MOUNTING HEIGHT SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
4. DEVICES ON THE ROOF SHALL BE WEATHER RESISTANT.

KEYNOTES: (#)

1. UNIT PROVIDED WITH CONTROLLER/STARTER AND DISCONNECT.
2. INTERIOR AHU LIGHTS SHALL BE FURNISHED, INSTALLED AND PREWIRED TO A JUNCTION BOX BY MANUFACTURER. CONTRACTOR SHALL PROVIDE SWITCH AND CONNECT AND WIRE INTO ELECTRICAL PANEL.
3. PROVIDE DUCT DETECTOR IN EACH AHU RETURN DUCT TO SHUT DOWN FAN. CONNECT INTO THE FIRE ALARM SYSTEM FOR SUPERVISORY SIGNAL. COORDINATE WORK WITH MECHANICAL.
4. UNIT PROVIDED WITH DISCONNECT.
5. CONTROLLER/STARTER PROVIDED BY MANUFACTURER. PROVIDE POWER TO SSAC-1 UNIT LOCATED IN THE IDF ROOM. PROVIDE WIRING FOR CONTROLS. COORDINATE WORK WITH MECHANICAL.



1 ROOF PLAN - ELECTRICAL

1/8" = 1'-0"

NORTH

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

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231 SOUTH LASALLE, SUITE 600
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24' 16' 12' 8' 6' 4' 2' 0"

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

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ARCHITRAVE
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2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

TERRA ENGINEERING, LTD.
225 W OHIO ST, 4TH FL
CHICAGO, IL 60654
T 312-467-0123

HUKESSLER ASSOCIATES, INC.
3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

SHEN MILSOM & WILKE LLC
2 N RIVERSIDE PLAZA #1460
CHICAGO, IL 60606
T 312-559-4585

ILLINOIS ROOF CONSULTING ASSOCIATES, INC.
4302-G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

EDGE ASSOCIATES, INC.
150 HOUSTON ST, STE 304
BATAVIA, IL 60510
T 630-962-4422

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600 W VAN BUREN ST, STE 500
CHICAGO, IL 60607
T 312-782-4486

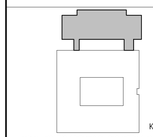
EMILIANO ZAPATA
ACADEMY ANNEX

2728 S KOSTNER AVE
CHICAGO, IL 60623
PBC CONTRACT NO. C1576
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
1		12/12/2016	DESIGN DEVELOPMENT
2		02/07/2017	60% CONSTRUCTION DOCUMENTS
3		03/14/2017	90% CONSTRUCTION DOCUMENTS
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8	1	08/15/2017	ADDENDUM#1
9	2	08/22/2017	ADDENDUM#2

DRAWN BY: BIM
CHECKED BY: LH/SP
SCALE: 1/8" = 1'-0"
FILE NAME:



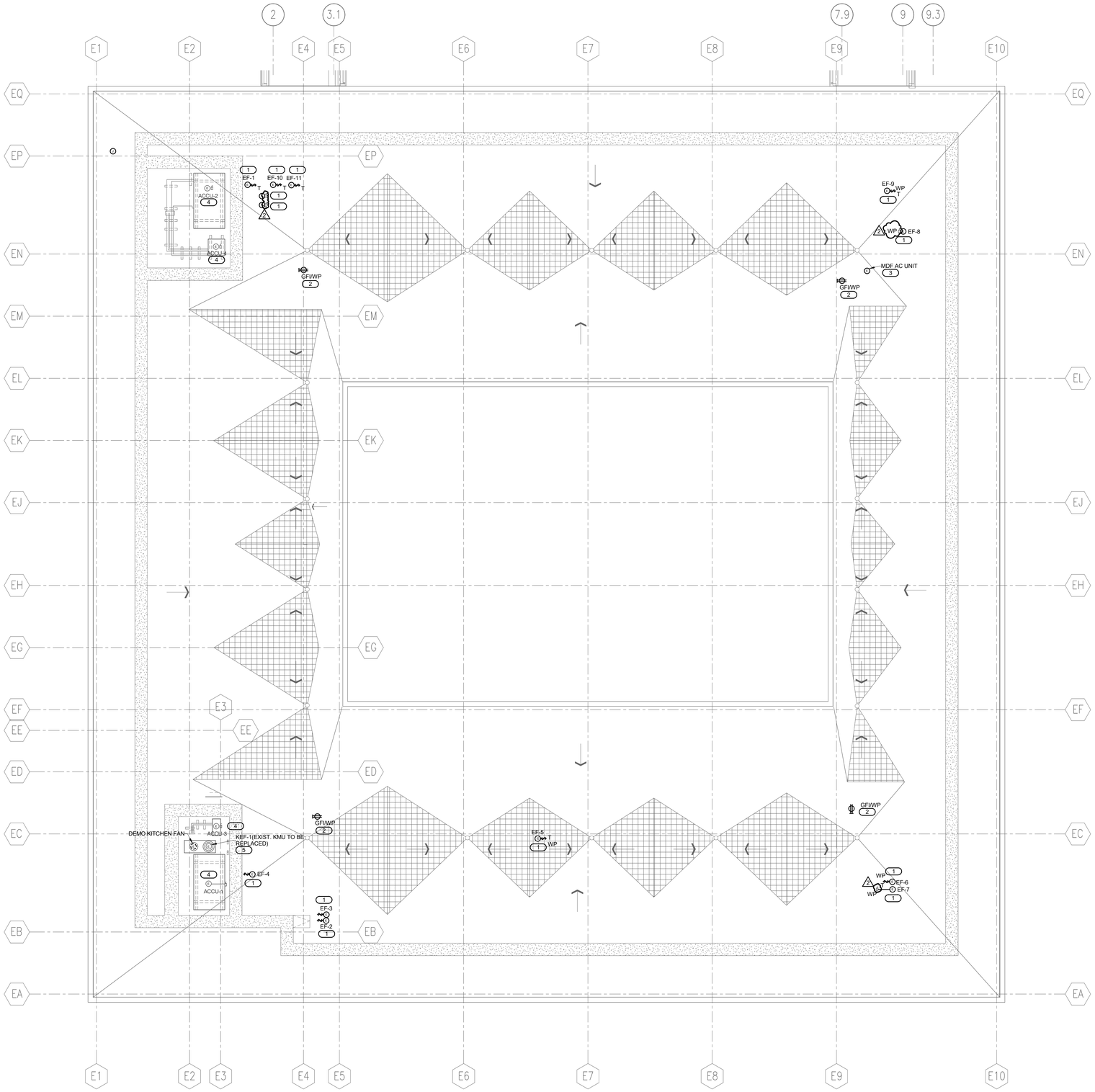
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SHEET TITLE

ROOF PLAN - POWER

DRAWING NO.

E1.3



1 EXISTING BUILDING ROOF - ELECTRICAL POWER

3/32" = 1'-0"

NORTH

GENERAL NOTES:

1. ALL ELECTRICAL DEVICES ON THE ROOF SHALLBE NEMA TYPE 3R RATED FOR WET LOCATIONS.
2. PROVIDE NEW FLASHING FOR ALL EXISTING ELECTRICAL FEEDS THROUGH ROOF. COORDINATE WORK WITH ROOF CONTRACTOR.

KEYNOTES: (#)

1. DISCONNECT EXISTING EQUIPMENT TO BE REPLACED WITH NEW REUSE EXISTING CONTROLS AND RECONNECT INTO EXISTING CIRCUIT, UNLESS OTHERWISE NOTED.
2. DISCONNECT EXISTING RECEPTACLE. REPLACE WITH NEW AND RECONNECT INTO EXISTING CIRCUIT. COORDINATE WORK WITH ROOF CONTRACTOR. FIELD VERIFY EXISTING LOCATION.
3. DISCONNECT CONDENSING UNIT TO BE REMOVED AND REINSTALLED AFTER ROOFING IS COMPLETED. RECONNECT INTO EXISTING CIRCUIT AND CONTROLS.
4. EXISTING ACCU UNITS TO REMAIN. PROTECT FEEDERS DISCONNECT AND CONTROLS DURING CONSTRUCTION.
5. DISCONNECT EXISTING KMU FANS. REMOVE WIRING CONDUIT, DISCONNECT AND CONTROL ASSOCIATED WITH MAKE-UP AIR UNIT SUPPLY FAN TO BE REMOVED AND NOT REPLACED. RECONNECT NEW KITCHEN EXHAUST FAN INTO EXISTING CIRCUIT AND CONTROLS. UNIT PROVIDED WITH DISCONNECT.

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1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

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3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

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2 N RIVERSIDE PLAZA #1460
CHICAGO, IL 60606
T 312-559-4585

ILLINOIS ROOF CONSULTING ASSOCIATES, INC.
4302-G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

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150 HOUSTON ST, STE 304
BATAVIA, IL 60510
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600 W VAN BUREN ST, STE 500
CHICAGO, IL 60607
T 312-782-4486

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DRAWN BY: BIM
CHECKED BY: LH/SP
SCALE: 3/32" = 1'-0"
FILE NAME:

NORTH
KEY PLAN

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SHEET TITLE
EXISTING BUILDING ROOF - ELECTRICAL POWER

DRAWING NO.
E1.3E

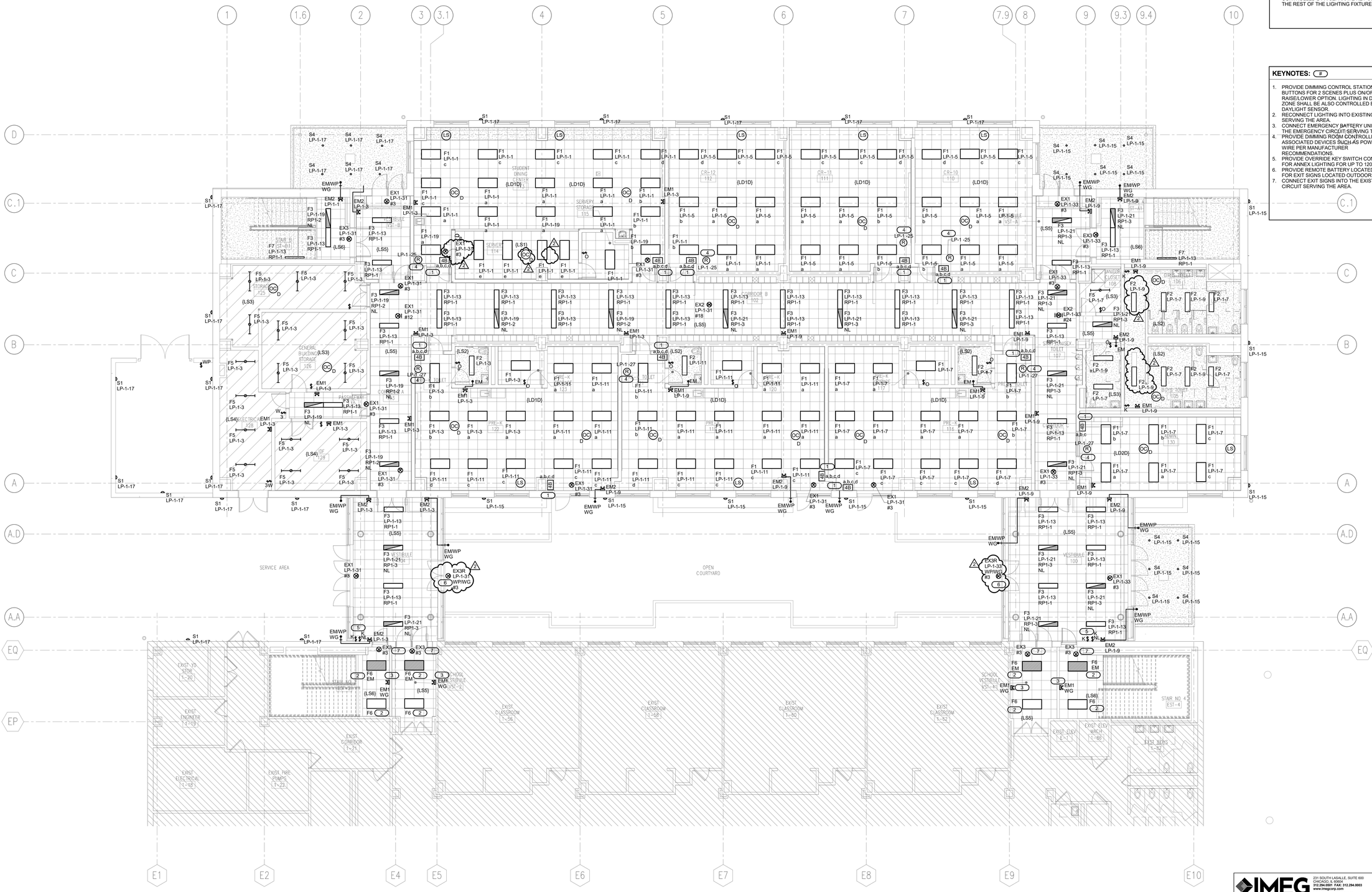
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REFERENCE SCALE IN INCHES
0 1 2 3

N.

