ADDENDUM

Public Building Commission of Chicago | Richard J. Daley Center | 50 West Washington Street, Room 200 | Chicago, Illinois 60602 | (312) 744-3090 | pbcchicago.com

ADDENDUM NO.: 3

PROJECT NAME: Read Dunning School

PROJECT NO.: 05165

CONTRACT NO.: C1591

DATE OF ISSUE: March 1, 2018

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

Change 1 Exhibit #2 Insurance Requirements is amended to require the following Additional Insured be included/named in the Commercial General Liability (Primary and Secondary), AND Automobile (Primary and Umbrella) Policies:

- MARYVILLE ACADEMY

Change 2 Contractor is required to waive their rights of subrogation against MARYVILLE ACADEMY in addition to all other required parties as listed in Exhibit #2

ITEM NO. 3: REVISIONS TO BOOK 2 – PBC STANDARD TERMS AND CONDITIONS

None.

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

Change 1 Book 3, Volume 1 – Section 00 01 10 Table of Contents – REVISED per below

Change 2 Book 3, Volume 1 – Section 03 36 00 Polished Concrete Floor Finish- REVISED to include related section 09 97 23

Change 3 Book 3, Volume 1 – Section 05 51 10 Metal Stairs – REVISED to include precast concrete treads

Change 4 Book 3, Volume 1 – Section 09 64 66 Wood Athletic flooring – REVISED to clarify wood grade and species

Change 5 Book 3, Volume 1 – Section 09 65 20 Solid Vinyl Floor Tile – REVISED to clarify basis of design product.

Change 6 Book 3, Volume 1 – Section 09 67 23 Resinous Flooring – ADDED spec section

Change 7 Book 3, Volume 1 – Section 09 91 00 Painting – REVISED to include related spec section 09 97 23, REMOVED subsection 3.17.B, REVISED subsections 3.18.C and 3.18.D.3 Epoxy paint.

Change 8 Book 3, Volume 1 – Section 09 97 23 Concrete Floor Coatings – REVISED to clarify use at polished concrete floors.

Change 9 Book 3, Volume 1 – Section 10 51 13 Metal Lockers – Elementary Schools – REVISED to include 3 custom colors.

Change 10 Book 3, Volume 1 – Section 11 14 00 Food Service Equipment – REVISED Refrigerator rack and milk cooler model number. ADDED chemical shelving.

Change 11 Book 3, Volume 1 – Section 12 24 13 Roller Window Shades - Manual– REVISED to include blackout side channels.

Change 12 Book 3, Volume 1 – Section 12 93 00 Site Furnishings – ADDED Basis of Design manufacturers
Change 13 Book 3, Volume 1 – Section 32 14 33 Unit Paving– ADDED Basis of Design manufacturer, REMOVED non-permeable pavers and related bituminous setting bed section.

ITEM NO. 5: REVISIONS TO DRAWINGS

Change 1. C2.30 Site Dimension Plan – ADDED concrete pads and sidewalk
Change 2. C2.40 Site Dimension Plan – ADDED concrete pads and sidewalk
Change 3. C3.30 Site Grading Plan – REVISED spot grades
Change 4. C3.40 Site Grading Plan – REVISED spot grades
Change 5. C4.10 Site Utility Plan – ADDED notes for wye connections.
Change 6. C4.20 Site Utility Plan – ADDED notes for wye connections. ADDED storm manhole. REVISED storm pipe layout.
Change 7. C4.30 Site Utility Plan - ADDED notes for wye connections. REVISED storm manhole. REVISED transformer and switchgear locations
Change 8. C4.40 Site Utility Plan – ADDED notes for wye connections. ADDED notes for backflow preventer. REVISED sewer connection size. REVISED switchgear location.
Change 9. C4.50 Site Utility Plan – ADDED notes for wye connections. REVISED sewer connection size.
Change 10. C4.60 Site Utility Plan – ADDED notes for wye connections.
Change 11. C6.10 Site Civil Details – REVISED geotextile fabric in detail 3.
Change 12. C6.60 Site Utility Details - REMOVED rectangular frame and grate detail.
Change 13. L1.30 Landscape Plan- REVISED drawing due to changes to the transformer and switchgear area.
Change 14. L1.40 Landscape Plan- REVISED drawing due to changes to the transformer and switchgear area.
Change 15. A0.20 Phasing Plan – ADDED reference note to new sheet A0.21.
Change 16. A0.21 Phasing Plan – ADDED new sheet.
Change 17. A1.13 Partial Site Plan C – ADDED paving at transformer and switchgears.
Change 18. A1.32 Enlarged Site Plans, Sections, Details – REVISED paving at circular bench seat.
Change 19. A1.33 Enlarged Trash Enclosure Details - ADDED paving at transformer and switchgears.
Change 20. A2.11 First Floor Plan Academic Wing Area A – ADDED enlarged detail callouts.
Change 21. A2.12 First Floor Plan Academic Wing Area B – ADDED enlarged detail callouts, rename Unisex Toilet
Change 22. A2.13 First Floor Plan Gym Wing Area C – ADDED enlarged detail callouts.
Change 23. A2.14 First Floor Plan Gym Wing Area D – ADDED enlarged detail callouts, removed sink in Kitchen.
Change 24. A3.12 First Floor Reflected Ceiling Plan Academic Wing Area B – REVISED room number at Unisex
Change 25. A4.14 Window Types, Storefront and Window Wall – ADDED notes regarding curtainwall frit patter
Change 26. A8.10 Enlarged Plan, Elevations, Link/Main Entry - ADDED enlarged detail callouts
Change 27. A8.27 Enlarged Plan, Reception & Administration Area - REVISED room number at Unisex toilet
Change 28. A8.28 Enlarged Plan, Reception & Administration Area - REVISED room number at Unisex toilet
Change 29. A8.41 Enlarged Reflected Ceiling Plan Music Suite - REVISED return diffuser
Change 30. A8.52 Enlarged Plan, Elevations Dining Room - REVISED wall material
Change 31. A8.54 Enlarged Plan, Elevations Kitchen & Servery - REMOVED note referencing ceramic tile.
Change 32. A8.55 Enlarged Plan, Elevations Kitchen & Servery - ADDED outline of serving line equipment
Change 33. A8.60 Enlarged Plan, Elevations Gym - ADDED enlarged detail callouts
Change 34. A10.11 Academic Wing Typical Interior Details – REVISED typical corner detail, revised plan detail at locker interface.
Change 35. A10.31 Typical Interior Details Gym Wing– ADDED reinforcing to shower bench, REVISED from precast to cast in place.
Change 36. A11.10 Typical Millwork Details – REVISED note(s) to clarify finish as wood veneer.
Change 37. A11.20 Millwork Details Lobby Security Desk – REVISED general layout of work surface, revised solid surface at upper surface.

Change 38. A12.10 Door Schedule – REVISED room number at Unisex
Change 39. A13.01 Finish Schedule – ADDED Resinous Floor, REVISED SDF, ADDED note to refer to specification for WSF.
Change 40. A13.12 First Floor Finish Plan Academic Wing Area B – REVISED finishes in Corridor 1160.
Change 41. A13.13 First Floor Finish Plan Gym Wing Area C – REVISED floor at gym office, locker rooms
Change 42. A13.14 First Floor Finish Plan Gym Wing Area D – REVISED floor at Mat Storage 1200, REVISED wall finish at Recycling 1201.
Change 43. S0.2 General Notes – REVISED handrail loading criteria per CBC
Change 44. S2.32 Third Floor Framing Plan Academic Wing Area B – REVISED Link roof framing structural depth
Change 45. M1.13 First Floor Plan Area C Ventilation – REVISED return diffuser at music room.
Change 46. M1.14 First Floor Plan Area D Ventilation – REVISED return diffuser at music room.
Change 47. P1.01 Underground Plan Area A Plumbing – REVISED main pipe size.
Change 48. P1.02 Underground Plan Area B Plumbing – REVISED main pipe size, pipe for DF, FD vents.
Change 49. P1.03 Underground Plan Area C Plumbing – REVISED main pipe size, pipe for EWC, minor revisions to locker room piping.
Change 50. P1.04 Underground Plan Area D Plumbing – REVISED FCO and FD vent
Change 51. P1.11 First Floor Plan Area A Plumbing – REMOVED extraneous vent pipes.
Change 52. P1.12 First Floor Plan Area B Plumbing – REVISED venting, piping for prep room sink.
Change 53. P1.13 First Floor Plan Area C Plumbing – ADDED piping at high ceiling level
Change 54. P1.14 First Floor Plan Area D Plumbing – REVISED Venting, kitchen sink quantity.
Change 55. P1.21 Second Floor Plan Area A Plumbing – REVISED MB piping
Change 56. P1.22 Second Floor Plan Area B Plumbing – REVISED Lab vent piping, Mech. Room FD and OSW.
Change 57. P1.31 Third Floor Plan Area A Plumbing – REVISED Vent pipe or MB riser.
Change 58. P1.32 Third Floor Plan Area B Plumbing – REVISED vent piping and VTR locations, combined BFP for hose bibbs.
Change 59. P1.41 Roof Plan Area A Plumbing – ADDED VTR locations
Change 60. P1.42 Roof Plan Area C Plumbing – ADDED VTR locations
Change 61. P1.44 Roof Plan Area D Plumbing – ADDED VTR locations
Change 62. P4.1 Plumbing Diagrams – REVISED water diagrams
Change 63. P4.2 Plumbing Diagrams – REVISED waste & vent diagrams
Change 64. P4.3 Plumbing Diagrams – REVISED waste & vent diagrams
Change 65. P4.4 Plumbing Diagrams – REVISED waste & vent diagram
Change 66. P4.5 Plumbing Diagrams – REVISED waste and vent diagrams
Change 67. P4.6 Plumbing Diagrams – REVISED water diagram
Change 68. P5.1 Plumbing Schedules – REVISED EWC, SK-1, ADDED note to disregard quantities listed on this sheet and refer to plans.
Change 69. E3.4 Telephone and Data Distribution Diagram – ADDED note clarifying use of conduit and wire basket.
Change 70. E3.5 Telephone and Data Distribution Diagram – ADDED note clarifying use of conduit and wire basket.
Change 71. E5.0 Electrical Schedule – REVISED light fixture schedule.
Change 72. ES1.B Electrical Site Plan Area B – REVISED general note 1.
Change 73. TE0.1 Stage Dimming System: One-Line Diagram – ADDED dimmer rack electrical diagram.
Change 74. FS2.10 First Floor Food Service Equipment Plan – ADDED tag and call out Mop sink and shelving
Change 75. FS3.10 First Floor Food Service Utility Schedules – ADDED call out for mop sink
Change 76. FS4.10 First Floor Food Service Plumbing Plan – ADDED call out for mop sink
Change 77. FS8.10 First Floor Serving Line Elevations / Detail Sheet – ADDED sheet, including serving line elevation, typical details.

ITEM NO. 6: REQUESTS FOR INFORMATION

RFI-1.

Question: Does the 3" OEMC conduit need to be concrete encased for the City Tie?

Response: There is no requirement identified in the Contract Documents for concrete encasement of the OEMC conduit.

RFI-2.

Question: Is the Tele/Data Cabling and the Low Voltage systems cabling in conduit or basket tray? Can you please provide drawings on routing or location if it's in basket tray?

Response: Basket tray is for use in MDF / IDF rooms only. All other cabling is in conduit. Clarification note has been added on sheets E3.4 & E3.5 and included in this addendum.

RFI-3.

Question: Division 12 Furnishing specs Doty and Sons for Precast concrete benches. They have indicated that they will not be bidding. Can you please provide more suppliers that we can reach out to. 'Thank you but we have decided not to quote this project. - Sam Doty/Concrete Products, Inc.'

Response: Forms + Surfaces and Wausau Tile (Tectura Design) are acceptable manufacturers and have been added to Specification section 12 93 00, included in this addendum.

RFI-4.

Question: In the Kitchen & Servery there are walls called out to receive Ceramic Wall Tile. The elevations for this room do not show these details. What height should be figured for the ceramic on these walls? Could an additional elevation be issued to show this portion of the work?

Response: Ceramic Wall Tile on Servery side only as indicated on 2/A8.55 and A13.14 in the Contract Documents. Note indicating "Ceramic Tile on Rear and Side Walls" on 4/A8.54 has been removed and included in this addendum.

RFI-5.

Question: Plumbing - Same plan, P5.1, lists a total of (2) DF-2's. Cannot locate any on plans. Are there any DF-2's, and if so, where are they located?

Response: There are no DF's on sheet P5.1 of the Contract Documents. Drawing P5.1 has been revised and is included in this addendum.

RFI-6.

Question: Plumbing - P4.5, both of the upper right side diagrams: you cannot tie a sanitary vent into an acid vent. They must run up to their own VTR's on the roof. Please correct.

Response: Drawing P4.5 has been revised and is included in this addendum.

RFI-7.

Question: Plumbing - P1.32, for labs 3150 and 3152, where are the sanitary and acid vents that terminate at the roof? They are not shown.

Response: Drawing P1.32 has been revised and is included in this addendum.

RFI-8.

Question: Specification 013560.1 calls for LEEDv2009. This version has been retired by the GBCI & USGBC (more than a year now). Projects can no longer participate in this rating system, unless the project was registered before then. That said, many design and construction elements are heavily affected by moving the certification to LEEDv4, the current rating system. The scorecard is different and the responsibilities change for all players. Can you please verify which rating system will be pursued?

Response: Project was registered with USGBC under LEED FOR SCHOOLS v 2009 in October 2016.

RFI-9.

Question: 4 fire department connections are shown on the FP drawings. This should not be required by Chicago code. Is it to be included as shown regardless or should we only install the number required by code and in the most advantageous locations?

Response: Locations shown in the Contract Documents are per coordination with the Bureau of Fire Prevention during the development of the project. Provide as shown in the Contract Documents.

RFI-10.
Question: Are any areas in the building not maintained at at least 40 degrees?
Response: Yes, the Kitchen cooler and freezer are not maintained at a minimum 40 degrees. Kitchen cooler and freezer indicated to have dry sprinkler heads, shown on sheet F1.14 of the Contract Documents.

RFI-11.
Question: Floor Coatings - Should the epoxy flooring areas labeled as EP follow the concrete floor coating specification or the epoxy floor coatings specification? Please advise.
Response: Epoxy flooring areas labeled as EP should follow 09 97 24 Epoxy Floor Coating Systems specification included in the Contract Documents.

RFI-12.
Question: Missing Plumbing Drawing - Please reference P0.1 as well as P1.22. Both reference drawing P1.23, however, this sheet has been left out of the documents. Please issue sheet P1.23 so the plumbing contractors can have a complete scope of work included in their proposals.
Response: Drawing P1.23 will not be included in the Contract Documents. Drawing P1.22 has been updated to reference P1.13 and is included in this Addendum. Drawing P1.13 has been updated to reference P1.22 and is included in this Addendum.

RFI-13.
Question: A Fall Protection System is shown on A2.41. Will there be a spec section added for this system?
Response: No, a specification for the Fall Arrest system will be added. Fall Arrest detail is shown on 10/A6.41 in the Contract Documents.

RFI-14.
Question: On the finish schedule there is the CONC-1 notation and no description of the system. In the spec there is a polished concrete spec. Is the CONC-1 on finish plan polished concrete? Also, for the epoxy I found 2 different specs, and in the finish plans they call just for EP for the finish. There is the Epoxy Floor Coatings (09 97 24), Concrete coatings spec and the (09 97 23). Looking at the finish plans, it looks like there are a lot of BOH areas like janitors closets and mechanical rooms and then there are the locker rooms. Can you tell me which spec is for what area and if indeed the CONC-1 is the polished concrete areas?
Response: CONC-1 is polished concrete as indicated in sheet A13.01 in the Contract Documents. 09 97 23 Concrete Coatings specification, is the clear coat to be applied to areas scheduled for CONC-1, per finish plans. Reference related specification section 03 36 00 Polished Concrete Floor Finish. 09 97 24 Epoxy Floor Coatings is for areas scheduled as EP finish. Specifications have been revised and are included in this addendum.

RFI-15.
Question: No Corner Guard spec.
Response: Reference specification section 09 21 16, subsection 2.3.A.1 for high strength corner trim, included in the Contract Documents. Detail 2 on sheet A10.11 has been revised and is included in this addendum.

RFI-16.
Question: Is the tack surfaces above the lockers tack boards or rolled cork?
Response: Tack surface above lockers is Felted Polyester Wall Panel. Reference Spec Section 09 77 23 Acoustic Panel Systems, subsection 3.5.A in the Contract Documents.

RFI-17.
Question: Who is an acceptable manufacturer for the scissor lift in the gym?
Response: Basis of Design for the scissor lift in the Gymnatorium is Draper. Reference Spec Section 27 41 16 Schedule A (Equipment List), included in the Contract Documents.

RFI-18.

Question: Floor Finishes - Drawing A13.13 shows flooring type RT-4 in Gym Office 1502, however, RT-4 is not identified on the finish schedule. Please advise.

Response: Floor finish in Gym Office 1502 to be RT-1. Sheet A13.13 has been revised and is included in this addendum.

RFI-19.

Question: Floor Finishes - Please clarify the floor finishes required in Corridor 1160.

Response: Floor finish in Corridor 1160 to be RT-3. Sheet A13.13 has been revised and is included in this addendum.

RFI-20.

Question: Please clarify which general contractors are qualified to bid the project.

Response: The seven firms identified below are eligible to bid on the Read Dunning School Project.

- The George Sollitt Construction Company
- Henry Bros Co.
- James McHugh Construction Company
- K.R. Millers Contractors, Inc.
- Madison Construction Company
- Path Construction Company, Inc.
- Tyler Lane Construction, Inc.

RFI-21.

Question: The sewer specification calls for cathodic protection coated manholes, can you please clarify what is really needed.

Response: There is no reference to "cathodic protection" in the Contract Documents. Specification section 22 14 26, subsection 2.8 of the Contract Documents specifies coal-tar epoxy coating.

RFI-22.

Question: Sheet A1.33 shows the gas meter enclosure as chain link while L1.30 shows same enclosure as ornamental, which is correct?

Response: Gas meter enclosure to be ornamental, per sheet L1.30 of the Contract Documents. Sheet A1.33 has been revised and included in this addendum.

RFI-23.

Question: Detail 1/ L3.02 calls out 9 gauge chain link fence fabric while page 32 31 13 – 1 of the spec book calls out 6 gauge chain link fence fabric, which is correct?

Response: Per specification section 32 31 13 subsection 2.4 B 1 of the Contract Documents, the wire size for the perimeter fence fabric is to be 9 gauge.

RFI-24.

Question: Detail 2/L3.02 calls out hot dip galvanizing for the ornamental fence while spec section 32 31 19 does not, is hot dip galvanizing required (typ. CPS spec is not)?

Response: Per specification section 32 31 19 subsection 2.3 B of the Contract Documents, assemblies are to be immersed in a heated zinc phosphate solution. Galvanizing is a heated zinc coating. All decorative fence components are to be immersed in a heated zinc phosphate solution.

RFI-25.

Question: Detail 1/L3.02 calls out 8’0” on center spacing for chain link fence posts while page 32 31 13 – 5 of the spec book calls out 10’0”, which is correct?

Response: Per specification section 32 31 13 subsection 3.9 C of the Contract Documents, posts are to be spaced at a maximum of 10' unless otherwise indicated. Detail 1 on L3.02 of the Contract Documents indicates that the post spacing shall be 8' on center, maximum. All chain link fence posts are to be spaced at a maximum spacing of 8'-0".

RFI-26.

Question: On sheet A7.11 of the drawings, it is noted that stair D treads and risers are to be precast concrete. Also, on sheet A10.31 detail 13 there are precast concrete benches under the lockers. There is no specification for these precast concrete products, please provide.

Response: Shower benches to be cast-in-place. Detail 13/A10.31 has been revised and included in this addendum. Specification section 05 51 50 has been revised to include pre-cast stair treads and is included in this addendum.

RFI-27.

Question: Reference detail 7/A1.32. Eco-Line pavers are shown in a circular, radial pattern. Eco-Line pavers are intended for mechanical installation in a random linear pattern. There are 8 different paver shapes that compose the "random" runningbond/linear look. Please advise how to install the Eco-Line pavers in a circular, radial pattern.

Response: Pattern has been revised to linear in lieu of radial. Drawing sheet A1.32 has been revised and included in this addendum.

RFI-28.

Question: Reference detail 7/A1.32 and specification 32 14 43 – Unit Paving. The unit paving specification does not specify any pavers for the plaza. Detail 7/A1.32 specifies Eco-Line pavers and colors, but does not specify finish. Please advise on the finish of the Eco-Line pavers in the plaza area.

Response: Specification section 32 14 43 has been revised to clarify plaza pavers finish and is included in this addendum.

RFI-29.

Question: Reference specification 32 14 43 – Unit Paving. The unit paving specification does not specify any pavers for the parking lot. Please advise which paver, paver finish, and paver color is to be installed in the parking lot.

Response: All pavers are to be permeable. Specification section 32 14 43 has been revised to clarify and is included in this addendum.

RFI-30.

Question: Should this lab casework be wood or laminate? It says laminate wood with epoxy resin tops? can you clarify?

Response: Lab casework to be wood veneer, per specification section 12 35 53 in the Contract Documents. Drawing sheet A11.10 has been revised and are included in this addendum.

RFI-31.

Question: Item #6 – Pan Rack Model number specified for alternate New Age 1336 unit has 5" spacing in lieu of 3" should be Model 1335 please confirm 1366 is what they want

Response: The model number has been revised to New Age # 1335 and is included in this addendum.

RFI-32.

Question: Item #19 – Milk Cooler requesting True Model TMC-58-S-SS (58" wide unit) shown with Bev Air and Norlake unit being 49" wide units please confirm

Response: Provide True # TMC-49-S-SS in lieu of originally specified unit. Specification section 11 14 00 has been revised and is included in this addendum.

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RFI-33.

Question: Do you have any more drawings for this project? The specifications are referring to details that are not on the drawings supplied.

ITEM 7 PREP TABLE W/ SINK

Custom fabricated, NSF
Quantity: One (1) 7'-0" x 2'-6" x 3'-10" O.A.
One (1) 7'-6" x 2'-6" x 3'-10" O.A.

- General construction per standard detail 1, 2, 8 and 10.
- Rim per detail 5d at front and right end.
- Backsplash per detail 3b and 4a at rear and walls.
- Legs and feet per detail 6.
- One (1) 20" x 20" x 12" deep sink where shown fitted with lever waste and faucet.
- 16 gauge stainless steel undershelf clear of sink compartment
- One (1) 20" x 20" x 5" deep stainless steel drawer/housing.

Response: Sheet FS8.10 has been revised to include reference details and is included in this addendum.

RFI-34.

Question: I wanted to clarify a few areas with you regarding the roller shades. The manual shades are not to be included in the administrative offices. Does this also exclude rooms: 1125 Faculty, 1126 Meeting, 2100 Faculty Lounge as well?

Response: Reference rooms 1125 Faculty, 1126 Meeting and 2100 Faculty Lounge are not located within the administrative offices and should therefore receive manual shades as specified in specification section 12 24 13 in the Contract Documents.

RFI-35.

Question: Sheets A8.23 and A8.24 list blackout out shades for rooms 1153 Science Lab and 2152 Biology Lab. Does this also include Biology Lab 2150? The specification calls for blackout shades on the motorized shades only. I want to confirm that the classroom shades are to be manual not motorized.

Response: Blackout shades to be provided in Biology Lab 2150 (similar at 1150, 3150 & 3152) per sheet A8.23 & A8.24 in the Contract Documents. Specification section 12 24 13 has been revised to include blackout manual shades and is included in this addendum. All classroom shades to be manual per Section 12 24 13 in the Contract Documents.

RFI-36.

Question: Please confirm that the clerestory windows in room 1700 are to receive manual shades. Section 1 on A4.21 refers to section 2 on sheet A5.32 which refers to detail 2 on sheet 6.10. Detail 2 calls for manual shades. Most of the time clerestory windows receive motorized roller shades.

Response: No shades are to be provided at clerestory windows in room 1700 per Section 2/A5.32. Detail 2/A6.10 is referenced as a similar condition in the Contract Documents.

RFI-37.

Question: Spec 09 65 20 is listing a different Gerflor spec than what the finish legend is listing (Accord 300 vs. Mipolam Elegance). What spec should we be using?
• Gerflor Mipolam Elegance is only available in rolls and you finish legend is calling out it out to be a tile.

Response: Gerflor Mipolam Elegance is available in tiles (500 sq meter min) and to be used. Specification section 09 65 20 has been revised and is included in this addendum.

RFI-38.

Question: SDF Gerflor Mipolam Elegance EL5 is available in both a roll and tile. What should be figured?

Response: Gerflor Mipolam Elegance to be provided as Modular Tile per specification section 09 65 20 in the Contract Documents. Product designation has been revised to EL-7 on sheet A13.01, included in this addendum

RFI-39.

Question: Mat Storage 1200 is calling out for RT-4 but RT-4 is not listed on the finish legend. What is the spec for RT-4?

Response: Floor finish in Mat Storage 1200 to be RT-1. Sheet A13.14 has been revised and is included in this addendum.

RFI-40.

Question: What finish should be figured on the lift at the stage?

Response: Lift finish to be textured stainless steel, per detail 5/ADA18.2 in the Contract Documents.

RFI-41.

Question: Please confirm the open stairwell (D1) scope of work and material specs

Response: Stair treads and risers to be precast per A7.11 in the Contract Documents. Resilient tile (RT-2) at Corridor 2191 to abut Tactile Warning Tile (TWT) at top of stairs per A13.22 in the Contract Documents.

RFI-42.

Question: What finish should be figured in the elevator cab

Response: Textured stainless steel as indicated on sheets ADA17.1 and A7.30 and Specification section 14 24 23 in the Contract Documents.

RFI-43.

Question: What is the grade for the Maple Wood Athletic Flooring?

Response: Wood floor to be Species Northern Hard Maple and Grade Second and Better Grade. Specification section 09 64 66 has been revised and is included in this addendum.

RFI-44.

Question: The fritted Insulated glass for the Curtainwall and the clerestory - the specification on the glass says the design is on the drawings. None is shown.

Response: Pattern is shown on sheet A4.14 of the Contract Documents. Notes have been added to the sheet for clarity, which is included in this addendum.

RFI-45.

Question: Running through the finish drawings, I noticed there are two room 1170's. Unisex Bathroom 1170 & Men's Toilet 1170.

Response: The Unisex bathroom 1170 room number has been revised to 1159. Sheet A2.12 has been revised and is included in this addendum.

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List of Attachments and Drawings:

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

1. Section 00 01 10 Table of Contents
2. Section 03 36 00 Polished Concrete Floor Finish
3. Section 05 51 10 Metal Stairs
4. Section 09 64 66 Wood Athletic Flooring
5. Section 09 65 20 Solid Vinyl Floor Tile
6. Section 09 67 23 Resinous Flooring
7. Section 09 91 00 Painting
8. Section 09 97 23 Concrete Floor Coatings
9. Section 10 51 13 Metal Lockers – Elementary Schools
10. Section 11 14 00 Food Service Equipment
11. Section 12 24 13 Roller Window Shades – Manual
12. Section 12 93 00 Site Furnishings
13. Section 32 14 43 Unit Paving

This Addendum includes the following attached Drawings:

1. C2.30 Site Dimension Plan – dated 02/28/2018
2. C2.40 Site Dimension Plan – dated 02/28/2018
3. C3.30 Site Grading Plan – dated 02/28/2018
4. C3.40 Site Grading Plan – dated 02/28/2018
5. C4.10 Site Utility Plan – dated 02/28/2018
6. C4.20 Site Utility Plan – dated 02/28/2018
7. C4.30 Site Utility Plan – dated 02/28/2018
8. C4.40 Site Utility Plan – dated 02/28/2018
9. C4.50 Site Utility Plan – dated 02/28/2018
10. C4.60 Site Utility Plan – dated 02/28/2018
11. C6.10 Site Civil Details – dated 02/28/2018
12. C6.60 Site Utility Details – dated 02/28/2018
13. L1.30 Landscape Plan – dated 02/28/2018
14. L1.40 Landscape Plan – dated 02/28/2018
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16. A0.21 Phasing Plan – dated 02/28/2018
17. A1.13 Partial Site Plan C – dated 02/28/2018
18. A1.32 Enlarged Site Plans, Sections, Details – dated 02/28/2018
19. A1.33 Enlarged Trash Enclosure Details – dated 02/28/2018
20. A2.11 First Floor Plan Academic Wing Area A – dated 02/28/2018
21. A2.12 First Floor Plan Academic Wing Area B – dated 02/28/2018
22. A2.13 First Floor Plan Gym Wing Area C – dated 02/28/2018
23. A2.14 First Floor Plan Gym Wing Area D – dated 02/28/2018
24. A3.12 First Floor Reflected Ceiling Plan Academic Wing Area B – dated 02/28/2018
25. A4.14 Window Types, Storefront and Window
26. A8.10 Enlarged Plan, Elevations, Link/Main Entry – dated 02/28/2018
27. A8.27 Enlarged Plan, Reception & Administration Area – dated 02/28/2018
28. A8.28 Enlarged Plan, Reception & Administration Area – dated 02/28/2018
29. A8.41 Enlarged Reflected Ceiling Plan Music Suite – dated 02/28/2018
30. A8.52 Enlarged Plan, Elevations Dining Room – dated 02/28/2018
31. A8.54 Enlarged Plan, Elevations Kitchen & Servery – dated 02/28/2018
32. A8.55 Enlarged Plan, Elevations Kitchen & Servery – dated 02/28/2018
33. A8.60 Enlarged Plan, Elevations Gym – dated 02/28/2018
34. A10.11 Academic Wing Typical Interior Details – dated 02/28/2018
35. A10.31 Typical Interior Details Gym – dated 02/28/2018
36. A11.10 Typical Millwork Details – dated 02/28/2018

37. A11.20 Millwork Details Lobby Security Desk – dated 02/28/2018
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39. A13.01 Finish Schedule –dated 02/28/2018
40. A13.12 First Floor Finish Plan Academic Wing Area B – dated 02/28/2018
41. A13.13 First Floor Finish Plan Gym Wing Area D – dated 02/28/2018
42. A13.14 First Floor Finish Plan Gym Wing Area D – dated 02/28/2018
43. S0.2 General Notes – dated 02/28/2018
44. S2.32 Third Floor Framing Plan Academic Wing Area B – dated 02/28/2018
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50. P1.04 Underground Plan Area D Plumbing - dated 02/28/2018
51. P1.11 First Floor Plan Area A Plumbing - dated 02/28/2018
52. P1.12 First Floor Plan Area B Plumbing - dated 02/28/2018
53. P1.13 First Floor Plan Area C Plumbing - dated 02/28/2018
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70. E5.0 Electrical Schedules – dated 02/28/2018
71. ES1.B Electrical Site Plan Area B – dated 02/28/2018
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73. FS2.10 First Floor Food Service Equipment Plan – dated 02/28/2018
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75. FS4.10 First Floor Food Service Plumbing Plan – dated 02/28/2018
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FACILITY SERVICES SUBGROUP

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SITE AND INFRASTRUCTURE SUBGROUP

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31 23 17	Excavating, Backfilling, and Compacting for Utilities	03_06/30/08
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32 84 23	Underground Irrigation System	18_07/23/14
32 91 19.13	Topsoil Placement and Grading	01_03/20/09
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DIVISION 35 – WATERWAY AND MARINE CONSTRUCTION (NOT USED)

DIVISION 36 – RESERVED FOR FUTURE EXPANSION

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DIVISION 46 – WATER AND WASTE WATER EQUIPMENT (NOT USED)

DIVISION 47 – RESERVED FOR FUTURE EXPANSION

DIVISION 48 – ELECTRICAL POWER GENERATION (NOT USED)

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SPECIFICATIONS VOLUME 3 – APPENDIX OF OWNER-PROVIDED DOCUMENTS:

APPENDIX A: OWNER-PROVIDED DOCUMENTS – FOR REFERENCE ONLY:

1.	GEOPHYSICAL SURVEY REPORT	February 2017
2.	PHASE I ENVIRONMENTAL SITE ASSESSMENT – NORTHEAST	February 2017
3.	PHASE I ENVIRONMENTAL SITE ASSESSMENT – SOUTHWEST	February 2017
4.	PRELIMINARY GEOTECHNICAL REPORT	February 2017
5.	PHASE II ENVIRONMENTAL SITE ASSESSMENT – NORTHEAST	March 2017
6.	PHASE II ENVIRONMENTAL SITE ASSESSMENT – SOUTHWEST	March 2017
7.	GEOTECHNICAL INVESTIGATION REPORT	March 2017
8.	EXPLORATORY TEST PIT SUMMARY REPORT	March 2017
9.	COMPREHENSIVE SIR ROR RAP NE PARCEL	July 2017
10.	COMPREHENSIVE SIR ROR RAP SW PARCEL	July 2017
11.	ASBESTOS SURVEY REPORT: UTILITY TUNNELS	July 2017
12.	ASBESTOS SURVEY REPORT: FOUNDATION PADS	August 2017
13.	ASBESTOS SURVEY REPORT: STEAM PIPES	September 2017

APPENDIX B: ARCHAEOLOGICAL REPORTS:

14.	ARCHAEOLOGICAL WEEKLY DIG REPORTS	August - September 2017
15.	ARCHAEOLOGICAL INVESTIGATIONS	September 2017
16.	TRAFFIC IMPACT STUDY – PROPOSED SCHOOL DEVELOPMENT	November 2017

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SECTION 033600 – POLISHED CONCRETE FLOOR FINISH

PART 1 - GENERAL

1. 1 SUMMARY

A. This section includes the following.
   1. Polished concrete floor finishes including sealer and hardener.

B. Related Sections:
   1. Section 033000 Cast-In-Place Concrete
   2. **Section 09 97 23 Concrete Floor Coatings for clear coat for polished concrete floors.**

1.2 REFERENCES

A. American Society for Testing and Materials:
   1. ASTM-C779, Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces
   2. ASTM G23-81, Ultraviolet Light & Water Spray
   3. ASTM C805, Impact Strength

B. American Concrete Institute
   1. ACI 302. 1R-89, Guide for Concrete Floor and Slab Construction

C. Other Test:
   1. Reflectivity

1.3 SUBMITTALS

A. Comply with pertinent provisions of Section 01600- Product Requirements.
   1. Provide submittal information within 35 calendar days after the contractor has received the owner's notice to proceed.

B . Product data:
   1. Submit special concrete finishes manufacturer's specifications and test data.
   2. Submit special concrete finishes describing product to be provided, giving manufacturer’s name and product name for the specified material proposed to be provided under this section.
   3. Submit special concrete finishes manufacturer's recommended installation procedures; which when approved by the Architect, will become the basis for accepting or rejecting actual installation procedures used on the work.
   4. Submit special concrete finishes technical data sheet giving descriptive data, curing time, and application requirements.
   5. Submit special concrete finishes manufacturer’s Material Safety Data Sheet (MSDS) and other safety requirements.
   6. Follow all special concrete finishes published manufacturer’s installation instructions.

C. Test Reports:
1. Provide certified test reports, prepared by an independent testing laboratory, confirming compliance with specified performance criteria.

D. LEED Submittals:
1. LEED Credit EQ 4: Submit manufacturers' product data proving that the product 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

E. Compatibility Mock-up: Provide polished concrete floor finish on concrete mockup provided under Division 03 Section "Porosity Inhibiting Concrete Admixture (PIA)". Confirm no adverse effects of low-porosity concrete on polished concrete finish installation.

1. Schedule: Mock-up shall be completed prior to the placement of any building slabs.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Meet with Owner, Architect, manufacturer's representative, and installers whose work interfaces with or affects concrete finish..
2. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
3. Review methods and procedures related to application, including manufacturer's written instructions.
4. Review governing regulations and requirements for insurance, certificates, and tests and inspections if applicable.
5. Review protection requirements for floor finish after application..
6. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

1.5 QUALITY ASSURANCE

A. Installer Qualifications:
1. Use an experienced installer and adequate number of skilled workmen who are thoroughly trained and experienced in the necessary craft.
2. The special concrete finish manufacturer shall certify applicator.
3. Applicator shall be familiar with the specified requirements and the methods needed for proper performance of work of this section.

B. Manufacturer's Certification:
1. Provide letter of certification from concrete finish manufacturer stating that installer is certified applicator of special concrete finishes, and is familiar with proper procedures and installation requirements required by the

manufacturer.

C. Aesthetic Mock-ups:
1. Refer to specification section 033000 for concrete floor mockup sizes.
2. Polished finish: Provide polished finish mockups on concrete floor mockups. Mock-up to include hardener, sealer, and polishing to required sheen.
3. Establish acceptable range of color and aggregate exposure
4. Maintain mockup in protected and undisturbed condition until final acceptance of project polished concrete.

D. Protection
1. Protect concrete slabs from petroleum and other stains before and after polishing, as there are no satisfactory chemical or cleaning procedures available to remove stains from the concrete surface once absorbed. Prevention is therefore essential.
   a. Diaper all hydraulic powered equipment to prevent staining of the concrete.
   b. Do not allow vehicles to be parked on the interior slab areas to receive polished finish without adequate protection.
   c. Do not use pipe cutting machines on the inside floor slab.
   d. Do not place steel on interior slab to avoid rust staining.
   e. Do not allow acids or acidic detergents to come into contact with slab.
   f. Require all trades to protect the slab at all times.

1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver materials in original containers, with seal's unbroken, bearing manufacturer labels indicating brand name and directions for storage.

B. Dispense special concrete finish material from factory numbered and sealed containers. Maintain record of container numbers.

1.6 PROJECT CONDITIONS

A. Environmental limitations:
1. Comply with manufacturers written instructions for substrate temperature and moisture content, ambient temperature and humidity, ventilation, and other conditions affecting topping performance.
   a. Refer to specification section 033000 "Cast-in-Place Concrete" for floor flatness and levelness requirements.
   b. Concrete must be cured a minimum of 45 days or as directed by the manufacturer before application of concrete polishing can begin.

B. Close areas to traffic during floor application and after application, for time period recommended in writing by manufacturer.

PART 2 – PRODUCTS

2.1 MATERIALS AND MANUFACTURERS

A. HARDENING/SEALING AGENT
1. Provide the product named below:
a. Retro-Plate 99; Advanced Floor Products, Inc

2. Performance Criteria:
a. Abrasion Resistance: ASTM C770: Minimum 400 percent increase in abrasion resistance
b. Impact Strength: ASTM C805: Minimum 21 percent increase in impact strength
c. Ultra-violet Light and Water Spray: ASTM G23-81: No adverse impact.
d. Reflectivity: Minimum 30 percent increase in reflectivity.

B. POLISHING
1. 800-Grit polishing to match Architect's sample for color, polish and sheen.

2.2 RELATED MATERIALS

A. Neutralizing Agent:
1. Tri-sodium Phosphate

B. Water:
1. Potable

PART 3- EXECUTION

3.1 SURFACE CONDITIONS:

A. Examine substrate, with installer present, for conditions affecting performance of finish. Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected.

B. Verify that base slab meet finish and surface profile requirements in Division 3 Section "Cast-In-Place Concrete," and Project Conditions above.

C. Prior to application, verify that floor surfaces are free of construction latents.

3.2 APPLICATION

A. Start any of the floor finish applications in presence of manufacturer's technical representative.

B. Sealing, Hardening and Polishing of Concrete Surface

1. Concrete must be in place a minimum of 45 days or as directed by the manufacturer before application can begin.
2. Follow manufacturer's written instructions and procedures.
3. Achieve waterproofing, hardening, dust-proofing, and abrasion resistance of the surface without changing the natural appearance of the concrete, except for the sheen.
4. Polish to required sheen level to match approved mock-up.

3.3 WORKMANSHIP AND CLEANING:

A. The premises shall be kept clean and free of debris at all times.

B. Remove spatter from adjoining surfaces, as necessary.

C. Repair damages to surface caused by cleaning operations.

D. Remove debris from jobsite
1. Dispose of materials in separate, closed containers in accordance with local regulations.

3.4 PROTECTION:

A. Protect finished work until fully cured in accordance with manufacturer's recommendations.

END OF SECTION 033600

SECTION 05 51 10

METAL STAIRS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Preassembled steel stairs with **precast concrete and** concrete-filled steel pan treads and landings.
2. Steel guardrails attached to stair stringers with bar-stock, angle frames, and metal picket guard infill panels.
3. Steel tube railings attached to metal stairs.
4. Steel tube handrails attached to walls adjacent to metal stairs

B. Related Sections include the following:

1. Section 01 35 60.1 LEED Requirements
2. Section 03 30 00 Cast-In-Place Concrete
3. Section 04 20 00 Unit Masonry
4. Section 05 50 00 Metal Fabrications, for railings not attached to metal stairs.
5. Section 07 92 00 Joint Sealants

C. The materials in this Section are part of the overall USGBC "Leadership in Energy and Environmental Design" LEED prerequisites and credits needed for Project to obtain LEED Silver certification based on *LEED 2009 for Schools* requirements. See Section 01 35 60.1 LEED Requirements and this section for more information.

1.2 PERFORMANCE REQUIREMENTS

A. Delegated Design: Design metal stairs, including comprehensive engineering analysis by a state of Illinois Licensed Structural Engineer, using performance requirements and design criteria indicated.

B. Structural Performance of Stairs: Metal stairs shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated.

1. Uniform Load: 100 lbf/sq. ft.
2. Concentrated Load: 300 lbf applied on an area of 4 sq. in.
3. Uniform and concentrated loads need not be assumed to act concurrently.
4. Stair Framing: Capable of withstanding stresses resulting from railing loads in addition to loads specified above.
5. Limit deflection of treads, platforms, and framing members to L/240 or 1/4 inch, whichever is less.
6. Structural Performance of Railings: Railings shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated.

C. Handrails and Top Rails of Guards:

1. Uniform load of 50 lbf/ ft. applied in any direction.

2. Concentrated load of 200 lbf applied in any direction.
3. Uniform and concentrated loads need not be assumed to act concurrently.

D. Infill of Guards:

1. Concentrated load of 50 lbf applied horizontally on an area of 1 sq. ft.
2. Infill load and other loads need not be assumed to act concurrently.

1.3 SUBMITTALS

A. Product Data: For metal stairs and the following:

1. Paint products.
2. Grout
3. **Precast concrete treads.**

B. LEED Submittals:

1. Credit MR 4: Submit product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include statement indicating costs for each product having recycled content.

2. Credit MR 5: 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.

C. Shop Drawings:
1. Provide templates for anchors and bolts specified for installation under other Sections
2. Where structural performance is required under "Performance Requirements", provide drawings signed and sealed by a state of Illinois licensed structural engineer with a statement of compliance with "Quality Assurance" requirements of this specification.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

B. NAAMM Stair Standard: Comply with "Recommended Voluntary Minimum Standards for Fixed Metal Stairs" in NAAMM AMP 510, "Metal Stairs Manual," for class of stair designated, unless more stringent requirements are indicated.

1. Preassembled Stairs: Commercial class.

C. Welding: Qualify procedures and personnel according to the following:

1. AWS D1.1, "Structural Welding Code--Steel."
2. AWS D1.3, "Structural Welding Code--Sheet Steel."

D. Safety and Accessibility Features: Engineer and fabricate stairs and railings to comply with requirements of Chicago Building Code, including headroom, handrail and guardrail locations, projection, height, baluster spacing.

1. Accessibility Requirements: Furnish and install metal fabrications to comply with ADA "Accessibility Guidelines for Buildings and Facilities" Code, Illinois Accessibility Code, and ANSI A117.1 2003.

1.5 QUALITY CONTROL

A. The Owner will engage an independent testing and inspection agency to inspect fabrication of metal stairs prior to delivery.

B. The Owner will engage an independent testing and inspection agency to inspect high-strength bolted connections and welded connections and to perform tests and prepare test reports.

1. The Owner's Testing Agency will conduct and interpret the tests and state in each report whether the test specimens comply with the requirements, and specifically state any deviations there from.

C. The Architect reserves the right to reject material not complying with specified requirements.

D. Correct deficiencies which inspections and laboratory test reports have indicated to be not in compliance with requirements. The Owner may have additional tests performed, at Contractor's expense, as may be necessary to reconfirm any non-compliance of the original Work, and as may be necessary to show compliance of corrected Work.

E. Contractor's Responsibilities

1. Notify Owner's Testing Agency sufficiently in advance of operations to allow for his assignment of personnel and scheduling of tests.
2. Coordinate with Agencies' personnel; provide access to Work and to plant operations.
3. Furnish casual labor and facilities to provide access to Work to be tested to facilitate inspections and tests.

1.6 COORDINATION

A. Coordinate installation of anchorages for metal stairs. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

B. Coordinate locations of hanger rods and struts with other work so that they will not encroach on required stair width and will be within the fire-resistance-rated stair enclosure.

PART 2 - PRODUCTS

2.1 METALS, GENERAL

A. LEED Requirements: Provide at least 90% recycled steel content steel sections produced within 500 miles of the site.

B. Metal Surfaces, General: Provide materials with smooth, flat surfaces, unless otherwise indicated. For components exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

2.2 FERROUS METALS

A. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.

B. Steel Tubing: ASTM A 500 (cold formed) or ASTM A 513, Type 5 (mandrel drawn).

C. Iron Castings: Either gray or malleable iron, unless otherwise indicated.

1. Gray Iron: ASTM A 48/A 48M, Class 30, unless another class is indicated or required by structural loads.
2. Malleable Iron: ASTM A 47/A 47M.

D. Uncoated, Hot-Rolled Steel Sheet: ASTM A 1011/A 1011M, either commercial steel, Type B, or structural steel, Grade 30, unless another grade is required by design loads.

E. Expanded-Metal, Carbon Steel: ASTM F 1267, Type I (expanded), Class 1 (uncoated).

1. Style Designation: As indicated on the Drawings.

2.3 FASTENERS

A. General: Provide zinc-plated fasteners with coating complying with ASTM B 633, Class Fe/Zn 25 for exterior use, and Class Fe/Zn 5 where built into exterior walls. Select fasteners for type, grade, and class required.

B. Bolts and Nuts: Regular hexagon-head bolts, ASTM A 307, Grade A; with hex nuts, ASTM A 563; and, where indicated, flat washers.

C. Machine Screws: ASME B18.6.3.

D. Lag Bolts: ASME B18.2.1.

E. Plain Washers: Round, ASME B18.22.1.

F. Lock Washers: Helical, spring type, ASME B18.21.1.

G. Post-Installed Anchors: Torque-controlled expansion anchors or chemical anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488, conducted by a qualified independent testing agency.

1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, unless otherwise indicated.

2.4 MISCELLANEOUS MATERIALS

A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

B. Primer Paint: Primer, Rust-Inhibitive, Water Based, MPI # 107

1. One of the following:

1. B. Moore: M04 Acrylic Metal Primer.
2. Duron Paints: Dura Clad Universal Acrylic Metal Primer.
3. Sherwin-Williams: Industrial & Marine DTM Acrylic Primer/Finish

2. Anti-Corrosive and Anti-Rust Paints Applied to Ferrous Metals: VOC not more than 250 g/L.

C. Bituminous Paint for Field Application: Cold-applied asphalt emulsion complying with ASTM D 1187 meeting the requirements of the California Department of Health Services Standard Practice for The Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.

D. Nonshrink, Nonmetallic Grout: Factory-packaged, non-staining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout specifically recommended by manufacturer for interior and exterior applications.

2.5 CONCRETE FOR CONCRETE FILLED TREADS AND PLATFORMS

A. Concrete Materials and Properties: For stair landings and tread infill comply with requirements in Division 3 Section "Cast-in-Place Concrete" for light-weight, ready-mix concrete with a minimum 28-day compressive strength of 5000 psi unless otherwise indicated on structural drawings.

B. Welded Wire Fabric: ASTM A 185/A 185M, 6 by 6 inches (152 by 152 mm), W1.4 by W1.4, unless otherwise indicated on structural drawings, or if not required by delegated designer.

C. Install cast-in-place concrete in metal pan treads where shown and at partial treads at floor landings.

1. Recessed Abrasive Stair Tread Inserts: Wooster-Products Spectra Type WP1, 3/4" (19.05mm) wide, for recess into concrete stair tread and landing step surfaces in metal pan stair assemblies.

a. Install abrasive inserts in saw cut grooves sized to accept inserts.

2.6 PRECAST CONCRETE TREADS

A. Concrete Materials and Properties: Comply with requirements in Section 033000 "Cast-in-Place Concrete" for normal-weight, ready-mixed concrete with a minimum 28-day compressive strength of 5000 psi (35 MPa). Total air content of not less than 4 percent or more than 6 percent.

B. **Reinforcing Wire Fabric: Galvanized, welded wire fabric, 2 by 2 inches (50 by 50 mm) by 0.062-inch- (1.6-mm-) diameter wire; comply with ASTM A 185/A 185M and ASTM A 82/A 82M, except for minimum wire size**.

C. **Reinforcing bars: Epoxy-Coated Reinforcing Bars: ASTM A 775/A 775M**.

D. Profile: as indicated

E. Thickness: As detailed on drawings, or as required to support indicated

F. Recessed Non-slip nosing insert: Manufacturer's standard cast-in abrasive inserts.

G. Finish: Ground, polished finish, 800 grit, to match adjacent polished concrete floor.

2.7 FABRICATION, GENERAL

A. LEED Requirement: Fabricate within 500 miles of the Project.

B. Provide complete stair assemblies, including metal framing, hangers, struts, railings, clips, brackets, bearing plates, and other components necessary to support and anchor stairs and platforms on supporting structure.

1. Join components by welding, unless otherwise indicated.
2. Use connections that maintain structural value of joined pieces.

C. Preassembled Stairs: Assemble stairs in shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.

D. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch, unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.

E. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

F. Form exposed work true to line and level with accurate angles and surfaces and straight edges.

G. Weld connections to comply with the following:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. Weld exposed corners and seams continuously, unless otherwise indicated.
5. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.
6. Backer bars or rods shall be removed after welding.

H. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) screws or bolts unless otherwise indicated. Locate joints where least conspicuous.

I. Fabricate joints that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

2.8 STEEL-FRAMED STAIRS

A. Stair Framing:

1. Fabricate stringers of steel plates or channels, as indicated on the drawings.

    1. Provide closures for exposed ends of channel stringers.

2. Construct platforms of steel plate or channel headers and miscellaneous framing members as needed to comply with performance requirements.

3. Weld stringers to headers; weld framing members to stringers and headers.
4. Where stairs are enclosed by gypsum board assemblies, provide hanger rods or struts to support landings from beams and floor construction above or below. Locate hanger rods and struts where they will not encroach on required stair width and will be within the fire-resistance- rated stair enclosure.
5. Where masonry walls support metal stairs, provide temporary supporting struts designed for erecting steel stair components before installing masonry.

B. Metal Stairs: Form risers, treads, and platforms to configurations shown from steel sheet of thickness needed to comply with performance requirements but not less than 0.067 inch.

1. Steel Sheet: Uncoated hot-rolled steel sheet.
2. Directly weld metal pans to stringers; locate welds on top of treads where they will be concealed by precast concrete treads or concrete fill. Do not weld risers to stringers.
3. Attach risers and treads to stringers with brackets made of steel angles or bars. Weld brackets to stringers and attach metal pans to brackets by welding or bolting.
4. Provide platforms of configuration indicated or, if not indicated, the same as treads. Weld platforms to platform framing.

    1. Smooth Soffit Construction: Construct platforms with smooth soffits.

2.9 STEEL TUBE RAILINGS

A. General: Fabricate railings to comply with requirements indicated for design, dimensions, details, finish, and member sizes, including wall thickness of tube, post spacings, and anchorage, but not less than that needed to withstand indicated loads.

1. Steel Picket Infill: Steel round bar or round tubing pickets, ½”outside diameter.

B. Configuration: As indicated.

C. Welded Connections: Fabricate railings with welded connections. Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings. All welds shall be smooth and without burrs.

D. Form changes in direction of railings as follows:

1. As detailed.

E. Form simple and compound curves by bending members in jigs to produce uniform curvature for each repetitive configuration required; maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.

F. Close exposed ends of railing members with prefabricated end fittings.

G. Provide wall returns at ends of wall-mounted handrails, unless otherwise indicated. Close ends of returns unless clearance between end of rail and wall is 1/4 inch or less.

H. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, end closures, flanges, miscellaneous fittings, and anchors for interconnecting components and for attaching to other work. Furnish inserts and other anchorage devices for connecting to concrete or masonry work.
1. Connect posts to stair framing by direct welding, unless otherwise indicated.
2. Provide non-galvanized ferrous-metal fittings, brackets, fasteners, and sleeves, except

galvanize anchors embedded in exterior masonry and concrete construction.

I. Fillers: Provide fillers made from steel plate, or other suitably crush-resistant material, where needed to transfer wall bracket loads through wall finishes to structural supports. Size fillers to suit wall finish thicknesses and to produce adequate bearing area to prevent bracket rotation and overstressing of substrate.

2.10 SHOP FINISHING

A. Shop Painting:

1. Shop paint ferrous metalwork except surfaces and edges to be field welded.
2. Remove scale, rust and other deleterious materials before the shop coat of paint is applied. Remove oil, grease and similar contaminants in accordance with SSPC SP-1 "Solvent Cleaning." Clean off heavy rust and loose mill scale in accordance with SSPC SP-2 "Hand Tool Cleaning," SSPC SP-3 "Power Tool Cleaning," or SSPC SP-7 "Brush-Off Blast Cleaning."
3. Apply one shop coat of metal primer paint to fabricated metal items, except apply 2 coats of paint to surfaces which are inaccessible after assembly or erection. Change color of second coat to distinguish it from the first.
4. Immediately after surface preparation, brush or spray on metal primer paint, applied in accordance with the manufacturer's instructions and at a rate to provide a uniform, dry film thickness of 2.0 mils for each coat. Use painting methods which will result in full coverage of joints, corners, edges and all exposed surfaces.

B. Corrosion Protection: Coat concealed surfaces which will be in contact with concrete, masonry, wood, or dissimilar metals, in exterior work and work to be built into exterior and below grade walls and decks, with a heavy coat of bituminous paint. Do not extend coating onto exposed surfaces.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Fastening to In-Place Construction: Provide anchorage devices and fasteners where necessary for securing metal stairs to in-place construction. Include threaded fasteners for concrete and masonry inserts, through-bolts, lag bolts, and other connectors.

B. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal stairs. Set units accurately in location, alignment, and elevation, measured from established lines and levels and free of rack.

C. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

D. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

E. Field Welding: Comply with the following requirements:

1. Use materials and methods that minimize distortion and develop strength and corrosion

resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

F. Place and finish concrete fill for platforms, treads, and partial treads to comply with Division 3 Section "Cast-in-Place Concrete."

G. Field-applied primers and paint finishes shall comply with Section 09 91 01 “Painting”. Submit product data certifying compliance with 09 91 01 for field-applied primers and paints prior to application.

H. Install sealant at all gaps between treads and stair system, stair components and wall, and stair components and adjacent construction. Sealants shall conform to requirements of Section 07 92 00 “Joint Sealants”.

I. Install precast treads in accordance with manufacturer’s recommendations and approved submittals.

3.2 INSTALLING STEEL TUBE RAILINGS

A. Adjust railing systems before anchoring to ensure matching alignment at abutting joints. Space posts at spacing indicated or, if not indicated, as required by design loads. Plumb posts in each direction. Secure posts and rail ends to building construction as follows:

1. Anchor posts to steel by welding directly to steel supporting members.
2. Anchor handrail ends to concrete and masonry with steel round flanges welded to rail ends and anchored with post-installed anchors and bolts.

B. Attach handrails to wall with wall brackets. Provide bracket with 1-1/2-inch clearance from inside face of handrail and finished wall surface. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads. Secure wall brackets to building construction as follows:

1. Use type of bracket with flange tapped for concealed anchorage to threaded hanger bolt.
2. Use type of bracket with predrilled hole for exposed bolt anchorage.
3. For concrete and solid masonry anchorage, use drilled-in expansion shields and hanger or lag bolts.
4. For hollow masonry anchorage, use toggle bolts.
5. For steel-framed gypsum board assemblies, fasten brackets directly to steel framing or concealed steel reinforcements using self-tapping screws of size and type required to support structural loads.

3.3 ADJUSTING AND CLEANING

A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint. Apply paint to exposed areas using same material as used for shop painting.

1. Apply by brush or spray to provide a minimum dry film thickness of 1.5 mils (0.038mm).
2. If touchup painting occurs after the building is enclosed and the item to receive touchup painting is within the building enclosure a touchup primer compatible with the shop painting primer and meeting the low-emitting requirements for materials as described in

Section 01 35 60.1 “LEED Requirements” shall be used; Tnemec Series 135, Chembuild, and other manufacturer’s products will be considered subject to meeting the performance criteria specified herein.

END OF SECTION

SECTION 09 64 66

WOOD ATHLETIC FLOORING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Wood gymnasium floor as shown and as specified.

B. Related Sections:
   1. Section 09-05-61.15 “Moisture Vapor Emission Control - Allowance”

1.2 SUBMITTALS

A. Product Data: Submit manufacturer’s specifications and installations for gymnasium flooring system. Include instructions for handling, moisture protection, anchorage, finishing, protection and maintenance. Demonstration compliance with performance requirements.
   1. Submit color charts for game line paint.

B. Samples: Provide 3 samples, minimum 1 ft. long demonstrating extremes in color and grain.

C. Mock-Up: Submit mock-up of system, minimum one-foot square having specified finish.

D. LEED Submittals:
   1. Credit EQ 4: Submit certification stating that all flooring elements installed in the building interior meets the testing and product requirements of the California Department of Health Services *Standards Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers*, including 2004 Addenda.
   2. Credit EQ 4: Submit certification stating that all paints and coatings installed in the building interior meets the testing and product requirements of the California Department of Health Services *Standards Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers*, including 2004 Addenda.
   3. 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.
   4. 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) 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 (MRC4) do not need to meet this requirement and shall not be included in the documentation

E. Moisture Test Results: Submit the results of the required moisture tests of substrate, including a plan indicating the location where tests were performed. Submission will be for record only.

1. Documentation: In the event moisture tests indicate concrete substrates exhibit relative humidity level greater than the flooring manufacturer's recommendations, submit written statement from the Authorized Tile Manufacturer respresentative that the moisture mitigation systems specified in Section 09-05-61.15 "Moisture Vapor Emission Control - Allowance" are manufacturer approved for use with their product(s) for installation on concrete decks.

1.3 QUALITY ASSURANCE

A. Installer: A specialized gymnasium flooring firm, with not less than 3 years successful experience in the installation of the types of flooring required and acceptable to the manufacturer.

B. General Standards: Comply with MFMA standards and recommendations for flooring, including grading rules and comply with WSFI standards and recommendations applicable to materials and methods of installation, except as otherwise indicated.

C. Tolerance: Level gymnasium flooring to a tolerance of 1/8" in 10'-0".

1.4 DELIVERY, STORAGE AND HANDLING

A. Protect wood flooring from excessive moisture in shipment, storage and handling. Deliver in unopened bundles and store in a dry place, with adequate air circulation. Do not deliver materials to building until "wet work" such as concrete and plaster have been completed and cured to a condition of equilibrium.

1.5 PROJECT CONDITIONS

A. Existing Conditions: Examine the substrates on which flooring will be installed, and the conditions under which the Work will be performed, and notify the Contractor of conditions detrimental to the proper completion and maintenance of wood flooring. Start of Work will evidence acceptance of conditions.

B. Conditioning: Do not proceed with the delivery and installation of wood flooring until after the spaces to receive flooring have been enclosed and are dry and maintained at approximately the same humidity conditions as planned for occupancy. Place wood flooring materials in the rooms or spaces to be floored 7 days in advance of the start of installation. Open packages of wood flooring, which are sealed if any to permit natural adjustment of moisture content. Maintain ambient temperatures in range of 60 to 90 degrees F prior to, during and after the installation of wood flooring.

PART 2 - PRODUCTS

2.1 MANUFACTURER/SYSTEM

A. Basis-of-Design Product: Subject to compliance with requirements the following..
   1. WD-G: Refer to Material Finish Schedule on Drawings.

B. LEED Requirement: Provide all flooring elements installed in the building interior that meet the testing and product requirements of the California Department of Health Services *Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers*, including 2004 Addenda.
   1. At Subfloors: Obtain new wood from forests certified by an FSC-accredited certification body to comply with FSC 1.2 "Principles and Criteria."
   2. Submit manufacturers' product data proving that the products 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.

C. Subject to compliance with specifications, provide wood gymnasium floor system by one of the following:
   1. Action Channel: Action floor
   2. Rezill-Channel: Connor AGA
   3. Bio-Channel: Robbins

2.2 MATERIALS

A. Wood Strip Flooring:
   1. Grade, Cut, and Species: Comply with MFMA grading rules for the following:
      a. Grade: **Second and Better**
      b. Cut: Flat-grain.
      c. Species: **Northern Hard Maple**
   2. Lengths: Comply with MFMA grading rules.
   3. Matching: Tongued and grooved and end matched.
   4. Back Channeling: Back channel each piece in accordance with manufacturer's standards, except when specifically recommended by manufacturer to be plain backed for the application indicated.
   5. Seasoning: Kiln-dried before milling.
   6. LEED Requirement: Provide wood flooring produced from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC 1.2, "Principles and Criteria."

B. Subfloor: Pre-assembled panels constructed of two layers of 1/2" CD exterior grade plywood.

C. Resilient Pads: Required to meet performance requirements.

D. Channel: At least 16 – gauge steel.

E. Steel Anchors: 1-1/4" long pins (or longer as dictated by site conditions) applied with an air driven or low velocity powder actuated tool.

F. Vapor Barrier: 6-mil polyethylene.

G. Flooring Fasteners: 2" barbed cleats or 2" epoxy coated staples.

H. Wall Base: 4" x 3" heavy duty, molded, vented rubber cove base with pre-molded outside corners.

I. Finish: Use manufacturer's standard oil modified polyurethane sealer and finish.

J. Paint: Use manufacturer's standard game line paint.
   1. Volleyball court lines: PG-V – 1 color, Refer to Material Finish Schedule on Drawings.
   2. Large Basketball Court Lines: PG-BL – 3 colors, Refer to Material Finish Schedule on Drawings.
   3. Small Basketball Side Court: PG-BS – 1 color, Refer to Material Finish Schedule on Drawings.
   4. School Logo – 3 colors, artwork provided by School.

K. Provide all paints and coatings installed in the building interior THAT meet the testing and product requirements of the California Department of Health Services *Standards Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers*, including 2004 Addenda.

PART 3 - EXECUTION

3.1 PREPARATION

A. General: Comply with flooring manufacturer's instructions and recommendations for the applications indicated and specified, but not less than MFMA standards and WSFI standard.

B. Preinstallation Testing:
   1. Alkalinity Testing: Perform pH testing according to ASTM F 710. Install MCE-control system in areas where pH readings exceed the flooring manufacturer's recommendations.
   2. Moisture Testing: Perform tests so that each test area does not exceed 1000 sq. ft. (304.8 sq. m). Perform no fewer than three tests in each installation area and no fewer than three tests in each concrete substrate construction pour. Test areas shall be evenly spaced in installation areas and evenly spaced in concrete construction pour areas.
   3. Tests shall include the following:
      a. Anhydrous Calcium Chloride Test: ASTM F 1869. Install MVE-control system in locations where concrete substrate MVER exceeds level greater than the flooring manufacturer's recommendations.
      b. Internal Relative Humidity Test: Using in situ probes, ASTM F 2170.
   4. In locations where concrete substrates exhibit relative humidity level greater than the flooring manufacturer's recommendations, Moisture Vapor Emission Control Assembly shall be provided in accordance with Section 09-05-61.15 "Moisture Vapor Emission Control - Allowance".

C. Pattern Direction: Lay flooring lengthwise with space to be floored, except as otherwise indicated.

D. Expansion Spaces: Provide space as indicated or required by instructions and standards, at walls and other obstructions, interruptions and terminations of flooring. Cover spaces with bases, trim, saddles, and thresholds, except fill flush with cork expansion strip whenever indicated to be uncovered.

3.2 INSTALLATION

A. Install moisture barrier, of vapor barrier with mastic sealed lapped joints.

B. Fasten first row of Channels to concrete perpendicular to finish flooring with steel anchors driven approximately 14" on center along base of Channels, fastening pins within 3" of Channel ends.

C. Place subfloor panels with resilient pads attached parallel to Channels, breaking end joints 1/4". Capture exposed side edges of subfloor panels with adjacent Channels.
   1. Align each adjacent row of subfloor panels to form continuous 45° end joints throughout the subfloor assembly.

D. Fasten each row of Channels with ends offset 4' from previous rows, capturing lower subfloor side edges along each preceding row.

E. Install flooring parallel to main playing court by power nailing or stapling approximately 12" on center.
   1. Size joints between flooring strips to allow for intermediate expansion, in accordance with local humidity conditions.
   2. Provide 1½" expansion voids at the perimeter and at all vertical obstruction.

3.3 SANDING AND FINISHING

A. Allow installed gymnasium flooring to acclimate to ambient conditions for a minimum period of 10 days before sanding.

B. Machine-sand with coarse, medium and fine grades of sandpaper, followed by disc sanding with 000 sandpaper. Clean with power vacuum, and check to confirm that entire surface of each piece has been sanded, and that floor is level and smooth, without ridges or cups. Proceed immediately with finish.

C. Apply floor finish in accordance with manufacturer's instructions, including two coats of penetrating sealer of the type recommended. Apply coats of finish. Buff between each coat. Prevent traffic on finished floor for a minimum of 10 days.

D. Prior to application of last coat of low finish, layout lines, fields and other markings. Mask flooring to provide sharp edges. Apply gym enamel in 1.0 mil thickness, in colors as indicated, or to be selected by Architect.

E. Install expansion base trim and other cove trim as indicated, for expansion spaces at edges and interruptions of flooring.

3.4 PROTECTION

A. Installer shall advise the Contractor of procedures required for protection of gymnasium flooring during remainder of construction period, so that flooring and finish will be without damage or deterioration at time of acceptance.

END OF SECTION

SECTION 09 65 20

SOLID VINYL TILE FLOORING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Resilient Tile (Solid Vinyl Tile) Flooring.
2. Static Dissipative Tile Flooring for MDF room application.

B. Related Sections:

1. Section 09-05-61.15 “Moisture Vapor Emission Control - Allowance”

1.2 SUBMITTALS

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

B. LEED Submittals:

1. Product Data for Credit I EQ 4.1: For adhesives, include printed statement of VOC content and chemical components:

   a. Documentation indicating compliance with 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. Product Data for Credit IEQ 4.3: For solid vinyl tile flooring, submit one of the following:

   a. Documentation indicating compliance with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers," including 2004 Addenda.
   b. Provide documentation indicating compliance with FloorScore certification.

3. Product Data for Credit MR 4: For products having recycled content, documentation indicating percentages by weight of post-consumer and pre-consumer recycled content. Include a statement indicating costs for each product having recycled content.
4. LEED Credit MR 5: Submit product data for products that have been extracted, harvested, or recovered, as well as manufactured within 500 miles of the Project site. Include a statement indicating the percentage by weight which is extracted, harvested, or recovered within 500 miles of the Project site.

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

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

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

F. Moisture Test Results: Submit the results of the required moisture tests of substrate, including a plan indicating the location where tests were performed. Submission will be for record only.

1. Documentation: In the event moisture tests indicate concrete substrates exhibit relative humidity level greater than the flooring manufacturer's recommendations, submit written statement from the Authorized Tile Manufacturer respresentative that the moisture mitigation systems specified in Section 09-05-61.15 "Moisture Vapor Emission Control - Allowance" are manufacturer approved for use with their product(s) for installation on concrete decks.

1.3 QUALITY ASSURANCE

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

1.4 DELIVERY, STORAGE, AND HANDLING

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

1.5 PROJECT CONDITIONS

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

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

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

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

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

1.6 WARRANTY

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

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

1.7 EXTRA MATERIALS

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

1. Floor Tile: Furnish one box for every 50 boxes, or fraction thereof, of each type, color, and pattern of floor tile installed.
2. Transition Strips: Furnish not less than ten linear feet for every 500 linear feet, or fraction thereof, of each type, color, profile, and size of transition strip installed.

2.1 SOLID VINYL TILE FLOORING

A. LEED Requirements: Resilient flooring shall be FloorScore certified.

B. Basis-of-Design Product: Basis-of-Design is Gerflor, Mipolam **Elegance**. Subject to compliance with requirements, provide Basis-of Design or the following:

1. iQ Optima; Johnsonite; A TarkettCompany.

C. Product Information:

1. Tile Size: 24" x 24"
2. Tile Thickness: .080" nominal
3. Slip Resistance: ADA Compliant
4. Complies with requirements for ASTM F 1700, Class 1, Type A (Type B for slip resistant tile) Standard specification for Solid Vinyl Tile Floor.
5. ASTM F 970, standard test method for static load limit – 800 PSI (modified for higher load).
6. ASTM E 648, standard test method for critical radiant flux of 0.45 watts/cm2 or greater, Class I.
7. Solid Vinyl Tiles contain 3% post-consumer recycled content.
8. 100% recyclable.
9. Manufacturer's facilities are ISO 9001 and ISO 14001 Certified.
10. Phthalate-free.

2.2 ACCESSORIES

A. Detectable Warning Tile: Tile with linear pattern of grooves complying with requirements of authorities having jurisdiction. Provide tiles with grooves of dimensions indicated or, if not indicated, as directed by Architect.

1. Product: Metallurgy Tile (HRTS-XX); Johnsonite, A Tarkett Company.
2. Color: As selected by Architect from manufacturer's full range.

2.4 INSTALLATION MATERIALS:

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

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

1. Pressure Sensitive Adhesive
2. Two-Part Polyurethane Adhesive – MAPEI Ultrabond G19, Tarkett 940, or AOR approved equal
3. Special Adhesive approved by manufacturer for immediate use after installation.

PART 3 - EXECUTION

3.1 EXAMINATION

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

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

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

3.2 PREPARATION

A. Preinstallation Testing:

1. Alkalinity Testing: Perform pH testing according to ASTM F 710. Install MCE-control system in areas where pH readings exceed the flooring manufacturer’s recommendations.
2. Moisture Testing: Perform tests so that each test area does not exceed 1000 sq. ft. (304.8 sq. m). Perform no fewer than three tests in each installation area and no fewer than three tests in each concrete substrate construction pour. Test areas shall be evenly spaced in installation areas and evenly spaced in concrete construction pour areas.
3. Tests shall include the following:

   a. Anhydrous Calcium Chloride Test: ASTM F 1869. Install MVE-control system in locations where concrete substrate MVER exceeds level greater than the flooring manufacturer’s recommendations.
   b. Internal Relative Humidity Test: Using in situ probes, ASTM F 2170.

4. In locations where concrete substrates exhibit relative humidity level greater than the flooring manufacturer's recommendations, Moisture Vapor Emission Control Assembly shall be provided in accordance with Section 09-05-61.15 "Moisture Vapor Emission Control - Allowance".

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

1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
2. Remove substrate paint, coatings and other substances that are incompatible with adhesives or contain soap, wax, oil, solvents, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
3. Mechanically remove contamination on the substrate that may cause damage to the resilient flooring material. Permanent and non-permanent markers, pens, crayons, paint, etc., must not be used to write on the back of the flooring material or used to mark the substrate as they could bleed through and stain the flooring material.
4. Prepare substrates according to ASTM F 710.

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

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

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

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

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

3.3 SOLID VINYL TILE FLOORING INSTALLATION

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

B. Solid Vinyl Tile Flooring:

1. Install with adhesive specified for the site conditions and follow adhesive label for proper use.
2. Open enough cartons of floor tiles to cover each area, and mix tile to ensure shade variations do not occur within any one area.
3. Roll the flooring in both directions using a 100 pound three-section roller.

3.4 CLEANING AND PROTECTION

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

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

1. Remove adhesive and other blemishes from exposed surfaces.
2. Sweep and vacuum surfaces thoroughly.
3. Damp-mop surfaces to remove marks and soil.

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

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

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

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

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

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

END OF SECTION

SECTION 09 67 23

RESINOUS FLOORING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes decorative ceramic coated quartz epoxy flooring.

1.2 SUBMITTALS

A. Product Data: Submit manufacturer's technical data, installation instructions, and general recommendations indicating compliance of materials with requirements.

B. Samples: Submit, for verification purposes, 2” square samples, applied to a rigid backing, in color and finish indicated.

C. Maintenance Data: Submit printed maintenance data for inclusion in maintenance manual.

D. Submit certification stating that all flooring elements installed in the building interior that 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.

1.3 QUALITY ASSURANCE

A. Installer Qualifications: Engage an installer who has successfully completed within the last 3 years at least 3 resinous flooring applications similar in type and size to that of this project and acceptable to the resinous flooring manufacturer.

1.4 PROJECT CONDITIONS

A. Environmental Conditions: Comply with resinous flooring manufacturer's directions for maintenance of substrate temperatures, ventilation, and other conditions required to execute and protect work.

1.5 DELIVERY, STORAGE AND HANDLING

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

B. Store materials to comply with manufacturer's directions to prevent deterioration from moisture, heat, cold, direct sunlight, or other causes.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Subject to compliance with specification and availability, provide all product by one of the following:

1. Crawford Laboratories.
2. Crossfied Products/Dex-O-Tex.
3. General Polymers.
4. Stone Hard.
5. Selby/Ucrete.

2.2 MATERIALS

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

B. Leveler: Epoxy primer and mortar compatible with the flooring system to be used.

C. Epoxy-Quartz Aggregate Flooring: Manufacturer's standard decorative-type floor surfacing system consisting of primer; topping including epoxy resin, hardener and ceramic-coated quartz aggregate; and finish coat or coats. Provide only factory-supplied and packaged materials including aggregate for all components of floor surfacing system.

PART 3 - EXECUTION

3.1 SUBSTRATE PREPARATION

A. Perform preparation and cleaning procedures in compliance with flooring manufacturer's instructions for particular substrate conditions involved, to insure a successful installation.

3.2 APPLICATION

A. Carefully mix and prepare materials used in resinous flooring system in compliance with manufacturer's instructions.

B. Carefully mix and prepare materials used in resinous flooring system in compliance with manufacturer’s instructions.

C. Apply each component of flooring system in compliance with manufacturer's directions to produce a uniform monolithic wearing surface of minimum 1/8" thickness, uninterrupted except at sawn joints or other types of joints (if any), indicated or required.

D. Apply primer over prepared substrate at manufacturer's recommended spreading rate with timing of application coordinated with subsequent application of topping mix to insure optimum adhesion between resinous flooring materials and substrate.

E. Trowel-apply neat binder (no aggregate included) over freshly applied primer at predetermined rate and in number of coats recommended by manufacturer to produce thickness indicated. Saturate wet binder with aggregate by sprinkling aggregate so that if falls vertically into the resin. After removing excess and projecting aggregate, apply finish coats of binder and perform power sanding in sequence recommended by manufacturer.

F. After topping mix has cured sufficiently, apply finish or sealing coat of type required to produce non-slip finish indicated and in number of coats and spreading rates recommended by manufacturer.

G. Where substrate is interrupted by expansion or control joints, provide joint in resinous flooring to comply as recommended by resinous flooring manufacturer. Provide joint sealant materials to comply with resinous flooring manufacturer's recommendations.

3.3 CURING, CLEANING AND PROTECTION

A. Cure flooring materials in compliance with manufacturer's directions, taking care to prevent their contamination during stages of application and prior to completion of curing process.

B. Protect flooring materials from damage and wear during construction operation. Where temporary covering is required for this purpose, comply with manufacturer's recommendations for protection materials and the method of their application. Remove temporary covering just prior to cleaning for final inspection.

C. Clean flooring just prior to final inspections. Use materials and procedures recommended by resinous flooring manufacturer.

END OF SECTION

SECTION 09 91 00

PAINTING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes requirements for field priming and painting of exposed items and surfaces.

1. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.
2. Painting includes staining as indicated herein.

B. Related Sections:

1. Refer to Division 09 Section "Surface Preparation for Renovation Painting" for procedures related to preparation of existing surfaces and substrates to indicated to receive coating(s).
2. Section 09-05-61.15 “Moisture Vapor Emission Control - Allowance”
3. **Section 09 97 23 for special concrete floor coating for polished concrete floors.**

C. Paint exposed surfaces, except where the paint schedules or these Specifications indicate that a surface or material is not to be painted. If the paint schedule does not specifically mention an item or a surface, paint the item or surface the same as similar adjacent materials or surfaces. If the schedules do not indicate color or finish, the Architect will select from standard colors and finishes available.

1. Painting includes field painting of exposed ducts, pipes, conduits (including color coding), hangers, exposed steel and iron work, and primed metal surfaces of mechanical and electrical equipment that do not have a factory-applied final finish.

D. Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels.

1. Prefinished items include, but are not limited to, the following factory-finished components:

a. Architectural woodwork.
b. Metal lockers.
c. Elevator equipment.
d. Finished mechanical and electrical equipment.
e. Light fixtures and supports.

2. Concealed surfaces include walls or ceilings in the following generally inaccessible spaces:

a. Furred areas.
b. Ceiling plenums.
c. Pipe spaces.

d. Duct shafts.
e. Elevator shafts (if any).

3. Finished metal surfaces include, but are not limited to, the following:

a. Anodized aluminum.
b. Stainless steel.
c. Chromium plating.

4. Operating parts include moving parts of operating equipment and the following:

a. Valve and damper operators.
b. Linkages.
c. Sensing devices.
d. Motor and fan shafts.

5. Labels: Do not paint over:

a. UL, FMG, or other code-required labels or equipment name, identification, performance rating, or nomenclature plates.
b. Labels designating materials or assemblies as accessible.

1.2 DEFINITIONS

A. General: Standard coating terms defined in ASTM D 16 apply to this Section.

B. Gloss ranges used in this Section include the following:

1. Flat refers to a lusterless or matte finish with a gloss range below 5 when measured at a 60-degree meter.
2. Eggshell refers to low-sheen finish with a gloss range between 5 and 10 when measured at a 60-degree meter.
3. Satin refers to low-sheen finish with a gloss range between 10 and 35 when measured at a 60-degree meter.
4. Semi-gloss refers to medium-sheen finish with a gloss range between 35 and 70 when measured at a 60-degree meter.
5. Full gloss refers to high-sheen finish with a gloss range more than 70 when measured at a 60-degree meter.

C. Concealed: Refers to surfaces, materials, assemblies, or items that cannot be accessed without moving a building element, such as within a chase, wall, or ceiling cavity.

D. Exposed: Refers to any item or surface that is not concealed.

1. Exposed to Public View: Refers to items situated so they can be seen from eye level from a public location. A public location is that which is accessible to persons not responsible for operation or maintenance of the building.

1.3 SUBMITTALS

A. Product Data: For each type of product, including block fillers and primers. Include preparation requirements and application instructions.

1. For paints and coatings, include documentation indicating that they meet the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

B. Samples:

1. Initial Selection: Submit manufacturer's color charts illustrating their full range of available colors for each type of product and finish required for the Project.

   a. Confirm availability of colors specified by Architect with the manufacturer and notify the Architect in writing if any discrepancies, including lack of availability, should occur.

2. Verification: Submit three (3) draw-downs of each type of product, sheen, and color specified or scheduled in Drawings. Draw-downs shall be prepared on hardboard, not less than 12-inches square.

   a. Each sample shall be labeled with the following:

      1) Project name and number.
      2) Date.
      3) Manufacturer's name.
      4) Installer's name.
      5) Product name.
      6) Product number.
      7) Color name and number as stated in the color schedule.
      8) Name, address, and phone number of the supplying facility.

   b. Provide stepped Samples, defining each separate coat, including block fillers and primers. Use representative colors when preparing Samples for review. Resubmit until required sheen, color, and texture are achieved.
   c. Provide a list of materials and applications for each coat of each sample. Label each sample for location and application (e.g. "classroom ceiling").

C. Shop Drawings: For field marking paint, provide scaled, dimensioned layout drawings indicating field marking layout and line colors for football, soccer and lacrosse fields as indicated. Include all lines, numbers and symbols for fields to comply with NFHS standards. Provide a single layout drawing with all fields overlaid. Locate fields relative to midpoint between football goal post inserts as control points.

D. Qualification Data: When requested, submit qualification data for firms and persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.

E. Moisture Test Results: Submit the results of the required moisture tests of floor coating substrates, including a plan indicating the location where tests were performed. Submission will be for record only.

1. Documentation: In the event moisture tests indicate concrete substrates exhibit relative humidity level greater than the flooring manufacturer’s recommendations, submit written

statement from the Authorized Tile Manufacturer respresentative that the moisture mitigation systems specified in Section 09-05-61.15 "Moisture Vapor Emission Control - Allowance" are manufacturer approved for use with their product(s) for installation on concrete decks.

1.4 REGULATORY REQUIREMENTS

A. Comply with all applicable regulations of authorities having jurisdiction.

1.5 QUALITY ASSURANCE

A. Applicator Qualifications: Engage an experience applicator who has completed painting system application similar in material, design, and extent to that indicated for the Project, and whose work has resulted in applications with a record of successful in-service performance.

A. Source Limitations: Obtain block fillers, primers, and undercoat materials for each coating system from the same manufacturer as the finish coats.

B. Benchmark Samples (Mockups): Provide a full-coat benchmark finish sample of each type of coating and substrate required on the Project. Comply with procedures specified in PDCA P5. Duplicate finish of approved prepared samples.

1. The Architect will select one room or surface to represent surfaces and conditions for each type of coating and substrate to be painted.

a. After permanent lighting and other environmental services have been activated, apply coatings in this room or to each surface according to the Schedule or as specified. Provide required sheen, color, and texture on each surface.
b. After finishes are accepted, the Architect will use the room to evaluate coating systems of a similar nature.
c. For concrete foundation wall stain, the test application must be performed to determine the exact coverage rate to achieve desired performance characteristics and aesthetic appearance before beginning the work. Mockup shall be applied at area of wall to be concealed in final condition.

2. Final approval of colors will be from job-applied samples.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to the Project Site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:

1. Product name or title of material.
2. Product description (generic classification or binder type).
3. Manufacturer's stock number and date of manufacture.
4. Contents by volume, for pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.
7. Color name and number.
8. VOC content.

B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45deg F. Maintain containers used in storage in a clean condition, free of foreign materials and residue.

1. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing, and application.

1.7 PROJECT CONDITIONS

A. Apply water-based paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 50 deg F and 90 deg F.

A. Apply solvent-thinned paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 50 deg F and 90 deg F.

B. Do not apply paint in snow, rain, fog, or mist; or when the relative humidity exceeds 85 percent; or at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

1. Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.

C. Do not apply paint in areas where dust is being generated or will be generated while the applied paint is drying.

D. In rooms and spaces where paint is being applied, ensure there is adequate ventilation to allow for proper paint drying, as well as to exhaust paint fumes and minimize odors.

1.8 EXTRA MATERIALS

A. Furnish extra paint materials from the same production run as the materials applied in the quantities described below. Package paint materials in unopened, factory-sealed containers for storage and identify with labels describing contents. Deliver extra materials to the location designated by the Architect or Board Authorized Representative.

1. Quantity: Furnish the Board with an additional 5percent, but not less than 1gallon of each material and color applied. Mark each container with color identification and room names or numbers where paint was used without obscuring manufacturer's label.

PART 2 - PRODUCTS

2.9 MANUFACTURERS

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

1. Benjamin Moore & Co. (BM).
2. Pittsburgh Paints, PPG Industries, Inc. (PPG).
3. The Sherwin-Williams Company (SW).
4. Tnemec Company, Inc. (Tnemec).

2.10 PAINT MATERIALS, GENERAL

A. Material Compatibility: Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.

1. Proprietary Names: Use of manufacturer's proprietary product names to designate colors or materials is not intended to imply that products named are required to be used to the exclusion of equivalent products of other manufacturers.

B. VOC Content: Products shall comply with VOC limits of authorities having jurisdiction and, for interior paints and coatings applied at Project site, the following VOC limits, exclusive of colorants added to a tint base, when calculated according to 40 CFR 59, Subpart D (IPA Method 24).

1. Flat Paints and Coating: 50-g/l.
2. Non-Flat Paints and Coatings: 150-g/l.
3. Dry-Fog Coatings: 400-g/l.
4. Primers, Sealers, and Undercoaters: 200-g/l.
5. Anticorrosive and Antirust Paints Applied to Ferrous Metals: 250-g/l.
6. Zinc-Rich Industrial Maintenance Primers: 340-g/l.
7. Pretreatment Wash Primers: 420-g/l.
8. Floor Coatings: 100-g/l.
9. Shellacs, Clear: 730-g/l.
10. Shellacs, Pigmented: 550-g/l.

C. Low-Emitting Materials: Interior paints and coatings shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

D. Colors: Provide color selections made by the Architect and selected from manufacturer's full range.

E. Paint Systems: The paint systems specified are intended to comply with the VOC and chemical component limits of Green Seal Standard for Paints and Coatings GS-11 (interior non-clear systems). When the paint manufacturer produces a product that improves upon those of the specified product, provide the improved product. It is the intent that all components of the systems individually (primer/sealer, undercoat, top coat) comply. Provide products that comply to the extent available or prepare a budget that will ensure compliance on a project wide basis.

F. Accessories: For Field Marking:

1. Permanent ground socket locator pins with integral locator pegs for string attachment.
2. Nylon string in lengths required for field layout.
3. Templates for text, numbers and symbols.

PART 3 - EXECUTION

3.11 EXAMINATION

A. Examine substrates, areas, and conditions, with the Applicator present, under which painting will be performed for compliance with paint application requirements.

1. Do not begin to apply paint until unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry.
2. Start of painting will be construed as the Applicator's acceptance of surfaces and conditions within a particular area.

B. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.

1. Notify the Architect in writing about anticipated problems using the materials specified over substrates primed by others.

3.12 PREPARATION

A. General:

1. Test existing plaster substrates indicated to be painted (walls and ceilings) for presence of calcimine coating and/or lack of adhesion of existing layers of previously applied paint materials. Where tests return positive results, prepare substrates, including removal of existing layers of previously applied paint materials as required or recommended by paint manufacturer to provide sound substrates, suitable and acceptable to paint manufacturer for application of their products.
2. Remove hardware and hardware accessories, stainless steel plates, machined surfaces, lighting fixtures, wire guards, screens, grilles and similar items already installed that are not to be painted. If removal is impractical or impossible because of the size or weight of the item, provide surface-applied protection before preparation and painting of scheduled materials.
3. Remove and paint behind pictures, signs, shades, furniture, cabinets and similar items that are not secured to walls.
4. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved and remove surface-applied protection from unpainted objects.

B. Preinstallation Testing: For concrete substrates to receive floor coatings:

1. Alkalinity Testing: Perform pH testing according to ASTM F 710. Install MCE-control system in areas where pH readings exceed the flooring manufacturer’s recommendations.
2. Moisture Testing: Perform tests so that each test area does not exceed 1000 sq. ft. (304.8 sq. m). Perform no fewer than three tests in each installation area and no fewer than three tests in each concrete substrate construction pour. Test areas shall be evenly spaced in installation areas and evenly spaced in concrete construction pour areas.
3. Tests shall include the following:

    a. Anhydrous Calcium Chloride Test: ASTM F 1869. Install MVE-control system in locations where concrete substrate MVER exceeds level greater than the flooring manufacturer’s recommendations.
    b. Internal Relative Humidity Test: Using in situ probes, ASTM F 2170.

4. In locations where concrete substrates exhibit relative humidity level greater than the flooring manufacturer's recommendations, Moisture Vapor Emission Control Assembly shall be provided in accordance with Section 09-05-61.15 "Moisture Vapor Emission Control - Allowance".

C. Protection: In each area to be painted, cover and protect adjacent surfaces and materials, furniture, equipment, and floors from overspray, splatter, and other damage with clean cloths, heavy building paper, or clean plastic sheeting secured in place. All protection shall be carefully removed when painting operations are complete

D. Cleaning: Before applying paint or other surface treatments, clean the substrates of substances that could impair the bond of the various coatings. Remove oil and grease before cleaning

1. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

D. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition and as specified.

1. Provide barrier coats over incompatible primers or remove and reprime.
2. Cementitious Materials: Prepare concrete, concrete masonry units, cement plaster, and mineral-fiber-reinforced cement panel surfaces to be painted or stained. Remove efflorescence, chalk, dust, dirt, grease, oils, and release agents. Roughen or acid etch as required to remove glaze. If hardeners or sealers have been used to improve curing, use mechanical methods of surface preparation.

   a. Use low dust emission wet methods to prepare the surface as recommended by the paint manufacturer.
   b. Determine alkalinity and moisture content of surfaces by performing appropriate tests. If surfaces are sufficiently alkaline to cause the finish paint to blister and burn, correct this condition before application. Do not paint surfaces where moisture content exceeds level recommended by manufacturer for successful application of their product(s).
   c. Clean concrete floors to be painted with a 5 percent solution of muriatic acid or other etching cleaner. Flush the floor with clean water to remove acid, neutralize with ammonia, rinse, allow to thoroughly dry, and vacuum before painting.
   d. Clean concrete surfaces to be stained in accordance with manufacturer's written recommendations and instructions.
   e. Cure new concrete a minimum of 28 days or in accordance with manufacturers recommendations, whichever is longer.
   f. Fill cracks and voids with materials approved by coating manufacturer.

3. Wood: Clean surfaces of dirt, oil, and other foreign substances with scrapers, mineral spirits, and sandpaper,. Sand surfaces exposed to view smooth and remove dust.

   a. Scrape and clean small, dry, seasoned knots, and apply a thin coat of white shellac or other recommended knot sealer before applying primer. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood filler. Sand smooth when using low dust emission, wet method and when dried.

4. Ferrous Metals: Clean ungalvanized ferrous-metal surfaces that have not been shop coated; remove oil, grease, dirt, loose mill scale, and other foreign substances in accordance with SSPS-SP1 "Solvent Cleaning." After solvent cleaning, prepare any bare

metal surfaces by removing all stratified rust (rust scale), all loose mill scale, all loose or non-adherent rust, and detrimental welding deposits by methods specified in SSPC-SP3 "Power Tool Cleaning."

a. Touch up bare areas and shop-applied prime coats that have been damaged. Wirebrush, clean with solvents recommended by paint manufacturer and spot prime with rust-inhibitive metal primer recommended by the topcoat manufacturer.
b. Primer coats should be applied without delay, before rust reappears, with rust inhibitive primer.

5. Galvanized Surfaces: Clean galvanized surfaces with nonpetroleum-based solvents in accordance with SSPC-SP1 "Solvent Cleaning." Remove grease and oil residue by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of applied paint products.

a. Weathered, unpainted galvanized metal surfaces shall be wire brushed or power washed to remove deposits of white zinc corrosion, then primed with a metal primer according to recommendations of the topcoat manufacturer. Rusted areas shall be sanded clean, and spot primed with a metal primer, then coated overall with same according to recommendations of topcoat manufacturer.
b. Peeling and scaling paint and chalk must be removed by scraping, sanding and wirebrushing. Rusted and abraded surfaces must be cleaned by scraping, sanding, and wirebrushing, then primed, without delay, with an acrylic latex metal primer.
c. For newly installed surfaces and materials that have been hot-dipped galvanized, allow not less than 6-months of weathering prior to cleaning. Clean surfaces according to recommendations of topcoat manufacturer. Immediately before painting, roughen surface with coarse sandpaper, exercising care to not damage the zinc galvanizing, and wipe clean.