24" 16" 12" 8" 6" 4" 2" 0"
SCALE: 3/32" : 1'-0"



GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR GENERAL ELECTRICAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. REFER TO SHEET E5.1 FOR LUMINAIRE SCHEDULE LIGHTING SEQUENCE OF OPERATION AND ADDITIONAL INFORMATION.
3. REFER TO SHEET E1.1 FOR PANEL LOCATIONS.
4. REFER TO SHEET E5 SERIES FOR ELECTRICAL SCHEDULES.
5. EXACT DEVICE AND LUMINAIRE LOCATION AND MOUNTING HEIGHT SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
6. FIXTURES INDENTIFIED AS NL (NIGHT LIGHT) SHALL BE CONNECTED INTO A SEPARATE RELAY AND CONTROLLED BY A SEPARATE KEY-SWITCH THAN THE REST OF THE LIGHTING FIXTURES.

KEYNOTES: (#)

1. PROVIDE DIMMING CONTROL STATION WITH BUTTONS FOR 2 SCENES PLUS ON/OFF AND RAISE/LOWER OPTION. LIGHTING IN DAYLIGHT ZONE SHALL BE ALSO CONTROLLED BY DAYLIGHT SENSOR.
2. RECONNECT LIGHTING INTO EXISTING CIRCUITS SERVING THE AREA.
3. CONNECT EMERGENCY BATTERY UNIT INTO THE EMERGENCY CIRCUIT SERVING THE AREA.
4. PROVIDE DIMMING ROOM CONTROLLER AND ASSOCIATED DEVICES SUCH AS POWER PACKS. WIRE PER MANUFACTURER RECOMMENDATIONS.
5. PROVIDE OVERRIDE KEY SWITCH CONTROL FOR ANNEX LIGHTING FOR UP TO 120 MINUTES.
6. PROVIDE REMOTE BATTERY LOCATED INDOOR FOR EXIT SIGNS LOCATED OUTDOORS.
7. CONNECT EXIT SIGNS INTO THE EXISTING CIRCUIT SERVING THE AREA.

LEVEL 01 FLOOR PLAN - LIGHTING

1/8" = 1'-0"

NORTH

IMEG 231 SOUTH LASALLE, SUITE 600 CHICAGO, IL 60604 312.294.0501 FAX: 312.294.0003 www.imegcorp.com
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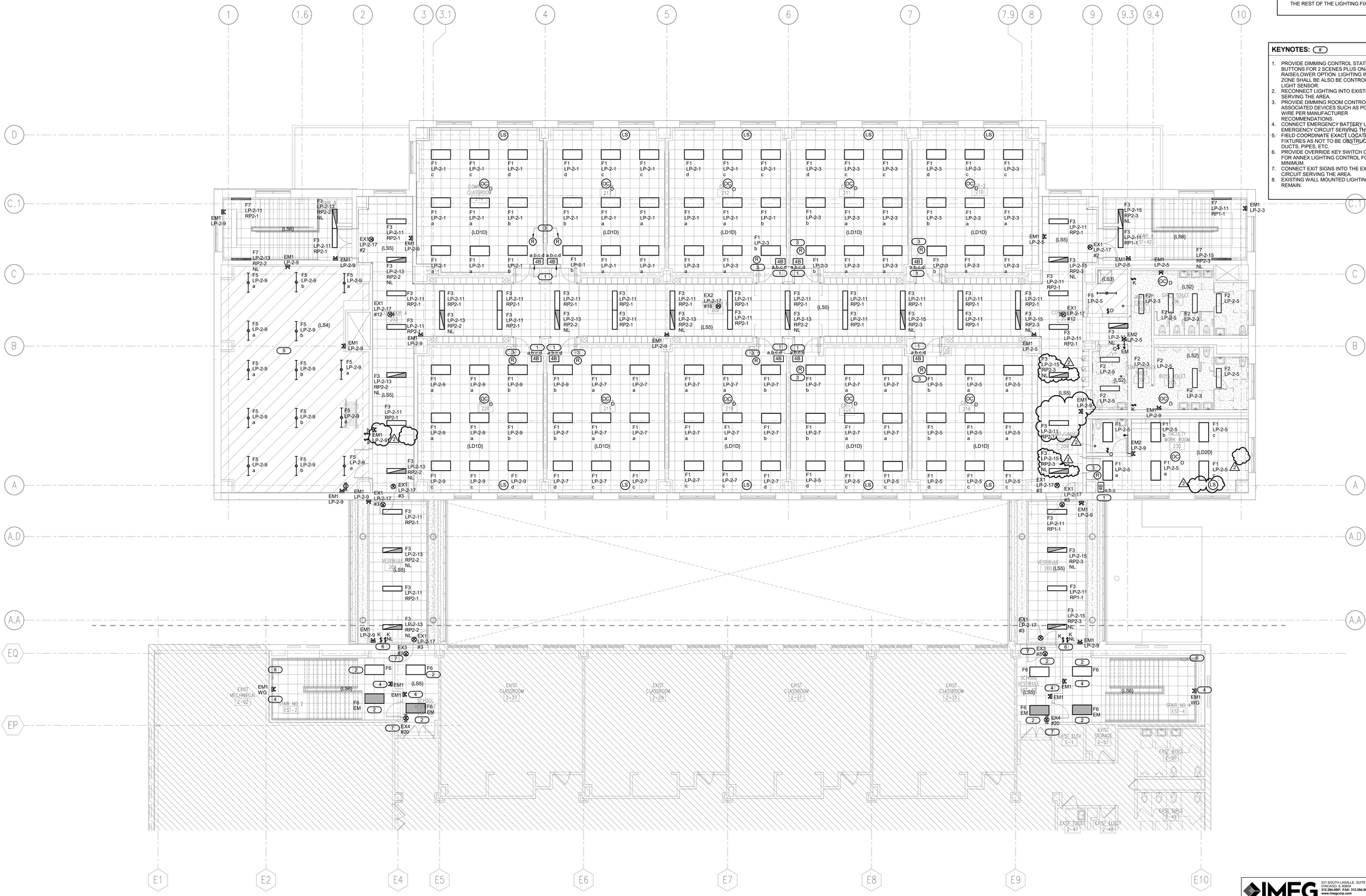
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SCALE: 1/8" = 1'-0"
FILE NAME:

NORTH
KEY PLAN

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SHEET TITLE
LEVEL 01 FLOOR PLAN - LIGHTING

DRAWING NO.
E2.1



GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR GENERAL ELECTRICAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. REFER TO SHEET E5.1 FOR LUMINAIRE SCHEDULE LIGHTING SEQUENCE OF OPERATION AND ADDITIONAL INFORMATION.
3. REFER TO SHEET E1.1 FOR PANEL LOCATIONS.
4. REFER TO SHEET E5 SERIES FOR ELECTRICAL SCHEDULES.
5. EXACT DEVICE AND LUMINAIRE LOCATION AND MOUNTING HEIGHT SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
6. FIXTURES INDENTIFIED AS NL (NIGHT LIGHT) SHALL BE CONNECTED INTO A SEPARATE RELAY AND CONTROLLED BY A SEPARATE KEY-SWITCH THAN THE REST OF THE LIGHTING FIXTURES.

KEYNOTES: (#)

1. PROVIDE DIMMING CONTROL STATION WITH BUTTONS FOR 2 SCENES PLUS ON/OFF AND RAISE/LOWER OPTION. LIGHTING IN DAYLIGHT ZONE SHALL BE ALSO BE CONTROLLED BY LIGHT SENSOR.
2. RECONNECT LIGHTING INTO EXISTING CIRCUITS SERVING THE AREA.
3. PROVIDE DIMMING ROOM CONTROLLER AND ASSOCIATED DEVICES SUCH AS POWER PACKS. WIRE PER MANUFACTURER RECOMMENDATIONS.
4. CONNECT EMERGENCY BATTERY UNIT INTO THE EMERGENCY CIRCUIT SERVING THIS AREA.
5. FIELD COORDINATE EXACT LOCATION OF LIGHT FIXTURES AS NOT TO BE OBSTRUCTED BY DUCTS, PIPES, ETC.
6. PROVIDE OVERRIDE KEY SWITCH CONTROL FOR ANNEX LIGHTING CONTROL FOR UP TO 120 MINIMUM.
7. CONNECT EXIT SIGNS INTO THE EXISTING CIRCUIT SERVING THE AREA.
8. EXISTING WALL MOUNTED LIGHTING FIXTURE TO REMAIN.

1 LEVEL 02 FLOOR PLAN - LIGHTING

1/8" = 1'-0"

NORTH

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

IMEG
231 SOUTH LASALLE, SUITE 600
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2nd FLOOR
CHICAGO, ILLINOIS 60642
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MCHENRY, IL 60050
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SHEET TITLE
LEVEL 02 FLOOR PLAN - LIGHTING