E. Materials Preparation: Mix and prepare paint materials according to manufacturer's written instructions.

1. Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue.
2. Stir material before application, and during application as required, to produce and maintain a mixture of uniform density. Do not stir any surface film that may form into material. Remove surface film and strain material before using.
3. Use only thinners approved by paint manufacturer and only within recommended limits.

3.13 APPLICATION

A. General: Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied.

1. No Work shall be performed:

a. Where cement or plaster is being applied or is in the process of drying.
b. In spaces that are not broom clean and free of dust and waste.

2. Paint colors, surface treatments, and finishes are indicated in the schedules.
3. Apply paint materials to produce smooth finished surfaces, free of brush or roller marks, holidays, drops, runs, or sags.

4. Apply first or prime coat with brush or roller; work well into surface.
5. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.
6. Provide finish coats that are compatible with primers used.
7. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, covers for finned-tube radiation, grilles, and similar components are in place. Extend coatings in these areas, as required, to maintain the system integrity and provide desired protection.
8. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Before the final installation of permanently fixed equipment or furniture, paint surfaces behind such equipment or furniture with prime coat only.
9. Paint interior surfaces of ducts with a flat, non-specular black paint where visible through registers or grilles.
10. Paint back sides of access panels and removable or hinged covers to match exposed surfaces.
11. Paint access panels, electrical panels, air diffusing outlets, supply and exhaust grilles, louvers, exposed conduit, primed hardware items, primed outlet covers, primed wall and ceiling plates and other items in painted areas to match the areas in which they occur unless otherwise directed by the Architect.
8. Finish doors on tops, bottoms, and side edges the same as exterior faces.
9. Sand lightly using low-dust emission wet methods between each succeeding enamel or varnish coat.

B. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.

1. The number of coats and the film thickness required are the same regardless of application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer. If sanding is required to produce a smooth, even surface according to manufacturer's written instructions, sand between applications.
2. Omit primer on metal surfaces that have been shop primed and touchup painted.
3. If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color, and appearance. Give special attention to ensure edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
4. Allow sufficient time between successive coats to permit proper drying according to manufacturer's recommendations to ensure application of subsequent coat(s) of paint does not cause undercoat to lift or lose adhesion.

C. Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.

1. Brushes: Use brushes best suited for the type of material applied. Use brush of appropriate size for the surface or item being painted.
2. Rollers: Use rollers of carpet, velvet back, or high-pile sheep's wool as recommended by the manufacturer for the type of material and finish texture required.
3. Spray Equipment: Use airless spray equipment with orifice size as recommended by the manufacturer for the type of material and finish texture required.

D. Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate. Provide the total dry film thickness (DFT) of the entire system as defined in these specifications and as recommended by the manufacturer (whichever is greater).

E. Mechanical and Electrical Equipment, Devices, and Accessories: Painting of mechanical and electrical work is limited to items exposed in equipment rooms and in occupied spaces.

1. Mechanical items to be painted include, but are not limited to, the following:

a. Uninsulated metal piping.
b. Pipe hangers, and supports.
c. Heat exchangers.
d. Tanks.
e. Ductwork.
f. Insulation.
g. Motors and mechanical equipment.
h. Supports.
i. Accessory items.
j. Mechanical equipment indicated to have factory-primed finish for field painting.

F. Electrical items to be painted include, but are not limited to, the following:

1. Conduit and fittings.
2. Switchgear.
3. Panelboards.
4. Electrical equipment indicated to have factory-primed finish for field painting.

G. Block Fillers: Apply block fillers to concrete masonry units at a rate to ensure complete coverage with pores filled.

H. Prime Coats: Before applying finish coats, apply a prime coat, as recommended by the manufacturer, to material that is required to be painted or finished and that has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn-through or other defects due to insufficient sealing.

I. Opaque Pigmented and Transparent Pigmented (Stain) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable.

J. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.

K. Athletic Field Marking:

1. Refer to Part 1.3 for layout drawing requirements. Obtain Owner approval of drawing prior to field marking paint application.
2. Mow grass to desired height prior to application of field marking paint. Water dry fields and allow excess water to evaporate prior to application of paint.
3. Lay out fields to accurate dimensions. Stake field corners and confirm all dimensions prior to paint application.

4. Provide permanent ground socket locator pins at end of each line segment and at centers of arcs and circles.
5. Run dry lines as guides for straight, true marking application.
6. Utilize templates for symbols, text and numbers.
7. Apply paint utilizing wheeled paint striping machine specifically designed for field marking. Restripe lines or touch up as necessary to provide bright, even markings.

3.14 FIELD QUALITY CONTROL

A. The Owner reserves the right to invoke the following test procedure at any time and as often as the Owner deems necessary during the period when paint is being applied:

1. The Owner will engage the services of an independent testing agency to sample the paint material being used. Samples of material delivered to the Project will be taken, identified, sealed, and certified in the presence of the Contractor.
2. The Owner may direct the Contractor to stop painting if test results show material being used does not comply with specified requirements. The Contractor shall remove non-complying paint from the site, pay for testing, and repaint surfaces previously coated with the rejected paint. If necessary, the Contractor may be required to remove rejected paint from previously painted surfaces if, on repainting with specified paint, the two coatings are incompatible.

3.15 CLEANING

A. Cleanup: At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from the site and dispose of legally.

1. After completing painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.

B. The testing agency will perform on site and laboratory tests for the following characteristics as required by the Board Authorized Representative:

1. Adhesion Tests: ASTM D 3359 and ASTM D 6677.
2. Film thickness tests.
3. Quantitative materials analysis.
4. Apparent reflectivity.
5. Washability.
6. Dry Capacity.

3.16 PROTECTION

A. Confine dust and odor emissions by using low-dust wet methods. If this is insufficient, the contractor must use barriers, containment and HEPA filtered negative air equipment to limit migration of dust and odors beyond the work areas.

B. Protect work of other trades, whether being painted or not, against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Architect.

C. Provide "Wet Paint" signs to warn occupants of and to protect newly painted finishes. Remove temporary protective wrappings provided by others to protect their work after completing painting operations.

1. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces. Comply with procedures specified in PDCA P1.

3.17 EXTERIOR PAINT SCHEDULE

A. Concrete, Stucco, and Cement Plaster: Provide the following finish systems over exterior concrete, and stucco, surfaces indicated to be painted:

1. Low-Luster Acrylic Finish: 2 finish coats over a primer.

a. Primer: Alkali-resistant, exterior, acrylic-latex primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.3-mils.

1) BM: MoorCraft Super Spec Latex Exterior Primer #169.
2) PPG: Perma-Crete Alkali Resistant Primer 4-603.
3) SW: Loxon Primer A24W8300.
4) Tnemec: None required.

b. First and Second Coats: Low-luster (eggshell or satin), exterior, acrylic-latex paint applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.3 mils.

1) BM: MoorCraft Super Spec Latex House Paint #171.
2) PPG: Speedhide Exterior Latex Flat Paint 6-610.
3) SW: A-100 Satin H.P. A82 series.
4) Tnemec: Series 180 W.B. Tneme-Crete.

~~B. Concrete: Provide the following finish system over exposed concrete foundation wall indicated to be stained:~~

~~1. Transparent combined sealer and color stain finish: 2 coats~~

~~a. First and second coats: Penetrating, water-based combined sealer and stain, applied at coverage rate established in the mock-up.~~

~~1) Tnemec: Series 633 Prime-A-Pell H20~~

C. Concrete Masonry Units: Provide the following finish systems over exterior concrete masonry units:

1. Low-Luster Acrylic Finish: 2 finish coats over a block filler.

a. Block Filler: High-performance, latex block filler applied at spreading rate recommended by the manufacturer to achieve a total dry mill thickness of not less than 4.0 mils.

1) BM: MoorCraft Super Craft Latex Block Filler # 282.
2) PPG: 6-7 Speedhide Interior/Exterior Masonry Latex Block Filler.
3) SW: PrepRite Block Filler B25W25.
4) Tnemec: Series 54 Masonry Filler.

b. First and Second Coats: Low-luster (eggshell or satin), exterior, acrylic-latex paint applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.3 mils.

1) BM: MoorCraft Super Spec Latex House Paint #171.
2) PPG: 6-2045 Speedhide Exterior Satin Acrylic Latex.
3) SW: A-100 Satin H.P. A82 series.
4) Tnemec: Series 180 W.B. Tneme-Crete.

D. Masonry: Provide the following finish systems over exterior masonry:

1. Two finish coats (min.) on brick face. Avoid contact with mortar joints. Masonry shall be clean and completely dry for at least 24-hours prior to installation.

a. SW: Loxon Vertical Concrete Stain, A31 Series. Applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 3.2-mils.
b. PPG: Perma-Crete Vertical Concrete Stain 4-5110. Applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 3.2-mils.
c. Tnemec: Series 617 Conformal Stain W.B. Applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.5 mils.

E. Architecturally Exposed Steel:

1. General:

a. Zinc-rich primer to be applied by steel fabricator.
b. Remove loose primer and all rust and surface contaminants to ensure bond.
c. Spot prime damaged shop-primed surfaces with compatible primer.

2. Primer:

a. BM: Water Based Inorganic Zinc Primer M01/M02.
b. PPG: Moisture Cure Urethane Zinc-Rich Primer, UC95147/97-674 or Aquapon Zinc Rich Epoxy Primer 97-670.
c. SW: Corothane I Galvapal Zinc Primer.
d. Tnemec: 90-97 Theme-Zinc, Zinc-Rich Urethane.

3. Intermediate Coat: Applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 5.0-mils.

a. BM: Polyamide Epoxy Hi-Build Gloss M36/M39.
b. PPG: Aquapon Epoxy HB Polyamide 97 130.
c. SW: Macropoxy 646.
d. Tnemec: Series N69, Hi-Build Epoxoline II.

4. Top Coat: Applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 4.0-mils.

a. BM: Aliphatic Acrylic Urethane Gloss M74/M75.

b. PPG: Pitthane High Build Semi-Gloss Urethane, 95-8800.
c. SW: Acrolon Multi-Mil.
d. Tnemec: Series 73. Endura-Shield III; High Build Acrylic Polyurethane.

5. Optional Top Coat: Applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.0-3.0 mils.

a. Tnemec: Series 1070V, 1071V, or 1072V Fluoronar Clear Coat.

F. Architecturally Exposed Galvanized Steel (Metal Deck)

1. General:

a. Clean to remove soluble contaminants with solvent or water-based cleaner/degreaser according to SD1. Remove rust according to SSPC-SP3 "Power Tool Cleaning." If new deck, remove oil/passivator coating according to SSPC-SP7 "Brush-Off Blast Cleaning."
b. Profile new galvanized surface with sweep- or brush-blasting to depth not exceeding 2.0 mils.

2. Initial Coats: First coat applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 3.0 mils. Second coat applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 5.0 mils.

a. BM: Polyamide Epoxy Hi-Build Gloss M36/M-39.
b. PPG: High Build Aquapon Semi-Gloss Epoxy, 97-130 Series.
c. SW: Macropoxy 646.
d. Tnemec: Series N69, Hi-Build Epoxoline II.

3. Top Coat: applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 4.0-mils.

a. BM: Aliphatic Acrylic Urethane Gloss M74/M75.
b. PPG: Pitthane 35 Gloss Urethane Enamel, 95 Series.
c. SW: Acrolon Multi-Mil.
d. Tnemec: Series 73, Endura-Shield III; High Build Acrylic Polyurethane.

4. Optional Top Coat: Applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.0-3.0 mils .

a. Tnemec: Series 1070V, 1071V, or 1072V Fluoronar; Clear Coat.

G. Ferrous Metal: Provide the following finish systems over exterior ferrous metal. Primer is not required on shop-primed items. Spot prime damaged shop-primed surfaces.

1. Semi-gloss, Acrylic-Enamel Finish: 2 finish coats over a rust-inhibitive primer.

a. Primer: Rust-inhibitive metal primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.3 mils.

1) BM: Super Spec HP D.T.M. Acrylic Semi-Gloss P29.

2) PPG: 6-208 Speedhide Alkyd Primer.
3) SW: DTM Primer B66W1.
4) Tnemec: Series V10 Tnemec Primer.

b. First and Second Coats: Semi-gloss, exterior, acrylic-latex enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.6 mils.

1) BM: Super Spec HP D.T.M. Acrylic Semi-Gloss P29.
2) PPG: 7-series Industrial Gloss Enamel.
3) SW: DTM Acrylic Semi-Gloss B66W200 Series.
4) Tnemec: Series 1029 Enduratone.

H. Zinc-Coated Metal: Provide the following finish systems over exterior zinc-coated (galvanized) metal surfaces:

1. General:

a. Clean to remove soluble contaminants with solvent or water-based cleaner/degreaser according to SD1. If new deck, remove oil/passivator coating according to SSPC-SP7 "Brush-Off Blast Cleaning."
b. Remove rust according to SSPC-SP3 "Power Tool Cleaning."
c. Profile new galvanized surface with sweep- or brush-blasting to depth not exceeding 2.0-mils.
d. Galvanizing Repair Paint: Provide SSPC-Paint 20 with dry film containing 94-percent (min.) zinc dust by weight to repair damaged galvanized coating according to ASTM A 780.

2. Semi-gloss, Acrylic-Enamel Finish: 2 finish coats over a galvanized metal primer.

a. Primer: Galvanized metal primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.

1) BM: Acrylic Metal Primer M04.
2) PPG: 90-912 Pitt-Tech Plus DTM Primer.
3) SW: DTM Primer B66W1.
4) Tnemec: Series 115 Uni-Bond DF.

b. First and Second Coats: Gloss or Semi-Gloss, exterior, acrylic-latex enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.6 mils.

1) BM: M29 D.T.M. Acrylic Semi-Gloss.
2) PPG: 7-series Industrial Gloss Enamel.
3) SW: DTM Acrylic Semi-Gloss B66W200 Series.
4) Tnemec: Series 1029 Enduratone.

I. Natural Grass Athletic Fields:

1. Exterior Acrylic Latex paint, specially formulated for natural grass athletic field markings. 2 coats for initial field marking.

a. BM: Moorcraft SuperCraft Latex Field Marking Paint.
b. PPG: Zonemark Athletic Field Marking Paint.
c. SW: Sherstripe Athletic Field Marking Paint.

3.18 INTERIOR PAINT SCHEDULE

A. Concrete and Masonry (Other than Concrete Masonry Units): Provide the following paint systems over interior concrete and brick masonry surfaces:

1. Semi-Gloss, Acrylic-Enamel Finish: 2 finish coats over a primer.

a. Primer: Alkali-resistant, acrylic-latex, interior primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.0 mil.

1) BM: MoorCraft Super Spec Latex Enamel Undercoater & Primer Sealer #253.
2) PPG: 6-603 Speedhide Interior/Exterior Acrylic Latex Alkali Resistant Primer .
3) SW: PrepRite Masonry Primer B28W300.
4) Tnemec: Series 151 Elasto-Grip FC.

b. First and Second Coats: Semi-gloss, acrylic-latex, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.6 mils.

1) BM: MoorCraft Super Spec Latex Semi-Gloss Enamel #276.
2) PPG: 6-500 Speedhide Interior Semi-Gloss Acrylic Latex.
3) SW: ProMar 200 Latex Semi-Gloss B31W200 series.
4) Tnemec: Series 1029 Enduratone.

B. Concrete Masonry Units: Provide the following finish systems over interior concrete masonry units:

1. Semi-gloss, Acrylic-Enamel Finish: 2 finish coats over a block filler.

a. Block Filler: High-performance, latex-based, block filler applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 5.0 mils.

1) BM: Super Spec Hi-Build Block Filler #206.
2) PPG: Speedhide Interior/Exterior Latex Block Filler 6-7.
3) SW: PrepRite Block Filler B25W25.
4) Tnemec: Series 54 Masonry Filler.

b. First and Second Coats: Semi-gloss, acrylic-latex, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.6 mils.

1) BM: Super Spec Interior Latex Eggshell Finish #274.
2) PPG: Speedhide Interior Latex Eggshell 6-411.
3) SW: ProMar 200 Latex Semi-Gloss B31W200.

4) Tnemec: Series 1029 Enduratone.

C. Concrete Masonry Units: (Epoxy) **Provide at Yard Storage**

1. Blockfiller: 100% acrylic block filler, applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 10.0 mils (50-90 sq. ft./gal., minimum); Volume Solids: 53 percent:

   a. BM: Super Spec Masonry Hi-Build Block Filler 206 **or** Corotech Block Filler V114.
   b. PPG: Amerlock 400 Epoxy Block Filler.
   c. SW: Heavy Duty Blockfilling B42W46.
   d. Tnemec: Series 1254 Epoxoblock WB.

2. First and Second Coats: Semi-Gloss Finish: Two-component water based catalyzed epoxy with a minimum volume solids of 38 percent. Provide two (2) full and separate coats applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.5 mils per coat.

   a. BM: Super Spec Acrylic Epoxy Coating #256 **or** Corotech Pre-Catalyzed Waterborne Epoxy Coating V341.
   b. PPG: Amerlock 400 Semi-Gloss.
   c. SW: Water Based Catalyzed B70 series/B60V25.
   d. Tnemec: Series 113 H.B. Tneme-Tuf Coat.

D. Gypsum Board: Provide the following finish systems over interior gypsum board surfaces:

1. Ceilings: Flat Acrylic Finish: 2 finish coats over a primer.

   a. Primer: Latex-based, interior primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.

      1) BM: Super Spec Latex Enamel Undercoater & Primer Sealer #253 **or** Super Kote 5000 Acrylic Enamel Undercoater.
      2) PPG: 6-2 Quick-Drying Interior Latex Primer-Sealer.
      3) SW: PrepRite 200 Latex Wall Primer B28W200.
      4) Tnemec: Series 51-1204 PVA Sealer.

   b. First and Second Coats: Flat, acrylic-latex-based, interior paint applied at spreading rate recommended by the manufacturer to achieve a total DFT of not less than 2.5- mils (0.063-mm).

      1) BM: Super Spec Latex Flat #275 **or** Super Kote 5000 Vinyl Latex Flat Wall.
      2) PPG: 6-70 Speedhide Interior Wall Flat Latex Paint.
      3) SW: Pro-Mar 200 Latex Flat B30 W200 Series.
      4) Tnemec: Series 6 Tneme-Cryl.

2. Walls: Semi-Gloss, Acrylic-Enamel Finish: 2 finish coats over a primer.

   a. Primer: Latex-based, interior primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.

1) BM : Super Spec Latex Enamel Undercoater & Primer Sealer #253 **or** Super Kote 5000 Acrylic Enamel Undercoat #78-11.
2) PPG: 6-2 Speedhide Latex Primer.
3) SW: PrepRite 200 Latex Wall Primer B28W200.
4) Tnemec: Series 51-1204 PVA Sealer.

b. First and Second Coats: Semi-gloss, acrylic-latex, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.6 mils.

1) BM: Super Spec Latex Semi-Gloss Enamel #276 **or** Super Kote 5000 Acrylic Semi-Gloss Enamel.
2) PPG: 6-500 Series Speedhide Interior Enamel Wall & Trim Lo-Lustre Semi-Gloss Latex.
3) SW: Pro-Mar 200 Latex Semi-Gloss B31W200 Series.
4) Tnemec: Series 1029 Enduratone.

3. Gypsum Board (Epoxy): **Provide at Kitchen, Servery, and Locker Room areas (including toilet and shower areas within Locker rooms)**

a. Primer: Vinyl-acrylic primer, applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.1 mils.

1) BM: Super Spec Latex Enamel Undercoater & Primer Sealer #253 or Super Kote 5000 Acrylic Enamel Undercoat #78-11.
2) PPG: 6-2 Speedhide Latex Primer.
3) SW: PrepRite 200 Interor Latex Primer B28W200.
4) Tnemec: Series 51-1204 PVA Sealer.

b. First and Second Coat: Semi-Gloss Finish: Two-component water based catalyzed epoxy with a minimum volume solids of 38 percent. Provide two (2) full and separate coats applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness not less than 2.5 mils per coat.

1) BM: Super Spec Acrylic Epoxy Coating #256 or Corotech PreCatalyzed Waterborne Epoxy Coating V341
2) PPG: Pitt-Glaze Acrylic Epoxy S/G 16-551/16-599 series.
3) SW: Water Based Caralyzed Epoxy B70 series/B60V25.
4) Tnemec: Series 113 H. B. Tneme-Tuf Coat.

E. Plaster: Provide the following finish systems over new, interior plaster surfaces:

1. Ceilings: Flat Acrylic Finish: 2 finish coats over a primer.

a. Primer: Alkali-resistant, acrylic-latex, interior primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.4 mils.

1) BM: MoorCraft Super Spec Latex Enamel Undercoater & Primer Sealer #253.

2) PPG: 6-603 Speedhide Interior/Exterior Acrylic Latex Alkali Resistant Primer.
3) SW: PrepRite Masonry Primer B28W300.
4) Tnemec: Series 151 Elasto-Grip FC.

b. First and Second Coats: Flat, acrylic-latex, interior paint applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.5 mils.

1) BM: MoorCraft Super Spec Latex Flat #275.
2) PPG: 6-70 Speedhide Flat Latex.
3) SW: ProMar 200 Flat Latex B30W200 Series.
4) Tnemec: Series 6 Tneme-Cryl.

2. Walls: Semi-gloss, Acrylic-Enamel Finish: One finish coat over an undercoat and a primer.

a. Primer: Alkali-resistant, latex-based, interior primer, as recommended by the manufacturer for this substrate, applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.

1) BM: MoorCraft Super Spec Latex Enamel Undercoater & Primer Sealer #253.
2) PPG: 6-603 Speedhide Interior/Exterior Acrylic Latex Alkali Resistant Primer.
3) SW: PrepRite Masonry Primer B28W300.
4) Tnemec: Series 151 Elasto-Grip FC.

b. First and Second Coats: Semi-gloss, acrylic-latex, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.6 mils.

1) BM: MoorCraft Super Spec Latex Semi-Gloss Enamel #276.
2) PPG: 6-500 Speedhide Interior Semi-Gloss Acrylic Latex.
3) SW: ProMar 200 Latex Semi-Gloss B31W200 series.
4) Tnemec: Series 1029 Enduratone.

3. Plaster (Epoxy)

a. Primer: Vinyl-acylic primer with a minimum volume solids of 26 percent, applied at a spreading rate recommended by the manufacturer to achieve a total dry film thickness not less than 1.1 mils.

1) PPG: Speed Hide Latex Primer 6-2.
2) SW: PrepRite 200 Interor Latex Primer B28W200.
3) Tnemec: Series 151 Elasto-Grip FC.

b. First and Second Coat: Semi-Gloss Finish: Two-component water based catalyzed epoxy with a minimum volume solids of 38 percent. Provide two (2) full and separate coats applied at a spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.5 mils per coat.

1) PPG: Pitt-Glaze Acrylic Epoxy S/G 16-901/16-902.
2) SW: Water Based Catalyzed Epoxy B70 series/B60V25.
3) Tnemec: Series 113 H. B. Tneme-Tufcoat.

F. Painted Woodwork and Hardboard: Provide the following paint finish systems over new, interior wood surfaces.

1. Semi-gloss, Acrylic-Enamel Finish: 2 finish coats over a wood undercoater.

a. Undercoater: Acrylic-latex-based, interior wood undercoater, as recommended by the manufacturer for this substrate, applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.

1) BM: MoorCraft Super Spec Latex Enamel Undercoater & Primer Sealer #253.
2) PPG: 6-855 Speedhide Interior Water-Based Undercoater.
3) SW: PrepRite Classic Primer B28W101.

b. First and Second Coats: Semi-gloss, acrylic-latex, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.6 mils.

1) BM: Super Spec Interior Latex Semi-Gloss Finish W276.
2) PPG: Pure Performance 9-510 Series.
3) SW: ProClassic W/B Acrylic S/G B31 Series.

G. Stained Woodwork: Provide the following stained finishes over new or existing interior woodwork:

1. Alkyd-Based, Satin-Varnish Finish: 2 finish coats of an alkyd-based, clear-satin varnish over a sealer coat and an alkyd-based, interior wood stain. Wipe wood filler before applying stain.

a. Stain Coat: Alkyd-based, interior wood stain as required to match Architect's sample.

1) BM: Benwood Waterborne Stain 205.
2) PPG: 77-560Rez Interior Semi-Transparent Stain.
3) SW: Wood Classics Oil Stain A-49 Series.

b. First and Second Finish Coats: Alkyd-based or polyurethane varnish, as recommended by the manufacturer, applied at spreading rate recommended by the manufacturer.

1) BM: Benwood Stays Clear Acrylic Polyurethane High Gloss 422.
2) PPG: 77-89 Rez Satin Polyurethane.
3) SW: Wood Classic Satin Varnish A66F390.

H. Mechanical and Electrical Items:

1. Provide a satin finish three (3) coat system best suited to substrate. Use heat resistant materials where required due to thermal output of item to be painted.

I. Ferrous Metal (except as specified above): Provide the following finish systems over ferrous metal:

1. Semi-gloss, Acrylic-Enamel Finish: One finish coat over an enamel undercoater over a primer.

a. Primer: Quick-drying, rust-inhibitive, metal primer, as recommended by the manufacturer for this substrate, applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.5 mils.

1) BM: M04 Acrylic Metal Primer.
2) PPG: Pitt-Tech 90-712 DTM primer.
3) SW: DTM Primer B66W1.
4) Tnemec: Series V10 Tnemec Primer.

b. First and Second Finish Coats: Semi-gloss, acrylic-latex, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.3 mils.

1) BM: IronClad Latex Low Lustre Metal & Wood Enamel #363.
2) PPG: Pure Performance 9-510 Series 6-411.
3) SW: ProClassic W/B Acrylic Semi-Gloss B31W200 Series.
4) Tnemec: Series 1029 Enduratone.

J. Zinc-Coated Metal: Provide the following finish systems over zinc-coated metal:

1. General:

a. Clean to remove soluble contaminants with solvent or water-based cleaner/degreaser in accordance with SD1. If new zinc-coated metal, remove oil/passivator coating according to SSPC-SP7 "Brush-Off Blast Cleaning."
b. Remove rust according to SSPC-SP3 "Power Tool Cleaning."
c. Galvanizing Repair Paint: Provide SSPC-Paint 20 with dry film containing 94-percent (min.) zinc dust by weight to repair damaged galvanized coating according to ASTM A 780.

2. Semi-gloss, Acrylic-Enamel Finish: 2 finish coats over a primer.

a. Primer: Galvanized metal primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.

1) BM: M04 Acrylic Metal Primer.
2) PPG: 90-712 Pitt-Tech One Pack Interior/Exterior Primer/Finish DTM Industrial Enamel.
3) SW: DTM Primer B66W1.
4) Tnemec: Series 115 Unibond DF.

b. First and Second Coats: Semi-gloss, acrylic-latex, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.6 mils.

1) BM: IronClad Latex Low Lustre Metal & Wood Enamel #363.
2) PPG: Pure Performance 9-510 Series.
3) SW: ProClassic W/B Acrylic S/G B31 Series.
4) Tnemec: Series 1029 Enduratone.

K. Exposed Overhead Work:

1. Primer: Rust-inhibitive waterborne acrylic primer, free of heavy metals; with a minimum volume solids of 44 percent; applied at a spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.5 – 5.0 mils.

a. BM: M04 Acrylic Metal Primer.
b. PPG: Pitt-Tech Primer / Finish 90-712.
c. SW: DTM Acrylic Primer/Finish B66W1.
d. Tnemec: Series 115 Unibond DF.

2. Topcoat: Flat Finish: 100 percent acrylic, waterborne dryfall, with a minimum volume solids of 40 percent; applied at a spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 3.0-5.0 mils.

a. BM: Super Spec Sweep Up Latex Flat 153.
b. PPG: Speedhide Acrylic Dryfall Flat 6-150.
c. SW: Waterborne Acrylic Dryfall B42W1.
d. Tnemec: Series 115 Unibond DF.

END OF SECTION

SECTION 09 97 23

CONCRETE FLOOR COATINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes concrete floor coatings **at polished concrete floors** indicated and specified.

B. Related Sections:

1. Section 09-05-61.15 “Moisture Vapor Emission Control - Allowance”

1.2 SUBMITTALS

A. Credit EQ 4: Submit certification stating that all coatings installed in the building interior meets the testing and product requirements of the California Department of Health Services *Standard Practice for the testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers,* including 2004 Addenda.

B. Product data: Submit the manufacturer's technical information, including label analysis and instructions for handling, storing, and applying each material.

C. Samples: Provide samples of floor coating material applied to substrate to simulate conditions.

1. Provide two 4 inch square samples.

D. Moisture Test Results: Submit the results of the required moisture tests of substrate, including a plan indicating the location where tests were performed. Submission will be for record only.

1. Documentation: In the event moisture tests indicate concrete substrates exhibit relative humidity level greater than the flooring manufacturer’s recommendations, submit written statement from the Authorized Tile Manufacturer respresentative that the moisture mitigation systems specified in Section 09-05-61.15 “Moisture Vapor Emission Control - Allowance” are manufacturer approved for use with their product(s) for installation on concrete decks.

1.3 QUALITY ASSURANCE

A. Applicator Qualifications: Engage an experienced applicator who has successfully completed floor coating system applications similar in material and extent to those indicated for the Project.

B. Single-Source Responsibility: Provide floor coating produced by one manufacturer.

C. Field Samples: On floor surfaces, duplicate finishes of prepared samples. Provide full-coat finish samples on at least 100 square feet of surface; simulate finished lighting conditions for reviewing in-place work.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to the job site in the manufacturer's original, new, unopened packages, and containers bearing manufacturer's name and label, and the following information:

1. Name or title of material.
2. Product description (generic classification or binder type).
3. Manufacturer's name, stock number and date of manufacture.
4. Contents by volume, for solids and vehicle constituents.
5. Application instructions.
6. Handling instructions and precautions.

B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 50 deg F. Maintain containers used in storage in a clean condition, free of foreign materials and residue.

1. Keep storage area neat and orderly. Remove rags and waste daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing, and applying the coating.

1.5 PROJECT CONDITIONS

A. Apply floor coating only when the temperature of surfaces to be coated and surrounding air temperatures are between 50 deg F and 90 deg F. Monitor atmospheric, floor, and liquid temperatures when applying polyurethane coating.

B. Do not apply floor coating to damp or wet surfaces.

1. Allow wet surfaces to dry thoroughly and attain the temperature and conditions specified before proceeding with or continuing the coating operation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

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

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

1. ICI Dulux/Devoe

a. ICI Devoe #505 DevFloor Clear W. B. Epoxy Primer-Sealer.
b. ICI Devoe #562 DevFloor Polyester Urethane Finish..

2. S-W:

a. Primer: Armor Seal 33.
b. Finish: FloorPlex CRU.

3. PPG:

a. Primer: PPG Megaseal HSPC Clear High Solids Epoxy Primer.
b. Finish: PPG Meagaseal HPU High Performance Urethane Clear.

2.2 PATCHING MATERIALS

A. Provide products approved by sealer system manufacturer.

B. Provide latex modified cement patching compound materials to patch holes and non-moving cracks in existing concrete floor.

C. Urethane Epoxy Flexible Joint Filler.

D. Sealant: Provide urethane based sealant to fill moving cracks.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions under which coating will be applied for compliance with requirements. Surfaces to receive floor coating must be clean, patched, and thoroughly dry before coating is applied.

1. Do not proceed with coating application until unsatisfactory conditions have been corrected.
2. Start of application will be construed as the Applicator's acceptance of surfaces within that particular area.

3.2 PREPERATION

A. Preinstallation Testing:

1. Alkalinity Testing: Perform pH testing according to ASTM F 710. Install MCE-control system in areas where pH readings exceed the flooring manufacturer’s recommendations.
2. Moisture Testing: Perform tests so that each test area does not exceed 1000 sq. ft. (304.8 sq. m). Perform no fewer than three tests in each installation area and no fewer than three tests in each concrete substrate construction pour. Test areas shall be evenly spaced in installation areas and evenly spaced in concrete construction pour areas.
3. Tests shall include the following:

a. Anhydrous Calcium Chloride Test: ASTM F 1869. Install MVE-control system in locations where concrete substrate MVER exceeds level greater than the flooring manufacturer’s recommendations.
b. Internal Relative Humidity Test: Using in situ probes, ASTM F 2170.

4. In locations where concrete substrates exhibit relative humidity level greater than the flooring manufacturer's recommendations, Moisture Vapor Emission Control Assembly shall be provided in accordance with Section 09-05-61.15 "Moisture Vapor Emission Control - Allowance".

B. Before applying coating, clean the substrates of substances that could impair bond of the various coating. Remove oil and grease prior to cleaning. Schedule cleaning and application so dust and other contaminates from the cleaning process will not fall on wet, newly coated surfaces.

C. Clean and prepare surfaces to be coated according to the manufacturer's instructions for each particular substrate condition and as specified.

1. Prepare concrete surfaces to receive coating. Remove dust, dirt, grease, oils, and release agents. Roughen, as required, to remove glaze.
2. Clean in accordance with ASTM D 4258 to remove oil and grease before mechanical surface preparation.

D. Mechanically abrade concrete surface using wet self-contained recirculating blast cleaning apparatus in accordance with ASTM D 4259, Standard Practice for Abrading Concrete. Profile shall be approximately 80 to 100 grit.

E. Patch holes and non-moving cracks with patching compound. Chip out loose material and widen cracks using low dust emission methods.. Apply patching compound and finish to match texture of existing floor. Apply sealants to moving cracks after widening to approximately ¼" minimum. Finish sealant flush with concrete floor.

F. Material Preparation: Carefully mix and prepare materials according to the coating manufacturer's directions.

1. Maintain containers used in mixing and application of coating according to the manufacturer's directions.
2. Mix multi-part components in accordance with manufacturer's instructions.
3. Stir materials before applying to produce a mixture of uniform density; stir as required during application.

3.3 APPLICATION

A. Apply coating by roller or other applicators according to the manufacturer's directions.

1. Do not apply coating over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to forming a durable coating film.
2. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer.

B. Application Procedures: Use rollers of 3/8 inch nap solvent-resistant, as recommended by the manufacturer for the material and texture required.

C. Apply primer material in the following number of coats:

1. Primer: One coat, 10 mils dry film thickness total, at a rate of 160 square feet per gallon. Allow 18 hours before top-coating, but not more than 72 hours.

D. Apply finish floor coating material in the following number of coats:

1. 1. Finish Coating: Apply one coat of transparent finish coat in accordance with manufacturer's written instructions. Apply at approximately 200 square feet per gallon

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: 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: 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.
3. Penco Products.
4. 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. Double-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. Grades 7 through 9:

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. Base: Steel framed curb with drywall finish and resilient base by others.

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: **3** 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.

E. Install end panels to conceal exposed ends of nonrecessed lockers.

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 11 14 00

FOOD SERVICE EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY

A. The plans and specifications as written are inclusive of known quantities, and quality standards that meet the minimum performance standards of the school lunch program for the city of Chicago public schools, the architectural limitations of the new building and the enrollment capacity of the new school.

B. All equipment shall be provided in strict accordance with the plans and specifications. All contractors, subcontractors, and sub-tier subcontractors shall be bound to the specifications as well as the general contract conditions, supplemental conditions and section one of the contract documents.

C. The naming of manufacturers in the specifications or on the drawings shall not be construed as an intention to eliminate the products of other manufacturers having equivalent products that meet or exceed the performance and quality standards of the named manufacturer.

D. Other manufacturer's products will be considered subject to meeting the performance criteria specified herein.

E. Any necessary modifications of the equipment, building, piping, ductwork, electrical or any other work including architectural costs resulting from the use of substituted equipment or material shall be at the sole costs of the contractor and specifically not the building owner.

F. The approval of substituted material or equipment by owner or the architect will not relieve the contractor from sole responsibility for the proper installation and original performance requirements nor will the approval and or review by the owner or architect be considered as a basis for any additional monies or an extension of time in the performance of the contract work.

1.2 DESCRIPTION

A. Furnish and install all food service equipment indicated on the drawings and as specified herein. The work includes but is not necessarily limited to the following;

1. Custom fabricated equipment.
2. Prefabricated equipment.
   a. Where more than one manufacturers name is listed you may select one of the named manufacturers as long as all options and accessories are included to meet the performance criteria.
3. Necessary appurtenances and accessories.

B. It is the intention of these specifications to designate an inclusive job, complete, ready for use, except plumbing rough-in, electrical rough-in, (all ductwork and fans up stream from the hood collars) and final connections which will be made by other contractors as noted equipment shall be set in place, leveled, ready for use except for the final connections by the respective building trades.

1.3 RELATED WORK SPECIFIED ELSEWHERE

A. The following sections contain requirements that relate to this section.

1. Division 22
   a. Waste, water and vent piping rough in for and make all final connections to all equipment.
   b. Pressure reducing valves, "P" traps, floor drains and grease traps.
   c. All indirect connected waste lines and condensate drainlines.

2. Division 26
   a. All wiring, conduit and fittings shown on the electrical drawings and final connection to the equipment.
   b. Receptacles for all equipment furnished with cords and plugs.
   c. Any miscellaneous disconnects, transformers, switches and other related equipment, which are required for a complete operating assembly.

1.4 QUALITY ASSURANCE

A. General Provisions

1. The Food Service Equipment Contractor will be referred to in the specifications and on the drawings as the "K.E.C." or the Kitchen Equipment Contractor, or the Food Service Equipment Contractor.
2. Kitchen Equipment Contractor shall carefully read all the Contract Documents and furnish the equipment to conform to the construction limitations of the building as set forth in all of the Contract Documents.

B. Uniformity of Construction

1. All custom-fabricated equipment shall be made by one manufacturer and shall be uniform throughout as to method and type of construction used. All equipment shall carry a nameplate identifying the manufacturer.

C. Contractor Qualifications

1. The Food Service Equipment Contractor shall have been regularly engaged in this work for the past five years, and use only skilled craftsmen completely familiar with the methods and materials called for herein.
2. The Contractor, upon demand, shall submit to Architect written evidence of having executed contracts of a comparable size and evidence of sufficient financial resources, which will enable him to perform the work in an expeditious manner, without delay to the project or to other trades.
3. Fabrication of items other than standard catalog items shall be fabricated by a food service equipment fabricator, which has the plant, personnel, and engineering facilities to properly design, detail, and fabricate high quality equipment. The fabricator shall be acceptable to the Architect and the Owner. Furthermore, all work in above category shall be standard unit assembly manufactured by one manufacturer and of uniform design, material, and finish equal to the specification as written.

D. Deviations of Specifications and Substitutions

1. The Contractor shall furnish equipment in strict accordance with the Specifications.
2. Any and all substitutes shall be in strict accordance with the conditions and procedures of the section one contract documents. Any requests not meeting the qualification and procedures as written will be cause for rejection by the Owner and or the Architect.

E. Standard Manufactured Equipment

1. All standard catalog items shall be furnished as specified in regard to brand name, item type, accessories, scheduled options and quantities.
2. All equipment shall be new and of the latest current model.
3. All equipment shall be delivered to the job site in the manufacturer's original shipping container or packaging, sealed and unopened.
4. All equipment shall be N.S.F. labeled.

F. Codes, Regulations and Standards

1. All equipment shall be constructed in strict conformance with the standards of the National Sanitation Foundation as outlined in its bulletin on food service equipment entitled "Standard No. 2" dated July and October, 1952 with its most current revision. Each piece of equipment shall have a "seal of

approval" label of the National Sanitation Foundation.

2. Installation of all food service equipment shall comply fully with Illinois State Department of Public Health Regulations and with other current applicable City, County, State and Federal regulations and code requirements.
3. The Contractor shall submit all notices required by law to authorities having jurisdiction and shall obtain and pay for all required permits or certificates of inspection. Submit to the Owner permits and certificates of inspection prior to the request for final payment.
4. All refrigeration shall meet the requirements of the City of Chicago Refrigeration Department and meet or exceed the requirements of the 1995 Montreal Convention.

G. Field Dimensions

1. The K.E.C. shall take all field dimensions as required to fit its equipment to the building conditions and shall coordinate with the other building trades in locating the utility service connections.
2. Trim will not be acceptable to fit the equipment to the building where the K.E.C. has failed to verify all field dimensions.

1.5 SUBMITTALS

A. Shop Drawings

1. Submit shop drawings in compliance with section one documents.

B. Equipment Data

1. Submit catalog sheets of standard manufactured equipment in compliance with section one documents.

1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

A. All materials and equipment shall be delivered and handled on the job site in a manner to prevent damage or loss, and stored in a place protected from damage, moisture and exposure to elements.

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

C. No equipment shall be delivered to the job site until the site is ready to receive the equipment.

1.7 JOB CONDITIONS

A. Coordinate work with the work of other contractors to insure proper roughing-in and final connections to equipment and that adequate openings and bases for equipment are provided.

B. Establish the exact size of openings to be left for all built-in work, and verify all measurements at the job site and be responsible for same.

C. Kitchen Equipment Contractor shall provide a representative at the job site during the installation of his equipment, who shall supervise the installation of the equipment and coordinate the connection of the equipment.

D. Protect all surfaces and structure in the area of installation from damage during the execution of work.

E. Schedule delivery of food service equipment so that areas to receive it are ready for installation.

F. Final tests of all equipment and demonstration of use shall be made in compliance with section one documents.

1.8 OPERATING AND MAINTENANCE INSTRUCTIONS

A. Furnish complete portfolios in compliance with section one documents.

1.9 GUARANTEE

A. The contractor is required to place all equipment in perfect operating order inclusive of each particular system or parts thereof, which are part of his work, ready for continuous use and satisfactory operation, in a manner acceptable to the Architect and Owner.

B. The contractor shall guarantee all furnished work and materials and equipment are in compliance with section one documents.

C. This guarantee shall not be constitute to abrogate other specified guarantees or usual guarantees against work that has been defective when supplied or that has been improperly cared for or protected during the construction period.

D. In addition to the normal testing and repair, which are required for the completion of his work during the guarantee period, the Contractor shall visit the building at the Owner's request to clarify any questions for the operating personnel concerning the proper operation and maintenance of the equipment.

E. All compressors furnished as part of the food service equipment shall have a five (5) year warranty commencing from date as stipulated above. This warranty shall be as provided by the manufacturer of the compressor.

F. Provide extended warranties where specified.

PART 2 - PRODUCTS

2.1 QUALITY AND CONDITION OF MATERIALS

A. All materials shall be new, first quality, and without flaws. Equipment shall be delivered upon completion in an undamaged condition. The K.E.C. shall protect from damage, clean, and put into operating condition before acceptance by Owner.

2.2 MATERIALS AND GAUGES

A. Unless otherwise specified or shown on drawings, all surfaces shall be fabricated of stainless steel, including exposed underbracing below tops of dish tables and open base tables and sinks. The gauges used shall be as follows:

1. 12 ga. (Special construction where specified) Wide tops, sinks, underbracing, drip pans and floor troughs.
2. 14 ga. (Standard construction unless otherwise noted) Table tops, sinks, underbracing and special overshelves.
3. 16 ga. (Standard construction, unless otherwise noted) Undershelves, interior shelves, overshelves, wall shelves, body panels for base cabinets and counters.
4. 18 ga. (Standard construction, unless otherwise noted) Body panels for wall cabinets, partitions, back wall panels, drawer and door fronts and canopies.

5. 20 ga. (Standard construction, unless otherwise noted) Liners for refrigerators, interior panels for drawers and doors.

2.3 MATERIALS

A. Non-Corrodible Alloy

1. Non-corrodible alloy, or stainless steel, specified hereinafter shall be Type 304 stainless steel, having a standard analysis of 18% chromium and 8% nickel. Sheets shall be stretcher leveled, free of buckles, warps and surface imperfections.
2. All gauges, where specified United States Standard gauges. All exposed surfaces shall be given a finish equal to #4 or 180 grit. Where manufacturing process and welding disturb the original finish, it shall be carefully reground, polished and restored to match balance of surface.

B. Galvanized Iron: Where galvanized iron is specified, furnish hot-dip galvanized, copper bearing steel. Use in largest possible sheets with as few joints as necessary. All sheets shall be commercial quality, stretcher leveled, and re-rolled to insure a smooth surface.

C. Faucets, Valves, Fittings: Sinks fitted with faucets as called for under each or as a separate item listed as faucets. All basin type faucets, Chicago #51, T&S #B202, or Fisher #3110. All splash mount faucets, Chicago #445, T&S #B237, or Fisher #3210. All special faucets for kettles, pre-wash, etc., shall be listed under Item Specifications.

D. Motors: Up to and including 1/2 HP shall be wired for 120 volts, single phase. Motors over 1/2 HP shall be wired for 208 volts, coordinate with electrical contractor.

E. Switches and Controls: The equipment contractor shall supply each motor-driven appliance or electrically heated unit a suitable control switch or starter of proper type in accordance with Underwriter's Laboratories and code requirements. Controls that are mounted on vertical surfaces of fabricated fixtures shall be set into recessed die stamped stainless steel cups or otherwise indented to prevent damage.

F. Electrical Elements:

1. Fabricated items requiring dry heat, such as plate warmers, urn stands shall be fitted with strip or ring heaters of sufficient wattage to provide specified heat. Unless otherwise specified, these heaters shall be installed directly below bottom shelf. Mount in suitable channels and interconnect with hard copper wire in accordance with Electrical Code. Provide each fixture with one or more thermostatic controls, each with pilot light indicator(s).
2. Properly protect all wiring in metal enclosures in accordance with the National Electrical Code, the Chicago Electrical Code and UL Standards.

2.4 FABRICATION

A. Open Type Bases

1. Pipe standards and frames: All pipe stands for open base tables or dish tables shall be constructed of 1-5/8 OD stainless steel tubing, with stringers and cross braces of the same material. All joints between legs and cross braces shall be welded and ground smooth. Legs shall not be spaced more than 5'6" on center.
2. Feet: Fit all pipe legs with sanitary, die-stamped stainless steel bullet shaped feet, fully enclosed, with a slightly rounded bottom to protect the floor. Fit top of these feet with a male threaded stem to fit into the end of the pipe legs specified and provide a total adjustment of 1". Stem shall be extra long so threads are not exposed. Finish off bottom on pipe leg smoothly and overlap stem to provide sanitary fitting and prevent accumulation of grease or other debris at this joint.

3. Undershelves: Unless otherwise specified in item Specifications, undershelves shall be constructed of 16 gauge stainless, turned down front, sides and back 1-1/2" with edges deburred. Shelf shall have rounded corners and be provided with die-stamped raised ferrules to receive legs. Reinforce shelf with 14 gauge stainless steel closed inverted hat type channels. Dish table shelves shall be removable.

B. Enclosed and Semi-Enclosed Bases:

1. Body: Body shall be constructed of fronts, and ends and backs of 18 gauge stainless steel formed and reinforced to create a rigid, welded structure.
2. Tops: When metal tops are specified, reinforced with 14 gauge stainless steel closed inverted hat-type channel bracing.
3. Shelves: intermediate shelves shall be welded in place, unless otherwise specified. Bottom shelves shall be made removable is sections. Both types of shelves shall be constructed of 16 gauge stainless steel turned down fronts, sides and back 1-1/2" with deburred edges. Shelves shall be braced with 12 gauge stainless steel closed inverted hat-type channels. Provide pipe chase openings for utility lines when required. Intermediate shelves shall be turned up 1-1/2" in back and sides and feathered along wall surfaces of base.
4. Legs: Unless otherwise specified, or detailed, bases shall be mounted on 6" high, 1-5/8" OD stainless steel seamless tubular legs, each fitted with a stainless steel closed bottom, vermin-proof, adjustable bullet shaped foot. Legs shall be welded to 14 gauge stainless steel closed inverted hat-type channel welded to body under lower shelf.
5. Drawers: Drawers, unless otherwise specified, shall be 20" x 20" x 5" deep. Drawer front shall be pan-type, fabricated of 14 gauge stainless steel, fitted with a S.S. recessed pull and shall be flush with enclosure. Drawer insert shall be fabricated of 28 gauge stainless steel with all interior coved 1/2" radius. Insert shall be removable and shall be at least three-quarter exposed when drawer is opened fully. Drawer shall operate on heavy-duty stainless steel extension slides with stainless steel ball-bearing rollers. Drawer shall be enclosed fully and shall be self-closing except when fully extended. Provide stainless steel hasp fully welded to all drawers.

C. Table Tops (Metal):

1. Metal table tops of 14 gauge stainless steel with all horizontal and vertical corners coved on 5/8" radius. Shop seams and corners welded, ground smooth and polished. Working tops enclosed base fixtures reinforced on the underside with a framework of 1-1/2" x 4" x 1-1/2" inverted closed hat channel. Cross angle members placed at each pair of legs. Additional cross angle members between legs on not less than 48" centers. One angle runner, running lengthwise, provided on top so here will not be any noticeable deflection. Studweld reinforcements to underside of top. Do not use rivets or bolts through top.
2. Provide field joints in top where necessary and locate for practical construction, consistent with sizes convenient for shipping and accessibility into building. See paragraph entitled "Field Joints" for description of these joints.
3. Turn metal tops down 1-3/4" in a bullnose roll except where adjacent to walls or other pieces of equipment. Turn wall side up and back 2" unless otherwise specified in schedule.

D. Dish Table Tops:

1. Construct tops of dish tables of 14 gauge stainless steel with all free edges turned up 3" and finished with die-formed sanitary rolled rim. Flange sides adjacent to walls or higher fixtures up 6" and back 2" at up 45 degrees then down 3/4". All interior horizontal and vertical corners shall be coved on 5/8" radius. Outside radius of rolled rim corners shall be concentric with side cove.
2. Mount dish table tops on stainless steel tubing legs and connecting rails same as specified for open base tables.
3. Ends of splash shall be closed. Free corners of tops shall be spherical.

E. Sinks, Drainboards and Sink Insets:

1. Unless otherwise specified in Item Specifications shall be fabricated of 14 gauge stainless steel with 1-1/2" rim of front and sides and shall be of one-piece welded construction. All interior corners shall be coved a minimum of 3/4" radius, horizontally and vertically, with all intersections meeting in a spherical section. Solder filling shall not be acceptable. All exposed corners shall be bullnosed. Unless otherwise specified, backsplash shall be turned up 8", back on a 45 degree angle and down 3/4" with exposed ends closed. Bottom shall be pitched and fitted with 1-1/2" waste outlet with stainless steel removable strainer plate, lever handle valve and connected overflow. The use of die drawn bowls will not be accepted.
2. Multiple Compartments: All sinks having two or more compartments adjacent shall be of double thickness continuously welded to form a continuous front. Each compartment shall be pitched and fitted with a 1-1/2" I.P.S. waste outlet with stainless steel removable strainer plate, lever handle valve and connected overflow.
3. Drainboards: Where drainboards with sink compartments are specified they shall be fabricated of the same material as sink and shall be welded integrally with sink to form one-piece welded construction. Drainboards shall be pitched 1/8" per foot minimum. However, drainboards rim shall be kept level with sink. The front end shall be turned up 3" and finished with a 1-1/2" channel rim, with edges deburred. All exposed corners shall be rounded. Unless otherwise specified, backsplash shall be turned up 8", back on a 45 degree angle and down 3/4" with all exposed ends closed. Drainboards shall be reinforced with a 14 gauge stainless steel closed inverted hat-type channel bracing. Undersides of sinks and drainboards shall be coated with 1/8" thick hard-drying, sound-deadening mastic material and sprayed with aluminum paint.
4. Sink Insets: Sinks built into tops of fixtures, unless otherwise specified in Item Specifications, shall be fabricated of 14 gauge stainless steel. All interior corners shall be coved a minimum of 3/4" radius, horizontally and vertically with all intersections meeting in a spherical section. Sinks shall be welded integral to table tops. Riveted, spot-welded, and soldered joints between sink and top of table or in sink proper shall not be acceptable. Bottom shall be pitched and fitted with 1-1/2" I.P.S. waste outlet with stainless steel crumb strainer waste outlet. All sizes of sinks specified are inside dimensions.

F. Field Joints:

1. All field joints shall be welded.
2. All welded parts shall be non-porous and free of imperfections, free of pits, cracks, or discoloration. All welds of galvanized metal on dish tables and sinks shall be ground smooth, sandblasted, and sprayed with molten zinc at 1,200 degrees F to a minimum thickness of .004". Tinning of welds shall not be acceptable. All welds of stainless steel shall be ground and polished to original finish.

G. Sound Deadening:

1. Underside of all tops at contact of body and bracing shall be sound deadened with high quality asphalt mastic: Philip Cary "Hush Mush", Daubert Chemical "Quiet Tape", or approved equal.
2. Underside of drawers and shall be sound deadened.
3. Double walled sliding and swing doors shall be fitted with sound deadening insulation between the walls.

PART 3 - EXECUTION

3.1 GENERAL

A. Furnish to the architect a purchase order log with the following information.

1. Line item equipment number
2. Quantity of each line item

3. Manufacturer name
4. Model number of line item
5. Date ordered
6. Scheduled delivery date
7. Purchase order number

B. Furnish the general contractor with the following items.

1. A delivery schedule compatible with their construction schedule.
2. All items of equipment that would require early installation dates, i.e. hoods, floor troughs, etc.
3. Copies of all delivery receipts and bill of ladings for all items delivered to the job site. Copy shall bare the written name and signature of receiving person.
4. All loose, small component items shall be clearly taped with the corresponding item number.
5. The general contractor shall distribute all components that are scheduled for installation by others to each respective trade.

C. Trash and crating

1. Remove all debris generated by k.e.c. to job site dumpsters on a daily basis.
2. Do not allow any debris to accumulate in any work area that would impede the work of others or would in any way create a hazard.

3.2 SITE INSPECTIONS

A. Report to the general contractor in writing verification of all rough locations that are not located per the drawing or the requirements of the specified equipment.

B. Field verify actual as built dimensions of all walls, rough-ins, structurals, etc. That effect your work.

C. Field verify that all areas are ready to receive equipment prior to delivery to site.

3.3 INSTALLATION

A. Deliver all equipment in strict accordance with the specifications.

B. Deliver, uncrate, assemble, set in place, and level all equipment to be ready for final m.e.p. connections.

C. Cover all equipment work surfaces with, a thickness equal to the original packaging material, a cover to protect the equipment until the job site is ready for final clean up. All covers shall be securely fastened to the equipment.

D. Silicone seal all equipment to walls where equipment abuts walls. Seal shall be neat, clean and coved so as to create an easily cleanable surface.

E. Securely fasten with concealed fastener all scheduled trim after all final connections are completed.

F. Field verify that all exposed edges of all equipment is free of all burrs, sharp edges and all exposed surfaces are free of any and all fabrication irregularities. Where necessary repair, grind and polish irregularities to a quality finish consistent with the specification standards.

G. Remove all protective covering from all equipment and clean all equipment ready for final sanitizing when the job site is ready for final inspection by the architect.

3.4 TESTING

A. Verify that all equipment is connected as per the manufacturer requirements.

B. Lubricate, start-up, test and adjust all equipment prior to the architect's and owner's inspection.

C. Notify the architect in writing that all equipment is ready for inspection and demonstration.

3.5 CONTRACT CLOSE OUT

A. Deliver to the architect all required copies of owner's manuals, operating instructions and warranty documents prior to scheduling architect acceptance review.

B. Demonstrate all items of equipment to architect and owner.

C. Deliver all keys clearly tagged, miscellaneous loose accessories to the owner via schedules bill of lading and secure signature for same.

3.6 EQUIPMENT SCHEDULE

A. All faucets and plumbing trim to be by the same manufacturer. Each unit to contain internal check valves

Hand Sinks - .5 GPM Aerator
Chicago Faucet #521-GN
Fisher #3615
T&S B-1115

Pre-Rinse Sprays
Chicago Faucet #510-GCL
Fisher #2210-WB
T&S B-0133

Prep/Pot Sink (splash mounted, 13” DJ) 2.2 GPM Aerator
Chicago Faucet #445-DJ13E1CP
Fisher #3200/4000-0002
T&S B-0267

Drains (Twist)
Chicago Faucet #1366-NF
Fisher #22209
T&S B-3950

B. KEC shall set all equipment in place and et up , ready for final utility connections by others, provide all field modifications to the equipment to achieve level and plumb installation. KEC shall comply with all applicable codes and (NSF) sanitation requirements. KEC to verify make, model, dimensions and utility requirements of all purveyor, vendor and owner provided equipment to include on the rough-in plans.

ITEM 1 WALK-IN REFRIGERATOR / FREEZER

Quantity: One (1), nominal, size and shape per plan, two (2) compartment.

KOLPAK	BALLY PRODUCTS	NOR-LAKE

Walk-in cooler shall be exterior sized per the drawing for nominal width and length, and shall be 8'-6" high. Failure of the Kitchen Equipment Contractor to provide the correct size, as specified that results in changes to the building architectural and mechanical electrical and plumbing system shall pay all costs to alter same.

Walls panels, interior and exterior shall be a minimum standard of .040 gauge, pebble pattern finish aluminum, with 4" thick closed-cell foamed-in-place polypropolene construction, standard cam-lock connection system, spaced not to exceed 31" on center for walls and 23" on center for ceiling to insure a sealed enclosure when erected. Ceilings to be white baked enamel.

Louvered aluminum enclosure panels to the finished ceiling across front, and trim angles/panels at building walls.

Stainless steel insulated floor set in building floor depression.

Doors and door panel sections shall be positioned as shown on the drawings. Each 34" minimum door shall fit flush with box exterior; shall be equipped with a minimum of 3 cam-lift, self-closing hinges securely fastened to door frame; magnetic sealing door gasket, recessed light switch with pilot light, door frame heater, 14 gauge stainless steel threshold plate, 2" dial thermometer, viewport, cam-action locking handle with interior safety release, heated pressure relief port and audio alarm. Provide 36" high x 1/8" aluminum treadplate kickplates on both interior and exterior.

Interior lighting shall include one (1) standard LED fixture provided at the door opening and additional LED light fixtures in each box furnished loose to the Electrical Contractor for installation and for inter-connection to door light switches, two (2) extra lights in freezer and two (2) extra in cooler. All conduit runs shall be outside the walls.

ITEM 2 FREEZER SHELVING

Quantity: Seven (7), size per plan

CAMBRO MFG. CO.	AMCO/SPG	METRO INDUCTRIES CORP
MODEL: ELEMENTS	MODEL: PPV	MODEL METROMAX
CAMSHELVING		

Steel core posts and traverse supports polypropolene coated. Open grid, removable shelf mats capable of being washed in a commercial dishwasher. A 48" shelf section shall support 800 lbs. Each unit to be sized per plan and adjusted per field conditions and to be approximately 75" – 78" high and to have five (5) tiers. Each section to be fitted with 5" high premium swivel casters without brakes suitable for corrosion resistant applications. Adjust sizes as necessary to fit within dimensions of the selected walk-in manufacturer.

ITEM 3 REFRIGERATION SYSTEM (F)

KOLPAK BALLY PRODUCTS NOR-LAKE

Refrigeration system shall consist of indoor, air cooled units located on the ceiling of Item #1; refer to drawings for location; refer to MEP drawings for operation voltage and amperage. Compressors to be City of Chicago plenum rated.

Refrigeration systems shall be provided by same manufacturer as walk-in freezer with R404a refrigerant. Furnish a letter of certification that the compressor and coil system is sized correctly to operate and hold product at -10 degrees F. with a maximum run time of 80% and as a working freezer. Assume product load will be frozen going in; door open thermal loss of 10% for 4 hours per day, five out of seven days.

Refrigeration system: shall consist of furnishing and installing complete refrigeration systems to service each walk-in freezer. Furnish complete with permits, hook-ups, valves, controls, disconnects, start-up, and 1 year of service after Final Acceptance. All work shall be performed in accordance with the City of Chicago Refrigeration Code and shall meet the minimum standards as set by the Montreal Convention.

Blower Coils shall be furnished for each compartment and shall be suspended from ceiling with cold air discharge parallel to ceiling. Coils shall be sized to maintain freezers at -10 degrees F. Provide electric defrost heater on drain line from the freezer coil and extend to floor drain.

1. Pre-assembled remote or pre-charged with factory piped PRX.

2. Condensers shall be Hermetic.

3. Provide unit with sight glass, drier and liquid line assembly, and pressure relief valve. Pressure relief valve and all piping shall meet the Chicago Mechanical Code.

4. 208/1 voltage

ITEM 4 COOLER SHELVING

Quantity: Seven (7), size per plan

CAMBRO MFG. CO.	AMCO/SPG	METRO INDUCTRIES CORP
MODEL: ELEMENTS	MODEL: PPV	MODEL METROMAX
CAMSHELVING		

Steel core posts and traverse supports polypropolene coated. Open grid, removable shelf mats capable of being washed in a commercial dishwasher. A 48” shelf section shall support 800 lbs. Each unit to be sized per plan and adjusted per field conditions and to be approximately 75” – 78” high and to have five (5) tiers. Each section to be fitted with 5” high premium swivel casters without brakes suitable for corrosion resistant applications. Adjust sizes as necessary to fit within dimensions of the selected walk-in manufacturer.

ITEM 5 REFRIGERATION SYSTEM (R)

Quantity: One (1), nominal, size and shape per plan – R404a refrigerant

KOLPAK	BALLY PRODUCTS	NOR-LAKE

Same general specifications as described for walk-in freezer system, Item #3 plus drain line heater.

Refrigeration system shall consist of indoor, air cooled units located on the ceiling of Item #1; refer to drawings for location; refer to MEP drawings for operation voltage and amperage.

ITEM 6 ANGLE RACKS- REVISED PER REVSION #4-ADDENDUM #3, DATED 2/28/18

Quantity: Six (6)

CRES COR	PIPER PRODUCTS	**NEW AGE IND.**
MODEL: 207-1818C	MODEL: RIU-64-11	**MODEL: 1335**

Frame and cross supports shall be of 1" square tubing, extruded aluminum alloy, all welded construction. Bottom shall be of solid aluminum alloy with aluminum hat channels welded underneath for recessed casters. Tray slides shall be of extruded universal aluminum angles 3" welded to the frame. Units shall be furnished with 5" diameter heavy duty, plate type casters two supplied with brakes and to be sized to fit into Items #14 and #15.

ITEM 7 PREP TABLE W/ SINK

Custom fabricated, NSF
Quantity: One (1) 7'-0" x 2'-6" x 3'-10" O.A.
One (1) 7'-6" x 2'-6" x 3'-10" O.A.

- General construction per standard detail 1, 2, 8 and 10.
- Rim per detail 5d at front and right end.
- Backsplash per detail 3b and 4a at rear and walls.
- Legs and feet per detail 6.
- One (1) 20" x 20" x 12" deep sink where shown fitted with lever waste and faucet.
- 16 gauge stainless steel undershelf clear of sink compartment
- One (1) 20" x 20" x 5" deep stainless steel drawer/housing.

ITEM 8 HAND SINKS-REVISED PER REVSION #4-ADDENDUM #3, DATED 2/28/18

Quantity: Six (6)

EAGLE GROUP	ADVANCE TABCO	UNVERSAL STAINLESS
MODEL HSAN-10-F-LRS	MODEL 7-PS-60	MODEL CHS-1

Handsink shall include splash-mounted, chrome-plated T&S #B-115-CR faucet with wrist handles and swivel spout with .5 GPM aerator, 1-1/2" stainless steel strainer waste, and a stainless steel offset bracket for wall mounting. Include stainless steel end risers and **welded side splashes on both sides**.

ITEM 9 CONVECTION OVEN DOUBLE STACK

Quantity: Two (2)

VULCAN	GARLAND	BLODGETT
MODEL: VC66GD	MODEL: MCO-GD-20-S	MODEL: ZEPH-200GES-DBL

Each oven shall be natural gas at 5" w.c. and shall include a manifold to join upper and lower sections to a common 1" supply connection. Provide 1" x 4'-0" commercial coated stainless steel flexible gas hose with quick disconnect device and restraining safety cable. Each unit shall be equipped with 5" minimum casters, two with brakes, electronic ignition, pressure regulator, 6'-0" long UL listed power cord, stainless steel left and right side and top, two-speed fan, minimum of 4 racks per oven section, one hour electric timer, 115 volt oven fan and solid stainless steel doors. Gas pressure at oven will be 6" w.c. Provide pressure regulating valve as required.

ITEM 10 DOUBLE STEAMER-

Quantity: One (1) Double- Conncetionless

GROEN	ACCUTEMP	CLEVELAND
MODEL: XS-208-12-3	MODEL: E62083D150DBL	MODEL: 22CET6

- One (1) Stainless steel stand.

ITEM 11 REACH-IN REFRIGERATOR

Quantity: Two (2)

TRUE MFG.	TRAULSEN	CONTINENTAL
MODEL: T-49	MODEL: G20010	MODEL: 2R

Include the following features and options:

1. Minimum of 49 cubic feet capacity.
2. Aluminum interior and exterior with stainless steel doors.
3. 9'-0" long UL listed attached cord and plug.
4. Casters, two (2) with brakes.
5. Minimum 1/3 HP, 115 volt, condensing unit.
6. Hot gas condensate evaporator.
7. Items #11 and #12 to be the same manufacturer.

ITEM 12 REACH-IN FREEZER

Quantity: Two (2)

TRUE MFG.	TRAULSEN	CONTINENTAL
MODEL: T-49F	MODEL: G22010	MODEL: 2F

Include the following features and options:

1. Minimum of 49 cubic feet capacity.
2. Aluminum interior and exterior with stainless steel doors.
3. 9'-0" long UL listed attached cord and plug.
4. Casters, two (2) with brakes.
5. Minimum 1/2 HP, 115 volt, condensing unit.
6. Hot gas condensate evaporator.
7. Items #11 and #12 to be the same manufacturer.

ITEM 13 EXHAUST HOOD-TYPE I

Quantity: One (1) 16’-0” x 5’-0” x 2’-0”

AVTEC INDUSTRIES	CAPTIVE-AIRE	CADDY

The exhaust hood[s] construction and specifications shall meet or exceed the minimum standards as set forth by the following agents and authorities:

1. The City of Chicago Building Code
2. Underwriter's Laboratories
3. The National Sanitation Foundation
4. The National Fire Protection Agency
5. Illinois Department of Public Health

The exhaust hood[s] and PSP shall be sized as per the Food Service and architectural drawings and the mechanical drawings; both of which allow for a minimum overhang of 6" in rear for the mechanical connection of the equipment under the hood, 12" in front of equipment, and the length by 6" at each side beyond the equipment as it is spaced under the exhaust canopy, except against a building wall. Install bottom at 80” a.f.f.

The exhaust and return air shall be sized as per the mechanical drawings.

Where the mechanical requirements of the exhaust hood[s] provided by the Food Service Equipment Contractor do not meet the values as set forth by the Contract Documents, all costs for altering the duct and fan system, altering the H.V.A.C. system of the room, general construction modification, including any required architectural and/or engineering review shall be borne by the Kitchen Equipment Contractor.

The entire hood shall be constructed of a minimum of number 18 gauge, Type 304 stainless steel, No. 4 finish on all exposed areas.

1. Exhaust duct collar to be 4” high with 1” flanges. Duct sizes, CFM and static pressure requirements shall be as shown on the drawings. Hood shall be recognized by NSF.

2. Supply duct collar to be 2 ¾" with 1" flange. Duct sizes, CFM and static pressure requirements shall be as shown on the drawings. Hood shall be recognized by NSF.
3. LED light fixtures, quantity as follows. Light fixtures shall be interconnected to a single point connection within hood sections.
   a. Hood under 8'-0" long to include (1) fixture.
   b. Hood between 8'-0" and 10'-0" long to include (2) fixtures.
   c. Hood between 10'-0" and 16'-0" long to include (3) fixtures.
4. 20 gauge, Type 304 stainless steel enclosure panel to enclose area above the canopy from the top of the canopy to the building ceiling.
5. Provide 18 gauge, Type 304 stainless steel wall flashing with a No. 4 finish to wall or walls under exhaust canopy. Wall flashing shall extend from the cove base to the underside of hood. Provide clean, tight knockouts for all utility rough-ins.
6. Provide light and fan switches on the face of the hood with interior baffle.
7. Provide stainless steel utility cabinet where shown on plan

ITEM 14 ROLL-THRU FOOD WARMERS

Quantity: Three (3)

TRAULSEN	CONTINENTAL	TRUE MFG.
MODEL: RIH-132-L-FHS	MODEL: DLI-WI-SS-RT	MODEL: STR1HRT-1S-1S

- Item #14 and #15 to be the same manufacturer.
- Stainless steel trim at building openings.

ITEM 15 ROLL-THRU REFRIGERATORS

Quantity: Three (3)

TRAULSEN	CONTINENTAL	TRUE MFG
MODEL: RRI-132-LPUT-FHS	MODEL: DLI-RI-SS-RT	MODEL: STR1RRT-1S-1S

- Item #14 and #15 to be the same manufacturer.
- Stainless steel trim at building openings.

ITEM 16 HOT FOOD SERVING COUNTERS

Quantity: Three (3)

All serving counter components to be by the same manufacturer. 36" working counter top height all units.

DUKE	DELFIELD	MOD-U-SERVE
MODEL #TEHF-60SS	MODEL: MARK 7 SERIES	MODEL: MCT-HF-4

TOP, fabricated of minimum 16 ga., type 302 polished stainless steel, turned down 2" on edges, with all corners welded, ground and polished. The food pan wells are one-piece, die-stamped stainless steel sized to accommodate standard 12" x 20" x 6" maximum depth food pans. Top turned down into the wells, with a sanitary raised bead around the full perimeter of each well.
APRON, Full length x 10" stainless steel high apron, with a slanted stainless steel control panel at rear.
HEATING SYSTEM, each food pan well to be heated by means of a minimum 900 watt heating system, and to be furnished with an adjustable control thermostat with "off" position and neon pilot light. All wells to be wired to a

twist lock inlet, which is set in a stainless steel recess with a removable cord set. Unit to be Underwriters Laboratories listed.
CASTERS, mount on four (4) 5" diameter, heavy-duty, double ball bearing swivel casters with non-marking rubber tires. Two casters fitted with brakes adjust height to accommodate 36" work.
LOCKING DEVICE, Cam-action latches with trigger releases to join multiple units together at the top to form a unitized serving line.

Include the following accessories:

1. Full length x 12" wide, solid, stainless steel, ribbed type tray slide set on stainless steel folding brackets, 34" a.f.f. maximum.
2. Full length x 10" wide x 15-1/2"± high food protector consisting of stainless steel uprights and top shelf, with mar-proof, surface hardened, clear acrylic plastic sneeze guards and fluorescent, shielded, light fixtures.
3. Full length minimum 6" wide stainless steel work shelf on stainless steel folding brackets.
4. Full front panel and end enclosure panels with laminate or fiberglass finish.
5. Full length x full width stainless steel undershelf.

ITEM 17 FLAT TOP SERVING COUNTERS

Quantity: Three (3)

DUKE	DELFIELD	MOD-U-SERVE
MODEL: TST- SS	MODEL: MARK 7 SERIES	MODEL: MCT-FT

Same general materials, accessories, specifications and details to match Item #16, except:

1. Adjust model number as required to match sizes on the drawings.
2. Delete work shelf.
3. Provide undershelf

ITEM 18 COLD FOOD SERVING COUNTERS

Quantity: Three (3)

DUKE	DELFIELD	MOD-U-SERVE
MODEL: TCM-60-N7	MODEL: MARK 7 SERIES	MODEL: MCT-CF-4

Same general materials, specifications and details to match Item #16 with:

1. Full length x 12" wide, solid, stainless steel, ribbed type tray slide set on stainless steel folding brackets, 34" a.f.f. maximum.
2. Full length double tier protector case with 1/4" clear tempered glass sneeze guards and shelves, lower shelf mounted at 12" above work surface, with fluorescent shielded light fixtures.
4. Delete work shelf.

ITEM 19 MILK CASE COOLERS– **REVISED PER REVSION #4-ADDENDUM #3, DATED 2/28/18**

Quantity: Three (3)

TRUE	BEVERAGE AIR	NORLAKE
MODEL: TMC-49-S-SS	MODEL: ST49N	MODEL: AR-124

ITEM 20 CHECKER COUNTERS

Quantity: Three (3)

DUKE	DELFIELD	MOD-U-SERVE
MODEL: TCS-30	MODEL: MARK 7 SERIES	MODEL/: MCT-CRSG

Same general materials, accessories, specifications and details to match Item #16.

1. Full length x 12" wide, solid, stainless steel, ribbed type trayslide set on stainless steel folding brackets.

ITEM 21 POS SYSTEMS-BY OWNER

Not in Division 11 1400 – provided by owner.

ITEM 22 MOBILE UTENSIL RACKS

Quantity: Two (2), size per plan

METRO INDUSTRIES CORP.	CAMBRO	AMCO/SPG
MODEL: METRO MAX	MODEL: ELEMENTS	MODEL: PPV

Steel core posts and traverse supports polypropolene coated. Open grid, removable shelf mats capable of being washed in a commercial dishwasher. A 48" shelf section shall support 800 lbs. Each unit to be sized per plan and adjusted per field conditions and to be approximately 72" – 75" high and to have four (4) tiers. Each section to be fitted with 5" high premium swivel casters without brakes suitable for corrosion resistant applications.

ITEM 23 THREE COMPARTMENT SINK

Quantity: One (1)

EAGLE	CUSTOM FABRICATED	ELKAY FOOD SERVICE
MODEL: FN2860-3		

- Two (2) faucets and three (3) lever handled drains.

ITEM 24 FIRE SUPPRESSION SYSTEM

Quantity: One (1)

ANSUL 3.0 WET CHEMICAL

- Complete surface, duct protection to comply with UL, NFPA 17 and 96 and all local codes/ authorities.
- One (1) remote fire pull
- Mechanical gas line shut off valve
- Test, re-charge and certify system
- Locate tanks in utility cabinet

ITEM 25 SIX BURNER RANGE

Quantity: One (1)

GARLAND/ US RANGE MODEL: C836-6	VULCAN	SOUTHBEND

Provided with a single, stainless steel high backshelf, 5" minimum, non- marking casters, two with brakes, natural gas, ¾" rear supply connection, gas pressure regulator, stainless steel cap and cover both end manifolds. Provide ¾" x 4'-0" commercial coated stainless steel flexible gas hose with quick disconnect device and restraining safety cable.

ITEM 26 STOREROOM SHELVING

Quantity: Nine (9), size per plan

CAMBRO MFG. CO. MODEL: ELEMENTS CAMSHELVING	AMCO/SPG MODEL: PPV	METRO INDUCTRIES CORP MODEL METROMAX

Steel core posts and traverse supports polypropylene coated. Open grid, removable shelf mats capable of being washed in a commercial dishwasher. A 48" shelf section shall support 800 lbs. Each unit to be sized per plan and adjusted per field conditions and to be approximately 75" – 78" high and to have five (5) tiers. Each section larger than 36" to be fitted with 5" diameter swivel casters, two (2) w/brakes. Units 36" or shorter to be secured to adjacent perpendicular units with corner connections.

ITEM 27 DUNNAGE RACKS

Quantity: Four (4), size per plan

CAMBRO MFG. CO. MODEL: DR SERIES	WINHOLT MODEL: PLSQ SERIES	METRO INDUSTRIES CORP. MODEL: HPPD SERIES

One (1) piece construction of polypropylene with slotted tops and "bowtie" links/connectors.

ITEM 28 MOP SINK- REVISED PER REVSION #4-ADDENDUM #3, DATED 2/28/18

Not in Division 11 1400 – provided by plumber

ITEM 29 CHEMICAL SHELVING- REVISED PER REVSION #4-ADDENDUM #3, DATED 2/28/18

Quantity: One (1), size per plan

CAMBRO MFG. CO.
MODEL: ELEMENTS CAMSHELVING

AMCO/SPG

METRO INDUCTRIES CORP
MODEL: PPV MODEL METROMAX

Steel core posts and traverse supports polypropolene coated. Open grid, removable shelf mats capable of being washed in a commercial dishwasher. A 48" shelf section shall support 800 lbs. Each unit to be sized per plan and adjusted per field conditions and to be approximately 75" – 78" high and to have five (5) tiers. Each section to be fitted with 5" high premium swivel casters without brakes suitable for corrosion resistant applications. Adjust sizes as necessary to fit within field dimensions.

ITEM 30 UTILITY CARTS

Quantity: Four (4) NSF

LAKESIDE
MODEL: 953

PIPER PRODUCTS
MODEL: 6-UCM-2

- Corner bumpers
- Unit may be custom fabricated to comply with above specifications.

ITEM 31 RECYCLING COUNTER

Custom fabricated, size approximately 16'-0" x 2'-6" x 3'-0" O.A. high. 32" high counter top.
Quantity: Two (2)

- General construction per details 1, 2, 6 and 12.
- Backsplash per details 3e and 4a against building walls.
- Rim per detail 5f
- Integral sink approximately 40" x 20" x 12" deep fitted with T&S or Chicago deck mounted faucet with 12" nozzle with loose keyed stops and 2.2 GPM aerator spout, and crumb cup basket drain. Provide hinged stainless steel double pan solid door. Omit bottom shelf in the cabinet base.
- Support top with Walsh-Simmons seating #BAS 30WL cantilevered table brackets spaced to accommodate the recycling bins, Item #32. Tops to be set at 32" a.f.f.
- Provide cutout in top with 1" turndown at rear and ends and 1" turn-up at front with radiused corners. Cutouts to be centered over recycling bins between top supports.

ITEM 32 RECYCLING BINS

Quantity: Nine (9)

RUBBERMAID COMMERCIAL PRODUCTS
MODEL: 3958

ITEM 33 GUIDE RAILS

Quantity: Two (2)

SELECT STAINLESS
MODEL: 2DGR-3

- Coordinate installation with General Contractor

ITEM 34 HEATED CABINET

Quantity: One (1)

FWE	CRES-COR	WITTCO
MODEL: UHS12D	MODEL: H-137-SUA-12D	MODEL: 1826-13

- Perimeter bumper

ITEM 35 WORK TABLE

Custom fabricated, 8’-0” x 2’-6” x 2’-10”
Quantity: Four (4)

Same general materials and details to match Item #7, except:

- Rim turned down on all four (4) sides.
- Delete sink, and drawers
- Stainless steel undershelf.
- Two (2) Edlund #S-11 NSF on one (1) unit.

ITEM NO. 36 WALLSHELF

Custom fabricated
Quantity: Two (2) 3’-6” x 1’-0” over Item #7
One (1) 10’-0” x 1’-0” over Item #23

Fabricate per detail 11.

END OF 11 14 00 SPECIFICATIONS

SECTION 12 24 13

ROLLER WINDOW SHADES - MANUAL

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes manually operated window shades as indicated on drawings and as specified.

1. Provide a shade at each window within the facility except at windows at corridors, stairs, gym and administrative offices unless noted otherwise.

1.2 SUBMITTALS

A. Product Data: Submit manufacturer's complete technical data.

1. Submit color charts for color selection by the Architect.

B. Sample: Submit samples of shade pattern showing full range of color and pattern variations.

C. Maintenance Instructions: Submit 2 copies of manufacturer's recommended maintenance practices for shades.

1.3 QUALITY ASSURANCE

A. Uniformity of Manufacture: Provide shades as produced by a single manufacturer.

B. Fire Test Performance: Provide shades which comply with NFPA No. 701 and California small-scale flame resistance test, as determined by an independent testing laboratory acceptable to authorities having jurisdiction.

C. Installer's Qualifications: Engage installer who is certified in writing by shade manufacturer as qualified for installation of shades.

D. Field Measurements: Take field measurements, as necessary, prior to preparation of final shop drawings and fabrication. Coordinate window shade system with other work.

E. Pre-Installation Conference: Prior to installation of shades, conduct a general orientation meeting attended by the installer, manufacturer, Architect, Board's representative and Contractor. Review the installation procedures related to installation of shades and establish provisions related to security and damage control.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURER

A. Shade Roller and Hardware Manufacturer: Subject to compliance with requirements, provide one of the following shade manufacturers or equal:

1. Chicago Shade Makers, Inc.
2. Draper.
3. Hunter Douglas.
4. MechoShade Systems.
5. Vimco.

2.2 SHADE CLOTH - TYPICAL

A. Provide color and pattern as selected by Architect from manufacturer's standards.

B. Shades contents shall be vinyl-coated fiberglass with double vinyl coating on each sides, and is fire resistant, permanently water-repellent, fade resistant, wear and tear resistant, and soil proof, and 100% light proof.

1. Weight: 12 oz per sq. yd.
2. Breaking strength: 4750 pbs. warp; 4600 lbs filling.
3. Tear strength: 1077 grams warp; 911 grams filling.
4. Elongation: 20% warp; 10% filling.

C. Opacity: Opaque, shadow proof

D. Shade cloth shall show no streaks and evidence of bleeding, of holes or cracking.

E. Fire retardant coatings, if any, shall be maintained so as to retain the effectiveness of the treatment under service conditions encountered in actual use.

2.3 SHADE CLOTH – OFFICES AND DINING ROOM

A. Provide color and pattern as selected by Architect from manufacturer's standards.

B. Shades contents shall be woven PVC-coated polyester with coating on both sides, fire resistant, permanently water-repellent, fade resistant, wear and tear resistant, and soil proof, fabricated to provide solar-control while allowing views from the interior to the exterior

1. Weight: 12 oz per sq. yd.
2. Breaking strength: 4750 pbs. warp; 4600 lbs filling.
3. Tear strength: 1077 grams warp; 911 grams filling.
4. Elongation: 20% warp; 10% filling.

C. Openness: 10%

D. Fire retardant coatings, if any, shall be maintained so as to retain the effectiveness of the treatment under service conditions encountered in actual use.

2.4 ROLLER AND HARDWARE

A. Operation: Manual Operation:

B. Rollers: Extruded aluminum tube, 6063 alloy, with internal keyway to engage drive system. Tube shall be extruded designed to prevent deflection for all spans. Shade tube shall be self-aligning and self-leveling. Tubes shall be diameter required for shade lengths but not less than 1-1/2”.

C. Bottom Bar: The bottom hem of each shade shall enclose an aluminum bar or tube or solid hardwood designed to prevent lateral deflection painted to match the color of the shade fabric. Fabric shall be sewn or heat-sealed, closed to prevent removal of bottom bar.

D. Mounting Brackets: Provide manufacturer's standard mounting brackets, but not less than 1/8" thick sheet steel. Brackets shall be reversible for left hand or right hand operation for mountings as necessary. Brackets shall be installed so that mechanism is concealed from view when fully assembled within the shade pocket. Brackets shall act as protective retainer for tube and shade assembly preventing accidental dislocation of tube and shade by vibration.

E. Chain: The chain shall be No. 10 stainless steel chain with a 90 lb. test strength and must have a metal mechanical connection to form the loop.

F. Provide a hold down clip to keep the chain in line. Clip shall be finished to match windowsill finish.

G. Shade Enclosure (Valance Box): Provide manufacturer's standard extruded aluminum shade enclosure box.

H. **Blackout Side Channels: Manufacturer's standard side channel with light seal and retention system designed to guide and hold shade within channel through full range of shade.**

2.5 FABRICATION

A. Prior to fabrication, verify actual opening dimensions by accurate site measurements. Adjust dimensions for proper fit at openings. Cooperate with other trades for securing housings to substrates and other finished surfaces.

B. Provide shades as complete operating assemblies, complete with all housings, operators, chains, fillers, tubes, brackets, end caps, hardware, shade cloth, and other accessories required for operation.

C. Fabricate window treatment components from non-corrosive, non-staining, non-fading materials which are compatible with each other, and which do not require lubrication during normal expected life.

D. Fabricate each shade to completely fill the opening, from head-to-sill and jamb-to-jamb.

E. Each shade shall hang flat without buckling or distorting. The edge, when trimmed, shall hang straight without curling or reveling. An unguided roller shade cloth shall roll true and straight without shifting sideways more than + 1/8". Provide hem weights for woven shades and an exposed hem tube for blackout shades.

F. Exposed metal shall be prefinished with baked on enamel.

G. Color: Selected by the Architect.

H. Shades shall be sized to descend from shade pocket to lowest horizontal windowsill member.

PART 3 - EXECUTION

3.1 INSPECTION

A. Examine the areas and conditions under which window treatment is be applied. Do not proceed with the work until unsatisfactory conditions have been corrected.

B. Starting of work will be construed as acceptance of the surfaces and conditions within any particular area.

3.2 INSTALLATION

A. Install shades in manner indicated to comply with manufacturer's instructions. Position units level, plumb, secure, at proper height and location relative to adjoining windows or skylights and other related work. Securely anchor units with proper clips, brackets, and anchorages, suited to type of substrate indicated.

B. Adjust for smooth operation. Adjust shade and shade cloth to hang flat without buckling or distortion. Replace any units or components which do not hang properly or operate smoothly.

3.3 CLEANING AND PROTECTION

A. Touch up damage finishes and repair minor damage in order to eliminate evidence or repair. Remove and replace work that cannot be satisfactorily repaired.

B. Cleaning: Clean exposed surfaces, including metal and shade cloth, using non-abrasive materials and methods recommended by the shade cloth manufacturer. Remove and replace work which cannot be cleaned satisfactorily.

C. Protect installed units to ensure their being in operating condition, without damage, blemishes, or indication of use at completion of project. Repair or replace damaged units as directed by Architect.

END OF SECTION

SECTION 12 93 00

SITE FURNISHINGS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes site furnishings as indicated.

1.2 SUBMITTALS

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

B. Samples: For each exposed finish, not less than 12-inch long tubular sections.

C. Maintenance Data: To include in maintenance manuals. Include manufacturer's recommended methods for repairing damage to the finish. Include cleaning procedures or products that may be detrimental to surface finish.

D. Engineered Shop Drawings: For Precast concrete benches. Provide key plans, enlarged plans, elevations and details, including attachments to and interfaces with adjoining work.

1. Delegated Design: Provide engineering of precast benches for support of dead and live loads.

a. Engineered shop drawings to be signed and sealed by a structural engineer licensed in the state of Illinois.

1.3 EXTRA MATERIALS

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

B. Bicycle racks, trash receptacles and bollards: Furnish not less than two of each item.

C. Attachment anchors for all site furnishings. Provide 5% of quantity of each type of anchor to be used, but not less than 5 anchors.

PART 2 - PRODUCTS

2.1 BICYCLE RACKS

A. Products: Subject to compliance with requirements, provide one of the following:

1. Landscape Forms; Loop Bicycle Rack (Model RG999-06002). Landscape Forms (800) 430-6206, contact Jennifer Woods, jenniferw@landscapeforms.com.
2. Dero Bike Rack: Round Rack. Dero Bike Racks Co., (888) 337-6729).

B. Bicycle Rack Construction:

1. Powder coated steel tubing, not less than 1 1/2” OD. Color to match window trim.
2. Installation method: surface mounted.

2.2 TRASH RECEPTACLE

A. Products: Subject to compliance with requirements, provide the following or approved equal:

1. Forms and Surfaces; Apex Litter and Recycling Receptacle, surface mounted. Aluminum frame with wood panels.

2.3 BOLLARDS

A. Fixed Bollards: 8” diameter, primed and painted, Sch 80, steel posts, 3’ high above grade, filled with concrete, with a welded steel cap, embedded 42”. Color to match window trim.

B. Collapsible Bollards: Provide Basis-of-Design Products or approved equal.

1. Heavy Duty: Collapsible Heavy Duty steel bollards with keyed operation for Fire Department and Owner use. Lockable in both folded and upright positions.

   a. Material: Galvanized steel posts with Stainless steel base
   b. Size: 4” nominal outside diameter.
   c. Height: 36” nominal.
   d. Mounting: Base anchored into 12” diameter concrete piers below pavement. 42-inch minimum pier depth. Bollard post to be connected to base with stainless steel hinge pin.
   e. Color: Safety yellow
   f. Anchors: Stainless Steel.
   g. Basis-of-Design product: Global Industries Vestal

2. Collapsible, spring type heavy-duty plastic bollards for bike lane delineation

   a. Mounting: Flange-mount to embedded base.
   b. Color: Safety yellow
   c. Basis-of-Design product: Impact **R**ecovery Systems, Tuff Post High Performance Channelized

2.4 PRECAST CONCRETE BENCHES

A. Provide custom precast concrete benches as indicated.

1. Delegated design: Precaster shall be responsible to design and engineer precast concrete benches including including reinforcing.

a. Design Loads: Not less than 200 lbs per square foot

2. Reinforcing: Epoxy-coated, deformed steel bars

B. Fabricate in configurations indicated on the contract documents.

C. Manufacturers:

1. Basis-of-Design: Doty and Sons Concrete Products
2. Forms + Surfaces
3. Wausau Tile (Tectura Design)

D. Color: Natural Gray Concrete

E. Finish: SB6 Sandblast Natural Gray

2.5 FABRICATION

A. Metal Components: Form to required shapes and sizes with true, consistent curves, lines, and angles. Separate metals from dissimilar materials to prevent electrolytic action.

B. Welded Connections: Weld connections continuously. Weld solid members with full-length, full-penetration welds and hollow members with full-circumference welds. At exposed connections, finish surfaces smooth and blended so no roughness or unevenness shows after finishing and welded surface matches contours of adjoining surfaces.

C. Pipes and Tubes: Form simple and compound curves by bending members in jigs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of handrail and railing components.

D. Factory Assemble: Preassemble in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinate installation.

2.6 GENERAL FINISH REQUIREMENTS

A. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance of the Work.

B. Do not proceed with work until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Comply with manufacturer's written installation instructions unless more stringent requirements are indicated.

B. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.

C. Install site furnishings level, plumb, true, and securely anchored at locations indicated in the Drawings.

D. Fit exposed connections accurately together to form tight, hairline joints.

E. Perform cutting, drilling, and fitting required for installation of site furnishings.

F. Set work accurately in location, alignment and elevation plumb, level, true, non-rocking and free of rack, measured from established lines and levels. Do not weld, cut, or abrade surfaces of components which have been coated or finished after fabrication, and are intended for field connection by mechanical means without further cutting or fitting.

3.3 ADJUSTMENT AND CLEANING

A. Protect finishes of all items from damage during construction by use of temporary protective coverings approved by manufacturers. Remove protective covering immediately before Preliminary Acceptance / Substantial Completion.

1. Restore finishes damaged during installation and construction period so that no evidence remains of correction work. Return items which cannot be refinished in the field to the shop; make required alterations and refinish entire unit or provide new units as required.

END OF SECTION

SECTION 32 14 43

UNIT PAVING

PART 1 – MATERIALS

1.1 SUMMARY

A. This section includes all ungrouted and mortarless exterior permeable unit paving and non-permeable unit paving system.

1.2 RELATED DOCUMENTS

A. LEED Requirements and Construction Waste Management

B. Following sections:

1. Section 31 23 14 Earthwork
2. Section 31 23 17 “Excavating, Backfilling, and Compacting for Utilities.”
3. Section 31 23 18.13 “Contaminated Soil, General Construction & Demolition Debris Disposal”
4. Section 31 23 18.11 “Clean Construction or Demolition Debris and Uncontaminated Soil Disposal”
5. Section 31 23 23 "Acceptance of Backfill, Topsoil & CU Structural Soil"
6. Section 32 13 13 Portland Cement Concrete Paving

1.3 REFERENCES

A. The American Society of Testing and Materials (ASTM):

1. ASTM D698 - Tests for Moisture-Density Relationship of Soils and Soil-Aggregate Mixtures, Using 5 Lb. Rammer and 12 in. Drop.