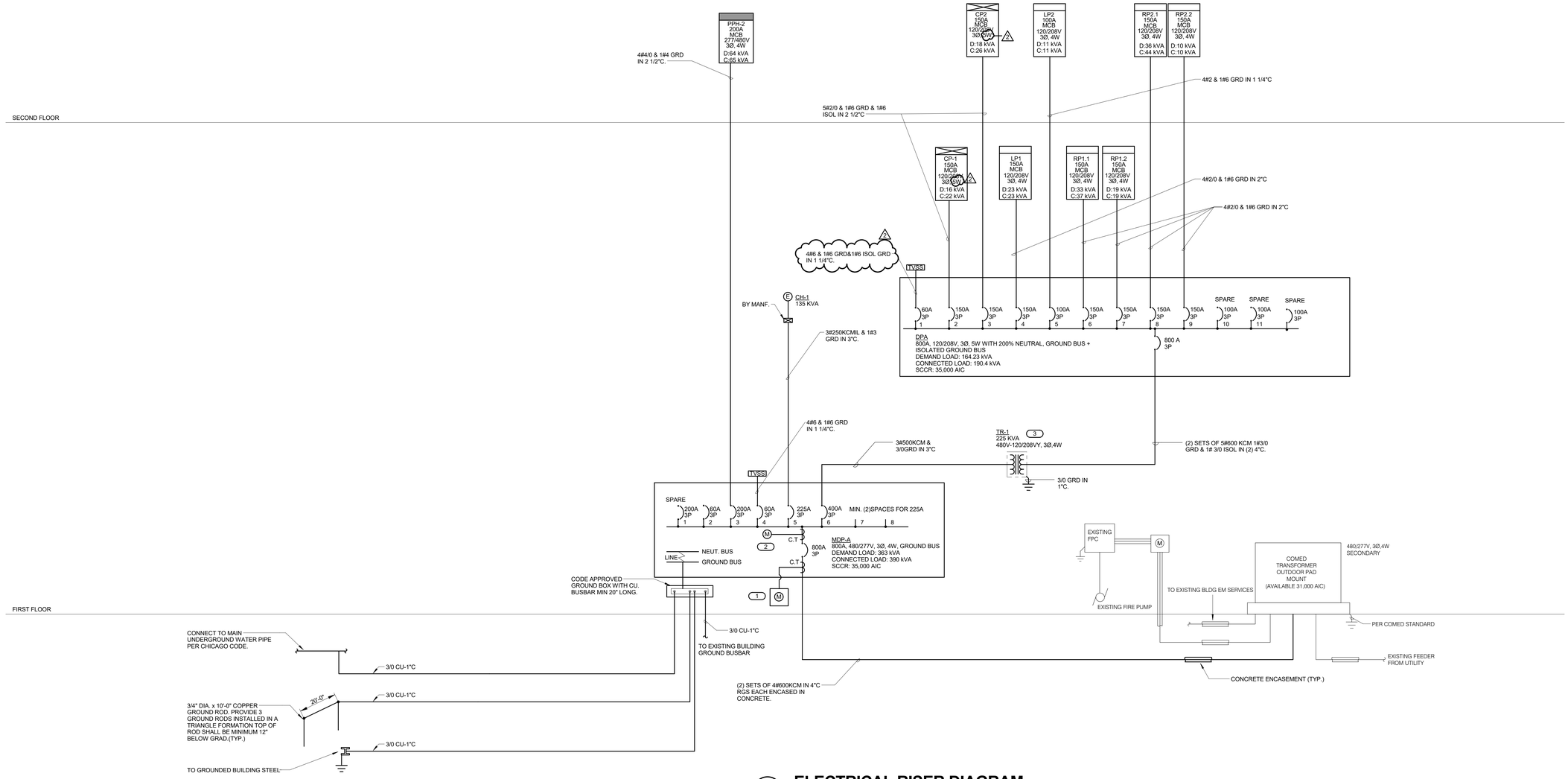
DRAWING NO.
E2.2

GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR GENERAL ELECTRICAL NOTES, ABBREVIATIONS AND SYMBOLS.

KEYNOTES: (#)

1. PROVIDE 480/277V, 3PH, 4W, METER SOCKET AND WIRING PER COMED REQUIREMENTS.
2. PROVIDE POWER MONITOR SUB-METERING.
3. PROVIDE K FACTOR RATED TRANSFORMER.



1 ELECTRICAL RISER DIAGRAM

NO SCALE

ANNEX ELECTRICAL LOAD		
SERVICE	**DEMAND LOAD**	**CONNECTED LOAD**
664 kVA	363 KVA	390 KVA

2 ANNEX ELECTRICAL LOAD

NO SCALE

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3		03/14/2017	90% CONSTRUCTION DOCUMENTS
4		03/31/2017	ISSUE FOR PERMIT
5		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
9	2	08/22/2017	ADDENDUM#2

DRAWN BY: BIM
CHECKED BY: LH/SP
SCALE: NTS
FILE NAME:

NORTH
KEY PLAN

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.

SHEET TITLE

ELECTRICAL RISER DIAGRAM

DRAWING NO.

E3.1

IMEG
231 SOUTH LASALLE, SUITE 600
CHICAGO, IL 60604
312.294.0501 FAX: 312.294.0003
www.imegcorp.com
PROJECT # 00161225.00
Illinois Design Firm Registration #184007637-0006

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REFERENCE SCALE IN INCHES
0 1 2 3

KJWW Engineering Lighting Sequence of Operation

SPACE TYPE	CONTROLS			PLAN ID	2015 IECC SEQUENCE DESCRIPTION:
	local	panel	daylight	PLAN ID	LIGHTING CONTROL SEQUENCE DESCRIPTION:
CLASSROOMS	D (OC)D		(LS)	{LD1D}	Sequence: Dimmed lights are controlled in this space. ON: The lights are turned on manually via dimming light control. ADJUST: The lights are raised/lowered using a wall controller. Provide separate dimming control for AV area (front of the classroom) and the rest of the room. Dimming control shall have on/off and raise/lower buttons. OFF: After the space has been vacant for 20 minutes, the lights will automatically turn off. ADDITIONAL CONTROL: The daylight sensor will continuously adjust the lighting in the presence of daylight to maintain 50 foot-candles at 30" AFF.
CONFERENCE/MEETING / MULTI-PURPOSE	D (OC)D		(LS)	{LD2D}	Sequence: Dimmed lights are controlled in this space. ON: The lights are turned on manually via dimming light control. ADJUST: The lights are raised / lowered using a wall controller. Dimming control shall have on/off and raise/lower buttons. OFF: After the space has been vacant for 20 minutes, the lights will automatically turn off. ADDITIONAL CONTROL: The daylight sensor will continuously adjust the lighting in the presence of daylight to maintain 40 foot-candles at 30" AFF.
DINING ROOM	D (OC)D		(LS)	{LD3D}	Sequence: Dimmed lights are controlled in this space. ON: The lights are turned on manually via dimming light control. ADJUST: The lights are raised/lowered using a wall controller. Provide separate dimming control for AV area (front of the room) and the rest of the room. Dimming control shall have on/off and raise/lower buttons. OFF: After the space has been vacant for 15 minutes, the lights will automatically turn off. ADDITIONAL CONTROL: The daylight sensor will continuously adjust the lighting in the presence of daylight to maintain 40 foot-candles at 30" AFF.
SERVERY	S (OC)			{LS1}	Sequence: Switched multi-level lights are controlled in this space. ON: The lights turn on manually using switches. ADJUST: The lights are controlled using switches for light level reduction of at least 50%. OFF: After the space has been vacant for 20 minutes, the lights will automatically turn off.
RESTROOM	(OC)D S S_{VP}			{LS2}	Sequence: Switched lights are controlled in this space. ON: The lights are turn on by occupancy sensor, or manually via keyed wall switch. OFF: After the space has been vacant for 20 minutes, the lights will automatically turn off.
INDIVIDUAL TOILETS/ JANITOR CLOSET/ STORAGE ROOM	(OC)D S S_{VP}			{LS3}	Sequence: Switched lights are controlled in this space. ON: The lights turned on manually using switches. OFF: After the space has been vacant for 15 minutes, the lights will automatically turn off.
ELECTRICAL ROOM/ MECHANICAL ROOM	S			{LS4}	Sequence: Switched lights are controlled in this space. ON: The lights turned on manually using switches. OFF: The lights turned off manually using switches.
PUBLIC CORRIDOR/ BUILDING VESTIBULE		LCP (TS) (LS)		{LS5}	Sequence: Switched lights are controlled in this space. ON: The normal luminaires turn on via central time clock and relay panel. Local over-ride switches, located in secure areas, shall provide up to 120 min. of additional illumination. Emergency lights shall remain on at all times. OFF: The central time clock shall turn the normal lights at a programmed time. ADDITIONAL CONTROL: The security system shall have an over-ride to turn all lights to 100% on.
STAIRWELL	(OC)D			{LS6}	Sequence: Switched lights are controlled in this space. ON: The normal lights shall turn on by occupancy sensor. Emergency lights shall remain on at all times. ADJUST: The lights shall reduce to 50% illumination when the stairwell is vacant for 20 minutes. The lights shall return to 100% when the space is occupied. OFF: The normal lights shall turn off after the space has been vacated for 20 min.
					2015 IECC - EXTERIOR LIGHTING CONTROLS
EXTERIOR LIGHTING WALL MOUNTED FIXTURES.		[TS] [PC]		{LSE1}	Sequence: Switched lights are controlled in this area. ON: The lights turn on via an outdoor photocell when insufficient daylighting is detected. OFF: The lights will automatically be reduced by 30% between 11:00 pm and 5:00 am (or as directed by CPS) by an astronomical time switch. The lights will automatically turn off by photocell when sufficient daylighting is detected. ADDITIONAL CONTROL: Manual control shall be provided for security system override to turn the lights on to 100%.
EXTERIOR LIGHTING CANOPY MOUNTED FIXTURES.		[TS] [PC]		{LSE2}	Sequence: Switched lights are controlled in this area. ON: The lights turn on via an outdoor photocell when insufficient daylighting is detected. OFF: The lights will automatically be reduced by 30% between 11:00 pm and 5:00 am (or as directed by CPS) by an astronomical time switch. The lights will automatically turn off by photocell when sufficient daylighting is detected. ADDITIONAL CONTROL: Manual control shall be provided for security system override to turn the lights on to 100%.
EXTERIOR POLE LIGHTING		[TS] [PC]		{LSE3}	Sequence: Switched lights are controlled in this area. ON: The lights turn on via an outdoor photocell when insufficient daylighting is detected. OFF: The lights will automatically turn off by photocell when sufficient daylighting is detected or by astronomic time switch from 11:00pm until 5:00am (or as directed by CPS). ADDITIONAL CONTROL: Manual control shall be provided for security system override to turn the lights on to 100%.
EXTERIOR CHILLER ENCLOSURE		S [PC]		{LSE4}	Sequence: Switched lights are controlled in this area. ON: The lights are turned on manually by a wall switch only when insufficient daylighting is detected by an outdoor photocell. OFF: The lights will be turned off manually or automatically by photocell when sufficient daylighting is detected.

RELAY PANEL SCHEDULE - LIGHTING

Relay Number	Panel	Circuit Number	Count
1	LP-2	11	4
1	LP-1	13	36
1	LP-2	11	28
2	LP-1	19	6
2	LP-2	13	11
3	LP-1	21	14
3	LP-2	15	9

LUMINAIRE SCHEDULE

(MTG) MOUNTING:	(TYPE) LAMP TECHNOLOGY:	(L/L) LENS / LOUVER:
RE - RECESSED	FL - FLUORESCENT	A - .125 ACRYLIC
SP - SUSPENDED	CF - COMPACT FLUORESCENT	B - BLACK BAFFLE
CL - CEILING SURFACE	HL - HALOGEN	C - CLEAR ALZAK
WL - WALL	IN - INCANDESCENT	D - PARABOLIC
UC - UNDER CABINET	LED - LIGHT EMITTING DIODE	F - FRESNEL
CV - COVE	HS - HIGH PRESSURE SODIUM	G - TEMPERED GLASS
PL - POLE	MH - METAL HALIDE	H - WALL WASHER
FR - FLANGED RECESSED	SMH - SUPER METAL HALIDE	P - POLYCARBONATE
O - OTHER (SEE DESCRIPTION)	PSMH - PULSE START METAL HALIDE	K - KSH12 .125" ACRYLIC
	CMH - CERAMIC METAL HALIDE	K19 - KSH19 .156" ACRYLIC
DOOR:	O - OTHER (SEE DESCRIPTION	L - LOW IRIDESCENT SPECULAR ALUM.
FA - FLAT ALUMINUM	XL - EXTENDED LIFE	N - NONE
FS - FLAT STEEL	XLP - EXTENDED LIFE & OUTPUT	R - HIGH IMPACT OR ACRYLIC
RA - REGRESSED ALUMINUM		O - OTHER (SEE DESCRIPTION)
RS - REGRESSED STEEL		
	(TYPE) BALLAST:	(TYPE) BALLAST:
FINISH:	DIM07 - LINE DIMMING BALLAST	EB - ELECTRONIC BALLAST
PAF - PAINT AFTER FABRICATION	DIM10 - 0-10V DIMMING BALLAST	EM - EMERGENCY BATTERY / BALLAST
CSA - FINISH SELECTION BY ARCHITECT	HL - HIGH / LOW LEVEL BALLAST	DALI - DIGITAL DIMMING BALLAST
	ML - MULTI-LEVEL SWITCHING	MV - MULTI-VOLTAGE ELECTRONIC 120V-277V
	HP - HIGH PERFORMANCE / LBF	PRS - ELECTRONIC PROGRAM RAPID START BALLAST

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY.
THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS FOR DESIGN.