B. Illinois Department of Transportation:

1. Standard Specifications for Road and Bridge Construction, January 2012, including all addenda.

1.4 SUBMITTALS

A. General: Submit the following in accordance with Conditions of Contract.

B. Product data for the following products:

1. Concrete unit pavers
2. Porous Joint and Bedding materials for permeable paver systems
3. Joint filler for non-permeable paver systems.

C. Samples for initial selection purposes in form of actual units or sections of units showing full range of colors, textures, and patterns available for each type of unit paver indicated. Include similar samples of material for joints and accessories involving color selection.

D. Qualification data for firms and persons specified in "Quality Assurance" Article 1.05 to demonstrate their capabilities and experience. Include list of completed projects with project names, addresses, names of Architects and Owners, plus other information specified.

E. Shop Drawings: showing detailed paving patterns and proposed cuts within concrete banding modules. Concrete banding shall be designed so that minimum cuts are required for the unit pavers.

F. LEED

1. LEED Credit MR 4.1 and Credit MR 4.2: Submit product data for products having recycled content, documentation indicating percentages by weight of post-consumer and pre-consumer recycled content.
   a. Include statement indicating costs for each product having recycled content.
2. LEED Credit MR 5.1 and Credit MR 5.2: Submit product data for products that have extracted, harvested, or recovered, as well as manufactured within 500 miles of the Project site.
   a. Include a statement indicating the percentage by weight which is extracted, harvested, or recovered within 500 miles of the Project site.
3. LEED Credit SS Credit 7.1: Product Data stating the solar reflectance index (SRI) is 29 or greater.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced Installer who has successfully completed permeable unit paver installations similar in material, design and extent to that indicated for Project.

B. Single-Source Responsibility: Obtain each color, type and variety of unit pavers, from a single source with resources to provide products and materials of consistent quality in appearance and physical properties without delaying progress of the work.

C. Field-Constructed Mock-Up: Prior to installation of unit pavers, erect mock-ups for each form and pattern of unit pavers required to verify selections made under sample submittals. Build mock-ups to comply with the following requirements, using materials and same base construction including special features for expansion joints and contiguous work as indicated for final unit of work.

1. Locate mock-ups on site in location and size indicated or, if not indicated, as directed by Owner's Representative and/or Architect/Engineer.
2. Notify Owner's Representative and Architect/Engineer one week in advance of the dates and times when mock-ups will be erected.
3. Demonstrate quality of workmanship that will be produced in final unit of work.
4. Retain and maintain mock-ups during construction in undisturbed condition as a standard for judging completed unit of work. Accepted mock-ups in undisturbed condition at time of Substantial Completion may become part of completed unit of work.
5. Paving is to show the proposed color, crevice fill material, surface finish and workmanship. Consult Architect for paver color.
6. Panel size shall be a minimum of 10' -0" wide x 10' -0" long in the presence of the Architect/Engineer prior to the installation of these materials on the site.
7. Do not start paving site work until the Architect has given written approval of all components of the sample panel.
8. This sample panel will be used as a standard of comparison for all site concrete constructed of same materials.

D. Visual Inspection

1. All units shall be sound and free of defects that would interfere with proper placing of the unit or impair the strength or permanence of the construction. Minor cracks incidental to the usual methods of manufacture, or minor chipping resulting from customary methods of handling in shipment and delivery, shall not be deemed grounds for rejection.

1.6 DELIVERY, STORAGE AND HANDLING

A. Protect unit pavers and aggregate during storage and construction against wetting by rain, snow, or ground water and against soil or contamination from earth and other materials.

1.7 PROJECT CONDITIONS

A. Cold Weather Protection: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen subgrade or setting beds. Remove and replace unit paver work damaged by frost or freezing.

B. Weather Limitations: Protect unit paver work against freezing when atmospheric temperature is 40 deg F (4 deg C) and falling. Heat materials and provide temporary protection of completed portions of unit paver work. Comply with International Masonry All-Weather Council's "Guide Specification for Cold-Weather Masonry Construction."

1.8 LEED REQUIREMENTS:

1. Maximize the use of recycled concrete aggregate for aggregate in the design mixes.
2. Obtain recycled concrete aggregate within 500 miles of the project.
3. Obtain non-recycled concrete aggregate within 500 miles of the project.
4. Obtain ready-mix concrete within 500 miles of the project.

PART 2 - PRODUCTS

2.1 PERMEABLE PAVING UNITS

A. All permeable pavers shall comply with the quality specifications for solid concrete interlocking paving units as set out in ASTM Specifications C 936-01.

B. Manufactured Product

1. Basis of design for permeable pavers incorporates **Unilock Eco-line** paver; other manufactured products meeting the basis of design performance criteria shall be considered upon review and written approval from the Architect/Engineer. Submit equivalent product data information to Architect/Engineer for review.
2. Basis of design for non-permeable pavers incorporate **Unilock Eco-line** Paver; other manufactured products meeting the basis of design performance criteria shall be considered upon review and written approval from the Architect/Engineer. Submit equivalent product data information to Architect/Engineer for review.

C. Permeable Paver Type A:

1. Color: **Dark Charcoal**
2. Finish: **Premier**
3. Chamfer: 3 mm bevel
4. Size: Manufacture the sizes indicated on plans with a maximum tolerance of plus or minus 1/16 in all directions.
   ~~a. 30 cm x 7.5 cm x 10 cm thick~~

D. Permeable Paver Type B:

1. Color: **SS088**
2. Finish: **Premier**
3. Chamfer: 3 mm bevel
4. Size: Manufacture the sizes indicated on plans with a maximum tolerance of plus or minus 1/16 in all directions.
   ~~a. 30 cm x 7.5 cm x 10 cm thick~~

~~E. Non-Permeable Paver Type A:~~

~~1. Color:~~
~~2. Finish:~~
~~3. Chamfer: 3 mm bevel~~
~~4. Size: Manufacture the sizes indicated with a maximum tolerance of plus or minus 1/16 in all directions.~~
   ~~a. 30 cm x 7.5 cm x 10 cm thick~~

~~F. Non-Permeable Paver Type B:~~

~~1. Color:~~
~~2. Finish:~~
~~3. Chamfer: 3 mm bevel~~
~~4. Size: Manufacture the sizes indicated with a maximum tolerance of plus or minus 1/16 in all directions.~~
   ~~a. 30 cm x 7.5 cm x 10 cm thick~~

G. Physical Requirements

1. Compressive Strength
   a. At the time of delivery to the work site, the average compressive strength shall not be less that 8,000 psi, with no individual strength less than 7,200 psi as per ASTM Specifications C 936-01.
   b. Testing procedures shall be in accordance with ASTM Specifications C 140.
2. Absorption
   a. The average absorption shall not be greater that five percent (5%) with no individual unit absorption greater that seven percent (7%) as required by ASTM Specification C 936-01.
3. Resistance to Freezing and Thawing
   a. The manufacturer shall satisfy the purchaser either by proven field performance of laboratory freezing and thawing test that the paving units have adequate resistance to freezing and thawing. If a laboratory test is used, when testing in accordance with ASTM Specification C 67-02, Section 8, specimens shall have no breakage and not greater that 1 % loss in dry weight of any individual unit when subjected to 50 cycles of freezing and thawing.

2.2 AGGREGATE MATERIALS

A. Aggregates shall conform to ASTM Specifications C 33 for normal weight concrete aggregate (no expanded shale or lightweight aggregates) except that grading requirements shall not necessarily apply. Engineering fill shall conform to IDOT SSRBC 2012.

B. Joint and Bedding Layer indicated on construction documents.

C. Drainage Course indicated on construction documents.

D. Base Course indicated on construction documents.

E. Joint in-fill, as recommended by manufacturer for both permeable and non-permeable pavements. Provide standard color pallette for Architect/Engineer review, selection, and approval.

~~2.3 BITUMINOUS SETTING BED MATERIALS~~

~~A. Conform to ASTM D-946-69A.~~

~~B. Mix shall be 7% asphalt cement and 93% sand/coarse aggregate~~

~~C. Joint and Bedding Layer indicated on construction documents.~~

~~D. Primer for Base comply with ASTM D 2028; as recommended by product manufacturer.~~

~~E. Asphalt Cement: ASTM D 3381, Viscosity Grade AC-10 or AC-20.~~

~~F. Neoprene-Modified Asphalt Adhesive: Adhesive consisting of oxidized asphalt combined with 2% neoprene and 10% long-fibered minerals containing no asbestos.~~

2.4 GEOTEXTILE FABRIC

A. Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters; with elongation greater than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:

1. Survivability: Class 2; AASHTO M 288.
2. Grab Tensile Strength: 157 lbf (700 N); ASTM D 4632.
3. Sewn Seam Strength: 142 lbf (630 N); ASTM D 4632.
4. Tear Strength: 56 lbf (250 N); ASTM D 4533.
5. Puncture Strength: 56 lbf (250 N); ASTM D 4833.
6. Apparent Opening Size: No. 70 (0.212-mm) sieve, maximum; ASTM D 4751.
7. Permittivity: 0.5 per second, minimum; ASTM D 4491.
8. UV Stability: 50 percent after 500 hours' exposure; ASTM D 4355.

PART 3 - EXECUTION

3.1 SUBGRADE

A. Under this section the Contractor shall perform the final shaping and compaction of earth to provide for the construction of the permeable pavement structure, to conform to the lines, grades and cross-sections shown on the plans.

B. Site grades can be elevated to the design sub grade elevation using clean native earth fill (free of deleterious material). This fill should be placed in lifts not exceeding 6 inches and compacted to a minimum of 90 percent Standard Proctor Density per ASTM D 698. The final sub grade profile should be (1) uniformly compacted to a minimum of 90 percent Standard Proctor Density and (2) proof-rolled using a heavy rubber tired vehicle (such as a loaded tandem) to delineate soft (wet and “spongy”) areas. These areas should be repaired by removing the unstable soil and replacing with clean dry compacted earth fill.

3.2 PLACEMENT OF BASE COURSE

A. Aggregate base course shall consist of a thickness as indicated in drawings and shall be compacted to a minimum of 95 percent Standard Proctor Density.

B. Concrete base course, as indicated on plans. Refer to Section 32 13 13 Portland Cement Concrete Paving.

3.3 PLACEMENT OF DRAINAGE COURSE (FOR PERMEABLE PAVERS)

A. The drainage course shall consist of a thickness as indicated in drawings and shall be compacted to a minimum of 95 percent Standard Proctor Density.

3.4 AGGREGATE BEDDING LAYER (FOR PERMEABLE PAVERS)

A. Spreading

1. The bedding aggregate shall be spread loosely in a uniform layer to provide a finished layer of 1.5 inches after compaction of the paving units.

B. Screeding

1. The spread aggregate shall be carefully maintained in a loose condition and protected against precompaction by traffic or rain both prior to and following screeding. Under no circumstances shall the bedding aggregates be screeded in advance of the laying face to an extent to which paving will not be completed on that day. Any screeded bedding aggregate which is precompacted prior to laying of paving units shall be brought back to profile in a loose condition. Neither pedestrian nor vehicular traffic shall be permitted on the screeded bedding aggregates.
2. The contractor shall screed the bedding aggregates using either an approved mechanical spreader (e.g. an asphalt paver) or by the use of screed guides and boards.

3.5 INSTALLATION OF PERMEABLE PAVERS

A. General

1. Pavers with excessive chips, cracks, voids, discoloration's or other defects shall not be installed. Permeable pavers should be produced with spacer lugs which maintain consistent joint spacing.

B. Patterning

1. As indicated on plans.

C. Edge Restraints

1. Provide edge restraints as indicated.

D. Initial Compaction of permeable pavers

1. After placement, the pavement surface shall be compacted to achieve consolidation of the bedding aggregates and brought to design levels and profiles by not less than three passes of a suitable plate compactor.
2. Compaction shall be accomplished by the use of a plate compactor capable of a minimum of a 4500-pound compaction force.
3. Initial compaction should proceed as closely as possible following installation of the paving units and prior to acceptance of any traffic or application of additional Joint and bedding aggregate.
4. Compaction should not be attempted within 3 feet of an unrestrained laying edge.

E. Inspection of Paver Surface

1. Any units, which are structurally damaged during compaction, shall be immediately removed and replaced.

F. Infilling of Joints and Surface Voids with Additional Bedding Aggregates

1. The joint and bedding aggregates shall be spread over the pavement after initial compaction has been completed. This aggregate material shall be spread as soon as is practical after initial compaction and prior to the termination of work on that day.
2. The joint and bedding aggregates shall be broomed or shoveled to fill the surface voids. Excess aggregate material shall then be removed from the pavement surface and the pavers shall be compacted again to settle the aggregates. A second application of the aggregates may be required to completely fill the surface voids.

G. Final Compaction of permeable pavers

1. After the joint and bedding aggregates has been installed, the pavement surface shall be swept clean and final compaction shall be accomplished by not less than two passes of the plate compactor.
2. Final compaction shall proceed as closely as possible following installation of the joint and bedding aggregates and prior to the acceptance of any traffic.
3. Inspection by the owner or consultant shall determine whether and additional aggregate application is required.

~~3.6 BITUMINOUS SETTING BED (FOR NON-PERMEABLE PAVERS)~~

~~A. Apply primer per manufacturer's recommendations to concrete base slab prior to placing setting bed.~~

~~B. Install the setting bed directly over a prepared concrete base. Place screed rails to serve as guides for the striking board. The screed rails shall be carefully set to ensure proper setting bed depth and finished paver grade. Place the bituminous material between the parallel screed rails. Position striking board perpendicularly over the screed rails and pull smooth. Repeat several times showering low porous spots with fresh bituminous material to yield a smooth, firm and even setting bed. The bed depth shall be adjusted to ensure the top surface of the placed pavers will be at the required finished grade.~~

~~C. Spread bituminous mix at a minimum temperature of 250 degrees-F. Compact and roll setting bed smooth to a depth of ¾", or otherwise indicated on plan. Complete rolling before mix temperature cools to 185 degrees-F.~~

~~3.7 INSTALLATION OF NON-PERMEABLE PAVERS~~

~~A. General~~

~~1. Pavers with excessive chips, cracks, voids, discoloration's or other defects shall not be installed. Pavers should be produced with spacer lugs which maintain consistent joint spacing.~~

~~B. Patterning~~

~~1. As indicated on plans.~~

~~C. Edge Restraints~~

~~1. Provide edge restraints as indicated.~~

~~D. Placement of Pavers~~

~~1. Apply neoprene-modified asphalt adhesive to cooled setting bed to uniform thickness of 1.6mm. Setting bed shall be clear of debris. Upon adhesive reaching operable tackiness proceed with the placement of paver units.~~

2. ~~Place pavers carefully by hand in straight courses, maintaining accurate alignment and uniform top surface. Protect newly laid pavers with plywood sheets and advance installation.~~
3. ~~If additional leveling of pavers is necessary, roll pavers prior to infilling joints.~~
4. ~~Fill joints with in-fill material. Broom in-fill evenly. A second application of the aggregates may be required to completely fill the surface voids.~~

~~E. Inspection of Paver Surface~~

1. ~~Any units, which are structurally damaged during compaction, shall be immediately removed and replaced.~~
2. ~~Inspection by the owner or consultant shall determine whether and additional aggregate application is required.~~

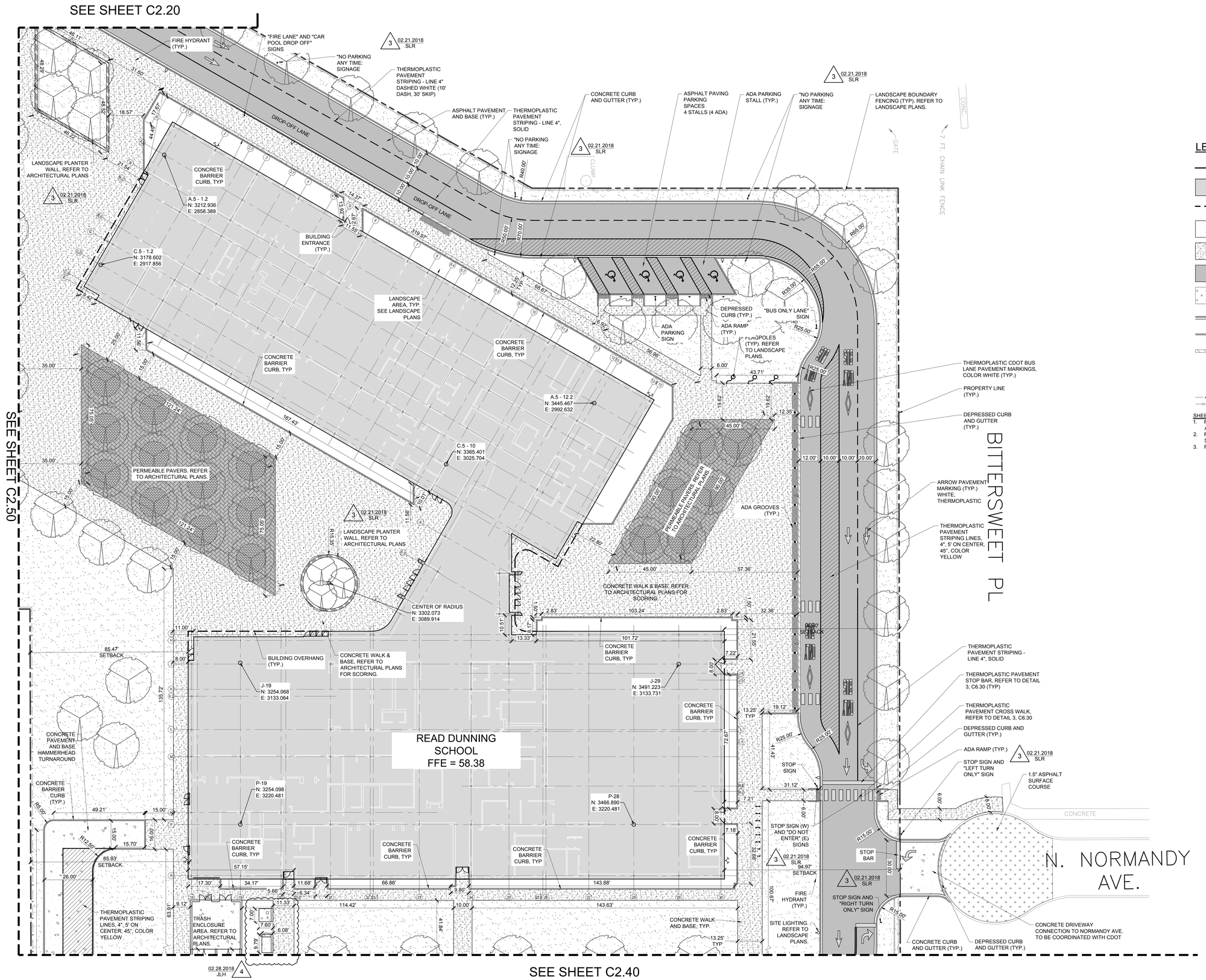
3.8 PROTECTION

A. Provide final protection and maintain conditions in a manner acceptable to Installer, which ensures unit paver work being without damage or deterioration at time of Substantial Completion.

3.9 CLEAN-UP

1. Sweep clean all paved areas of excess aggregate and dirt.
2. Pick up and remove from the site all surplus materials, equipment and debris resulting from this section of the work. Dispose material off site legally in accordance with Section 31 23 18.13 "Contaminated Soil, General Construction & Demolition Debris Disposal" or Section 01 35 63 "Construction Waste Management", as applicable.

END OF SECTION



Scale: 1 inch = 20 ft.

LEGEND:

- PROPERTY LINE
- BUILDING
- BUILDING OVERHANG
- CONCRETE PAVEMENT AND BASE (1 / 08.09)
- CONCRETE WALK AND BASE (2 / 08.09)
- ASPHALT PAVEMENT AND BASE (4 / 08.09)
- MILL AND GRIND / ASPHALT SURFACE COURSE
- CONCRETE CURB AND GUTTER (5 / 08.09)
- CONCRETE BARRIER CURB (3 / 08.09)
- DEPRESSED CURB (7 / 08.09)
- ADA TILE / WARNING GROOVE (5-6 / 08.09)
- SIGN
- SITE FENCING REFER TO LANDSCAPE PLANS

SHEET NOTES:
1. REFER TO ROADWAY PLANS, C5 SERIES FOR FURTHER ACCESS DRIVE INFORMATION.
2. REFER TO ARCHITECTURAL DRAWINGS FOR PAVEMENT SCORING.
3. FLOOR PLAN SHOWN HEREIN IS FOR REFERENCE ONLY.

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Food Service Consultant

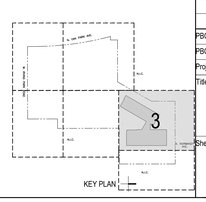
Issuance

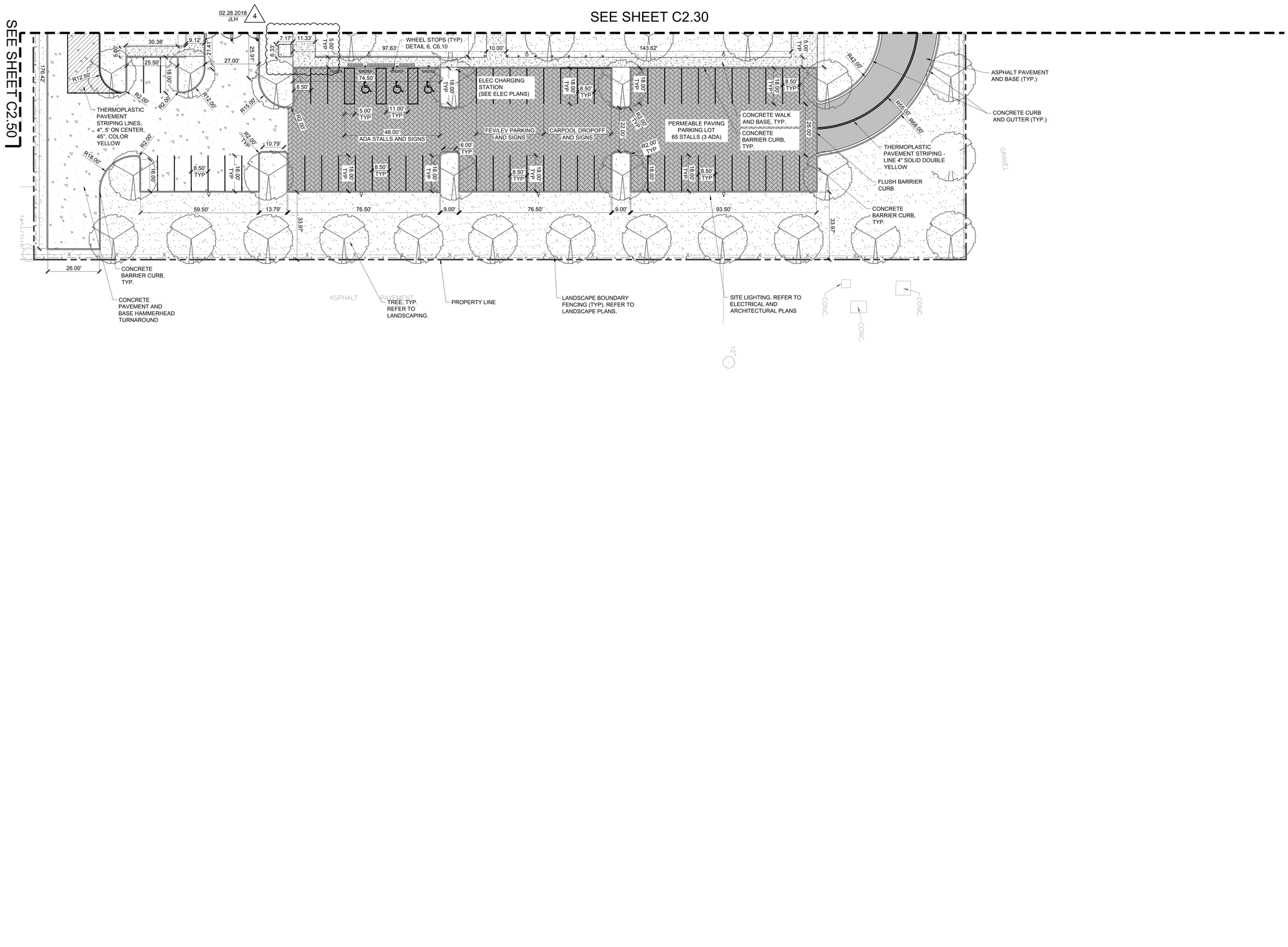
Mark	Description	Date
4	ADDENDUM #3	02/28/2018
3	ADDENDUM #2	02/21/2018
2	ADD #1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No.: 05165
Project No.: N/A

Title
SITE DIMENSION PLAN

Sheet
C2.30





LEGEND:

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- CONCRETE PAVEMENT AND BASE (1 / C6.00)
- CONCRETE WALK AND BASE (2 / C6.00)
- ASPHALT PAVEMENT AND BASE (4 / C6.00)
- PERMEABLE PAVERS (2-5 / C6.10)
- CONCRETE CURB AND GUTTER (5 / C6.00)
- CONCRETE BARRIER CURB (3 / C6.00)
- DEPRESSED CURB (7 / C6.00)
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Scale: 1 inch = 20 ft.

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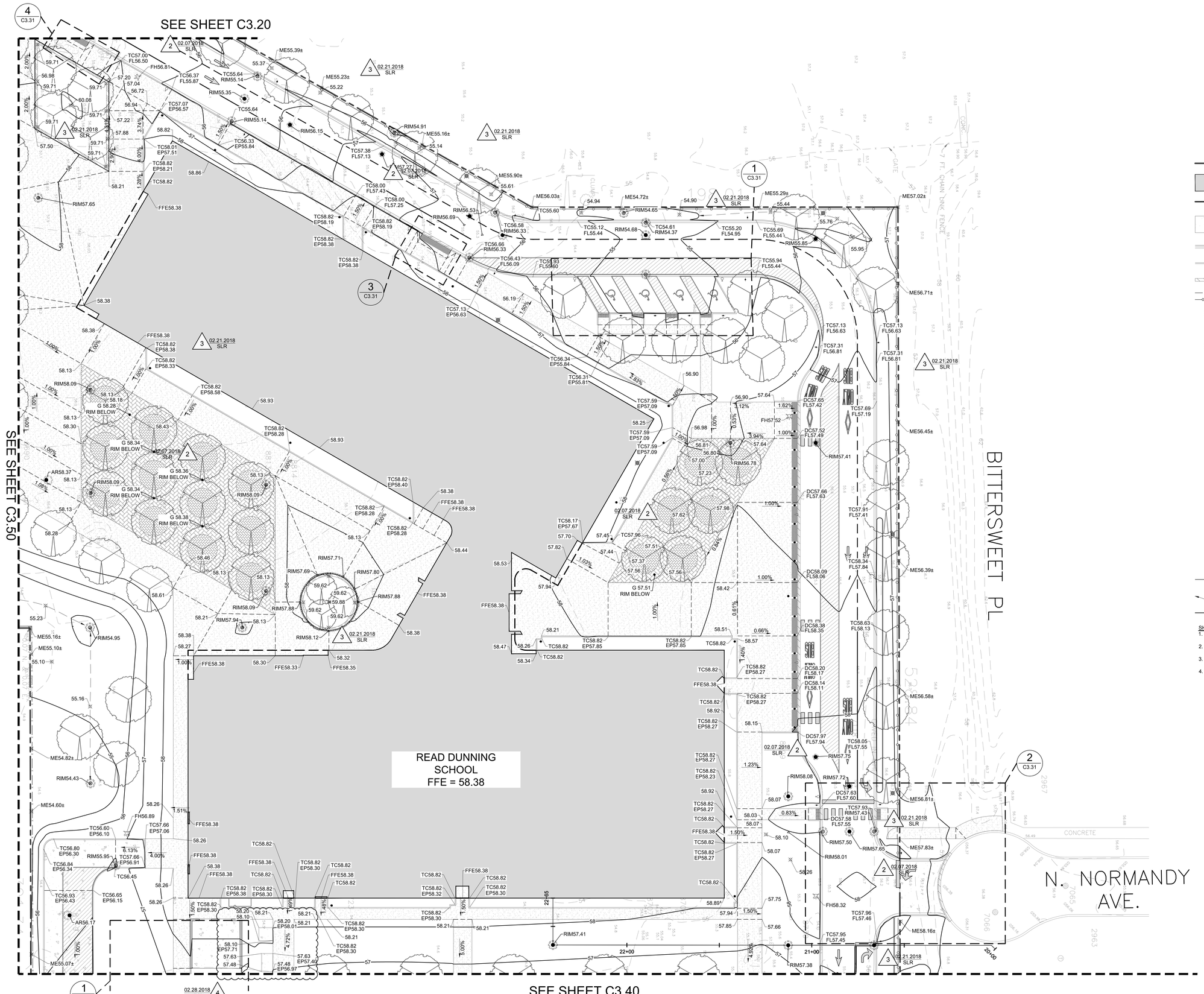
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	05/09/2017

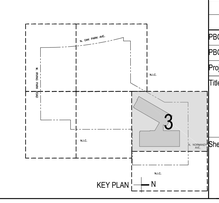
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
SITE DIMENSION PLAN

Sheet
C2.40

KEY PLAN





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- BUILDING
- BUILDING OVERHANG
- CONCRETE PAVEMENT AND BASE
- CONCRETE CURB AND GUTTER
- CONCRETE BARRIER CURB
- DEPRESSED CURB
- SITE FENCING REFER TO LANDSCAPE PLANS
- 4'Ø CATCH BASIN (CB)
- DRY WELL (DW)
- 4'Ø MANHOLE (MH)
- ACCESS RISER (AR) OPEN GRATE
- ACCESS RISER (AR) CLOSED GRATE
- FIRE HYDRANT (FH)
- OF ELEV. — OVERFLOW ELEVATION
- ??? — SPOT ELEVATION
- TC??? EP/FL??? — TOP OF CURB EDGE OF PAVE / FLOW LINE
- RIM/AR??? — RIM ELEVATION / ADJUST RIM ELEVATION
- 1.0% — SLOPE ARROW
- FH — FIRE HYDRANT
- AR — ADJUST RIM
- ME — MATCH EXISTING
- DC — DEPRESSED CURB
- HWL — HIGH WATER LEVEL
- CCD — CHICAGO CITY DATUM
- FFE — FINISHED FLOOR ELEVATION
- PAVEMENT GRADE BREAK LINE
- DRAINAGE SWALE
- 10 — CONTOUR

SHEET NOTES:
1. REFER TO ROADWAY PLANS FOR GRADING ELEVATIONS FOR ASPHALT ACCESS DRIVE.
2. ELEVATIONS SHOWN ARE IN REFERENCE TO CHICAGO CITY DATUM (CCD)
3. ALL EXISTING UTILITY STRUCTURES ARE TO BE ADJUSTED TO PROPOSED GRADE.
4. SEE ENVIRONMENTAL DOCUMENTS FOR SOIL HANDLING INFORMATION

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SITE GRADING PLAN

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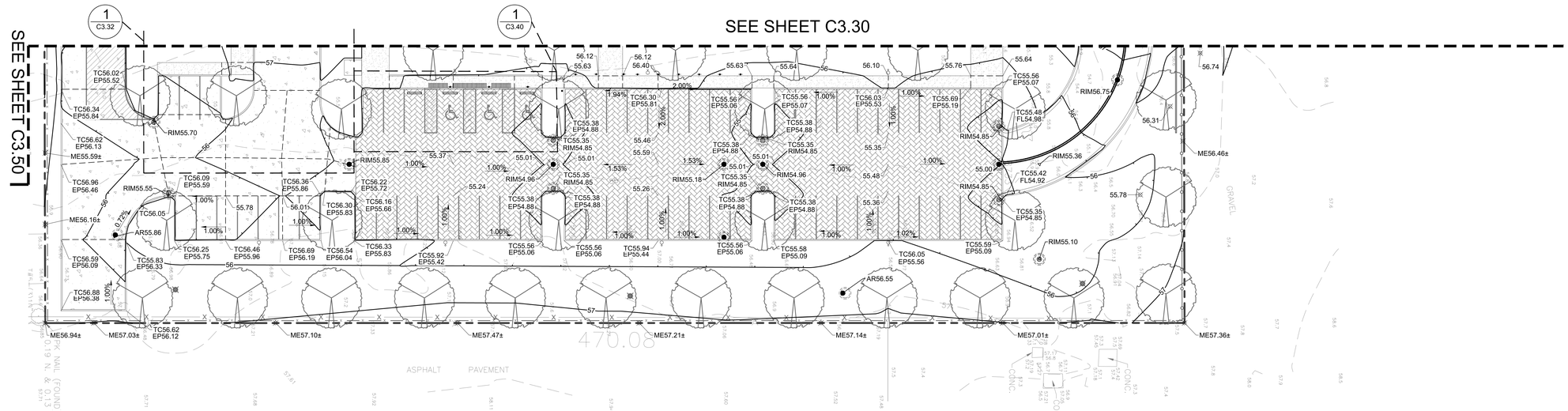
C3.30



02.28.2018
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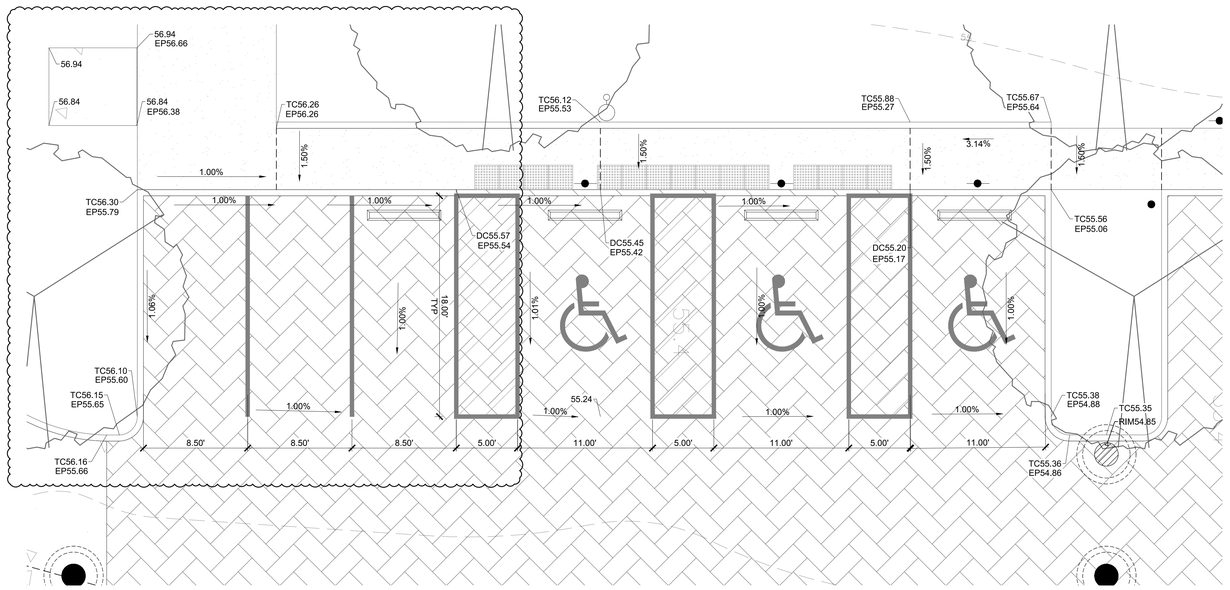

1 ADA STALLS AT PARKING LOT
SCALE: 1" = 5'

Scale: 1 inch = 20 ft.

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- CONCRETE WALK AND BASE
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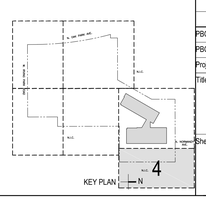

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IMEG
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Acoustics Consultant

SCHULER SHOOK
750 N Orleans St # 400, Chicago, IL 60654
Theatre Consultant

EDGE ASSOCIATES INC.
220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

Issuance

Mark	Description	Date
4	ADDENDUM #3	02/28/2018
3	ADDENDUM #2	02/21/2018
2	ADD #1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
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	90% CD	12/01/2017
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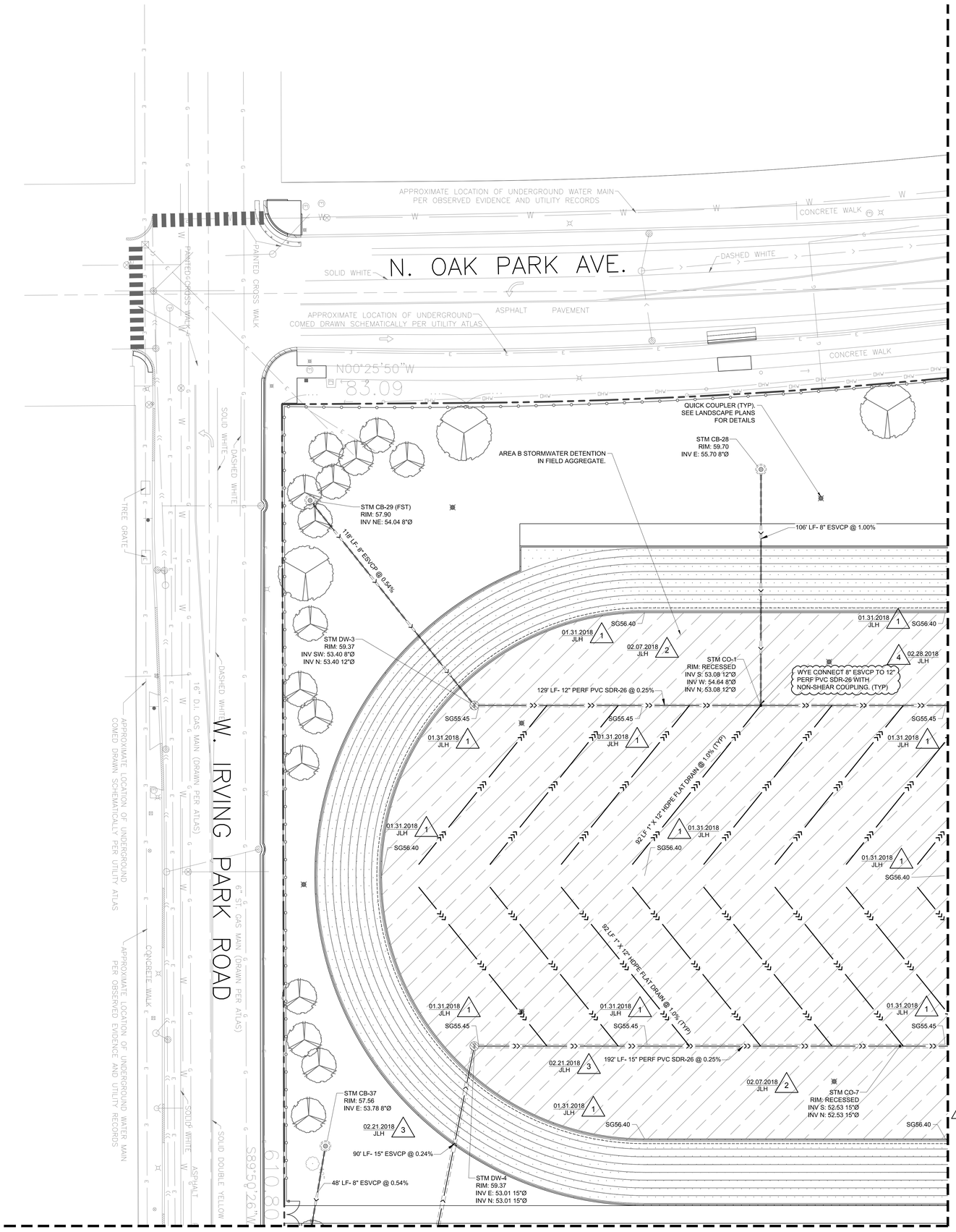
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
SITE GRADING PLAN

Sheet
C3.40



SEE SHEET C4.20

SEE SHEET C4.60

Scale: 1 inch = 20 ft.

LEGEND:

- PROPERTY LINE
- SUBSURFACE BMP
- STORM SEWER
- PERFORATED PIPE
- HDPE FLAT DRAIN
- 4'Ø CATCH BASIN (CB)
- DRY WELL (DW)
- CLEAN OUT (CO)
- SG55.45 — BOTTOM OF SUBGRADE ELEVATION

NOTES:

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5. WYE CONNECTIONS TO HAVE A NON-SHEAR COUPLING BETWEEN DISSIMILAR PIPE MATERIALS.

01.31.2018 JLH 1
02.07.2018 JLH 2
02.28.2018 JLH 4

STORMWATER NOTES:

RELEASE RATE (LAWRENCE OUTFALL):	0.28 CFS/AC
AREA A REQUIRED DETENTION VOLUME:	81,592 CF
HWL ELEVATION:	54.30 CCD
TOTAL DRAINAGE AGGREGATE VOLUME UNDER PAVERS:	21,531 CF
TOTAL SUBSURFACE DETENTION TANK VOLUME:	60,362 CF
AREA A PROVIDED DETENTION VOLUME:	81,893 CF
AREA B REQUIRED DETENTION VOLUME:	38,020 CF
HWL ELEVATION:	57.40 CCD
TOTAL DRAINAGE AGGREGATE VOLUME UNDER FIELD:	60,622 CF

01.31.2018 JLH 1

PUBLIC BUILDING COMMISSION
Chicago Public Schools

READ DUNNING SCHOOL

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PBC Contract No: 05165
Project No.: N/A

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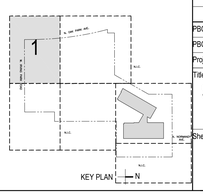
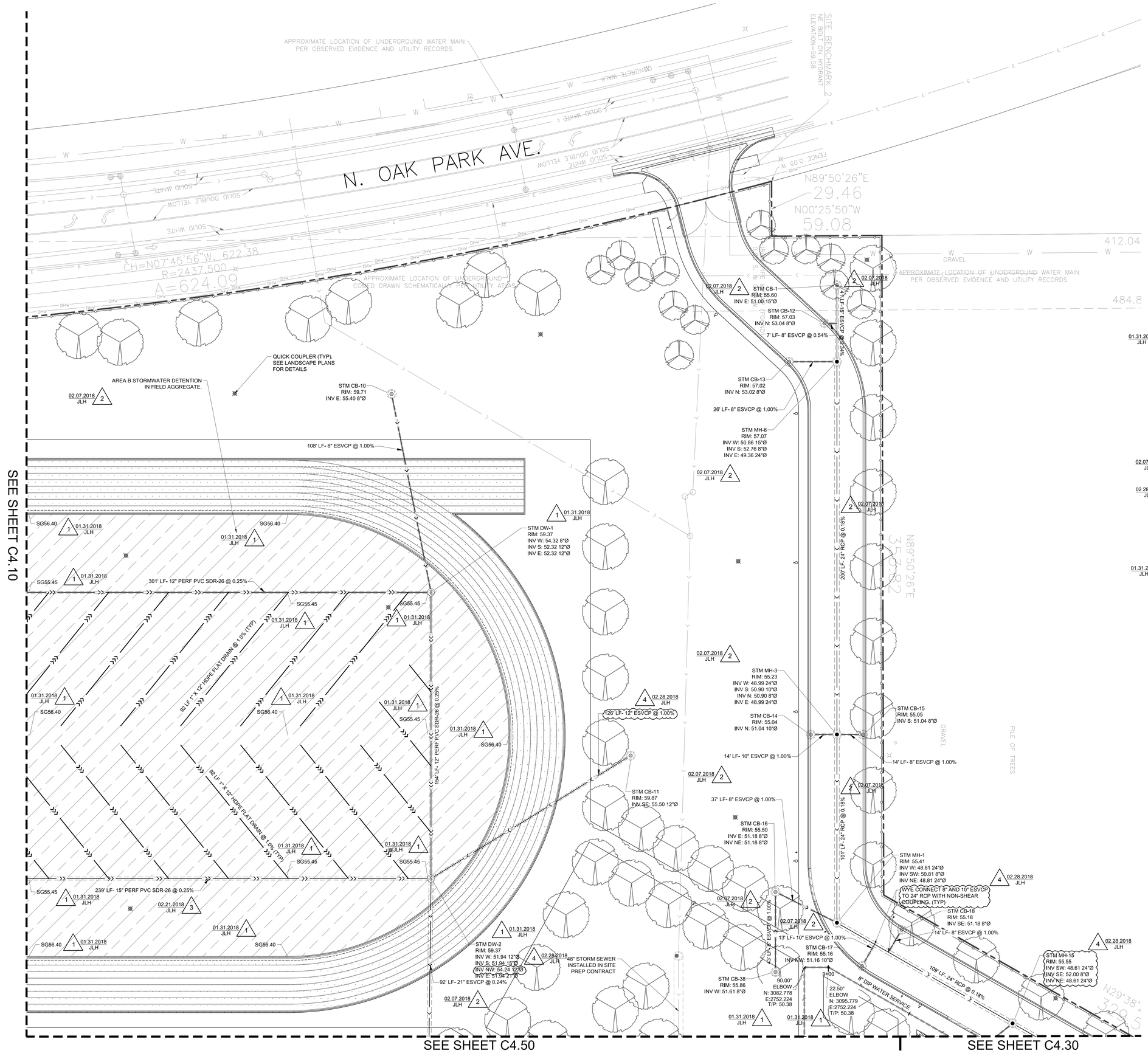
SITE UTILITY PLAN

Sheet
C4.10





Scale: 1 inch = 20 ft.

LEGEND:

- PROPERTY LINE
- SUBSURFACE BMP
- STORM SEWER
- PERFORATED PIPE
- HDPE FLAT DRAIN
- WATER SERVICE
- 4'Ø CATCH BASIN (CB)
- 4'Ø MANHOLE (MH)
- DRY WELL (DW)
- SG55.45 — BOTTOM OF SUBGRADE ELEVATION

NOTES:

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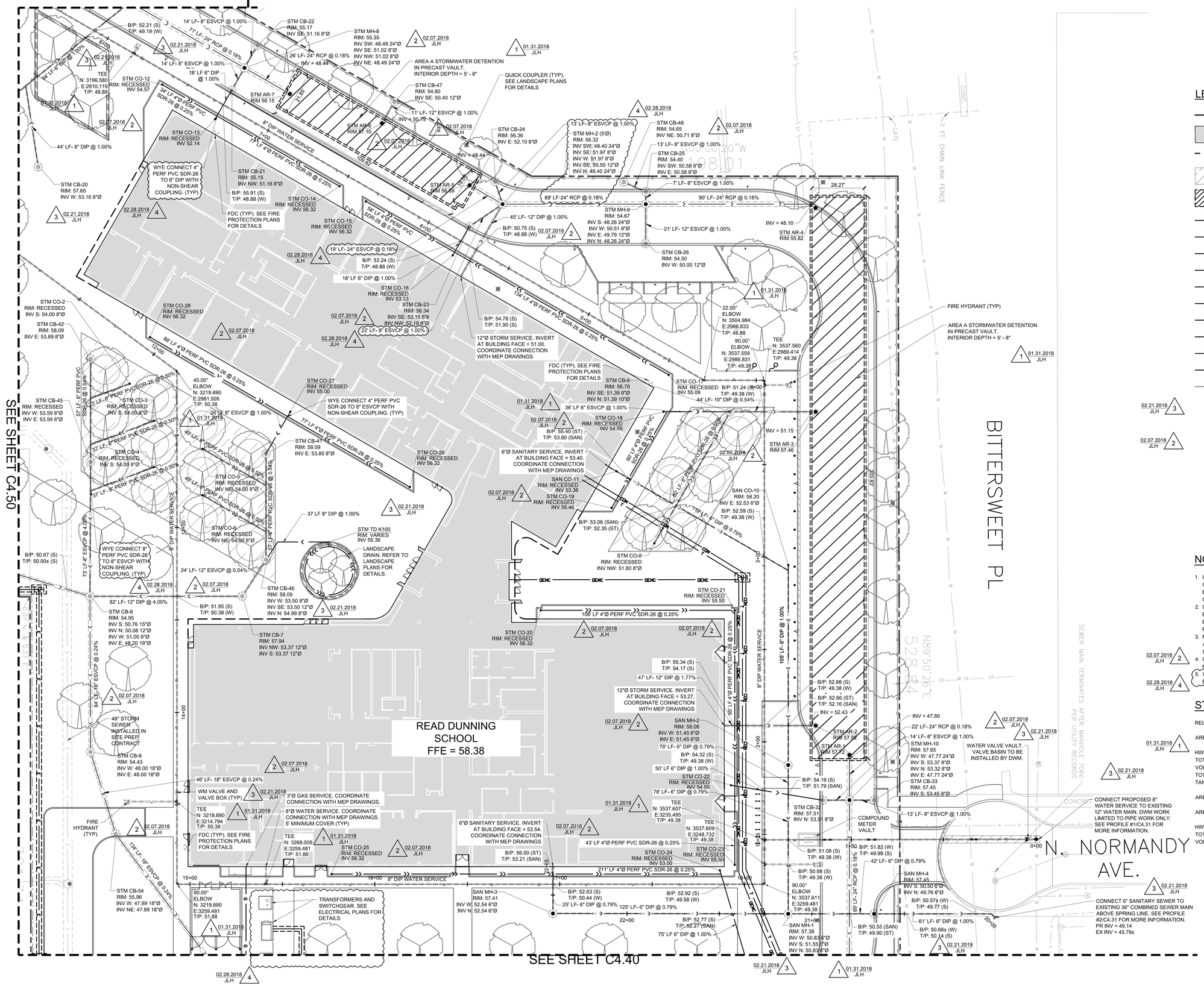
PBC Contract No: 05165
Project No.: N/A

Title
SITE UTILITY PLAN

Sheet
C4.20

KEY PLAN



LEGEND:

- PROPERTY LINE
- BUILDING
- BUILDING OVERHANG
- RESTORE PER CITY REQUIREMENTS. AREA SHOWN SCHEMATIC ONLY.
- PRECAST DETENTION VAULT
- STORM SEWER
- SANITARY SEWER
- COMBINED SEWER
- PERFORATED PIPE
- WATER SERVICE
- ELECTRIC SERVICE
- GAS SERVICE
- TELEPHONE SERVICE
- COMMUNICATION SERVICE
- OEMC SERVICE
- TRENCH DRAIN
- WATER TAPPING VALVE (TV)
- WATER VALVE VAULT (WVV)
- WM VALVE AND VALVE BOX
- 8" WATER METER VAULT
- FIRE HYDRANT (FH)
- 4'Ø CATCH BASIN (CB)
- 4'Ø MANHOLE (MH)
- ACCESS RISER (AR) CLOSED GRATE
- CLEAN OUT (CO)

NOTES:

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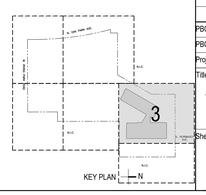
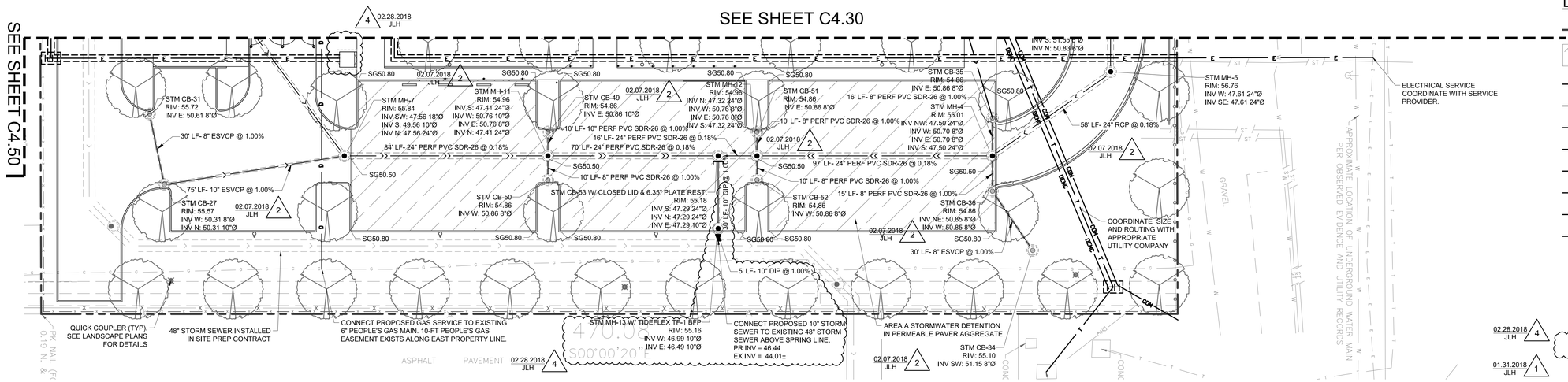
PBC Contract No: 05165
Project No.: N/A

Title
SITE UTILITY PLAN

Sheet
C4.30





Scale: 1 inch = 20 ft.

LEGEND:

- PROPERTY LINE
- SUBSURFACE BMP
- STORM SEWER
- PERFORATED PIPE
- WATER SERVICE
- ELECTRIC SERVICE
- GAS SERVICE
- TELEPHONE SERVICE
- COMMUNICATION SERVICE
- OEMC SERVICE
- 4'Ø CATCH BASIN (CB)
- 4'Ø MANHOLE (MH)
- CLEAN OUT (CO)
- RESTRICTOR (REST)
- BACKFLOW PREVENTER
- SG55.45 BOTTOM OF SUBGRADE ELEVATION

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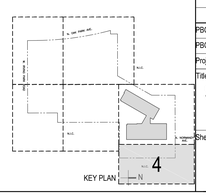

READ DUNNING SCHOOL

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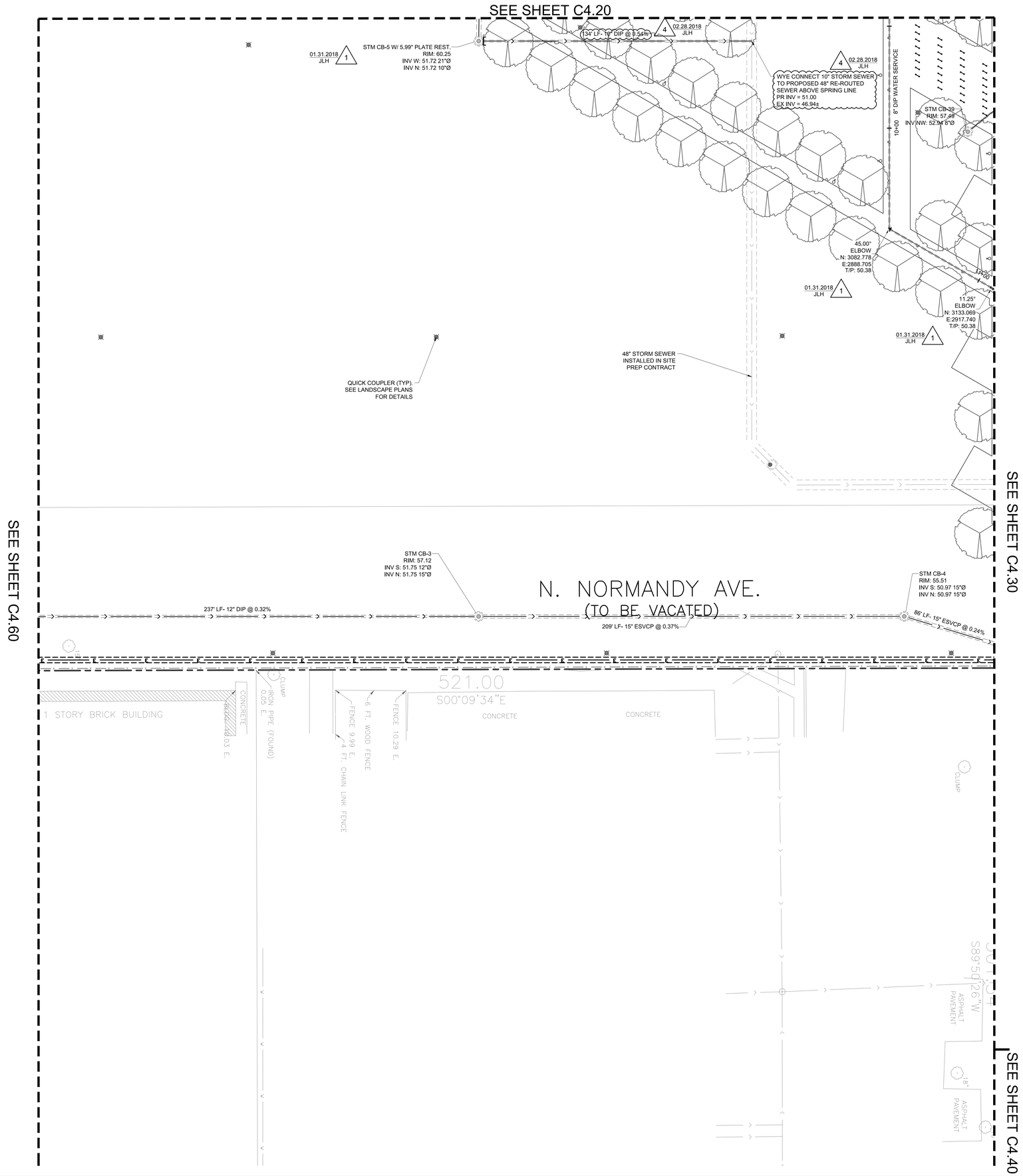
Project No.: N/A

Title
SITE UTILITY PLAN

Sheet
C4.40



Scale: 1 inch = 20 ft.

LEGEND:

- PROPERTY LINE
- STORM SEWER
- WATER SERVICE
- 4'Ø CATCH BASIN (CB)
- 4'Ø MANHOLE (MH)
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02.07.2018 JLH 2

02.28.2018 JLH 4

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01.31.2018 JLH 1

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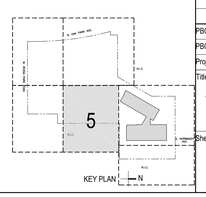

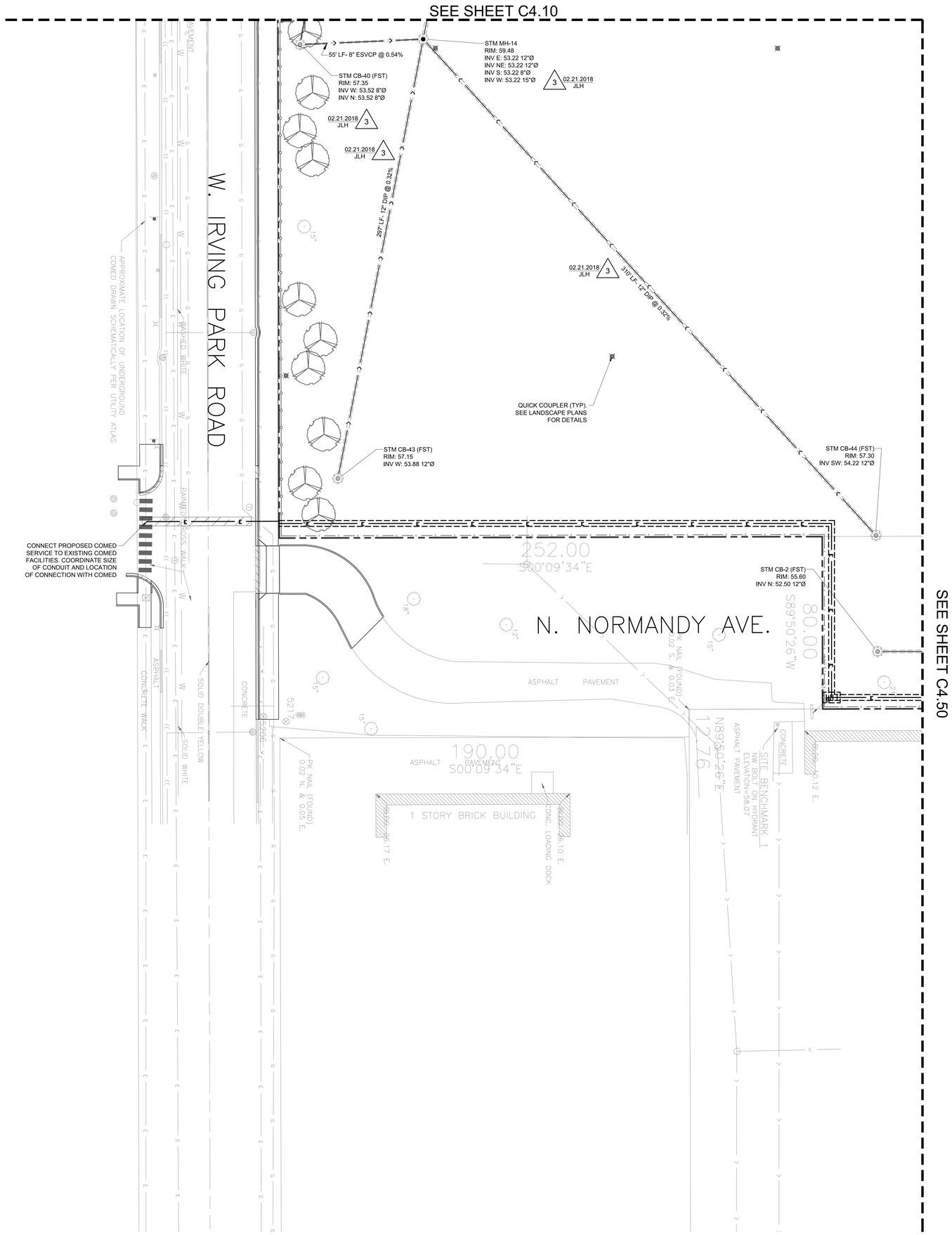

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LEGEND:

- PROPERTY LINE
- RESTORE PER CITY REQUIREMENTS. AREA SHOWN SCHEMATIC ONLY.
- STORM SEWER
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Civil Engineers of Record

IMEG
231 S LaSalle St #600, Chicago, IL 60604
MEPFP Engineers of Record

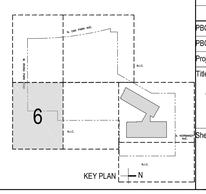
ARUP NORTH AMERICA LTD.
35 E Upper Wacker Dr #1800,
Chicago, IL 60601
Acoustics Consultant

SCHULER SHOOK
750 N Orleans St # 400, Chicago, IL 60654
Theatre Consultant

EDGE ASSOCIATES INC.
220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

Issuance

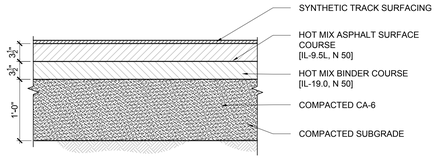
Mark	Description	Date
3	ADDENDUM #3	02/28/2018
2	ADDENDUM #2	02/21/2018
1	ADD #1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017



PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
SITE UTILITY PLAN

Sheet
C4.60

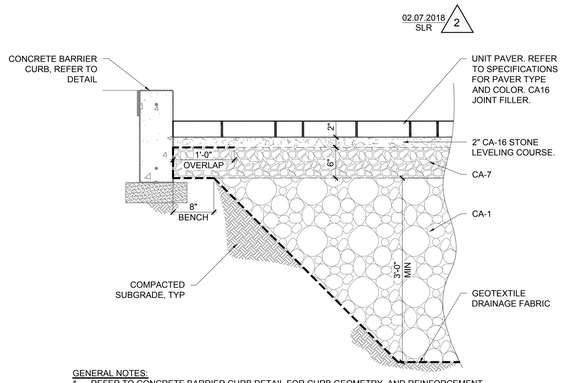


GENERAL NOTES:

1. HMA MATERIALS SHALL COMPLY IDOT SSRBC.
2. COMPACT AGGREGATE BASE TO 95% MODIFIED PROCTOR.
3. REFER TO ENVIRONMENTAL DRAWINGS AND SPECIFICATIONS FOR SOIL REQUIREMENTS.

1 SYNTHETIC RUNNING TRACK AND ASPHALT PAVEMENT AND BASE

SCALE: NTS

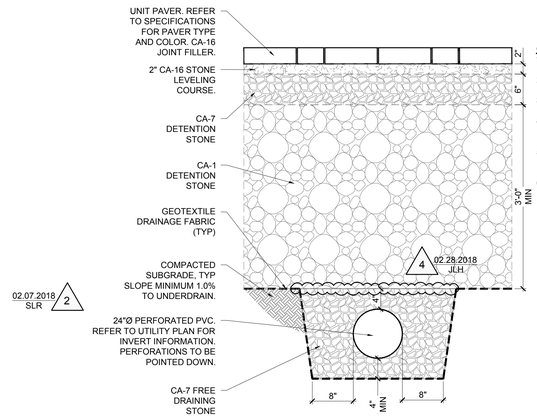


GENERAL NOTES:

1. REFER TO CONCRETE BARRIER CURB DETAIL FOR CURB GEOMETRY AND REINFORCEMENT INFORMATION.
2. REFER TO GRADING PLAN FOR FINISHED GRADE ELEVATIONS.
3. REFER TO PLANS AND DETAILS FOR ADJACENT SURFACE INFORMATION.
4. EXTEND GEOTEXTILE FABRIC 12 INCHES BENEATH LEVELING COURSE.
5. SLOPE SUBGRADE OF DRAINAGE 1.0% MINIMUM TO PERFORATED PIPE/SWMF FACILITY.
6. REFER TO PERMEABLE PAVER UNDERDRAIN DETAIL FOR STORMWATER DETENTION STONE REQUIREMENTS.
7. REFER TO ENVIRONMENTAL DRAWINGS AND SPECIFICATIONS FOR SOIL REQUIREMENTS.

2 PERMEABLE PAVER EDGE CONDITION - PARKING LOT

SCALE: NTS

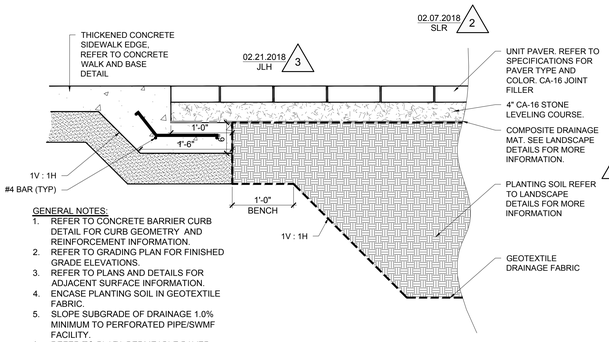


GENERAL NOTES:

1. REFER TO GRADING PLAN FOR FINISHED GRADE ELEVATIONS.
2. REFER TO PLANS AND DETAILS FOR ADJACENT SURFACE INFORMATION.
3. EXTEND GEOTEXTILE FABRIC 12 INCHES BENEATH LEVELING COARSE.
4. SLOPE SUBGRADE OF DRAINAGE 1.0% MINIMUM TO PERFORATED PIPE/SWMF FACILITY.
5. REFER TO UTILITY PLAN FOR PIPE INFORMATION (LOCATIONS, INVERTS, SLOPES, ETC.)
6. REFER TO ENVIRONMENTAL DRAWINGS AND SPECIFICATIONS FOR SOIL REQUIREMENTS.

3 PERMEABLE PAVER UNDERDRAIN - PARKING LOT

SCALE: NTS

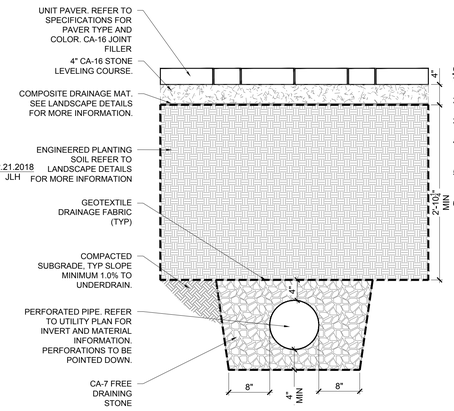


GENERAL NOTES:

1. REFER TO CONCRETE BARRIER CURB DETAIL FOR CURB GEOMETRY AND REINFORCEMENT INFORMATION.
2. REFER TO GRADING PLAN FOR FINISHED GRADE ELEVATIONS.
3. REFER TO PLANS AND DETAILS FOR ADJACENT SURFACE INFORMATION.
4. ENCASE PLANTING SOIL IN GEOTEXTILE FABRIC.
5. SLOPE SUBGRADE OF DRAINAGE 1.0% MINIMUM TO PERFORATED PIPE/SWMF FACILITY.
6. REFER TO PLAZA PERMEABLE PAVER UNDERDRAIN DETAIL FOR STORMWATER VOLUME CONTROL REQUIREMENTS.

4 THICKENED SIDEWALK AT PLAZA PAVER

SCALE: NTS

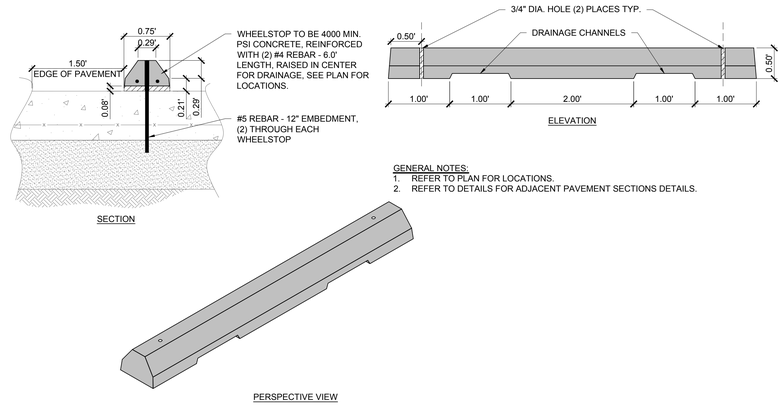


GENERAL NOTES:

1. REFER TO GRADING PLAN FOR FINISHED GRADE ELEVATIONS.
2. REFER TO PLANS AND DETAILS FOR ADJACENT SURFACE INFORMATION.
3. ENCASE PLANTING SOIL IN GEOTEXTILE FABRIC.
4. SLOPE SUBGRADE OF DRAINAGE 1.0% MINIMUM TO PERFORATED PIPE/SWMF FACILITY.
5. REFER TO UTILITY PLAN FOR PIPE INFORMATION (LOCATIONS, INVERTS, SLOPES, DIAMETER, MATERIAL, ETC.)
6. REFER TO LANDSCAPE PLANS AND SPECIFICATIONS FOR ENGINEERED PLANTING SOIL.

5 PLAZA PAVER UNDERDRAIN

SCALE: NTS

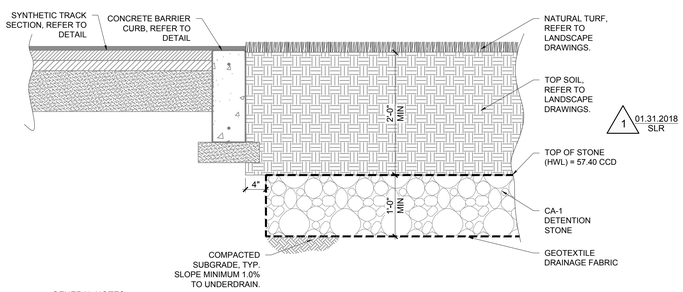


GENERAL NOTES:

1. REFER TO PLAN FOR LOCATIONS.
2. REFER TO DETAILS FOR ADJACENT PAVEMENT SECTIONS DETAILS.

6 WHEEL STOPS

SCALE: NTS

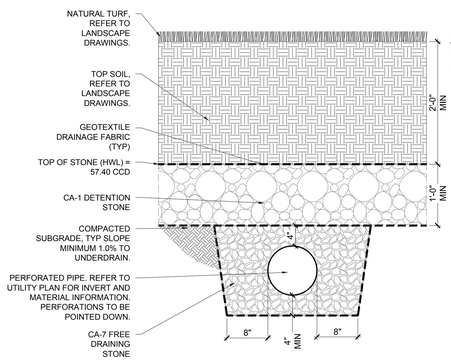


GENERAL NOTES:

1. REFER TO CONCRETE BARRIER CURB DETAIL FOR CURB GEOMETRY AND REINFORCEMENT INFORMATION.
2. REFER TO GRADING PLAN FOR FINISHED GRADE ELEVATIONS.
3. REFER TO PLANS AND DETAILS FOR ADJACENT SURFACE INFORMATION.
4. ENCASE CA-1 ENTIRELY WITH GEOTEXTILE FABRIC.
5. SLOPE SUBGRADE OF DRAINAGE 1.0% MINIMUM TO PERFORATED PIPE/SWMF FACILITY.
6. REFER TO NATURAL FIELD TURF UNDERDRAIN DETAIL FOR STORMWATER DETENTION STONE REQUIREMENTS.

7 NAUTRAL TURF EDGE CONDITION

SCALE: NTS

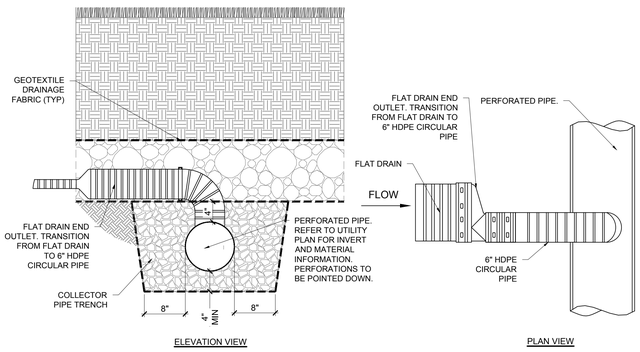


GENERAL NOTES:

1. REFER TO GRADING PLAN FOR FINISHED GRADE ELEVATIONS.
2. EXTEND GEOTEXTILE FABRIC 12 INCHES BENEATH LEVELING COARSE.
3. SLOPE SUBGRADE OF DRAINAGE 1.0% MINIMUM TO PERFORATED PIPE/SWMF FACILITY.
4. REFER TO UTILITY PLAN FOR PIPE INFORMATION (LOCATIONS, INVERTS, SLOPES, DIAMETER, MATERIAL, ETC.)

8 NATURAL TURF UNDERDRAIN

SCALE: NTS



9 NATURAL TURF HDPE FLAT DRAIN

SCALE: NTS

PUBLIC BUILDING COMMISSION
Chicago Public Schools

READ DUNNING SCHOOL

4071 N. OAK PARK AVENUE
CHICAGO, IL 60634
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
STL ARCHITECTS

STLARCHITECTS

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220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

Issuance

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	DESIGN DEVELOPMENT	06/09/2017

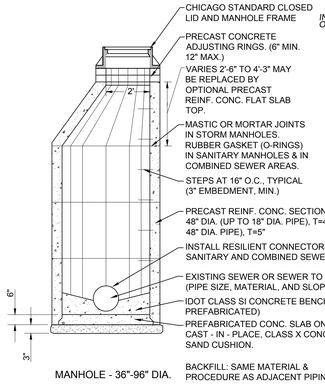
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title

SITE CIVIL DETAILS

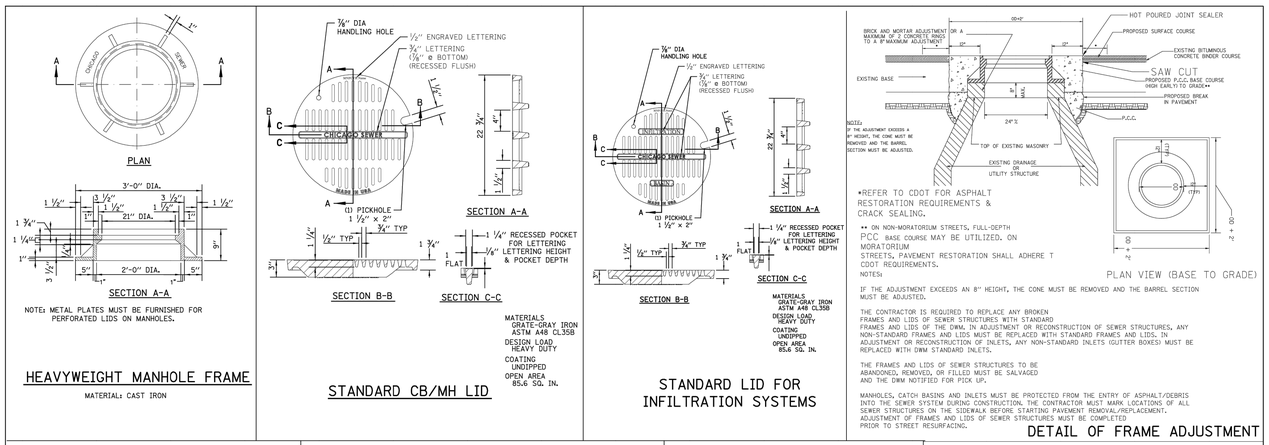
Sheet

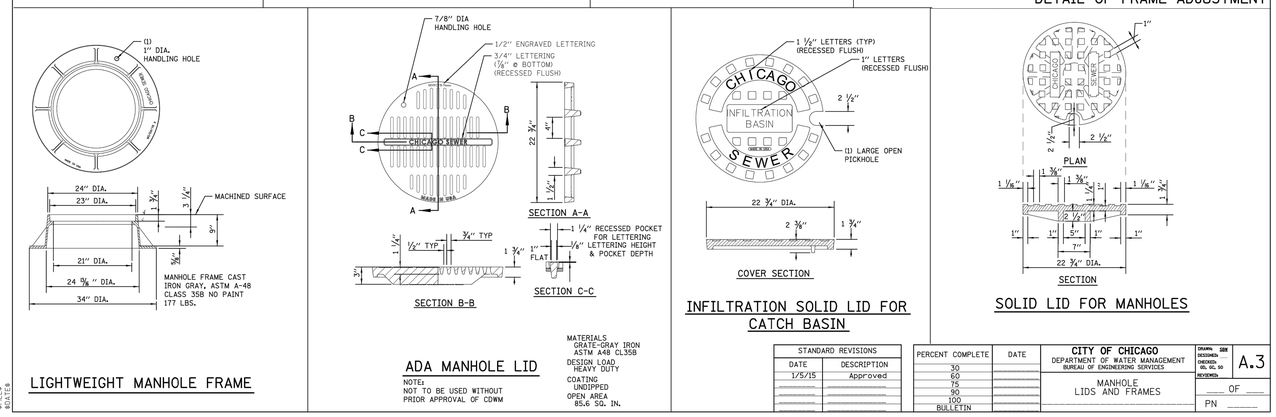
C6.10



1 MANHOLE

SCALE: NTS





STANDARD REVISIONS	
DATE	DESCRIPTION
1/5/15	Approved

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES
MANHOLE LIDS AND FRAMES
DRAWN: SEM
DESIGNED:
CHECKED:
REVISED:
A.3
OF
PN

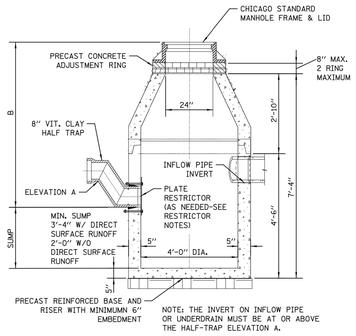
CDWM_Details.cel 8/5/2015 10:30:20 AM

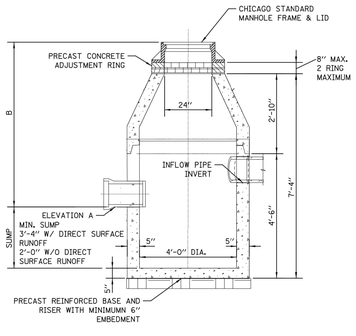
2 MANHOLE LIDS AND FRAMES

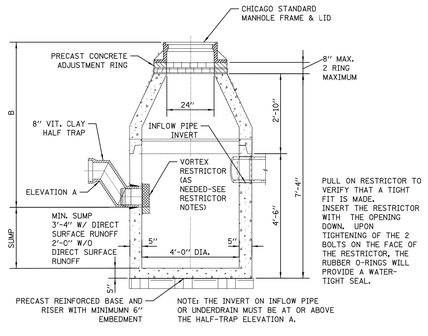
SCALE: NTS

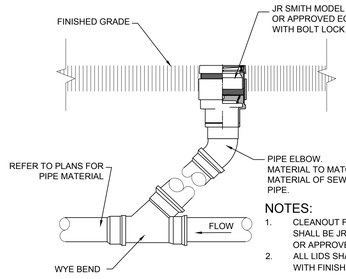
4 02.28.2018 JLH

STANDARD DRAINAGE STRUCTURES FOR PRIVATE DEVELOPMENT



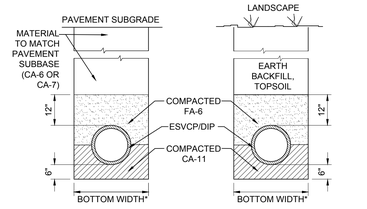






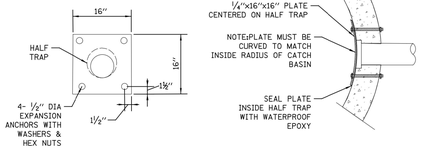
4 CLEANOUT TO GRADE

SCALE: NTS



5 SEWER PIPE TRENCH AND BEDDING

SCALE: NTS



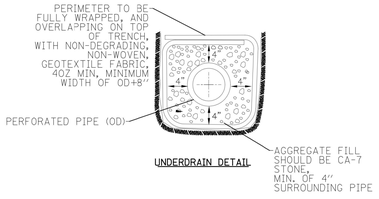
NOTES:

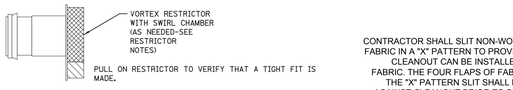
1. THE RESTRICTOR MUST BE INSTALLED IN CATCH BASINS OR MANHOLES WITH 2' MIN. SUMPS.

2. PLATE AND FASTENERS MUST BE FABRICATED IN STAINLESS STEEL, DUCTILE IRON, OR EQUIVALENT WATERPROOF/WEATHER PROOF MATERIALS.

3. MIN. ORIFICE SIZE= 2.5" DIA.

4. IF B< 4 FEET, THEN USE A FLAT TOP SLAB CATCH BASIN AS NECESSARY.





NOTES:

1. IF B < 4 FEET, THEN USE A FLAT TOP SLAB CATCH BASIN AS NECESSARY.

2. THE RESTRICTORS CAN BE OBTAINED FROM DWM CENTRAL DISTRICT AT 3901 S. ASHLAND AVE. THE CONTRACTOR SHOULD ARRANGE FOR PICK UP BY CONTACTING 312-747-1177 (7AM TO 3PM, M-F)

GENERAL NOTES:

1. CATCH BASIN TO CATCH BASIN CONNECTIONS ARE ALLOWED IN PRIVATE SITES & ALLEYS. ONLY THE DOWNSTREAM CATCH BASIN IS REQUIRED TO HAVE A HALF-TRAP.

2. IF B < 4 FEET, THEN USE A FLAT TOP SLAB CATCH BASIN AS NECESSARY.

3. FOR TRENCH BACKFILL, USE FA-6 SAND, CRUSHED CONCRETE SAND, OR STONE SAND.

4. FOR GRANULAR EMBEDMENT, USE CA-11, CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.

5. INLETS AND 3' DIAMETER CATCH BASINS ARE TO BE USED ONLY WITH PRIOR APPROVAL OF THE DEPT OF WATER MANAGEMENT- ENGINEERING SERVICES, SEWER SECTION, AND THE DEPT. OF BUILDINGS STORMWATER REVIEWER.

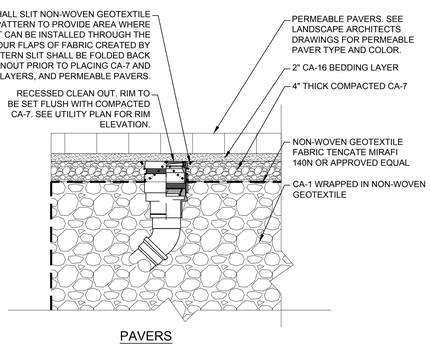
3 CATCH BASIN

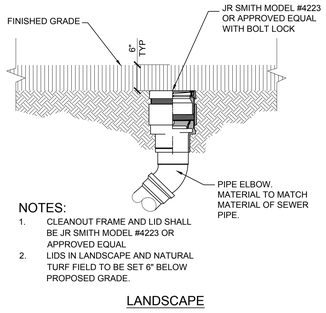
SCALE: NTS

STANDARD REVISIONS	
DATE	DESCRIPTION
2/24/15	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES
DRAINAGE STRUCTURE DETAILS
PRIVATE DEVELOPMENT
DRAWN: SEM
DESIGNED:
CHECKED:
REVISED:
A.19
OF
PN





6 RECESSED CLEAN OUT

SCALE: NTS

3 02.21.2018 JLH

PUBLIC BUILDING COMMISSION

Chicago Public Schools

READ DUNNING SCHOOL

4071 N. OAK PARK AVENUE
CHICAGO, IL 60634
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
STL ARCHITECTS

STLARCHITECTS

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	90% CD	12/01/2017
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	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title

SITE UTILITY DETAILS

Sheet

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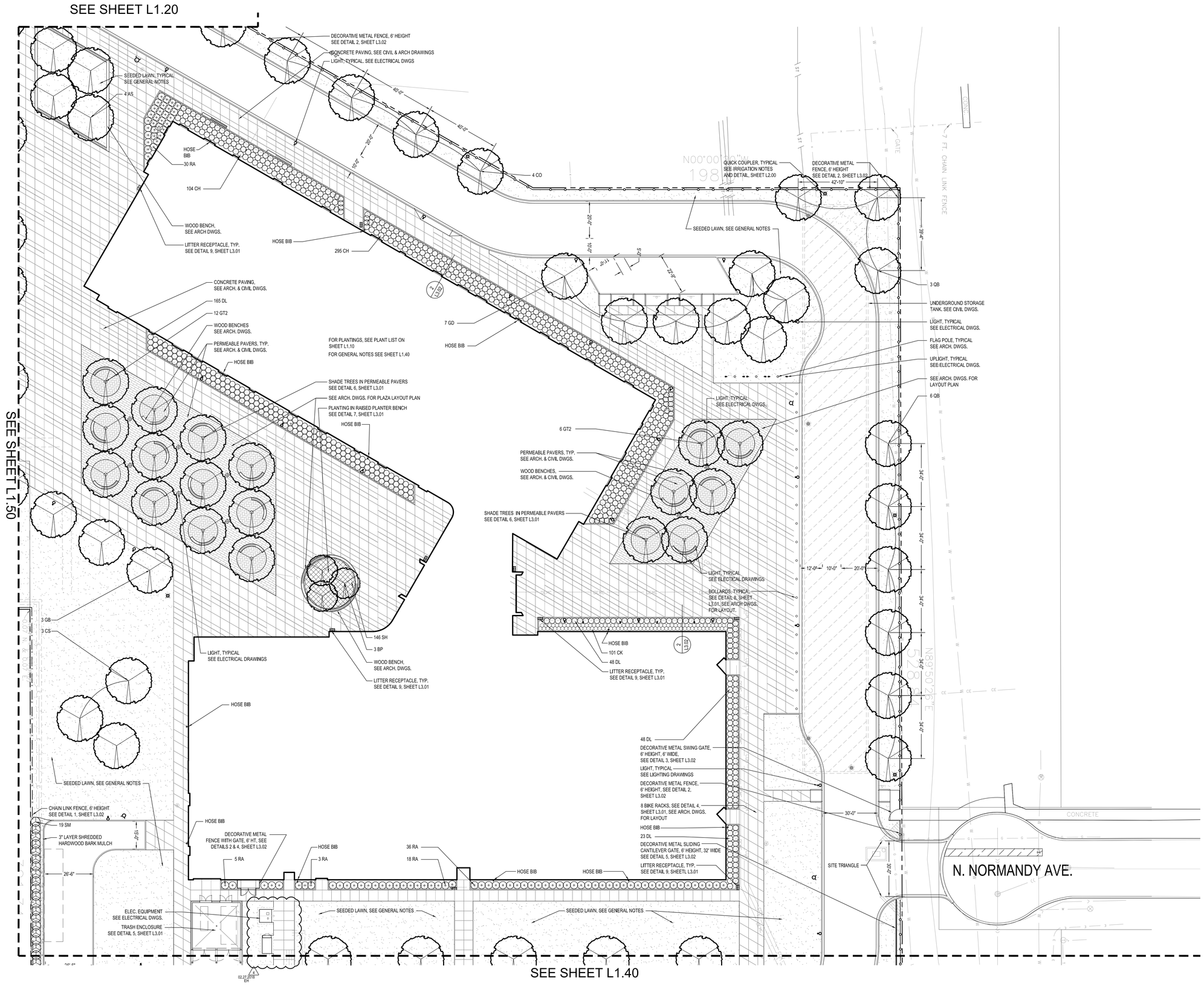

READ DUNNING SCHOOL

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CHICAGO, IL 60634

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
STL ARCHITECTS

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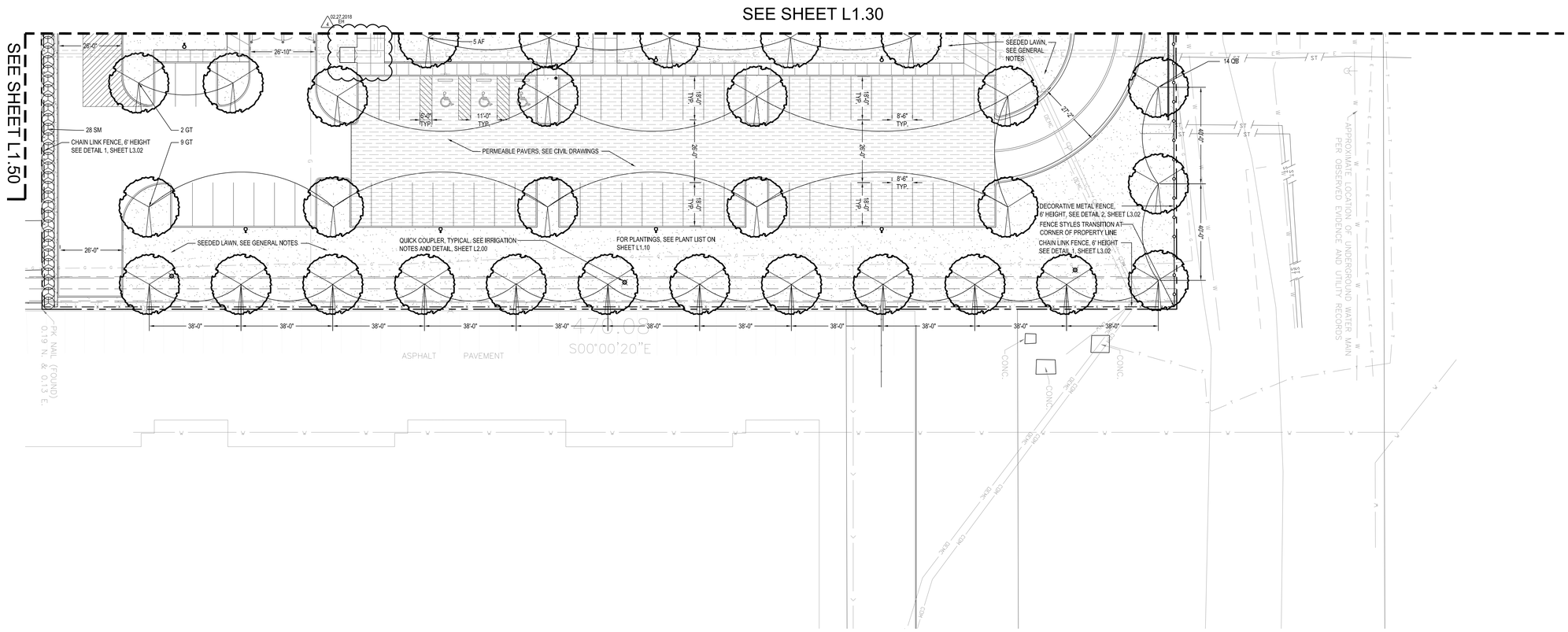
	DESIGN DEVELOPMENT	05/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
LANDSCAPE PLAN