REFER TO SPECIFICATION SECTIONS LIGHTING 26 51 00 AND EMERGENCY LIGHTING 26 52 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ALL LAMPS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
FLUORESCENT LAMP CORRELATED COLOR TEMPERATURE 3500°K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.
INTERIOR LED LAMP COLOR RENDERING INDEX (CRI) AT OR ABOVE 85 AND COLOR TEMPERATURE 3500°K UNLESS NOTED OTHERWISE. EXTERIOR LED LAMP COLOR RENDERING INDEX (CRI) AT OR ABOVE 70. COLOR TEMPERATURE 4000°K UNLESS OTHERWISE NOTED. ALL FINISHES TO BE SELECTED BY ARCHITECT.

	DESCRIPTION	DIMENSIONS L	W	H	DIA.	MTG	LAMPS TYPE	QTY	MODEL	BALLAST VOLTS	TYPE	L/L	APPROVED MANUFACTURER
EM1	EMERGENCY UNIT WITH ATTACHED HEADS STEEL HOUSING, 12 WATT OUTPUT. NICKEL CADMIUM SELF TEST AND DIAGNOSTIC OF INVERTER AND LAMPS. CHICAGO APPROVED WIRE GUARD WHERE INDICATED ON PLAN	1'-2 1/2"	2 1/2"	7 3/4"		WL	IN	2	PAR 36 12W	120 V	EM	O	SURE-LITES XR-9-C SERIES LITHONIA ELT SERIES DUAL-LITES AS-BX SERIES
EM2	EMERGENCY UNIT WITH ATTACHED AND REMOTE HEADS STEEL HOUSING, 12 WATT OUTPUT. NICKEL CADMIUM SELF TEST AND DIAGNOSTIC OF INVERTER AND LAMPS. CHICAGO APPROVED WIRE GUARD AND REMOTE HEADS WHERE INDICATED ON PLAN	1'-2 1/2"	2 1/2"	7 3/4"		WL	IN	3	PAR 36 12W	120 V	EM	O	SURE-LITES XR-9-C SERIES LITHONIA ELT-ELA SERIES DUAL-LITES AS-BX SERIES
EX1	EDGE GLOW SINGLE FACE LED EXIT SIGN WITH BATTERY BACKUP AND RED LETTERS ON WHITE BACKGROUND, CHICAGO APPROVED, FACE AND ARROWS AND WIRE GUARD AS SHOWN ON PLANS. COORDINATE MOUNTING TYPE WITH ARCHITECT.	1'-3 3/4"	4 1/8"	1'-0 1/2"		CL/WL	LED	1	3W	120 V	EM	P	SURE-LITES ECHX LITHONIA EDGC
EX2	EDGE GLOW DOUBLE FACE LED EXIT SIGN WITH BATTERY BACKUP AND RED LETTERS ON WHITE BACKGROUND, CHICAGO APPROVED, FACE AND ARROWS AND WIRE GUARD AS SHOWN ON PLANS. COORDINATE MOUNTING TYPE WITH ARCHITECT.	1'-3 3/4"	4 1/8"	1'-0 1/2"		CL/WL	LED	1	5W	120 V	EM	P	SURE-LITES ECHX LITHONIA EDGC
EX3	STEEL BOX SINGLE FACE LED EXIT SIGN WITH RED LETTERS ON WHITE BACKGROUND, CHICAGO APPROVED. FACE AND ARROWS AND WIRE GUARD AS SHOWN ON PLANS. COORDINATE MOUNTING TYPE WITH ARCHITECT.	1'-3 3/4"	4 1/8"	1'-0 1/2"		CL/WL	LED	1	3W	120 V	EM	P	SURE-LITES CHX
EX3R	ALUMINUM BOX SINGLE FACE LED EXIT SIGN WITH RED LETTERS ON WHITE BACKGROUND, CHICAGO APPROVED. FACE AND ARROWS AND WIRE GUARD AS SHOWN ON PLANS. ENCLOSURE SHALL BE RATED FOR OUTDOOR LOCATION. COORDINATE MOUNTING TYPE WITH ARCHITECT.	1'-3 3/4"	4 1/8"	1'-0 1/2"		CL/WL	LED	1	3W	120 V	EM	P	SURE-LITES CHX
EX4	STEEL BOX DOUBLE FACE LED EXIT SIGN WITH RED LETTERS ON WHITE BACKGROUND, CHICAGO APPROVED. FACE AND ARROWS AND WIRE GUARD AS SHOWN ON PLANS. COORDINATE MOUNTING TYPE WITH ARCHITECT.	1'-3 3/4"	4 1/8"	1'-0 1/2"		CL/WL	LED	1	5W	120 V	EM	P	SURE-LITES CHX
F1	LED 2X4 VOLUMETRIC RECESSED MOUNTED TROFFER, DIMMABLE.	4'-0"	2'-0"	4 3/8"		RE	LED	1	7200 LM, 70W	120 V	DIM 10	O	LITHONIA 2VTL4-72L-ADPT-EZ1-LP835 METALUX 24CZ-LD4-70-UNV-L835-CD1-U
F2	LED 1X4 RECESSED MOUNTED FIXTURE.	4'-0"	1'-0"	4 1/2"		RE	LED	1	3000 LM, 30W	120 V			LITHONIA TL4-30L-A12 METALUX 14GR-LD4-32-F1-UNV-L835-CD1-U
F3	LED 1x4 RECESSED MOUNTED FIXTURE. CHICAGO PLENUM FOR TILE CEILING.	4'-0"	1'-0"	4 1/2"		RE	LED	1	3000 LM, 30W	120 V			LITHONIA TL4-30L-A12 METALUX ATW-SW4-14GR-LD4-32-F1-UNV-L835-CD1-U
F5	4' EXTRUDED HOUSING LINEAR LED FIXTURE.	4'-0"	1'-0"	3 3/8"		SP	LED	1	35000 LM, 40W	120 V			LITHONIA PTNSL4-WD-MVOLT-35K-80CRI METALUX 4LBLED-LD4-6-SYMF-UNV-L835-CD1-U
F6	2X4 LENSED TROFFER. 0-125" ACRYILIC LENS.	4'-0"	2'-0"	4"		RE	FL	2	32 WATT T8	120 V		A	LITHONIA SP8 232 METALUX 2GCB-232A125-UNV-EB81-U
F7	4' WALL BRACKET MOUNTED LED FIXTURE.		4 3/4"	3 11/16"			LED	1	4000 LM, 40W	120 V			LITHONIA WL4-30L-LP835 METALUX 4SWLED-LD4-32SL-LW-UNV-L835-CD1-U
S1	LED OUTDOOR WALL SCONCE WITH PHOTOCONTROL. FINISHES BY ARCHITECT. TYPE II DISTRIBUTION. FULL CUT - OFF.	9"	1'-6"	7 1/4"		WL	LED	1	MIN 2000LM, 24W 4000K	120 V			LITHONIA WSRLED-1-10A700/30K-SR2-MVOLT MCGRAW EDISON ISC-E01-LED-E1-BL4-BZ HUBBEL RDI1-12L-20-4K7-11-120-DB
S2	LED EXTERIOR POLE SINGLE HEAD SMALL PICO PRISM LUMINAIRE. FULL CUT OFF. INTEGRAL LED DRIVER WITH PHOTOCONTROL. STANDARD FINISH SELECTED BY ARCHITECT. TYPE V DISTRIBUTION, FUSED. MOUNTED ON A 5" SQUARE ALUMINUM NON-TAPERED POLE, 20' HIGH.	1'-5 1/8"	1'-0"	6"		PL	LED	1	MIN. 8000 LM, 93W 4000K	120 V			KIM LIGHTING 1SA-SAR5-P70-8OL-4K-120,POLE:PSA20-5188 MCGRAW EDISON GLEON-AF-02-LED-E1-5MQ-BZ BEACON-VIPERS:VPS-36NB-80-4K-T50M-120
S3	LED EXTERIOR POLE DOUBLE HEAD AT 180° SMALL PICO PRISM LUMINAIRE, FULL CUT OFF. INTEGRAL LED DRIVER WITH PHOTOCONTROL. STANDARD FINISH SELECTED BY ARCHITECT. TYPE IV DISTRIBUTION, FUSED. MOUNTED ON A 5" SQUARE ALUMINUM NON-TAPERED POLE, 20' HIGH.	1'-5 1/8"	1'-0"	6"		PL	LED	1	MIN. 16000 LM, 186W	120 V			KIM LIGHTING 2SB-SAR5-P70-8OL-4K-120,POLE:PSA 20-5188 MCGRAW EDISON GLEON-AF-02-LED-E1-T4FT-BZ BEACON-VIPERS:VPS-36NB-80-4K-T4-120
S4	4" LED DOWNLIGHT FOR WET LOCATIONS COVERED CEILINGS WITH FLANGED TRIIM.			5 7/16"	4"	RE	LED	1	MAX 500 LM 6W 4000K	120 V			GOTHAM ICO-40-05-4AR-LSS-40D-120 PORTFOLIO LD4B PHILIPS LIGHTOLIER-CALCULITE-C4L05N120VB-C4L05DL40CLP

IMEG CORP.
231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

TERRA ENGINEERING, LTD.
225 W OHIO ST, 4TH FL
CHICAGO, IL 60654
T 312-467-0123

HJKESSLER ASSOCIATES, INC.
3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

SHEN MILSOM & WILKE LLC
2 N RIVERSIDE PLAZA #1460
CHICAGO, IL 60606
T 312-559-4585

ILLINOIS ROOF CONSULTING ASSOCIATES, INC.
4302-G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

EDGE ASSOCIATES, INC.
150 HOUSTON ST, STE 304
BATAVIA, IL 60510
T 630-962-4422

CARNOW, CONIBEAR & ASSOCIATES, LTD.
600 W VAN BUREN ST, STE 500
CHICAGO, IL 60607
T 312-782-4486

IMEG
231 SOUTH LASALLE, SUITE 600
CHICAGO, IL 60604
312.294.0501 FAX: 312.294.0003
www.imegcorp.com
PROJECT # 00161225.00
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REFERENCE SCALE IN INCHES
0 1 2 3

CHICAGO PUBLIC SCHOOLS
PUBLIC BUILDING COMMISSION
DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

EMILIANO ZAPATA
ACADEMY ANNEX

2728 S KOSTNER AVE
CHICAGO, IL 60623
PBC CONTRACT NO. C1576
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
1		12/12/2016	DESIGN DEVELOPMENT
2		02/07/2017	60% CONSTRUCTION DOCUMENTS
3		03/14/2017	90% CONSTRUCTION DOCUMENTS
4		03/31/2017	ISSUE FOR PERMIT
5		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
8	1	08/15/2017	ADDENDUM 1
9	2	08/22/2017	ADDENDUM 2

DRAWN BY: BIM
CHECKED BY: LH/SP
SCALE: NTS
FILE NAME:

NORTH
KEY PLAN

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SHEET TITLE
ELECTRICAL SCHEDULES

DRAWING NO.
E5.1

PANEL NAME: LP-1

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DPA
SCCR: 22,000 AIC
LOCATION: ELECTRICAL 128

SOLID NEUTRAL
GROUND BUS

CONNECTED 25.5 kVA
MAIN: 150 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 25.46 kVA

Panel Notes:

	CKT NO.	LOAD DESCRIPTION	WIRE ID	OVERCURRENT PROTECTION AMPS	P	A		B		C		OVERCURRENT PROTECTION AMPS	P	WIRE ID	LOAD DESCRIPTION	CKT NO.	
	1	1ST FLOOR LIGHTING	A2	20 A	1	1.58	3.1					2	40 A	D2	EV CHARGER - SITE	2	
	3	1ST FLOOR LIGHTING	A2	20 A	1			1.38	3.1			--	--	--	--	4	--
	5	1ST FLOOR LIGHTING	A2	20 A	1					1.68	3.1	2	40 A	D2	EV CHARGER - SITE	6	
	7	1ST FLOOR LIGHTING	A2	20 A	1	1.62	3.1					--	--	--	--	8	--
	9	1ST FLOOR LIGHTING	A2	20 A	1			0.63	0.93			1	20 A	B2	S3 SITE POLE	10	
	11	1ST FLOOR LIGHTING	A2	20 A	1					1.64	0.09	1	20 A	B2	S2 SITE POLE	12	
	13	1ST FLOOR CORRIDOR LIGHTING	A2	20 A	1	1.1	0					1	20 A	--	SPARE	14	
	15	1ST FLOOR S1 & S4 LIGHTING	B2	20 A	1			0.26	0			1	20 A	--	SPARE	16	
	17	1ST FLOOR S1 & S4 LIGHTING	B2	20 A	1					0.42	0	1	20 A	--	SPARE	18	
	19	15 NL LIGHTS - 1ST FLOOR	A2	20 A	1	0.42	0					1	20 A	--	SPARE	20	
	21	13 NL LIGHTS - 1ST FLOOR	A2	20 A	1			0.42	0			1	20 A	--	SPARE	22	
	23	RELAY PANEL 1	A2	20 A	1					0.1	0	1	20 A	--	SPARE	24	
	25	DIMMING CONTROL- NORTH	A2	20 A	1	0.16	0					1	20 A	--	SPARE	26	
	27	DIMMING CONTROL- SOUTH	A2	20 A	1			0.16	0			1	20 A	--	SPARE	28	
	29	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	30	
L	31	14 EXIT SIGNS - 1ST FLOOR	A2	20 A	1	0.04	0					1	20 A	--	SPARE	32	
L	33	7 EXIT SIGNS - 1ST FLOOR	A2	20 A	1			0.02	0			1	20 A	--	SPARE	34	
L	35	ELECTRIC BELL 1ST FLOOR	A2	20 A	1					0	0	1	20 A	--	SPARE	36	
	37	CLOCK POWER SUPPLY	A2	20 A	1	0.4	0					1	20 A	--	SPARE	38	
	39	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	40	
	41	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	42	
				Total Load:		11.52 kVA		6.91 kVA		7.03 kVA							
				Total Amps:		96.16		57.56		58.77							

[Key*:] *LOCK = PROVIDE HANDLE LOCK.

PANEL NAME: LP-2

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DPA
SCCR: 10,000 AIC
LOCATION:

SOLID NEUTRAL
GROUND BUS

CONNECTED 10.4 kVA
MAIN: 100 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 10.38 kVA

Panel Notes:

	CKT NO.	LOAD DESCRIPTION	WIRE ID	OVERCURRENT PROTECTION AMPS	P	A		B		C		OVERCURRENT PROTECTION AMPS	P	WIRE ID	LOAD DESCRIPTION	CKT NO.	
	1	2ND FLOOR LIGHTING	A2	20 A	1	1.68	0					1	20 A	--	SPARE	2	
	3	2ND FLOOR LIGHTING	A2	20 A	1			1.61	0			1	20 A	--	SPARE	4	
	5	2ND FLOOR LIGHTING	A2	20 A	1					1.61	0	1	20 A	--	SPARE	6	
	7	2ND FLOOR LIGHTING	A2	20 A	1	1.61	0					1	20 A	--	SPARE	8	
	9	2ND FLOOR LIGHTING	A2	20 A	1			1.66	0			1	20 A	--	SPARE	10	
	11	2ND FLOOR CORRIDOR LIGHTING	A2	20 A	1					1.01	0	1	20 A	--	SPARE	12	
	13	14 EM LIGHTS - 2ND FLOOR	A2	20 A	1	0.34	0					1	20 A	--	SPARE	14	
	15	14 EM LIGHTS - 2ND FLOOR	A2	20 A	1			0.28	0			1	20 A	--	SPARE	16	
L	17	13 EXIT SIGNS - 2ND FLOOR	A2	20 A	1					0.04	0	1	20 A	--	SPARE	18	
	19	RELAY PANEL 2	A2	20 A	1	0.1	0					1	20 A	--	SPARE	20	
	21	DIMMING CONTROL- NORTH	A2	20 A	1			0.2	0			1	20 A	--	SPARE	22	
	23	DIMMING CONTROL- SOUTH	A2	20 A	1					0.24	0	1	20 A	--	SPARE	24	
	25	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	26	
	27	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	28	
	29	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	30	
	31	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	32	
	33	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	34	
	35	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	36	
	37	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	38	
	39	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	40	
	41	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	42	
				Total Load:		3.73 kVA		3.75 kVA		2.9 kVA							
				Total Amps:		32.15		32.32		24.14							

[Key*:] *LOCK = PROVIDE LOCK HANDLE.

PANEL NAME: RP1.1

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DPA
SCCR: 22,000 AIC
LOCATION: ELECTRICAL 128

SOLID NEUTRAL
GROUND BUS

CONNECTED 41.4 kVA
MAIN: 150 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 36.92 kVA

Panel Notes:

	CKT NO.	LOAD DESCRIPTION	WIRE ID	OVERCURRENT PROTECTION AMPS	P	A		B		C		OVERCURRENT PROTECTION AMPS	P	WIRE ID	LOAD DESCRIPTION	CKT NO.	
	1	CAB-1 & CAB-3	A2	20 A	1	1.17	1.5					1	20 A	A2	MOBILE HEATED CABINET (E2)	2	G
	3	CAB-2 & CAB-4	A2	20 A	1			1.18	1.8			1	20 A	A2	WORK TABLE W/INK (E3)	4	
	5	2 ELECTROMECHANICAL CLOSER	A2	20 A	1					0.4	1.42	1	20 A	A2	ROLL REFRIGERATOR (E4)	6	G
	7	2 ELECTROMECHANICAL CLOSER	A2	20 A	1	0.4	0.9					1	20 A	A2	MILK CASE COOLER (E10)	8	
	9	EF-13	A2	20 A	1			0.67	0.7			1	20 A	A2	COLD FOOD COUNTER (E13)	10	
	11	FCU-1 & FCU-2	A2	20 A	1					1.34	0.4	1	20 A	A2	POS SYSTEM (E15)	12	
	13	TOILET SENSOR	A2	20 A	1	0.2	1.8					1	20 A	A2	WORK TABLE (E16)	14	
	15	1 CHARGING STATION	A2	20 A	1			1.6	1.3			1	20 A	A2	HAND DRYER ROOM 109	16	
	17	1 CHARGING STATION	A2	20 A	1					1.6	1.3	1	20 A	A2	HAND DRYER ROOM 107	18	
	19	1 CHARGING STATION	A2	20 A	1	1.6	1.3					1	20 A	A2	HAND DRYER ROOM 107	20	
	21	3 SECONDARY TEACHING STATION	A2	20 A	1			1.2	1.3			1	20 A	A2	HAND DRYER ROOM 108	22	
	23	3 CONV. RECEPTS.	A2	20 A	1					0.6	1.3	1	20 A	A2	HAND DRYER ROOM 108	24	
	25	7 CLOCKS	A2	20 A	1	0.8	1.3					1	20 A	A2	HAND DRYER ADA ROOM 108	26	
	27	11 CLOCKS	A2	20 A	1			1.1	1.3			1	20 A	A2	HAND DRYER ADA ROOM 107	28	
	29	6 CONV. RECEPTS.	A2	20 A	1					1.2	0.1	1	20 A	A2	DE-2 RECEPT.	30	G
	31	6 CONV. RECEPTS.	A2	20 A	1	1.2	1					1	20 A	A2	MOTORIZED SHADES	32	
	33	6 CONV. RECEPTS.	A2	20 A	1			1.2	1			1	20 A	A2	MOTORIZED SHADES	34	2
	35	3 CONV. RECEPTS. SERVERY...	A2	20 A	1					0.4	0	1	20 A	--	SPARE	36	
	37	7 CONV. RECEPTS. STUDENT DININ...	A2	20 A	1	1.4	0					1	20 A	--	SPARE	38	
	39	6 CONV. RECEPTS. PRE-K	A2	20 A	1			1.2	0			1	20 A	--	SPARE	40	
	41	6 CONV. RECEPTS.	A2	20 A	1					1.2	0	1	20 A	--	SPARE	42	
				Total Load:		14.57 kVA		15.55 kVA		11.26 kVA							
				Total Amps:		125.67		133.83		93.8							

[Key*:] G = GFI TYPE CB.

PANEL NAME: RP1.2

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DPA
SCCR: 22,000 AIC
LOCATION: ELECTRICAL 128

SOLID NEUTRAL
GROUND BUS

CONNECTED 21.6 kVA
MAIN: 150 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 21.6 kVA

Panel Notes:

	CKT NO.	LOAD DESCRIPTION	WIRE ID	OVERCURRENT PROTECTION AMPS	P	A		B		C		OVERCURRENT PROTECTION AMPS	P	WIRE ID	LOAD DESCRIPTION	CKT NO.	
	1	6 CONV. RECEPTS.	A2	20 A	1	1	1.67					3	20 A		EUH-1	2	
	3	5 CORRIDOR RECEPTS	A2	20 A	1			1	1.67			--	--	--	--	4	--
	5	5 CONV. RECEPTS.	A2	20 A	1					1	1.67	--	--	--	--	6	--
	7	6 CONV. RECEPTS.	A2	20 A	1	1.2	0					1	20 A	--	SPARE	8	
	9	3 CONV. RECEPTS	A2	20 A	1			0.6	0			1	20 A	--	SPARE	10	
	11	4 CONV. RECEPTS.	A2	20 A	1					0.8	0	1	20 A	--	SPARE	12	
	13	5 CONV RECEPTS.	A2	20 A	1	1	0					1	20 A	--	SPARE	14	
	15	HOT FOOD COUNTER (E11)	B2	30 A	2			3.6	0			1	20 A	--	SPARE	16	
--	17	--	--	--	--					0	0	1	20 A	--	SPARE	18	
	19	HAND DRYER - PRE-K TOILET	A2	20 A	1	1.3	0					1	20 A	--	SPARE	20	
	21	HAND DRYER - PRE-K TOILET	A2	20 A	1			1.3	0			1	20 A	--	SPARE	22	
	23	HAND DRYER - PRE-K TOILET	A2	20 A	1					1.3	0	1	20 A	--	SPARE	24	
	25	3 SECONDARY TEACHING STATION	A2	20 A	1	1.2	0					1	20 A	--	SPARE	26	
	27	DEDICATED ADA SOUTH/EAST DOOR	A2	20 A	1			0.5	0			1	20 A	--	SPARE	28	
	29	UNISEX RESTROOM CHANGING...	A2	20 A	1					0.2	0	1	20 A	--	SPARE	30	
	31	2 PRE-K GFI RECEPTS.	A2	20 A	1	0.4	0					1	20 A	--	SPARE	32	
	33	FLAT TOP COUNTER (E12)	A2	20 A	1			0.2	0			1	20 A	--	SPARE	34	
L	35	FIRE ALARM NAC PANEL	A2	20 A	1					0.5	0	1	20 A	--	SPARE	36	
	37	DOOR HOLDER PANEL		20 A	1	0.5	0					1	20 A	--	SPARE	38	
	39	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	40	
	41	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	42	
				Total Load:		8.27 kVA		8.87 kVA		5.47 kVA							
				Total Amps:		72.48		77.48		45.56							

[Key*:] *LOCK = PROVIDE HANDLE LOCK.