Sheet
L1.30



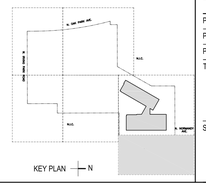
GENERAL NOTES

1. ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO STARTING WORK.
2. THE CONTRACTOR SHALL HAVE A MINIMUM OF FIVE YEARS EXPERIENCE WITH PROJECTS OF SIMILAR SIZE AND TYPE.
3. SPECIES AND SIZES OF PLANTS LISTED IN THE PLANT LIST ARE SUBJECT TO AVAILABILITY AT TIME OF INSTALLATION. IF SUBSTITUTIONS ARE REQUIRED, THE CONTRACTOR SHALL SUBMIT REQUESTS TO THE LANDSCAPE ARCHITECT FOR APPROVAL.
4. QUANTITIES SHOWN ON THE DRAWING AND IN THE PLANT LIST ARE PROVIDED ONLY FOR THE CONTRACTOR'S CONVENIENCE. THE NUMBER OF PLANT SYMBOLS SHOWN ON THE DRAWINGS SUPERCEDE ALL QUANTITIES PROVIDED. THE CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES ON THE DRAWINGS AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PLANTS PER THE PLANT SYMBOLS SHOWN ON THE DRAWINGS.
5. ALL OVERHEAD AND UNDERGROUND UTILITIES ARE TO BE LOCATED PRIOR TO DIGGING OR EXCAVATION. IF UTILITIES OR OTHER OBSTRUCTIONS ARE DISCOVERED TO CONFLICT WITH GRADING, PLANT OR MATERIALS PLACEMENT, NOTIFY THE LANDSCAPE ARCHITECT SO THAT ADJUSTMENTS MAY BE MADE PRIOR TO PROCEEDING.
6. CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT EXISTING PLANTS, LAWN AREA, FENCES, SITE FEATURES AND PAVING TO REMAIN. ANY DAMAGE TO THESE EXISTING AREAS OR FEATURES SHALL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE. DAMAGED LAWN AREAS SHALL BE TILLED, RE-GRADED, TOPSOIL ADDED AS NEEDED AND BE RESTORED WITH SOD, REPLACED FEATURES, PLANTS AND SOD SHALL BE WARRANTED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR.
7. PROVIDE POSITIVE DRAINAGE AT ALL TIMES. DO NOT OBSTRUCT THE NATURAL OR ENGINEERED DRAINAGE FLOW PATTERN. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DRAINAGE CONCERNS.
8. IF THERE ARE EXISTING ASH TREES ON THE PROJECT SITE, THE CONTRACTOR SHALL HAVE ALL ASH TREES INSPECTED FOR EMERALD ASH BORER INFESTATION BY A LICENSED ARBORIST OR FORESTER. ASH TREES TO BE DEMOLISHED SHALL ADHERE TO THE "ILLINOIS EMERALD ASH BORER COMPLIANCE AGREEMENT" BY THE ILLINOIS DEPARTMENT OF AGRICULTURE, AT WWW.ILLINOISEAB.COM. IT IS RECOMMENDED THAT ASH TREES TO BE DEMOLISHED, BE REMOVED BETWEEN SEPTEMBER 1ST AND APRIL 30TH, WHEN THERE ARE NO RESTRICTIONS. ASH TREES TO BE DEMOLISHED BETWEEN MAY 1ST AND AUGUST 31ST, MUST FOLLOW THE PROCEDURES OUTLINED IN THE "ILLINOIS EMERALD ASH BORER COMPLIANCE AGREEMENT".
9. EXCEPT FOR PLAZA AREA, BACKFILL MIX FOR ALL PLANTINGS SHALL BE IMPORTED TOPSOIL. SEE CIVIL, ENVIRONMENTAL AND LANDSCAPE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
10. PLAZA SOIL MIXTURE SHALL CONSIST OF THE FOLLOWING:
    30% HAYDITE C
    25% HAYDITE L
    10% TORPEDO SAND
    15% TOPSOIL
    20% YARDWASTE COMPOST — NOTE: TO BE COMPACTED
    SUBMIT SAMPLE FOR APPROVAL — IN 4" LIFTS TO 95% PROCTOR
11. SOD SHALL BE A TALL FESCUE BLEND SOD, SUCH AS BLACK BEAUTY OR APPROVED EQUAL. BLUEGRASS BLEND SOD IS NOT ACCEPTABLE, UNLESS APPROVED BY THE LANDSCAPE ARCHITECT. SODDED LAWN WILL NOT BE ACCEPTED UNTIL WELL ROOTED AND MOWN TWICE.
12. LAWN GRASS SEED MIX TO BE A BLEND OF 1/3 TITAN LIMITED TALL FESCUE, 1/3 RENDITION TALL FESCUE, AND 1/3 COVENANT TALL FESCUE. INSTALL SEED MECHANICALLY AT A RATE OF 10 POUNDS PER 1,000 SF. ALL SEEDED AREAS ARE TO BE COVERED WITH A PELLETIZED HYDRO MULCH. LAWN SEEDING SHALL ONLY BE INSTALLED WITHIN THE FOLLOWING DATES UNLESS APPROVED BY THE LANDSCAPE ARCHITECT:
    MAY 1 THROUGH JUN 15
    AUG 15 THROUGH OCT 15

    THE CONTRACTOR SHALL WARRANTY ALL SEED FROM DATE OF INSTALLATION UNTIL ACCEPTANCE BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAWN MAINTENANCE (WATERING, MOWING, FERTILIZING AND WEEDING) UNTIL ACCEPTANCE. THE CONTRACTOR SHALL REPLACE ALL SEEDING THAT HAS NOT FILLED IN OR HAS DIED OR BURNED OUT AT NO COST TO THE OWNER. FINAL ACCEPTANCE WILL BE GIVEN BY LANDSCAPE ARCHITECT ONCE THE SEEDED AREAS ARE FULL, VIABLE AND FREE OF BARE SPOTS AND THE LAWN HAS BEEN MOWED TWICE.
13. ALL PLANT MATERIAL MUST BE SPECIMEN QUALITY, TRUE TO SPECIES AND VARIETY, WITH FULL, DENSE AND HEALTHY FORMS. PLANTS THAT ARE NOT SPECIMEN QUALITY WILL NOT BE ACCEPTED. ALL PLANTS MUST HAVE BEEN LOCALLY GROWN AT A STATE INSPECTED AND CERTIFIED NURSERY, LOCATED WITHIN 50 MILES OF THE PROJECT SITE.
14. ALL DECIDUOUS TREES AND SHRUBS THAT ARE 36" HEIGHT OR TALLER ARE TO HAVE FRESHLY DUG, BALLED AND BURLAPPED ROOT BALLS WITH SIZES THAT MEET THE STANDARDS OF THE AMERICAN NURSERYMEN'S ASSOCIATION. DECIDUOUS SHRUBS THAT ARE 30" HEIGHT OR LESS MAY EITHER HAVE FRESHLY DUG, BALLED AND BURLAPPED ROOT BALLS OR MAY BE CONTAINER GROWN. ALL PERENNIALS, ORNAMENTAL GRASSES AND GROUNDCOVERS MUST BE CONTAINER GROWN. CONTAINER GROWN MATERIALS SHALL HAVE BEEN GROWN IN THEIR CURRENT CONTAINER FOR A PERIOD OF NO LESS THAN SIX MONTHS.
15. ALL TREES SHALL BE INSPECTED BY THE LANDSCAPE ARCHITECT, AT THE NURSERY, PRIOR TO DIGGING. TREES THAT ARE ACCEPTABLE WILL BE SEALED. ALL SEALS APPLIED BY THE LANDSCAPE ARCHITECT MUST REMAIN ON THE TREES AND ARE NOT TO BE REMOVED BY THE CONTRACTOR. ALL TREES MUST HAVE SEALS IN PLACE AT TIME OF ACCEPTANCE OR WILL BE AUTOMATICALLY REJECTED. HEELED-IN TREES WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL FROM THE LANDSCAPE ARCHITECT.
16. TREE SPECIES SUCH AS BETULA, CELTIS, CERCIS, CRATAEGUS, FAGUS, LIRIODENDRON, PLATANUS, POPULUS, PRUNUS, PYRUS, QUERCUS AND TAXODIUM ARE CONSIDERED 'SPRING DIG ONLY' TREES. THE CONTRACTOR MUST HAVE THESE TREES ORDERED, ACCEPTED AND DUG IN EARLY SPRING FOR SUMMER AND FALL LANDSCAPE INSTALLATIONS.
17. ALL SHRUBS ARE TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. AN EXAMPLE SHRUB MAY BE TAGGED OR PICTURES MAY BE SUBMITTED FOR APPROVAL. ALL SHRUBS THAT DO NOT MATCH THE APPROVED EXAMPLE SHRUB IN SIZE AND FORM, WILL BE REJECTED. ALL OTHER SHRUBS MUST MEET THE MINIMUM SIZES GIVEN IN THE PLANT LIST AND BE SPECIMEN QUALITY. SHRUBS THAT DO NOT MEET THESE GUIDELINES WILL BE REJECTED.
18. PLANT MATERIAL SHALL ONLY BE INSTALLED WITHIN THE FOLLOWING DATES:
    DECIDUOUS TREES AND SHRUBS: APR 1 THROUGH NOV 15
    SPRING DIG DECIDUOUS TREES: APR 1 THROUGH OCT 15
    PERENNIALS AND GROUNDCOVERS: MAY 1 THROUGH OCT 15
    SODDED LAWN: APR 1 THROUGH NOV 15
    LAWN GRASS SEEDING: MAY 1 THROUGH JUN 15, AUG 15 THROUGH OCT 15

    WHEN FAVORABLE WEATHER CONDITIONS EXIST OUTSIDE OF THE PLANTING SEASON, THE CONTRACTOR MAY INSTALL PLANTS WHEN APPROVED BY THE LANDSCAPE ARCHITECT.
19. TEST TREE PITS AND PLANT BEDS FOR ADEQUATE DRAINAGE. FILL PLANT PIT WITH 12" OF WATER. IF WATER LEVEL DOES NOT DROP A MINIMUM OF ONE INCH PER HOUR, NOTIFY THE LANDSCAPE ARCHITECT OF DRAINAGE ISSUES.
20. BARK MULCH FOR TREES AND SHRUBS SHALL BE FINELY SHREDDED, PREMIUM HARDWOOD BARK MULCH, FREE OF TWIGS, LEAVES OR OTHER DEBRIS. BARK MULCH SHALL NOT CONTAIN ANY WOOD AND SHALL NOT BE ARTIFICIALLY COLORED.
21. PRODUCT DATA, SUPPLIER NAME AND A SAMPLE OF THE FOLLOWING MATERIAL SHALL BE SUBMITTED FOR APPROVAL. SAMPLE FOR MATERIAL NOT REQUIRED ON THE DRAWING AND DETAILS MAY BE OMITTED.
    TOPSOIL, PLANTING BACKFILL MIX, SHREDDED HARDWOOD BARK MULCH, LEAF MULCH, FILTER FABRIC, INSPECTION TUBE AND CAP, DRAINAGE GRAVEL, DRAINAGE PIPE (12" SECTION), EROSION CONTROL BLANKET.
22. EXCAVATE PARKING LOT ISLANDS AND CURBED PLANTERS TO A DEPTH OF 18" AND BACKFILL WITH TOPSOIL. BERM PLANTERS AND ISLANDS TO A HEIGHT OF 6" ABOVE TOP OF CURB.
23. ALL PLANT BEDS ARE TO BE WELL SHAPED 'SPADE CUT' EDGES, 3" DEPTH, IN LINES OR IN CURVES AS SHOWN ON THE DRAWINGS.
24. SKATE DETERRENTS ARE TO BE INSTALLED ON ALL RAISED CONCRETE AND CURB PLANTERS, AT 5' SPACING. DETERRENTS ARE TO BE A MINIMUM OF 1/2" HEIGHT BY 2" LENGTH AND ARE TO WRAP AROUND THE FRONT CORNER OF THE PLANTER. DETERRENTS ARE TO BE CONSTRUCTED OF A NON-CORROSIVE METAL AND ARE TO BE ATTACHED WITH S SET SCREW. (02.07.2018 EH)
25. MAINTENANCE OF ALL LANDSCAPING SHALL BEGIN AT INSTALLATION AND CONTINUE UNTIL ACCEPTANCE. MAINTENANCE SHALL CONSIST OF WATERING, WEEDING AND ALL OTHER ACTIVITIES TO MAINTAIN A HEALTHY LANDSCAPE.
26. THE CONTRACTOR SHALL REQUEST AN INSPECTION OF LANDSCAPE PLANTING UPON SUBSTANTIAL COMPLETION FOR "ACCEPTANCE". REQUEST MUST BE SUBMITTED TO LANDSCAPE ARCHITECT AT LEAST TEN DAYS PRIOR TO ANTICIPATED INSPECTION. UPON INSPECTION THE LANDSCAPE ARCHITECT SHALL PREPARE A PUNCH LIST OF UNACCEPTABLE OR OUTSTANDING ITEMS. AFTER THE ITEMS HAVE BEEN SATISFACTORILY COMPLETED AND REVIEWED, THE LANDSCAPE ARCHITECT WILL RECOMMEND "ACCEPTANCE".
27. THE CONTRACTOR SHALL FURNISH THE OWNER WITH A LANDSCAPE MAINTENANCE MANUAL UPON ACCEPTANCE. THE LANDSCAPE MAINTENANCE MANUAL SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION TO THE OWNER.
28. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF "ACCEPTANCE". AT OR NEAR THE END OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL REQUEST AN INSPECTION OF LANDSCAPE PLANTING FOR "FINAL ACCEPTANCE". REQUEST MUST BE SUBMITTED TO LANDSCAPE ARCHITECT AT LEAST TEN DAYS PRIOR TO ANTICIPATED INSPECTION. UPON INSPECTION THE LANDSCAPE ARCHITECT SHALL PREPARE A PUNCH LIST OF UNACCEPTABLE ITEMS. AFTER THE ITEMS HAVE BEEN SATISFACTORILY REPLACED OR REPAIRED, REVIEWED AND APPROVED, THE LANDSCAPE ARCHITECT WILL RECOMMEND "FINAL ACCEPTANCE".
29. SEE ENVIRONMENTAL PLANS AND SPECIFICATION SECTIONS FOR FURTHER DETAILS ON REQUIREMENTS FOR IMPORTING AND EXPORTING MATERIALS ON SITE.

20' 0 10' 20' 40'
Scale: 1 inch = 20ft.



KEY PLAN N

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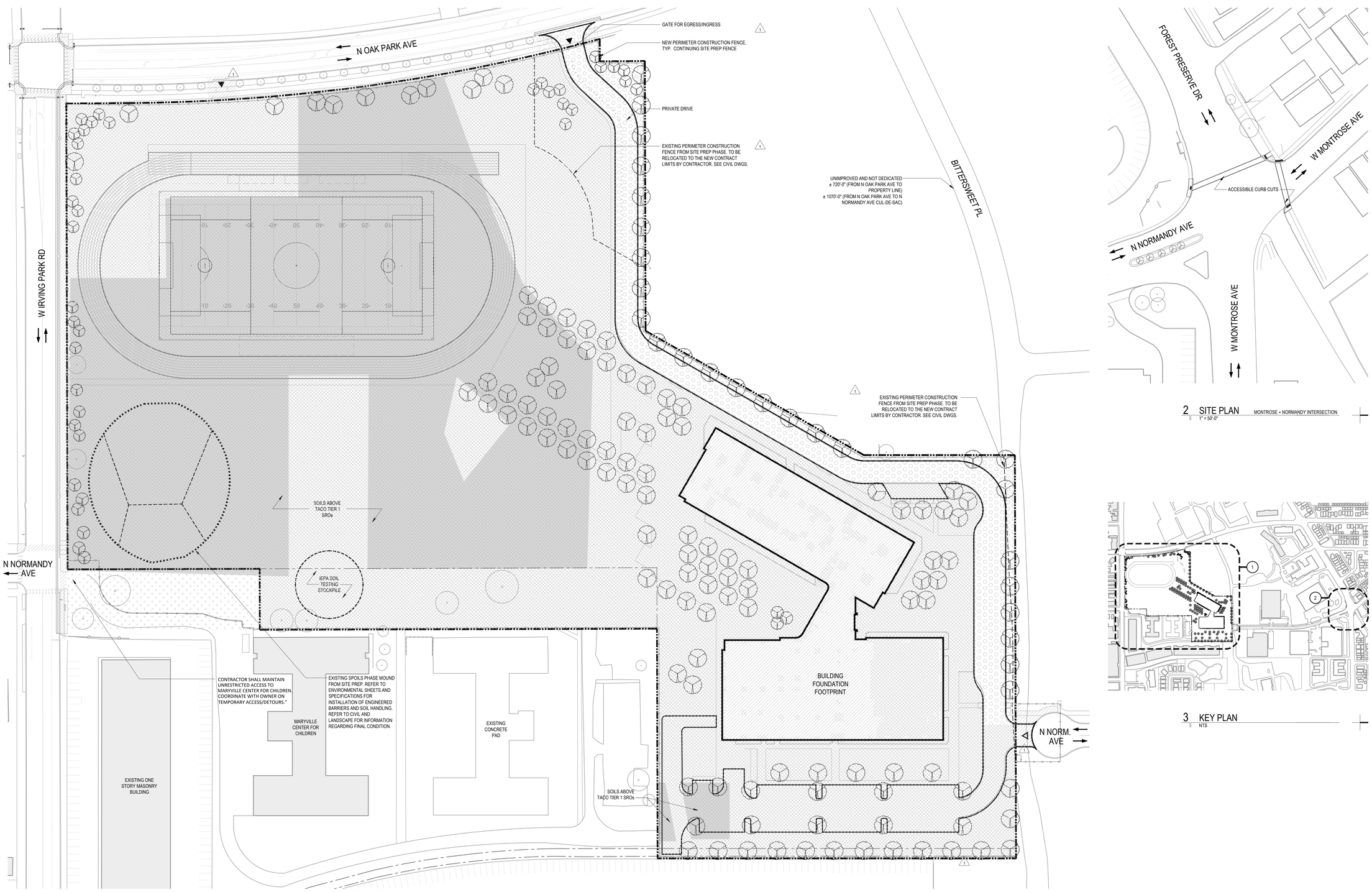
Issuance

Mark	Description	Date
4	ADDENDUM #3	02/28/2018
3	ADDENDUM #2	02/21/2018
2	ADD #1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
LANDSCAPE PLAN

Sheet
L1.40



1 SITE PLAN — OVERALL SITE + NORMANDY CONNECTION
1" = 50'-0"

2 SITE PLAN — MONTROSE + NORMANDY INTERSECTION
1" = 50'-0"

3 KEY PLAN
NTS

PROPOSED PHASING:*

*CONTRACTOR MAY PROCEED WITH SUBSEQUENT WORK PENDING ACCEPTANCE OF THE CURRENT MILESTONE BY THE AOR.

1. **SCHEDULE MILESTONE #1** (APRIL 2, 2018 TO APRIL 30, 2018): MOBILIZATION, PERMITTING AND SITE CONTROL MEASURES
2. **SCHEDULE MILESTONE #2** (MAY 1 2018 TO JULY 26, 2018): MARYVILLE DRIVEWAY RELOCATION - **AREA A**
3. **SCHEDULE MILESTONE #3** (MAY 1,2018 TO APRIL 2, 2019): ALL WORK ASSOCIATED WITH EARTHWORK INCLUDING EXCAVATION AND PROPER HANDLING AND DISPOSAL OF ON-SITE MATERIAL AND SUB-GRADE OBSTRUCTIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS - **AREA B**
4. **SUBSTANTIAL COMPLETION** (MAY 1, 2018 TO AUGUST 2,2019): ALL REMAINING WORK ASSOCIATED WITH NEW BUILDING AND SITE DEVELOPMENT WITH THE EXCEPTION OF THE NEW PRIVATE DRIVE AND ASSOCIATED LANDSCAPING - **AREA C**
5. **SCHEDULE MILESTONE #4** (OCTOBER 1, 2018 TO AUGUST 2, 2019): ALL WORK ASSOCIATED WITH THE NEW PRIVATE DRIVE AND ASSOCIATED LANDSCAPING - **AREA D**

LEGEND

- AREA A: SCHEDULE MILESTONE #2 - SEE 1/A0.21
- AREA B: SCHEDULE MILESTONE #3 - SEE 2/A0.21
- AREA C: SUBSTANTIAL COMPLETION - SEE 3/A0.21
- AREA D: SCHEDULE MILESTONE #4 - SEE 4/A0.21
- PROPERTY LINE
- AREAS IDENTIFIED BY THE OWNER'S ENVIRONMENTAL CONSULTANT AS SOILS ABOVE TACO TIER 1 SROs. REFER TO ENVIRONMENTAL SHEETS AND SPECIFICATIONS FOR SOIL INSTALLATION OF ENGINEERED BARRIERS AND HANDLING REQUIREMENTS. REFER TO CIVIL AND LANDSCAPE FOR INFORMATION REGARDING FINAL CONDITION.
- SILT CONSTRUCTION FENCE. REMAINING FROM SITE PREP. PHASE - SEE CIVIL DWGS.
- NEW TREE
- EXISTING TREE TO REMAIN
- CONSTRUCTION ACCESS
- ALTERNATIVE CONSTRUCTION ACCESS

SITE UTILIZATION NOTES:

1. THIS DRAWING IS DIAGRAMMATIC AND NOT INTENDED TO ILLUSTRATE ALL ASPECTS OF THE WORK IN DETAIL, REFER TO OTHER DRAWINGS AND THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. WORK AREAS DESIGNATED ON THIS DRAWING SHALL BE USED IN CONJUNCTION W/SPECIFICATION SECTION 01 14 11 "CONSTRUCTION OPERATIONS AND SITE UTILIZATION PLAN", SEE SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, AND SEQUENCES FOR IMPLEMENTATION OF THE WORK WITHIN THE AREAS DESIGNATED.
4. WHERE PROPERTY, STRUCTURES, OR PUBLIC WAY ARE DISTURBED AND/OR DAMAGED AS A RESULT OF THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, OR TEMPORARY FACILITIES, THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL ASPECTS OF THE BUILDING, SITE, AND PUBLIC WAY TO ORIGINAL CONDITION TO THE SATISFACTION OF THE AUTHORIZED COMMISSION REPRESENTATIVE.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY FACILITIES, SITE FENCING, GATES, ETC. INCLUDING INCIDENTAL RELOCATION NECESSARY FOR IMPLEMENTATION OF THE WORK.
6. ALL WORK REQUIRED IN THE PUBLIC WAY SHALL BE COMPLETED CONCURRENT WITH WORK IN SITE AREAS "A", "B", "C" AND "D" UNLESS SPECIFICALLY NOTED OTHERWISE OR UNLESS APPROVED IN ADVANCE, IN WRITING, BY THE COMMISSION REPRESENTATIVE.
7. GENERAL CONTRACTOR SHALL REVIEW ALL NEIGHBORING FACILITIES AND COORDINATE ALL CONSTRUCTION SITE ACTIVITIES SO AS TO NOT IMPACT THE OPERATIONS OF THESE NEIGHBORS. CONTRACTOR SHALL SUBMIT A SITE UTILIZATION PLAN THAT INCORPORATES AND ACCOMMODATES ALL ENTRY, EXIT, AND LOADING LOCATIONS, PRIMARY TRAFFIC ROUTINGS, AND HOURS OF OPERATION FOR EACH OF THESE FACILITIES.
8. CONTRACTOR MUST OBTAIN ALL REQUIRED PUBLIC RIGHT OF WAY PERMITS AS NECESSARY TO PERFORM THE WORK.
9. CONTRACTOR MUST PROTECT ALL PUBLIC RIGHT OF WAY INFRASTRUCTURE AND COORDINATE CONSTRUCTION ACTIVITIES ACCORDINGLY.
10. GENERAL CONTRACTOR SHALL PREPARE A DETAILED LOGISTICS PLAN FOR REVIEW AND APPROVAL, IN ACCORDANCE WITH SPECIFICATION SECTION. CONTRACTOR'S LOGISTICS PLAN MUST INCLUDE ITS PLANNED COMMENCEMENT AND COMPLETION DATES FOR ALL ITS WORK ACTIVITIES.
11. CONTRACTOR TO PROVIDE AND MAINTAIN TEMPORARY PROTECTION THROUGHOUT THE ENTIRETY OF CONSTRUCTION AND REMOVE AT COMPLETION OF WORK.
12. CONTRACTOR SHALL MAINTAIN UNRESTRICTED ACCESS TO MARYVILLE CENTER FOR CHILDREN. COORDINATE WITH OWNER ON TEMPORARY ACCESS/DETOURS.
13. ALL DELIVERIES ARE TO ENTER/EXIT THE SITE VIA OAK PARK AVENUE ENTRANCES. NO CONSTRUCTION TRAFFIC WILL BE ALLOWED ON N NORMANDY AVENUE WITHOUT WRITTEN APPROVAL FROM THE COMISSION REPRESENTATIVE.

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Issuance

Mark	Description	Date
4	ADDENDUM #3	02/28/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
1 PHASING PLAN

Sheet
A0.20

32'-0" 0'-0" 16'-0" 32'-0" 64'-0"
1/32" = 1'-0"

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

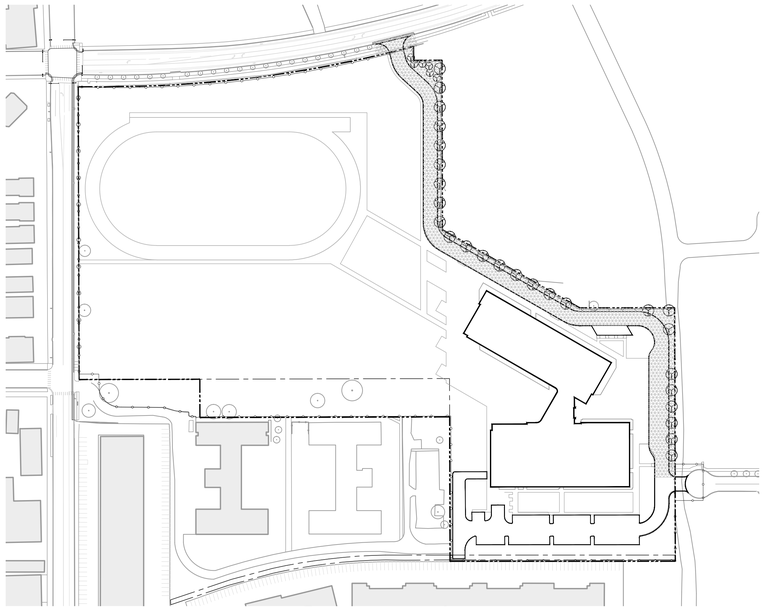
2'-0" 0'-0" 1'-0" 2'-0" 4'-0"
1/2" = 1'-0"

1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

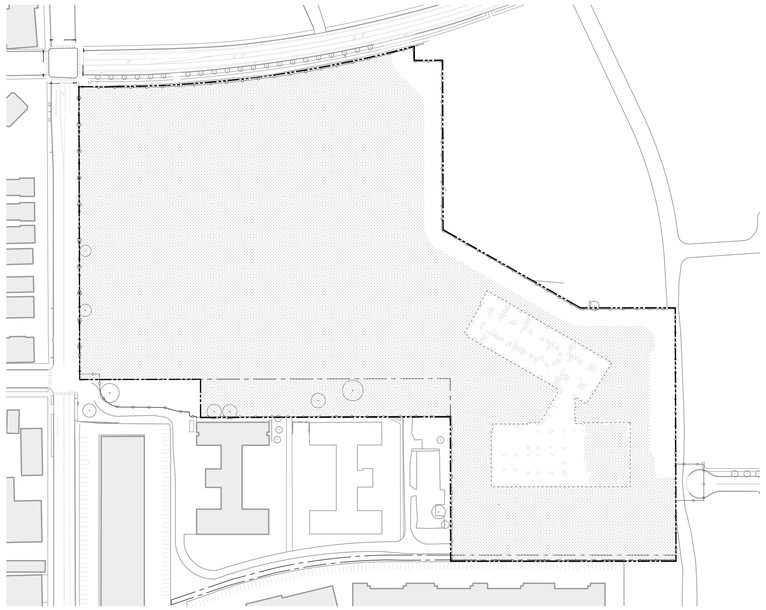
0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

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

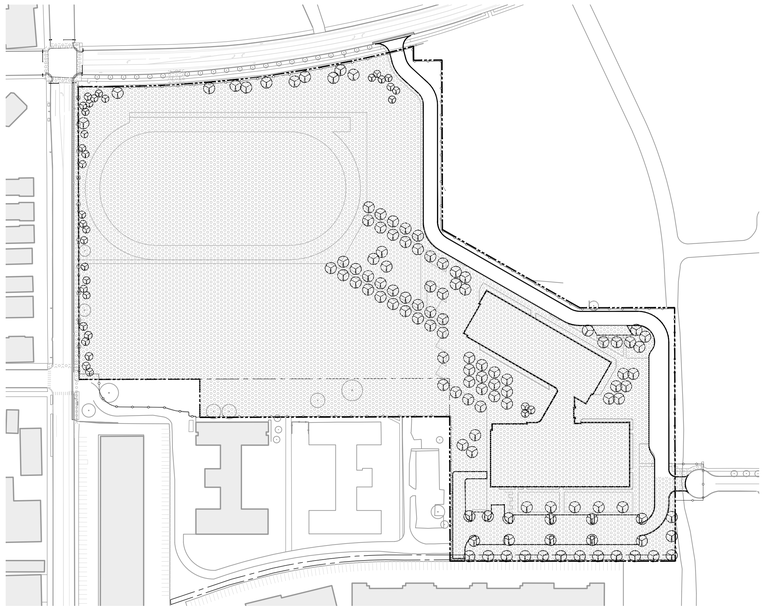
0'-0" 0'-1-1/2" 0'-3" 0'-4-1/2" 0'-6"
6" = 1'-0"



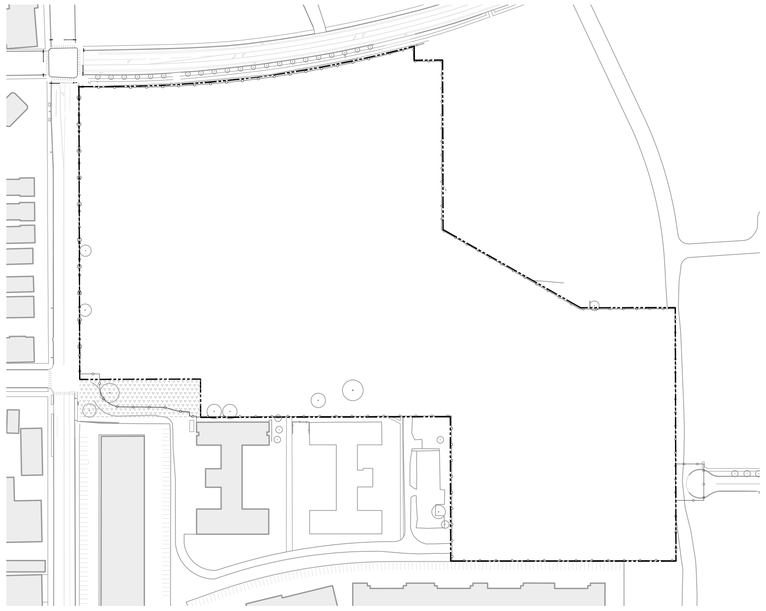
4 AREA D
1/128" = 1'-0"
SCHEDULE MILESTONE #4
PRIVATE DRIVE AND LANDSCAPING



2 AREA B
1/128" = 1'-0"
SCHEDULE MILESTONE #3
EARTHWORK



3 AREA C
1/128" = 1'-0"
SUBSTANTIAL COMPLETION
BUILDING AND SITE DEVELOPMENT



1 AREA A
1/128" = 1'-0"
SCHEDULE MILESTONE #2
MARYVILLE DRIVEWAY RELOCATION

LEGEND

- AREA A: SCHEDULE MILESTONE #2
- AREA B: SCHEDULE MILESTONE #3
- AREA C: SUBSTANTIAL COMPLETION
- AREA D: SCHEDULE MILESTONE #4
- PROPERTY LINE
- SILT CONSTRUCTION FENCE. REMAINING FROM SITE PREP. PHASE - SEE CIVIL DWGS.
- NEW TREE
- EXISTING TREE TO REMAIN
- CONSTRUCTION ACCESS
- ALTERNATIVE CONSTRUCTION ACCESS

SITE UTILIZATION NOTES:

1. REFER TO A0.20 FOR MORE INFORMATION.

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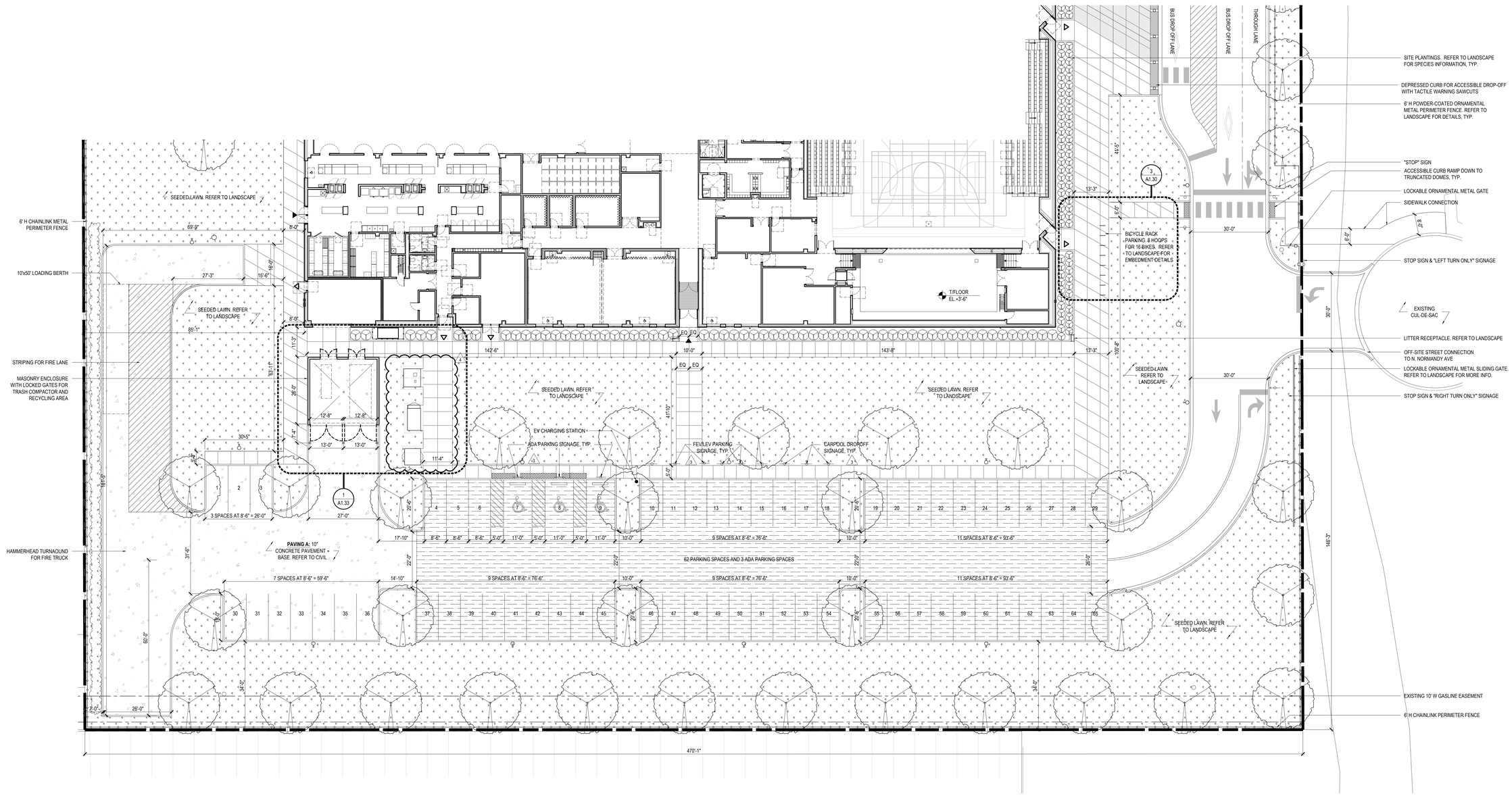
Issuance

Mark	Description	Date
4	ADDENDUM #3	02/28/2018

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A
Title

PHASING PLAN

Sheet
4 A0.21



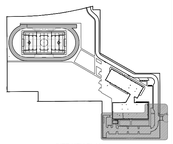
1 PARTIAL SITE PLAN AREA C
1/16" = 1'-0"

LEGEND

- PROPERTY LINE
- EXISTING TO REMAIN
- NEW WORK
- 6' H CHAINLINK FENCE
- 6' H ORNAMENTAL METAL FENCE
- EXISTING TREE TO REMAIN
- SEEDED LAWN
- ATHLETIC FIELD SOD
- PERMEABLE PAVERS - PEDESTRIAN
- PERMEABLE PAVERS - VEHICULAR
- SCORED COLORED CONCRETE PAVING, COLOR #1. REF FINISH SCHEDULE
- SCORED COLORED CONCRETE PAVING, COLOR #2. REF FINISH SCHEDULE
- 10" CONCRETE PAVEMENT
- NEW TREE
- POLE-MOUNTED SITE LIGHT
- FIRE HYDRANT
- LAWN HYDRANT
- TRASH RECEPTACLE
- TRAFFIC/PARKING SIGN
- MAIN ENTRANCE
- ENTRANCE/EXIT
- EXIT ONLY

GENERAL NOTES

1. EXISTING CONDITIONS INFORMATION BASED ON A SURVEY PROVIDED BY EDWARD J MOLLOY AND ASSOCIATES LTD DATED SEPTEMBER 13, 2017.
2. COORDINATE WITH ENVIRONMENTAL, GEOTECHNICAL/SOILS, AND OTHER OWNER-PROVIDED SUB-SURFACE INVESTIGATIONS.
3. REFER TO LANDSCAPE PLAN FOR TREE LOCATIONS AND QUANTITIES



SITE KEY PLAN

READ DUNNING SCHOOL

4071 N. OAK PARK AVENUE
CHICAGO, IL 60634
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
STL ARCHITECTS

STLARCHITECTS

ADDRESS: 808 N DEARBORN ST
CHICAGO, ILLINOIS 60610
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220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

Issuance

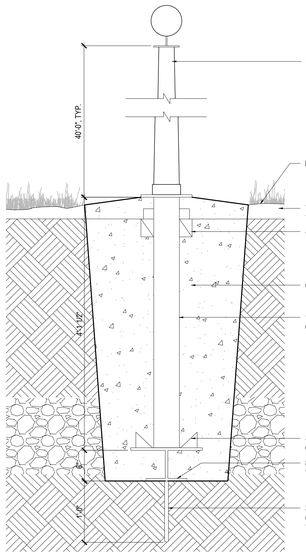
Mark	Description	Date
4	ADDENDUM #3	02/28/2018
3	ADDENDUM #2	02/21/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
PARTIAL SITE PLAN C

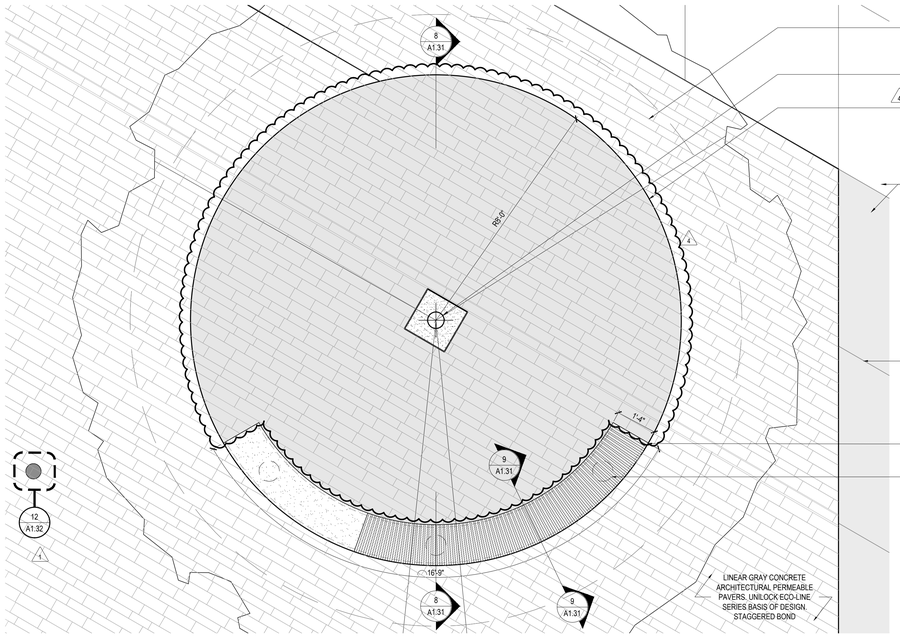
Sheet
A1.13

32'-0" 0'-0" 16'-0" 32'-0" 64'-0" 1/32" = 1'-0" | 16'-0" 0'-0" 8'-0" 16'-0" 32'-0" 1/16" = 1'-0" | 8'-0" 0'-0" 4'-0" 8'-0" 16'-0" 1/8" = 1'-0" | 4'-0" 0'-0" 2'-0" 4'-0" 8'-0" 1/4" = 1'-0" | 2'-0" 0'-0" 1'-0" 2'-0" 4'-0" 1/2" = 1'-0" | 1'-0" 0'-0" 0'-6" 1'-0" 2'-0" 1" = 1'-0" | 0'-0" 0'-6" 1'-0" 2'-0" 1-1/2" = 1'-0" | 0'-0" 0'-3" 0'-6" 0'-9" 1'-0" 3" = 1'-0" | 0'-0" 0'-1-1/2" 0'-3" 0'-4-1/2" 0'-6" 6" = 1'-0"

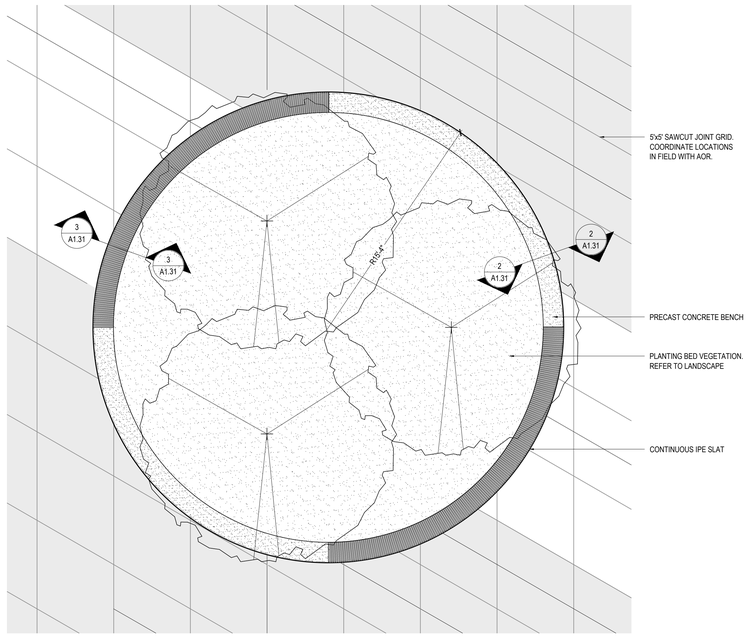


10 DETAIL — TYPICAL FLAG POLE
3/4" = 1'-0"

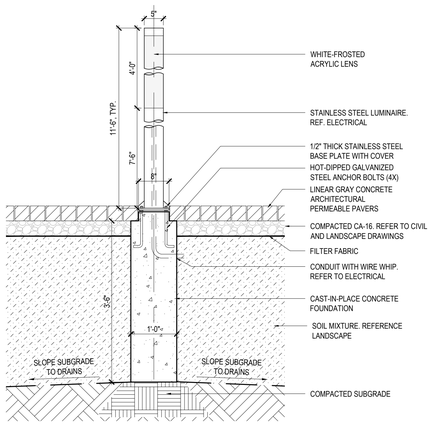
11 DETAIL — DETECTABLE SAWCUT WARNING
1" = 1'-0"



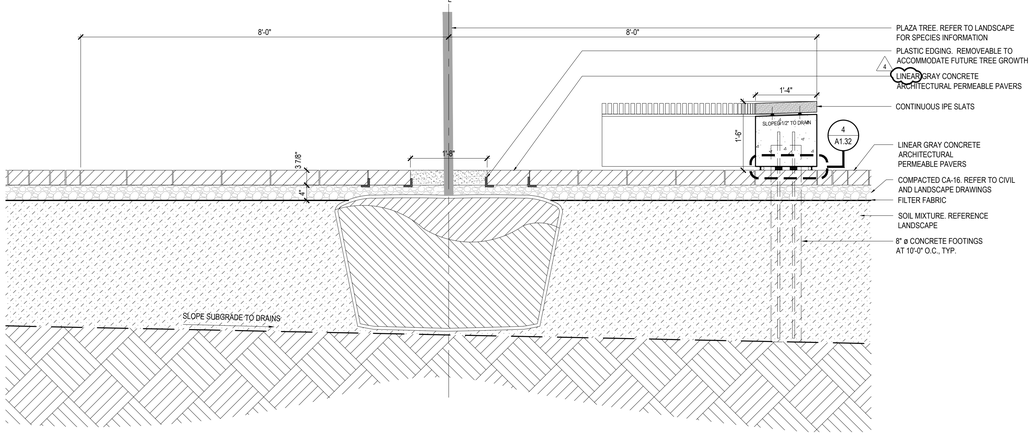
7 ENLARGED PLAN — TREE AND CURVED BENCH SET IN PERMEABLE PAVERS
1/2" = 1'-0"