PANEL NAME: RP2.1

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DPA
SCCR: 10,000 AIC
LOCATION:

SOLID NEUTRAL
GROUND BUS

CONNECTED 42.7 kVA
MAIN: 150 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 35.64 kVA

Panel Notes:

	CKT NO.	LOAD DESCRIPTION	WIRE ID	OVERCURRENT PROTECTION AMPS	P	A		B		C		OVERCURRENT PROTECTION AMPS	P	WIRE ID	LOAD DESCRIPTION	CKT NO.	
	1	CU-1	C2	30 A	2	1.87	0.4					1	20 A	A2	2 SECONDARY TEACHING STATIONS	2	
--	3	--	--	--	--			1.87	0.8			1	20 A	A2	2 SECONDARY TEACHING STATIONS	4	
S	5	BOILER-1	B2	25 A	1					2	0.8	1	20 A	A2	2 SECONDARY TEACHING STATIONS	6	
S	7	BOILER-2	B2	25 A	1	2	0.8					1	20 A	A2	2 SECONDARY TEACHING STATIONS	8	
	9	GFS-1	A2	20 A	1			0.83	0.4			1	20 A	A2	1 SECONDARY TEACHING STATION	10	
	11	EF-15	A2	20 A	1					0.67	0.6	1	20 A	A2	3 CONV. RECEPTS.	12	
	13	CHARGING STATION	A2	20 A	1	1.6	0.6					1	20 A	A2	3 CONV. RECEPTS.	14	
	15	CHARGING STATION	A2	20 A	1			1.6	0.6			1	20 A	A2	3 CONV. RECEPTS.	16	
	17	CHARGING STATION	A2	20 A	1					1.6	1.3	1	20 A	A2	HAND DRYER ROOM 207	18	
	19	CHARGING STATION	A2	20 A	1	1.6	1.3					1	20 A	A2	HAND DRYER ROOM 207	20	
	21	CHARGING STATION	A2	20 A	1			1.6	1.3			1	20 A	A2	HAND DRYER ROOM 207	22	
	23	CHARGING STATION	A2	20 A	1					1.6	1.3	1	20 A	A2	HAND DRYER ROOM 208	24	
	25	CHARGING STATION	A2	20 A	1	1.6	1.3					1	20 A	A2	HAND DRYER ROOM 208	26	
	27	CHARGING STATION	A2	20 A	1			1.6	1.3			1	20 A	A2	HAND DRYER ROOM 208	28	
	29	CHARGING STATION	A2	20 A	1					1.6	0	1	20 A	--	SPARE	30	
	31	CHARGING STATION	A2	20 A	1	1.6	0					1	20 A	--	SPARE	32	
	33	6 CORRIDOR RECEPTS.	A2	20 A	1			1.2	0			1	20 A	--	SPARE	34	
	35	6 CORRIDOR RECEPTS.	A2	20 A	1					1.4	0	1	20 A	--	SPARE	36	
	37	2 QUAD RECEPTS. MECHANICAL RM	A2	20 A	1	0.8	0					1	20 A	--	SPARE	38	
	39	10 CLOCKS	A2	20 A	1			1	0			--	--	--	SPACE FOR SHUNT TRIP	40	--
	41	5 CLOCKS	A2	20 A	1					0.5	0	--	--	--	SPACE FOR SHUNT TRIP	42	--
				Total Load:		15.47 kVA		14.1 kVA		13.37 kVA							
				Total Amps:		129.87		118.46		111.42							

[Key*:] S= PROVIDE SHUNT TRIP

PANEL NAME: RP2.2

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DPA
SCCR: 10,000 AIC
LOCATION:

SOLID NEUTRAL
GROUND BUS

CONNECTED 9.9 kVA
MAIN: 150 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
DEMAND: 9.86 kVA

Panel Notes:

	CKT NO.	LOAD DESCRIPTION	WIRE ID	OVERCURRENT PROTECTION AMPS	P	A		B		C		OVERCURRENT PROTECTION AMPS	P	WIRE ID	LOAD DESCRIPTION	CKT NO.	
	1	HAND DRYER UNISEX TOILET	A2	20 A	1	1.3	0					1	20 A	--	SPARE	2	
	3	HAND DRYER FACULTY TOILET	A2	20 A	1			1.3	0			1	20 A	--	SPARE	4	
	5	6 CONV. RECEPTS FACULTY WORK...	A2	20 A	1					1	0	1	20 A	--	SPARE	6	
	7	6 CONV. RECEPTS	A2	20 A	1	1.2	0					1	20 A	--	SPARE	8	
	9	2 TOILET SENSOR	A2	20 A	1			0.4	0			1	20 A	--	SPARE	10	
	11									0		1	20 A	--	SPARE	12	
	13	3 CONV. RECEPTS ROOF	B2	20 A	1	0.6	0					1	20 A	--	SPARE	14	
	15	2 CONV. RECEPT.	A2	20 A	1			0.4	0			1	20 A	--	SPARE	16	
	17	UH-1	A2	20 A	1					0.32	0	1	20 A	--	SPARE	18	
	19	2 CONV. RECEPT.	A2	20 A	1	0.4	0					1	20 A	--	SPARE	20	
	21	AHU-1 LIGHTING AND RECEPT....	B2	20 A	1			0.4	0			1	20 A	--	SPARE	22	
	23	AHU-2 LIGHTING AND RECEPT....	B2	20 A	1					0.4	0	1	20 A	--	SPARE	24	
	25	FCU-3 & FCU-4	A2	20 A	1	1.34	0					1	20 A	--	SPARE	26	
	27	2 ELECTROMECHANICAL CLOSER	A2	20 A	1			0.4	0			1	20 A	--	SPARE	28	
	29	2 ELECTROMECHANICAL CLOSER	A2	20 A	1					0.4	0	1	20 A	--	SPARE	30	
	31	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	32	
	33	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	34	
	35	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	36	
	37	SPARE	--	20 A	1	0	0					1	20 A	--	SPARE	38	
	39	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	40	
	41	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	42	
				Total Load:		4.84 kVA		2.9 kVA		2.12 kVA							
				Total Amps:		41.33		25.17		17.67							

[Key*:]

PANEL NAME: PPH-2

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: MDP-A
SCCR: 35,000 AIC
LOCATION:

SOLID NEUTRAL
GROUND BUS

CONNECTED 65.3 kVA
MAIN: 200 A/MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
DEMAND: 65.3 kVA

Panel Notes:

	CKT NO.	LOAD DESCRIPTION	WIRE ID	OVERCURRENT PROTECTION AMPS	P	A		B		C		OVERCURRENT PROTECTION AMPS	P	WIRE ID	LOAD DESCRIPTION	CKT NO.	
	1	**AHU-1 (SUPPLY FAN)**	**C3**	**30 A**	**3**	**5.57**	**2.03**					**3**	**25 A**	**A3**	**P-2**	2	
--	3	--	--	--	--			**5.57**	**2.03**			--	--	--	--	4	--
--	5	--	--	--	--					**5.57**	**2.03**	--	--	--	--	6	--
	7	**AHU-1.2 (RETURN FAN)**	**B3**	**20 A**	**3**	**2.03**	**0.3**					**3**	**20 A**	**A3**	**P-3**	8	
--	9	--	--	--	--			**2.03**	**0.3**			--	--	--	--	10	--
--	11	--	--	--	--					**2.03**	**0.3**	--	--	--	--	12	--
	13	**AHU-2 (SUPPLY FAN)**	**C3**	**30 A**	**3**	**5.57**	**0.3**					**3**	**20 A**	**A3**	**P-4**	14	
--	15	--	--	--	--			**5.57**	**0.3**			--	--	--	--	16	--
--	17	--	--	--	--					**5.57**	**0.3**	--	--	--	--	18	--
	19	**AHU-2.1 (RETURN FAN)**	**C3**	**30 A**	**3**	2.93	0					3	30 A	--	SPARE	20	
--	21	--	--	--	--			2.93	0			--	--	--	--	22	--
--	23	--	--	--	--					2.93	0	--	--	--	--	24	--
	25	**EF-12**	**B3**	**20 A**	**3**	0.57	0					3	20 A	--	SPARE	26	
--	27	--	--	--	--			0.57	0			--	--	--	--	28	--
--	29	--	--	--	--					0.57	0	--	--	--	--	30	--
	31	**EF-14**	**B3**	**20 A**	**3**	0.43	0					--	--	--	SPACE	32	--
--	33	--	--	--	--			0.43	0			--	--	--	SPACE	34	--
--	35	--	--	--	--					0.43	0	--	--	--	SPACE	36	--
	37	**P-1**	**A3**	**25 A**	**3**	2.03	0					--	--	--	SPACE	38	--
--	39	--	--	--	--			2.03	0			--	--	--	SPACE	40	--
--	41	--	--	--	--					2.03	0	--	--	--	SPACE	42	--
				Total Load:		21.77 kVA		21.77 kVA		21.77 kVA							
				Total Amps:		78.58		78.58		78.58							

[Key*:]

BRANCH CIRCUIT WIRING KEY

WIRE ID	THHW/THWN COPPER CONDUCTORS			EQUIPMENT GROUNDING CONDUCTOR	CONDUIT
	2 WIRE	3 WIRE	4 WIRE		
A#	2#12	3#12	4#12	1#12	3/4"
B#	2#10	3#10	4#10	1#10	3/4"
C#	2#8	3#8	4#8	1#10	3/4"
D#	2#6	3#6	4#6	1#10	1"
E#	2#4	3#4	4#4	1#8	1 1/4"
F#	2#2	3#2	4#2	1#8	1 1/4"
G#	2#1	3#1	4#1	1#6	1 1/2"
H#	2#1/0	3#1/0	4#1/0	1#6	2"

ALL BRANCH CIRCUITS SHALL INCLUDE THE EQUIPMENT GROUND CONDUCTOR. WIRING SIZE SHALL BE ADJUSTED AS SHOWN ON WIRING NOTES ON SHEET E0.1. WIRING SIZE SHOWN IS MINIMUM SIZE REQUIRED.

CHICAGO Public Schools
PUBLIC BUILDING COMMISSION
DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

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1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

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T 312-782-4486

EMILIANO ZAPATA
ACADEMY ANNEX

2728 S KOSTNER AVE
CHICAGO, IL 60623
PBC CONTRACT NO. C1576
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
1		12/12/2016	DESIGN DEVELOPMENT
2		02/07/2017	60% CONSTRUCTION DOCUMENTS
3		03/14/2017	90% CONSTRUCTION DOCUMENTS
4		03/31/2017	ISSUE FOR PERMIT
5		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
8	1	08/15/2017	ADDENDUM#1
9	2	08/22/2017	ADDENDUM#2

DRAWN BY: BIM
CHECKED BY: LH/SP
SCALE: NTS
FILE NAME:

NORTH
KEY PLAN

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SHEET TITLE
ELECTRICAL SCHEDULES

DRAWING NO.
E5.2

IMEG
231 SOUTH LASALLE, SUITE 600
CHICAGO, IL 60604
312.294.0501 FAX: 312.294.0503
www.imegcorp.com
PROJECT # 00161225.00
Illinois Design Firm Registration #184007637-0006

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E - TRANSFORMER SCHEDULE

TYPE:		REMARKS:
TP1 - NEMA TP1 DRY TYPE	AUT - AUTOTRANSFORMER	AL - ALUMINUM WINDINGS
K4 - K4 RATED DRY TYPE	BB - BUCK BOOST	CU - COPPER WINDINGS
K13 - K13 RATED DRY TYPE	LIQ - LIQUID FILLED	RS - EPOXY RESIN ENCAPSULATED
HM - HARMONIC MITIGATING		FL - FILTERED
PE - NEMA PREMIUM EFFICIENCY		NV - NON-VENTILATED
		NL - 200% RATED NEUTRAL
		EL - ELECTROSTATIC SHEILD
ENCLOSURE: NEMA 1 UNLESS SPECIFIED OTHERWISE		

TAG NAME	KVA RATING	TYPE	MAX. TEMP. RISE C.	PRIMARY VOLTS	PRIMARY PH	SECONDARY VOLTAGE	SECONDARY PH	TAPS % REG	TAPS #(+)	TAPS #(-)	REMARKS	APPROVED MANUFACTURER
TR-1	225 kVA	DOE 2016 K13	80	480 V	3	208Y/120	3	2.5	2	4	AL	SQUARE D CUTLER-HAMMER GENERAL ELECTRIC SIEMENS HAMMOND TYPE SG

E - VARIABLE FREQUENCY DRIVE SCHEDULE

STARTER TYPE:	REMARKS:	
PWM - PULSE WIDTH MODULATED	SA - STANDARD ACCESSORIES	TA - TWO CONVERTIBLE AUXILIARY CONTACTS
12PWM - 12 PULSE PWM	(INCLUDES * ITEMS)	ISO - ISOLATION TRANSFORMER
18PWM - 18 PULSE PWM	*MA - MANUAL SPEED ADJUSTMENT	*SHZ - SKIP FREQUENCY CAPABILITY
LINE DISCONNECT:	*ET - ELECTRONIC THERMAL OVERLOADS	RSS - REMOTE START-STOP
DS - DISCONNECT SWITCH	*CT - CONTROL TRANSFORMER, FUSED, 120V	RDR - REMOTE DRIVE RUN
FDS - FUSED DISCONNECT SWITCH	*HA - HAND-OFF-AUTO DOOR SWITCH	RFT - REMOTE FAULT TRIP
CB - CIRCUIT BREAKER	TO - MELTING THERMAL OVERLOADS	LR - INPUT LINE REACTOR
CONTROL:	MOL - MULTIPLE MOTOR OVERLOADS	HAR - PASSIVE HARMONIC FILTER
PN - 3-15 PSI TRANSDUCER		
420 - 4-20mA FOLLOWER		

ITEM	LINE DISC.	DRIVE BYPASS	CONTROL	VOLTAGE INPUT	VOLTAGE OUTPUT	VOLTAGE PH.	DRIVE H.P. RATING	DRIVE TYPE	NEMA ENCLOSURE	REMARKS	APPROVED MANUFACTURERS
VFD-1	DS	3 CONTACT	420	460 V	460 V	3	5	PWM	1	SA VARIABLE TORQUE	TOSHIBA Q9 SERIES ABB ACH 550 SERIES ALLEN BRADLEY POWERFLEX 40 SERIES DANFOSS VLT6000 SERIES YASKAWA E7
VFD-2	DS	3 CONTACT	420	460 V	460 V	3	5	PWM	1	SA VARIABLE TORQUE	TOSHIBA Q9 SERIES ABB ACH 550 SERIES ALLEN BRADLEY POWERFLEX 40 SERIES DANFOSS VLT6000 SERIES YASKAWA E7

E - DISCONNECT AND STARTER SCHEDULE

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.

DISCONNECT TYPE:	REMARKS:	
FU - FUSED	SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)	PF - PHASE FAILURE RELAY (5 HP OR GREATER)
NF - NON-FUSED	*CT - CONTROL TRANSFORMER, FUSED 120V	TO - MELTING THERMAL OVERLOADS
CB - CIRCUIT BREAKER	*EO - ELECTRONIC OVERLOAD	TS - 2 SPEED SELECTOR SWITCH IN DOOR
	*HA - HAND-OFF-AUTO IN DOOR	GP - GREEN (OFF) PILOT LIGHT IN DOOR
STARTER TYPE:	*RP - RED PILOT LIGHT IN DOOR	FA - 4-CONVERTIBLE AUXILIARY CONTACTS
FV - FULL VOLTAGE	*TA - TWO CONVERTIBLE AUXILIARY CONTACTS	EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C.
YD - WYE - DELTA	S/N - INSULATED NEUTRAL ASSEMBLY	SS - START-STOP PUSHBUTTON IN DOOR
RE - REVERSING		HL - HANDLE PADLOCK HASP
TW - 2 SPEED, 2 WINDING		
SW - 2 SPEED, 1 WINDING		
RV - REDUCED VOLTAGE AUTOXFMR		
SS - SOLID STATE		
MS - MANUAL STARTER		
MX - MANUAL SWITCH		
FS - FUSED SWITCH		

ITEM	DISCONNECT TYPE & RATING TYPE	DISCONNECT TYPE & RATING RATING	CIRCUIT VOLTAGE	POLES	STARTER NEMA SIZE	STARTER TYPE	NEMA ENCLOSURE	REMARKS	APPROVED MANUFACTURERS
CS-1	NF	60 A	480 V	3	1	FV	1		SQUARE D 8538 SCG11 CUTLER-HAMMER TYPE ECN GENERAL ELECTRIC CR308 SIEMENS CLASS 17
DS-30	NF	30 A	480 V	3			1		SQUARE D 3110 HU361 CUTLER-HAMMER TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HNF
DS-30R	NF	30 A	480 V	3			3R		SQUARE D HU361RB CUTLER-HAMMER TYPE DH GENERAL ELECTRIC TYPE TH SIEMENS TYPE HNF
S-1		0 A	480 V	3	1	S1	1		SQUARE D 8536 SCG3 CUTTLER-HAMMER CLASS ECN GENERAL ELECTRIC CR306 SIEMENS CLASS 14

PANEL NAME: CP-1

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DPA
SCCR: 22,000 AIC
LOCATION: ELECTRICAL 128

SOLID NEUTRAL
GROUND BUS
ISOLATED GROUND

CONNECTED 23.4 kVA
MAIN: 150 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4 + ISOLATED GROUND
DEMAND: 18.1 kVA

Panel Notes: 200% NEUTRAL

CKT NO.	LOAD DESCRIPTION	WIRE ID	OVERCURRENT PROTECTION AMPS	P	A		B		C		OVERCURRENT PROTECTION AMPS	P	WIRE ID	LOAD DESCRIPTION	CKT NO.
1	3 TV RECEPTS.	A2	20 A	1	1.6	0.8					1	20 A	A2	QUAD RECEPTS. & ACE RECEPT.	2
3	3 TV RECEPTS.	A2	20 A	1			1.2	0.6			1	20 A	A2	3 IG CONV. RECEPTS.	4
5	2 IG QUADS IN IDF ROOM	A2	20 A	1					0.8	0.8	1	20 A	A2	2 IG QUADS IN IDF ROOM	6
7	2 QUAD RECEPTS. CLASSROOMS	A2	20 A	1	0.8	0.8					1	20 A	A2	2 IG QUADS IN IDF ROOM	8
9	2 QUAD RECEPTS. CLASSROOMS	A2	20 A	1			0.8	0.8			1	20 A	A2	2 IG QUADS IN IDF ROOM	10
11	2 QUAD RECEPTS. CLASSROOMS	A2	20 A	1					0.8	0.8	1	20 A	A2	2 IG QUADS IN IDF ROOM	12
13	2 SHORTARM PROJECTORS	A2	20 A	1	1	0.8					1	20 A	A2	2 IG QUADS IN IDF ROOM	14
15	2 SHORTARM PROJECTORS	A2	20 A	1			1	0.4			1	20 A	A2	2 IG RECEPTS.	16
17	2 SHORTARM PROJECTORS	A2	20 A	1					1	0.4	1	20 A	A2	1 IG RECEPT.	18
19	2 QUADS IN IDF ROOM	A2	20 A	1	0.8	0					1	20 A	--	SPARE	20
21	SPARE	--	20 A	1			0	0			1	20 A	--	SPARE	22
23	SPARE	--	20 A	1					0	0	1	20 A	--	SPARE	24
25	OVERHEAD PROJECTOR	A2	20 A	1	0.4	0					1	20 A	--	SPARE	26
27	2 LCE & CCE RECEPTS.	A2	20 A	1			0.8	0			1	20 A	--	SPARE	28
29	3 IG RECEPTS. NEAR SECONDARY...	A2	20 A	1					1.2	0	1	20 A	--	SPARE	30
31	4 IG RECEPTS. PRE-K	A2	20 A	1	0.8	0					1	20 A	--	SPARE	32
33	3 IG RECEPTS STUDENT DINING...	A2	20 A	1			1	0			1	20 A	--	SPARE	34
35	3 IG RECEPTS. NEAR SECONDARY...	A2	20 A	1					1.2	0	1	20 A	--	SPARE	36
37	2 IG QUAD IG RECEPTS.	A2	20 A	1	0.8	0					1	20 A	--	SPARE	38
39	2 IG QUAD IG RECEPTS.	A2	20 A	1			0.8	0			1	20 A	--	SPARE	40
41	1 IG QUAD IG RECEPT.	A2	20 A	1					0.4	0	1	20 A	--	SPARE	42
			Total Load:		8.6 kVA		7.4 kVA		7.4 kVA						
			Total Amps:		71.67		61.67		61.67						

[Key*:] EACH CIRCUIT SHAL BE PROVIDED WITH AN ADDITIONAL #12 AWG ISOLATED GROUND CONDUCTOR. CONDUITS SHALL BE SIZED PER CEC REQUIREMENTS.

PANEL NAME: CP-2

TYPE: BOLT-ON
MOUNTING: SURFACE
FED FROM: DPA
SCCR: 22,000 AIC
LOCATION:

SOLID NEUTRAL
GROUND BUS
ISOLATED GROUND

CONNECTED 32.6 kVA
MAIN: 150 A/MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4 + ISOLATED GROUND
DEMAND: 21.32 kVA

Panel Notes: 200% NEUTRAL

CKT NO.	LOAD DESCRIPTION	WIRE ID	OVERCURRENT PROTECTION AMPS	P	A		B		C		OVERCURRENT PROTECTION AMPS	P	WIRE ID	LOAD DESCRIPTION	CKT NO.
1	4 IG QUADS - COMPUTER...	A2	20 A	1	1.56	0.8					1	20 A	A2	2 IG QUAD RECEPTS. CLASSROOMS	2
3	4 IG QUADS - COMPUTER...	A2	20 A	1			1.56	0.8			1	20 A	A2	2 IG QUAD RECEPTS. CLASSROOMS	4
5	4 IG QUADS - COMPUTER...	A2	20 A	1					1.56	0.9	1	20 A	A2	1 QUAD RECEPT. & SHORT ARM...	6
7	4 IG QUADS - COMPUTER...	A2	20 A	1	1.56	1					1	20 A	A2	2 SHORTARM PROJECTORS	8
9	4 IG QUADS - COMPUTER...	A2	20 A	1			1.6	1			1	20 A	A2	2 SHORTARM PROJECTORS	10
11	4 IG QUADS - COMPUTER...	A2	20 A	1					1.6	1	1	20 A	A2	2 SHORTARM PROJECTORS	12
13	4 IG QUADS - COMPUTER...	A2	20 A	1	1.6	1					1	20 A	A2	2 SHORTARM PROJECTORS	14
15	4 IG QUADS - COMPUTER...	A2	20 A	1			1.6	0			1	20 A	--	SPARE	16
17	3 IG RECEPTS. COMPUTER...	A2	20 A	1					0.8	0	1	20 A	--	SPARE	18
19	1 IG LCE RECEPT.	A2	20 A	1	0.4	0					1	20 A	--	SPARE	20
21	1 IG QCE RECEPT.	A2	20 A	1			0.4	0			1	20 A	--	SPARE	22
23	1 IG QCE RECEPT.	A2	20 A	1					0.4	0	1	20 A	--	SPARE	24
25	1 IG RECEPT.	A2	20 A	1	0.4	0.4					1	20 A	A2	1 TV RECEPT.	26
27	3 TV RECEPTS.	A2	20 A	1			1.2	0.8			1	20 A	A2	2 QUAD IG RECEPTS.	28
29	3 TV RECEPTS.	A2	20 A	1					1.2	0.5	1	20 A	A2	1 OVERHEAD PROJECTORS	30
31	3 TV RECEPTS.	A2	20 A	1	1.2	0.4					1	20 A	A2	1 TV RECEPT.	32
33	3 IG RECEPTS. NEAR SECONDARY...	A2	20 A	1			1.2	0.2			1	20 A	A2	1 IG RECEPT. FOR BAS SYSTEM	34
35	3 IG RECEPTS. NEAR SECONDARY...	A2	20 A	1					1.2	0	1	20 A	--	SPARE	36
37	3 IG RECEPTS. NEAR SECONDARY...	A2	20 A	1	1.2	0					1	20 A	--	SPARE	38
39	2 IG QUAD RECEPTS. CLASSROOMS	A2	20 A	1			0.8	0			1	20 A	--	SPARE	40
41	2 IG QUAD RECEPTS. CLASSROOMS	A2	20 A	1					0.8	0	1	20 A	--	SPARE	42
			Total Load:		11.52 kVA		11.16 kVA		9.96 kVA						
			Total Amps:		97.54		97.54		83						

[Key*:] EACH CIRCUIT SHALL BE PROVIDED WITH AN ADDITIONAL #12 ISOLATED GROUND CONDUCTOR. CONDUITS SHALL BE SIZED PER CEC.

BRANCH CIRCUIT WIRING KEY

WIRE ID	THHW/THWN COPPER CONDUCTORS 2 WIRE	3 WIRE	4 WIRE	EQUIPMENT GROUNDING CONDUCTOR	CONDUIT
A#	2#12	3#12	4#12	1#12	3/4"
B#	2#10	3#10	4#10	1#10	3/4"
C#	2#8	3#8	4#8	1#10	3/4"
D#	2#6	3#6	4#6	1#10	1"
E#	2#4	3#4	4#4	1#8	1 1/4"
F#	2#2	3#2	4#2	1#8	1 1/4"
G#	2#1	3#1	4#1	1#6	1 1/2"
H#	2#1/0	3#1/0	4#1/0	1#6	2"

ALL BRANCH CIRCUITS SHALL INCLUDE THE EQUIPMENT GROUND CONDUCTOR. WIRING SIZE SHALL BE ADJUSTED AS SHOWN ON WIRING NOTES ON SHEET E0.1. WIRING SIZE SHOWN IS MINIMUM SIZE REQUIRED.

MOTOR WIRING SCHEDULE

TAG	DESCRIPTION	Level	VOLTAGE	POLES	HP	APPARENT LOAD	AMPS	Panel	Circuit Number	Comments	SCHEDULE NAME
AHU-1	AHU-1 (SUPPLY FAN)	MEP SCHOOL T/PARAPET	480 V	3	15	16700 VA	21	PPH-2	1,3,5	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
AHU-1.2	AHU-1.2 (RETURN FAN)	MEP SCHOOL T/PARAPET	480 V	3	5	6100 VA		PPH-2	7,9,11	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
AHU-2	AHU-2 (SUPPLY FAN)	MEP SCHOOL T/PARAPET	480 V	3	15	16700 VA	21	PPH-2	13,15,17	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
AHU-2.1	AHU-2.1 (RETURN FAN)	MEP SCHOOL T/PARAPET	480 V	3	7.5	8800 VA		PPH-2	19,21,23	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
BOILER-1	BOILER	MEP SECOND FLOOR	120 V	1		2000 VA	16.6	RP2.1	5	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
BOILER-2	BOILER	MEP SECOND FLOOR	120 V	1		2000 VA	16.6	RP2.1	7	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
CAB-1	CABINET HEATER	MEP FIRST FLOOR	120 V	1	1/4	670 VA	5.8	RP1.1	1	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
CAB-2	CABINET HEATER	MEP FIRST FLOOR	120 V	1	1/4	670 VA	5.8	RP1.1	3	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
CAB-3	CABINET HEATER	MEP FIRST FLOOR	120 V	1	1/6	500 VA	4.4	RP1.1	1	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
CAB-4	CABINET HEATER	MEP FIRST FLOOR	120 V	1	1/6	510 VA	4.4	RP1.1	3	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
CH-1	CHILLER	MEP FIRST FLOOR	480 V	3		171893 VA	207			REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
CU-1	CONDENSING UNIT	MEP SCHOOL T/PARAPET	208 V	2		3744 VA	15	RP2.1	1,3	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
EF-12	EXHAUST FANS	MEP SCHOOL T/PARAPET	480 V	3	1	1700 VA	2.1	PPH-2	25,27,29	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
EF-13	EXHAUST FANS	MEP FIRST FLOOR	120 V	1	1/4	670 VA	5.8	RP1.1	9	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
EF-14	EXHAUST FANS	MEP SCHOOL T/PARAPET	480 V	3	3/4	1300 VA	1.6	PPH-2	31,33,35	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
EF-15	EXHAUST FANS	MEP SECOND FLOOR	120 V	1	1/4	670 VA	5.8	RP2.1	11	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
EUH-1	UNIT HEATER	MEP FIRST FLOOR	208 V	3	4	5000 VA		RP1.2	2,4,6	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
FCU-1	FAN COIL UNIT	MEP FIRST FLOOR	120 V	1	1/4	670 VA	5.8	RP1.1	11	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
FCU-2	FAN COIL UNIT	MEP FIRST FLOOR	120 V	1	1/4	670 VA	5.8	RP1.1	11	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
FCU-3	FAN COIL UNIT	MEP SECOND FLOOR	120 V	1	1/4	670 VA	5.8	RP2.2	25	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
FCU-4	FAN COIL UNIT	MEP SECOND FLOOR	120 V	1	1/4	670 VA	5.8	RP2.2	25	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
GFS-1	GLYCOL FILL SYSTEM	MEP SECOND FLOOR	120 V	1	1/3	830 VA	7.2	RP2.1	9	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
P-1	PUMP	MEP SECOND FLOOR	480 V	3	5	6100 VA		PPH-2	37,39,41	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
P-2	PUMP	MEP SECOND FLOOR	480 V	3	5	6100 VA		PPH-2	2,4,6	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
P-3	PUMP	MEP SECOND FLOOR	480 V	3	1/2	900 VA		PPH-2	8,10,12	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
P-4	PUMP	MEP SECOND FLOOR	480 V	3	1/2	900 VA		PPH-2	14,16,18	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
SSAC-1	SPLIT SYSTEM A/C	MEP FIRST FLOOR	208 V	2		75 VA	1			REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR
UH-1	UNIT HEATER	MEP SECOND FLOOR	120 V	1	1/12	320 VA	2.8	RP2.2	17	REFER TO PANEL SCHEDULE AND WIRING KEY	MOTOR

KITCHEN EQUIPMENT SCHEDULE

TAG	EQUIPMENT TAG	Level	VOLTAGE	POLES	APPARENT LOAD (VA)	Panel	Circuit Number
MOBILE HEATED CABINET	E2	MEP FIRST FLOOR	120 V	1	1500	RP1.1	2
WORK TABLE W/SINK	E3	MEP FIRST FLOOR	120 V	1	1500	RP1.1	4
ROLL IN REFRIGERATOR	E4	MEP FIRST FLOOR	120 V	1	1416.00	RP1.1	6
MILK CASE COOLER	E10	MEP FIRST FLOOR	120 V	1	900.00	RP1.1	8
HOT FOOD COUNTER (NEMA L6-30R)	E11	MEP FIRST FLOOR	208 V	2	3600	RP1.2	15,17
FLAT TOP COUNTER	E12	MEP FIRST FLOOR	120 V	1	200	RP1.2	33
COLD FOOD COUNTER	E13	MEP FIRST FLOOR	120 V	1	700	RP1.1	10
POS SYSTEM	E15	MEP FIRST FLOOR	120 V	1	400	RP1.1	12
WORK TABLE	E16	MEP FIRST FLOOR	120 V	1	1800 VA	RP1.1	14

NOTES:

1. KITCHEN SCHEDULE IS BASED ON FOOD SERVICE EQUIPMENT PLANS AND INFORMATION DATED 4/10/2017FOR ADDITIONAL INFORMATION REFER TO FOOD SERVICE DRAWINGS FS1 AND FS2 FOR ADDITIONAL INFORMATION. VERIFY EQUIPMENT AND LOCATION WITH FOOD SERVICES PROVIDER PRIOR TO STARTING INSTALLATION.
2. RECEPTACLES AND CONNECTIONS LOCATIONS AND MOUNTING HEIGHTS SHALL BE COORDINATED WITH FOOD SERVICES AND ARCHITECTURAL DRAWINGS. FOR EQUIPMENT LOCATED AWAY FROM WALLS RECEPTACLES SHALL BE STUBBED UP MAXIMUM 4"AS NOT TO INTERFERE WITH EQUIPMENT. ALL FLOOR OPENING SHALL BE SEALED.
3. PROVIDE ALL REQUIRED COMPONENTS FOR PROPER OPERATION OF FOOD SERVICES AND POS SYSTEM.

CHICAGO Public Schools
PUBLIC BUILDING COMMISSION
DEPARTMENT OF FACILITIES
CAPITAL IMPROVEMENT PROGRAM

ARCHITRAVE
1128 WEST CHICAGO AVE.
2nd FLOOR
CHICAGO, ILLINOIS 60642
P 312.624.2600
F 312.642.6916
ARCHITECTURE/PLANNING/DESIGN

IMEG CORP.
231 S LASALLE ST, STE 600
CHICAGO, IL 60604
T 312-294-0501

TERRA ENGINEERING, LTD.
225 W OHIO ST, 4TH FL
CHICAGO, IL 60654
T 312-467-0123

HUKESSLER ASSOCIATES, INC.
3660 N LAKE SHORE DRIVE, STE 500
CHICAGO, IL 60613
T 773-975-6467

SHEN MILSOM & WILKE LLC
2 N RIVERSIDE PLAZA #1460
CHICAGO, IL 60606
T 312-559-4585

ILLINOIS ROOF CONSULTING ASSOCIATES, INC.
4302-G CRYSTAL LAKE RD
MCHENRY, IL 60050
T 815-385-6560

EDGE ASSOCIATES, INC.
150 HOUSTON ST, STE 304
BATAVIA, IL 60510
T 630-962-4422

CARNOW, CONIBEAR & ASSOCIATES, LTD.
600 W VAN BUREN ST, STE 500
CHICAGO, IL 60607
T 312-782-4486

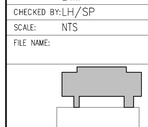
EMILIANO ZAPATA
ACADEMY ANNEX

2728 S KOSTNER AVE
CHICAGO, IL 60623
PBC CONTRACT NO. C1576
PBC PROJECT NO. 05055
CPS PROJECT NO. 2017-23611-ANX

REVISIONS

NO.	Δ	DATE	DESCRIPTION
1		12/12/2016	DESIGN DEVELOPMENT
2		02/07/2017	60% CONSTRUCTION DOCUMENTS
3		03/14/2017	90% CONSTRUCTION DOCUMENTS
4		03/31/2017	ISSUE FOR PERMIT
5		04/10/2017	100% CONSTRUCTION DOCUMENTS
7		07/28/2017	ISSUE FOR BID
8	1	08/15/2017	ADDENDUM#1
9	2	08/22/2017	ADDENDUM#2

DRAWN BY: BIM
CHECKED BY: LH/SP
SCALE: NTS
FILE NAME:



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SHEET TITLE
ELECTRICAL SCHEDULES

DRAWING NO.
E5.3

IMEG
231 SOUTH LASALLE, SUITE 600
CHICAGO, IL 60604
312.294.0501 FAX: 312.294.0503
www.imegcorp.com

PROJECT # 00161225.00
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