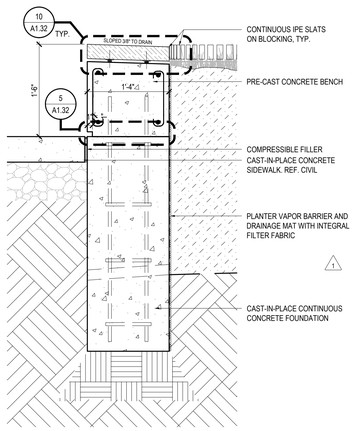
1 ENLARGED PLAN — CIRCULAR BENCH
1/4" = 1'-0"



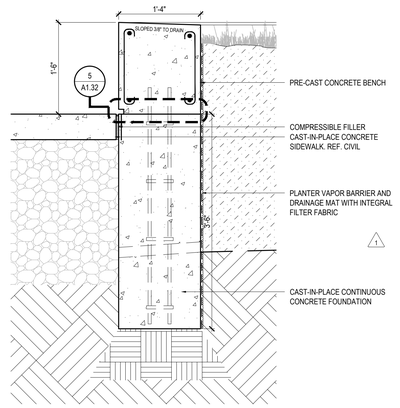
12 DETAIL — LIGHT FIXTURE BASE
3/4" = 1'-0"



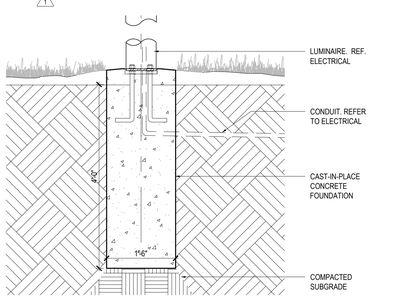
8 DETAIL — TREE AND CURVED BENCH SET IN PERMEABLE PAVERS
3/4" = 1'-0"



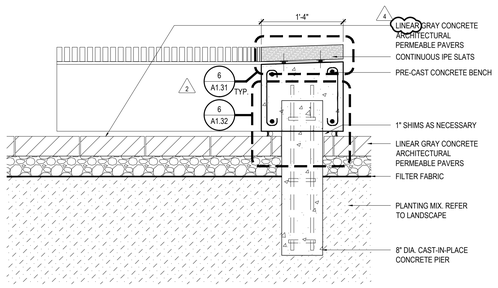
3 DETAIL — CIRCULAR BENCH AND PLANTER
1" = 1'-0"



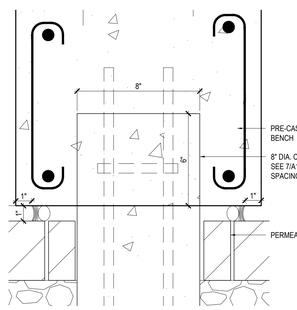
2 DETAIL — CIRCULAR BENCH AND PLANTER
1" = 1'-0"



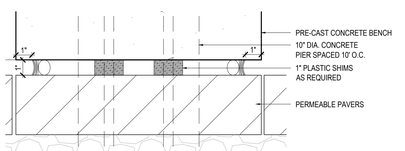
13 DETAIL — LIGHT FIXTURE BASE
3/4" = 1'-0"



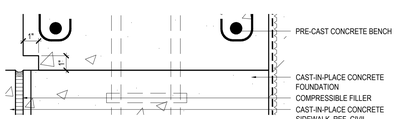
9 DETAIL — CURVED BENCH FOUNDATION PIERS
1" = 1'-0"



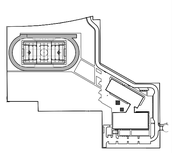
6 DETAIL — CIRCULAR BENCH REVEAL
3" = 1'-0"



4 DETAIL — CIRCULAR BENCH REVEAL
3" = 1'-0"



5 DETAIL — BENCH REVEAL
3" = 1'-0"



SITE KEY PLAN

PUBLIC BUILDING COMMISSION — Chicago Public Schools

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Issuance

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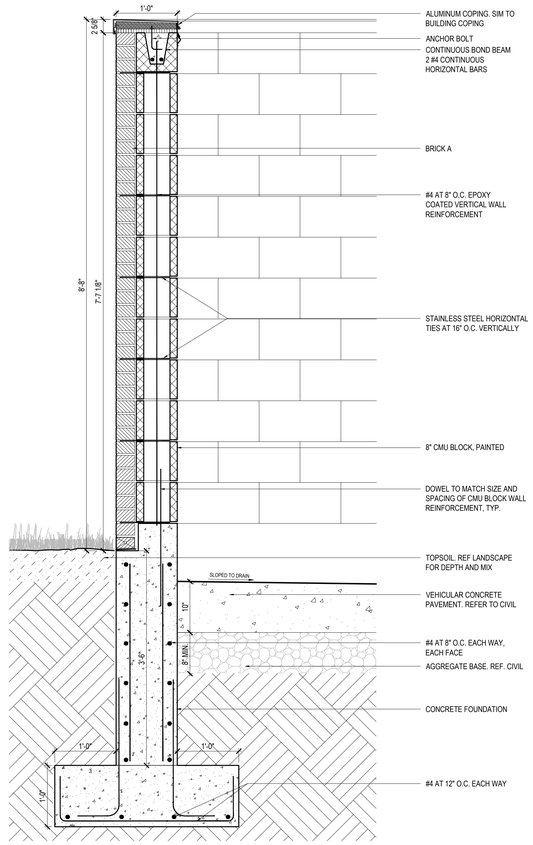
2	ADD #1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017

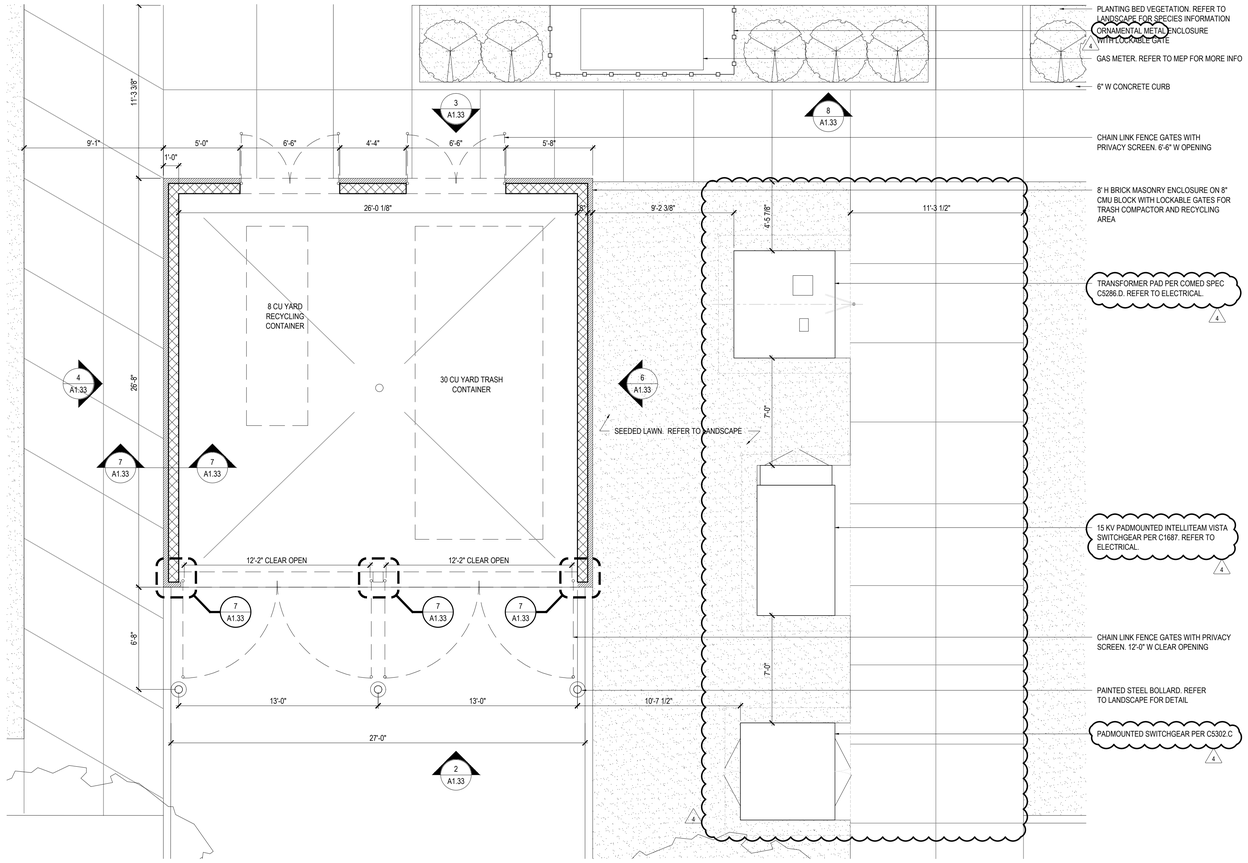
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A
Title

ENLARGED SITE PLANS, SECTIONS, DETAILS

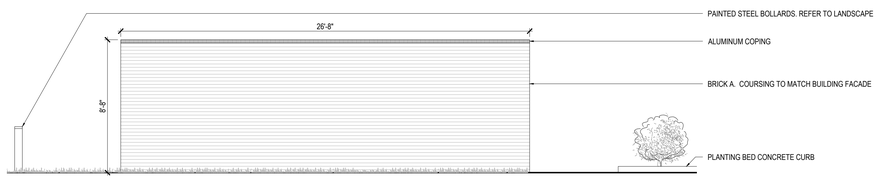
Sheet
A1.32



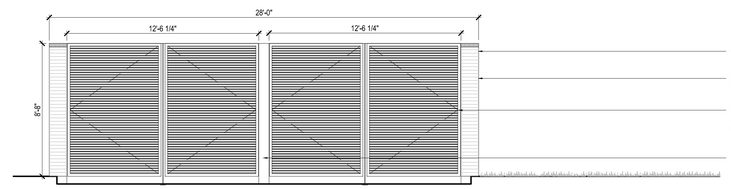
5 SECTION — TYPICAL TRASH ENCLOSURE WALL
1" = 1'-0"



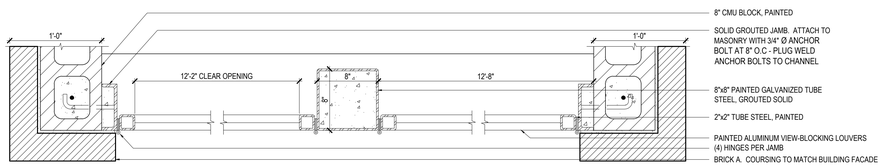
1 ENLARGED PLAN — TRASH ENCLOSURE
1/4" = 1'-0"



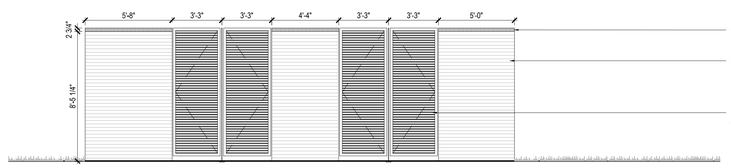
6 NORTH ELEVATION — TRASH ENCLOSURE
1/4" = 1'-0"



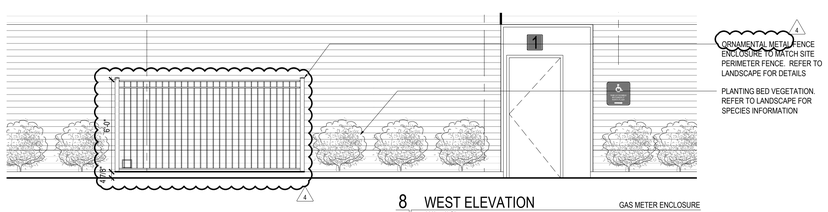
2 EAST ELEVATION — TRASH ENCLOSURE
1/4" = 1'-0"



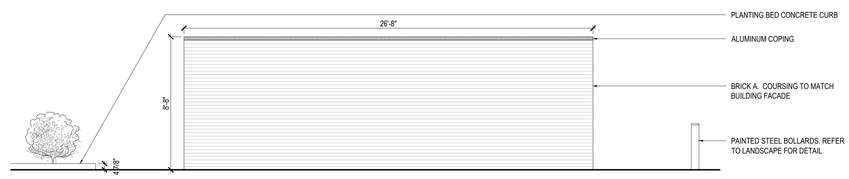
7 DETAIL — ENCLOSURE GATE HINGES
1-1/2" = 1'-0"



3 WEST ELEVATION — TRASH ENCLOSURE
1/4" = 1'-0"



8 WEST ELEVATION — GAS METER ENCLOSURE
1/4" = 1'-0"



4 SOUTH ELEVATION — TRASH ENCLOSURE
1/4" = 1'-0"

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Chicago Public Schools

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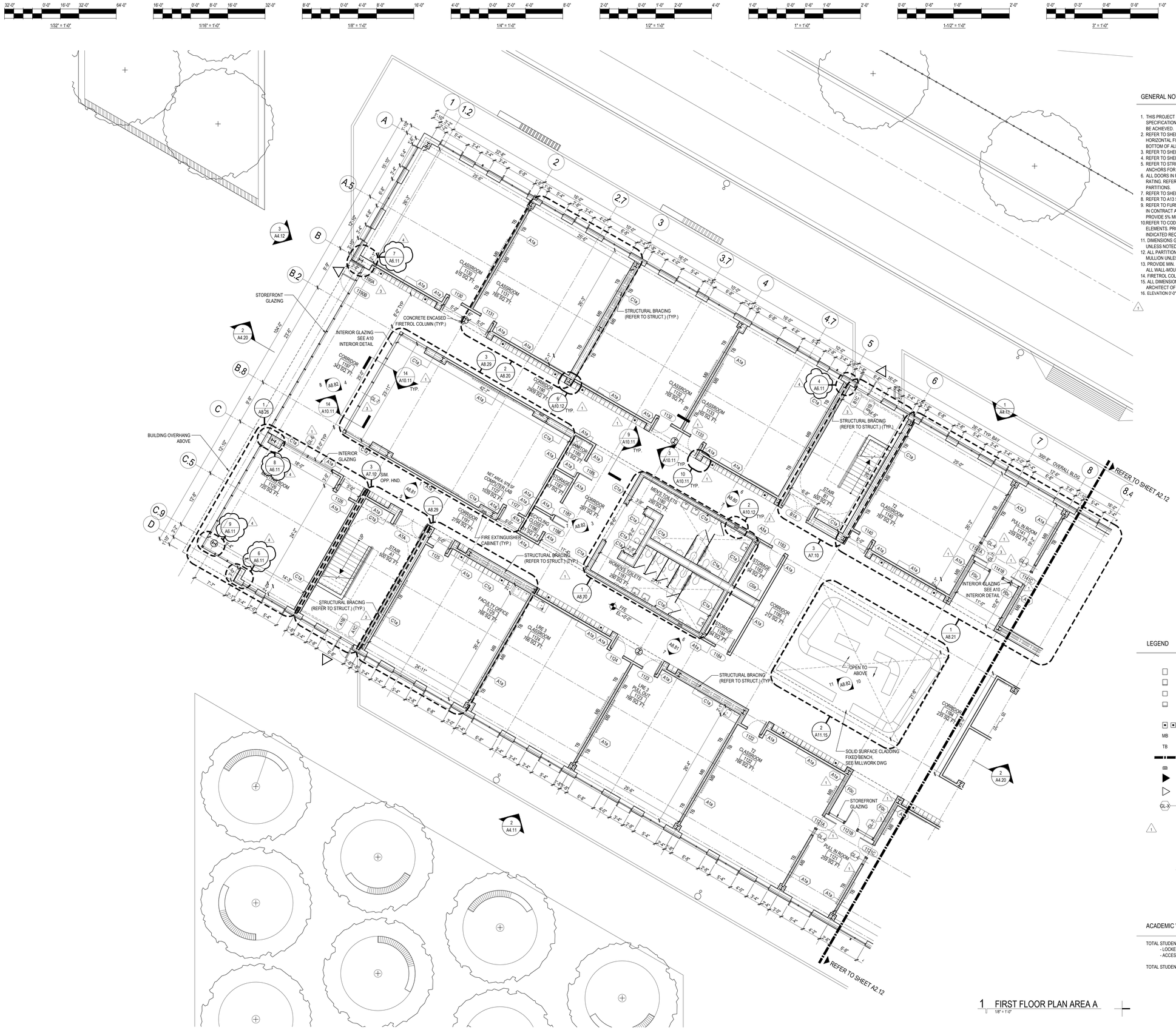
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No.: 05165
Project No.: N/A

Title
ENLARGED TRASH ENCLOSURE DETAILS

Sheet
A1.33



1 FIRST FLOOR PLAN AREA A
1/8" = 1'-0"

GENERAL NOTES

1. THIS PROJECT IS DESIGNED TO ACHIEVE A LEED CERTIFIED DESIGNATION. REFER TO SPECIFICATIONS AND LEED CHART FOR SPECIFIC CREDITS THAT WILL BE REQUIRED TO BE ACHIEVED.
2. REFER TO SHEETS G1.10 THROUGH G1.30 FOR REQUIRED FIRE RATINGS AT PARTITIONS. HORIZONTAL FIRE-RATED SHAFTWALL CONSTRUCTION SHALL BE PROVIDED AT THE BOTTOM OF ALL SHAFTS.
3. REFER TO SHEET A1 SERIES FOR SITE INFORMATION.
4. REFER TO SHEET A9.10 FOR PARTITIONS TYPES INDICATED THUS: A0a
5. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT, DOWELS AND HEAD ANCHORS FOR MASONRY PARTITIONS
6. ALL DOORS IN FIRE-RATED PARTITIONS TO BE UL LABELED AS REQUIRED FOR WALL RATING. REFER TO SHEETS G1.10 THROUGH G1.30 FOR REQUIRED FIRE RATINGS AT PARTITIONS.
7. REFER TO SHEET A12 SERIES FOR DOOR SCHEDULE FOR DOORS TAGGED THUS: XXX
8. REFER TO A13 SERIES DRAWINGS FOR FINISH SCHEDULE AND FINISH PLANS.
9. REFER TO FURNITURE PLANS FOR PROPOSED FURNITURE LAYOUT. FURNITURE IS NOT IN CONTRACT AND PLANS ARE PROVIDED FOR INFORMATION ONLY. OWNER SHALL PROVIDE 5% MINIMUM ACCESSIBLE SEATING.
10. REFER TO CODE MATRIX FOR REQUIRED HOURS OF FIRE RESISTANCE OF BUILDING ELEMENTS. PROVIDE ASSEMBLIES HAVING UL RATINGS MEETING OR EXCEEDING INDICATED REQUIREMENTS.
11. DIMENSIONS GIVEN FOR ROOM LAYOUT ARE TO FACE OF DRYWALL PARTITIONS UNLESS NOTED OTHERWISE.
12. ALL PARTITIONS ABUTTING EXTERIOR MULLIONS SHALL BE CENTERED ON THE MULLION UNLESS NOTED OTHERWISE.
13. PROVIDE MIN. 16 GA GALVANIZED STEEL SHEET METAL BLOCKING IN PARTITIONS AT ALL WALL-MOUNTED ITEMS.
14. FIRETROL COLUMNS TO BE UL LISTED FOR 3HR RATING. REFER TO CODE MATRIX.
15. ALL DIMENSIONS INDICATED ARE TO BE HELD UNLESS NOTED OTHERWISE. NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH LAYOUT.
16. ELEVATION 0'-0" = 58.38 CCD

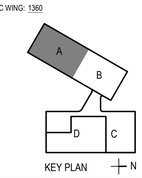
LEGEND

- LOCKER 12"x15"x36" 2-TIER
- STAFF/TEACHER/COACH LOCKER 12"x15"x72" 1-TIER
- GYM LOCKER 12"x12"x30" 2-TIER
- GYM LOCKER 12"x12"x60" 1-TIER
- ADA LOCKER
- MB — MARKER BOARD 12'x4' U.N.O.
- TB — TACK BOARD 4'x4' U.N.O.
- MATCH LINE
- FIRE EXTINGUISHER CABINET
- ENTRANCE/ EXIT
- EXIT ONLY
- GL-X — GLAZING TYPE:
  1. GL-1: LOW E--COATED, CLEAR INSULATING GLASS AT EXT. WINDOWS & WINDOW WALLS
  2. GL-2: LOW-E-COATED, CLEAR INSULATING GLASS WITH CERAMIC FRIT PATTERN
  3. GL-3: CERAMIC FIRE-PROTECTIVE RATED SAFETY CLASS (FR-45 MINS)
  4. GL-4: KIND FT (FULLY TEMPERED), CLEAR GLASS
  5. GL-5: ACOUSTIC, FIRE-PROTECTIVE RATED INSULATED GLASS UNIT (FR-60 MINS)
  6. GL-6: FIRE-RESISTIVE RATED SAFETY GLASS UNIT (FR-60 MINS)
  7. GL-7: ACOUSTIC, FIRE RESISTIVE INSULATED GLASS UNIT(FR-60 MINS)

ACADEMIC WING LOCKER COUNT

TOTAL STUDENT LOCKERS FIRST FLOOR: 378
- LOCKERS (DOUBLE TIER): 356
- ACCESIBLE LOCKERS: 22

TOTAL STUDENT LOCKERS ON ACADEMIC WING: 1360



KEY PLAN

READ DUNNING SCHOOL

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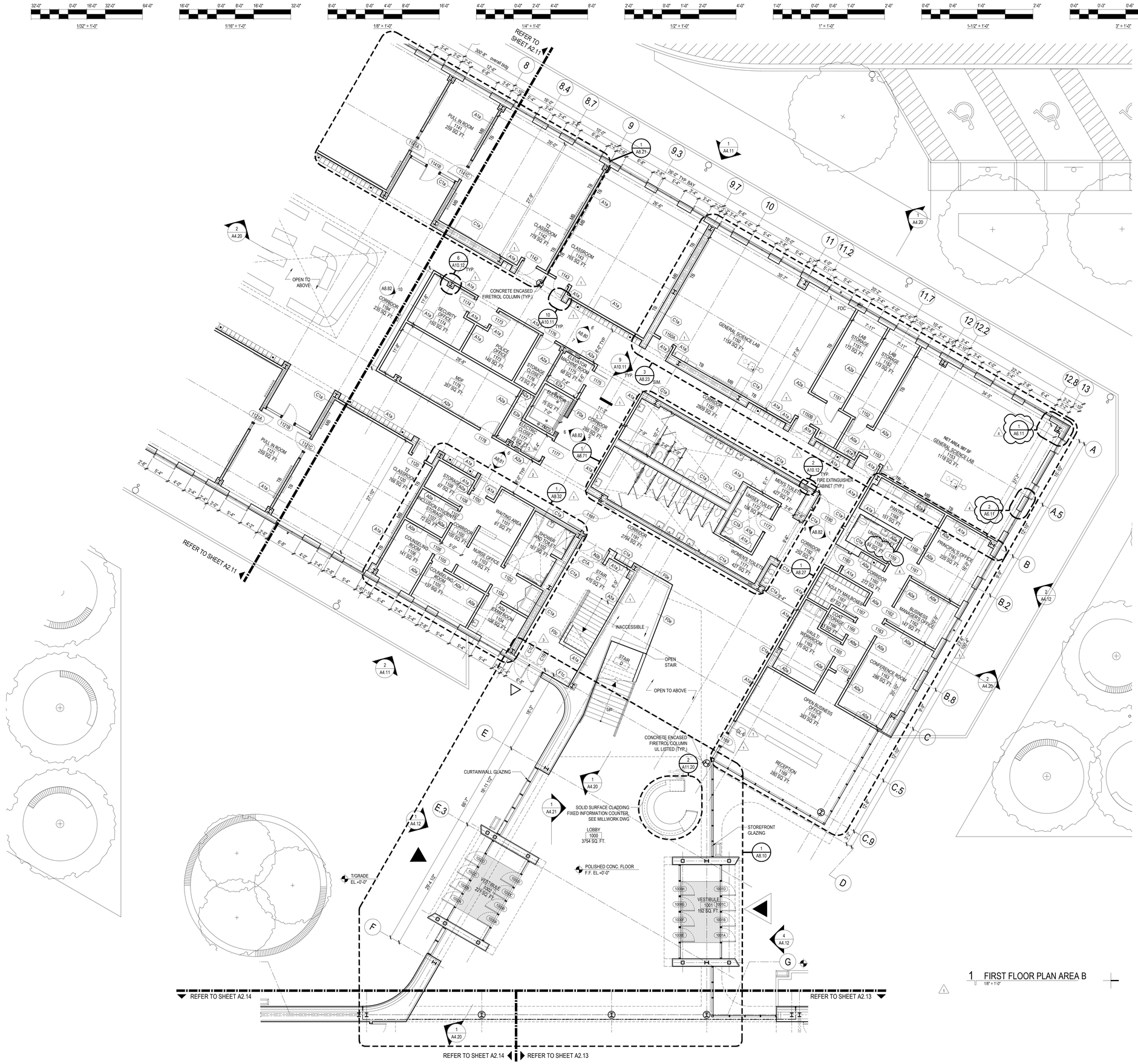
	DESIGN DEVELOPMENT	6/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No.: 05165
Project No.: N/A

Title: FIRST FLOOR PLAN ACADEMIC WING AREA A

Sheet: A2.11



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4. REFER TO SHEET A9.10 FOR PARTITIONS TYPES INDICATED THUS: A0a
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16. ELEVATION 0'-0" = 58.38 CCD

LEGEND

- LOCKER 12"x15"x36" 2-TIER
- STAFF/TEACHER/COACH LOCKER 12"x15"x72" 1-TIER
- ADA LOCKER
- MB — MARKER BOARD 12'x4' U.N.O.
- TB — TACK BOARD 4'x4' U.N.O.
- MATCH LINE
- FIRE EXTINGUISHER CABINET
- ENTRANCE/ EXIT
- MAIN ENTRANCE
- EXIT ONLY
- FIRE DEPARTMENT CONNECTION
- GL-X — GLAZING TYPE:
  1. GL-1: LOW E--COATED, CLEAR INSULATING GLASS AT EXT. WINDOWS & WINDOW WALLS
  2. GL-2: LOW-E-COATED, CLEAR INSULATING GLASS WITH CERAMIC FRIT PATTERN
  3. GL-3: CERAMIC FIRE-PROTECTIVE RATED SAFETY CLASS (FR-45 MINS)
  4. GL-4: KIND FT (FULLY TEMPERED), CLEAR GLASS
  5. GL-5: ACOUSTIC, FIRE-PROTECTIVE RATED INSULATED GLASS UNIT (FR-60 MINS)
  6. GL-6: FIRE-RESISTIVE RATED SAFETY GLASS UNIT (FR-60 MINS)
  7. GL-7: ACOUSTIC, FIRE RESISTIVE INSULATED GLASS UNIT(FR-60 MINS)

1 FIRST FLOOR PLAN AREA B
1/8" = 1'-0"

KEY PLAN

READ DUNNING SCHOOL

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CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
STL ARCHITECTS

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220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

Issuance

Mark	Description	Date
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2	ADD# & PERMIT REV	02/07/2018
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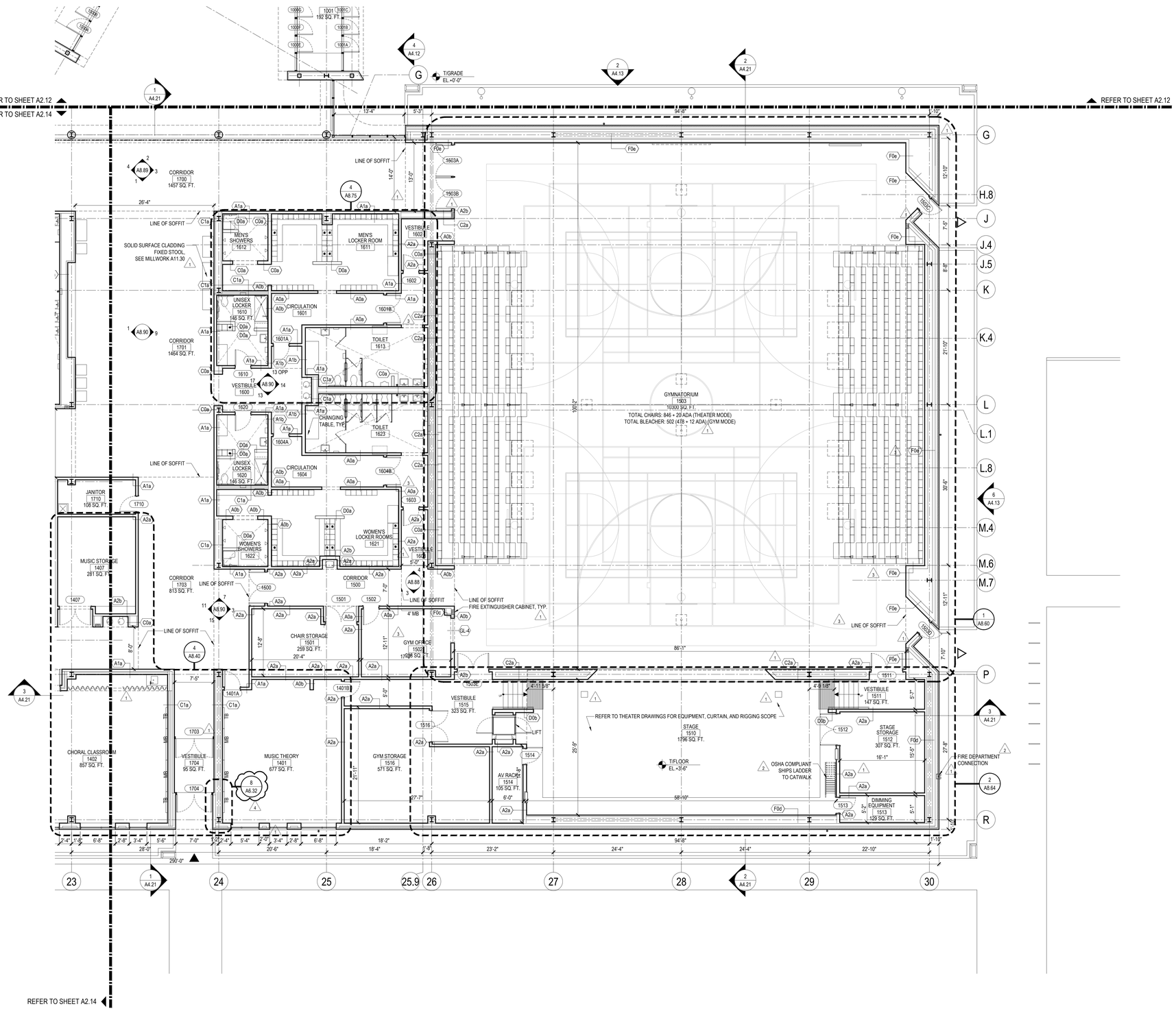
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD RESISSUE	9/22/2017
	DESIGN DEVELOPMENT	6/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title: FIRST FLOOR PLAN ACADEMIC WING AREA B

Sheet: A2.12



1 FIRST FLOOR PLAN AREA C
1/8" = 1'-0"

GENERAL NOTES

1. THIS PROJECT IS DESIGNED TO ACHIEVE A LEED CERTIFIED DESIGNATION. REFER TO SPECIFICATIONS AND LEED CHART FOR SPECIFIC CREDITS THAT WILL BE REQUIRED TO BE ACHIEVED.
2. REFER TO SHEETS G1.10 THROUGH G1.30 FOR REQUIRED FIRE RATINGS AT PARTITIONS. HORIZONTAL FIRE-RATED SHAFTWALL CONSTRUCTION SHALL BE PROVIDED AT THE BOTTOM OF ALL SHAFTS.
3. REFER TO SHEET A1 SERIES FOR SITE INFORMATION.
4. REFER TO SHEET A9.10 FOR PARTITIONS TYPES INDICATED THUS: (A0a)
5. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT, DOWELS AND HEAD ANCHORS FOR MASONRY PARTITIONS
6. ALL DOORS IN FIRE-RATED PARTITIONS TO BE UL LABELED AS REQUIRED FOR WALL RATING. REFER TO SHEETS G1.10 THROUGH G1.30 FOR REQUIRED FIRE RATINGS AT PARTITIONS.
7. REFER TO SHEET A12 SERIES FOR DOOR SCHEDULE FOR DOORS TAGGED THUS: (XXX)
8. REFER TO A13 SERIES DRAWINGS FOR FINISH SCHEDULE AND FINISH PLANS.
9. REFER TO FURNITURE PLANS FOR PROPOSED FURNITURE LAYOUT. FURNITURE IS NOT IN CONTRACT AND PLANS ARE PROVIDED FOR INFORMATION ONLY. OWNER SHALL PROVIDE 5% MINIMUM ACCESSIBLE SEATING.
10. REFER TO CODE MATRIX FOR REQUIRED HOURS OF FIRE RESISTANCE OF BUILDING ELEMENTS. PROVIDE ASSEMBLIES HAVING UL RATINGS MEETING OR EXCEEDING INDICATED REQUIREMENTS.
11. DIMENSIONS GIVEN FOR ROOM LAYOUT ARE TO FACE OF DRYWALL PARTITIONS UNLESS NOTED OTHERWISE.
12. ALL PARTITIONS ABUTTING EXTERIOR MULLIONS SHALL BE CENTERED ON THE MULLION UNLESS NOTED OTHERWISE.
13. PROVIDE MIN. 16 GA GALVANIZED STEEL SHEET METAL BLOCKING IN PARTITIONS AT ALL WALL-MOUNTED ITEMS.
14. FIRETROL COLUMNS TO BE UL LISTED FOR 3HR RATING. REFER TO CODE MATRIX.
15. ALL DIMENSIONS INDICATED ARE TO BE HELD UNLESS NOTED OTHERWISE. NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH LAYOUT.
16. ELEVATION 0'-0" = 58.38 CCD

LEGEND

- LOCKER 12"x15"x36" 2-TIER
- STAFF/TEACHER/COACH LOCKER 12"x15"x72" 1-TIER
- GYM LOCKER 12"x12"x30" 2-TIER
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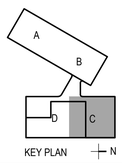

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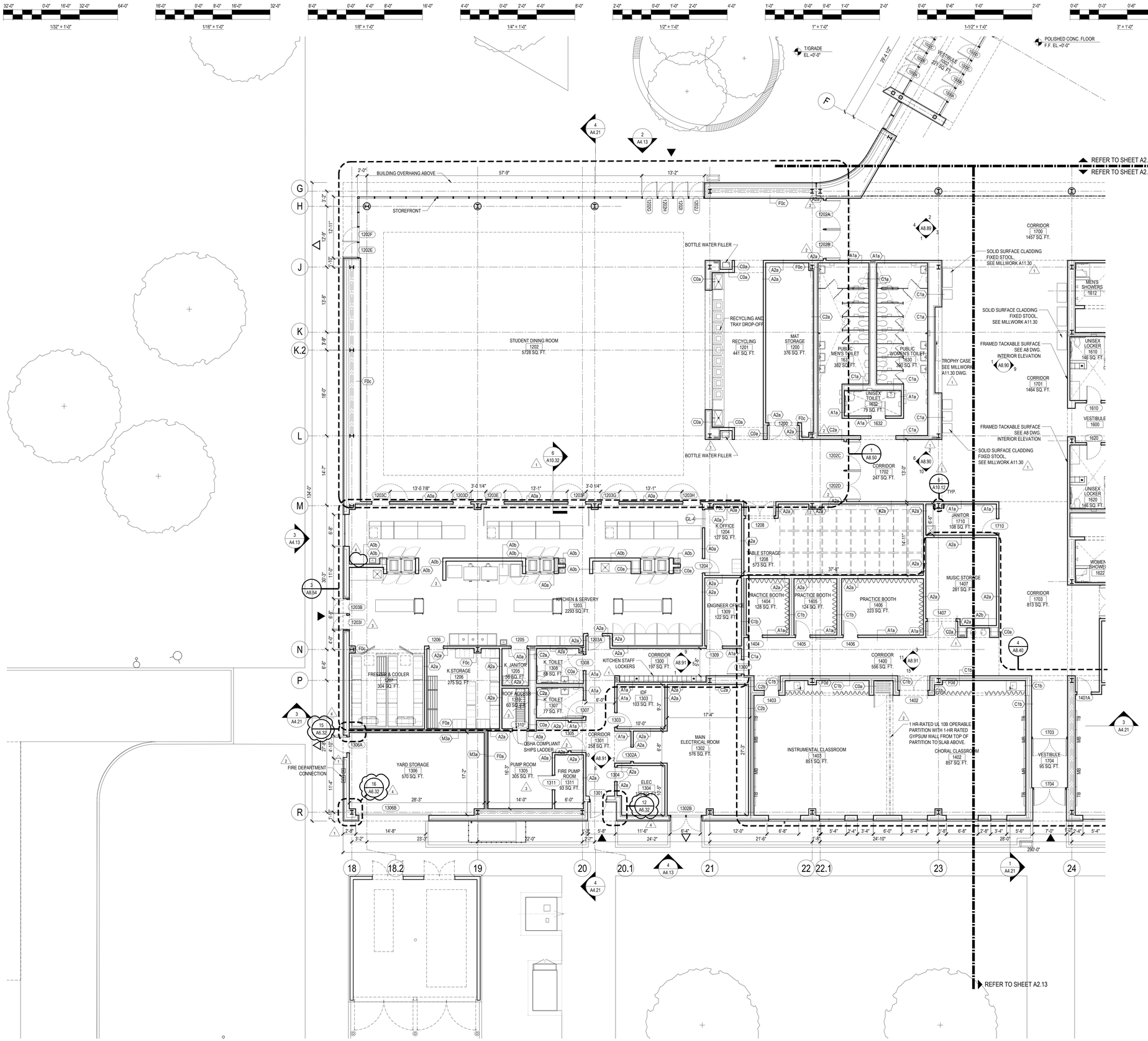
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
FIRST FLOOR PLAN
GYM WING
AREA C

Sheet
A2.13



1 FIRST FLOOR PLAN AREA D
1/8" = 1'-0"

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1

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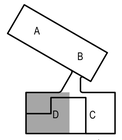
- 1 ADDED MISSING PARTITION TAGS.



KEY PLAN

READ DUNNING SCHOOL

4071 N. OAK PARK AVENUE
CHICAGO, IL 60634

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
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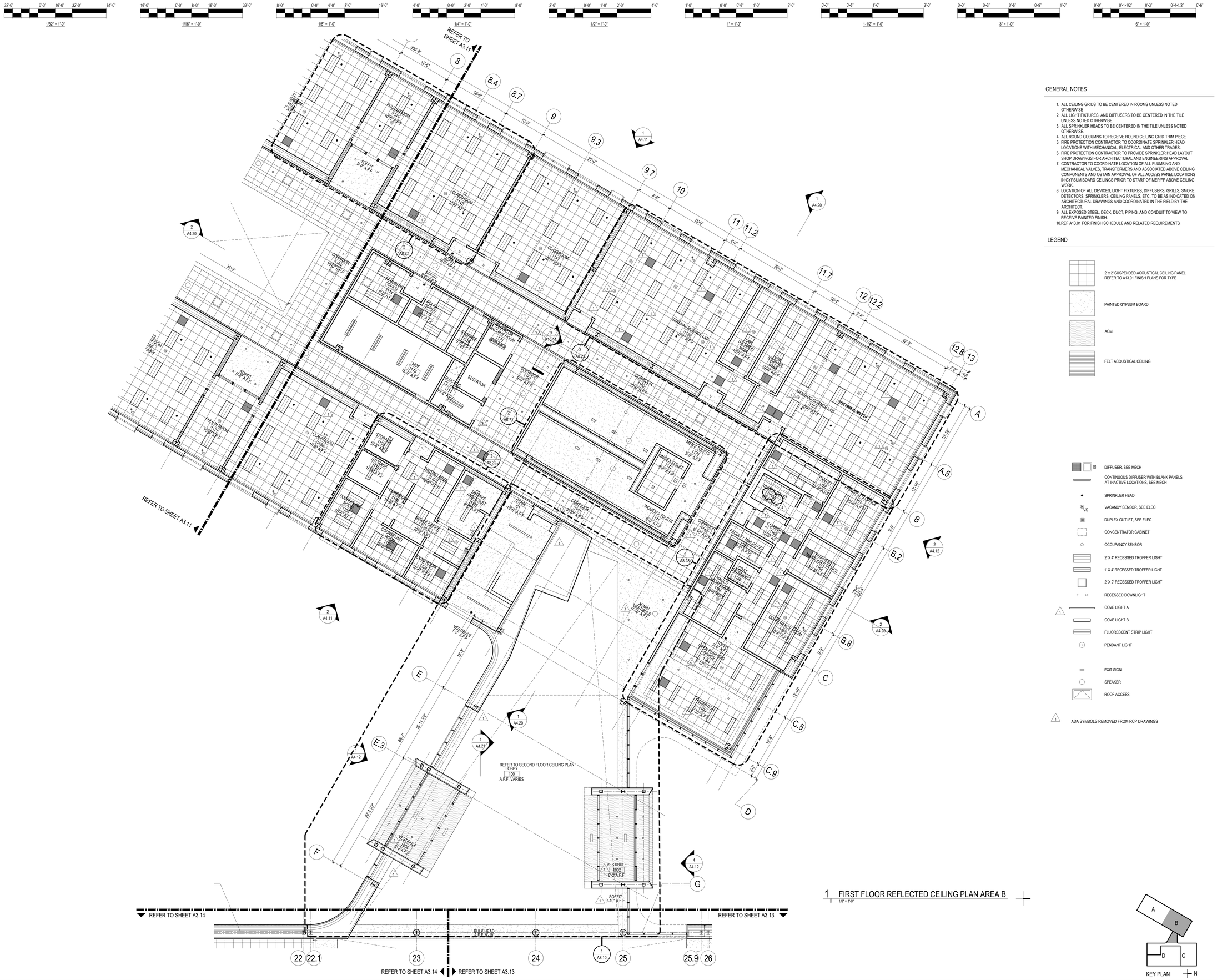
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
FIRST FLOOR PLAN
GYM WING
AREA D

Sheet
A2.14



1 FIRST FLOOR REFLECTED CEILING PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES

1. ALL CEILING GRIDS TO BE CENTERED IN ROOMS UNLESS NOTED OTHERWISE
2. ALL LIGHT FIXTURES, AND DIFFUSERS TO BE CENTERED IN THE TILE UNLESS NOTED OTHERWISE.
3. ALL SPRINKLER HEADS TO BE CENTERED IN THE TILE UNLESS NOTED OTHERWISE.
4. ALL ROUND COLUMNS TO RECEIVE ROUND CEILING GRID TRIM PIECE
5. FIRE PROTECTION CONTRACTOR TO COORDINATE SPRINKLER HEAD LOCATIONS WITH MECHANICAL, ELECTRICAL AND OTHER TRADES.
6. FIRE PROTECTION CONTRACTOR TO PROVIDE SPRINKLER HEAD LAYOUT SHOP DRAWINGS FOR ARCHITECTURAL AND ENGINEERING APPROVAL
7. CONTRACTOR TO COORDINATE LOCATION OF ALL PLUMBING AND MECHANICAL VALVES, TRANSFORMERS AND ASSOCIATED ABOVE CEILING COMPONENTS AND OBTAIN APPROVAL OF ALL ACCESS PANEL LOCATIONS IN GYPSUM BOARD CEILINGS PRIOR TO START OF MEP/FP ABOVE CEILING WORK.
8. LOCATION OF ALL DEVICES, LIGHT FIXTURES, DIFFUSERS, GRILLS, SMOKE DETECTORS, SPRINKLERS, CEILING PANELS, ETC. TO BE AS INDICATED ON ARCHITECTURAL DRAWINGS AND COORDINATED IN THE FIELD BY THE ARCHITECT.
9. ALL EXPOSED STEEL, DECK, DUCT, PIPING, AND CONDUIT TO VIEW TO RECEIVE PAINTED FINISH.
10. REF A13.01 FOR FINISH SCHEDULE AND RELATED REQUIREMENTS

LEGEND

- 2' x 2' SUSPENDED ACOUSTICAL CEILING PANEL REFER TO A13.01 FINISH PLANS FOR TYPE
- PAINTED GYPSUM BOARD
- ACM
- FELT ACOUSTICAL CEILING
- DIFFUSER, SEE MECH
- CONTINUOUS DIFFUSER WITH BLANK PANELS AT INACTIVE LOCATIONS, SEE MECH
- SPRINKLER HEAD
- VS VACANCY SENSOR, SEE ELEC
- DUPLEX OUTLET, SEE ELEC
- CONCENTRATOR CABINET
- OCCUPANCY SENSOR
- 2' X 4' RECESSED TROFFER LIGHT
- 1' X 4' RECESSED TROFFER LIGHT
- 2' X 2' RECESSED TROFFER LIGHT
- RECESSED DOWNLIGHT
- 1 COVE LIGHT A
- COVE LIGHT B
- FLUORESCENT STRIP LIGHT
- PENDANT LIGHT
- EXIT SIGN
- SPEAKER
- ROOF ACCESS
- 1 ADA SYMBOLS REMOVED FROM RCP DRAWINGS

READ DUNNING SCHOOL

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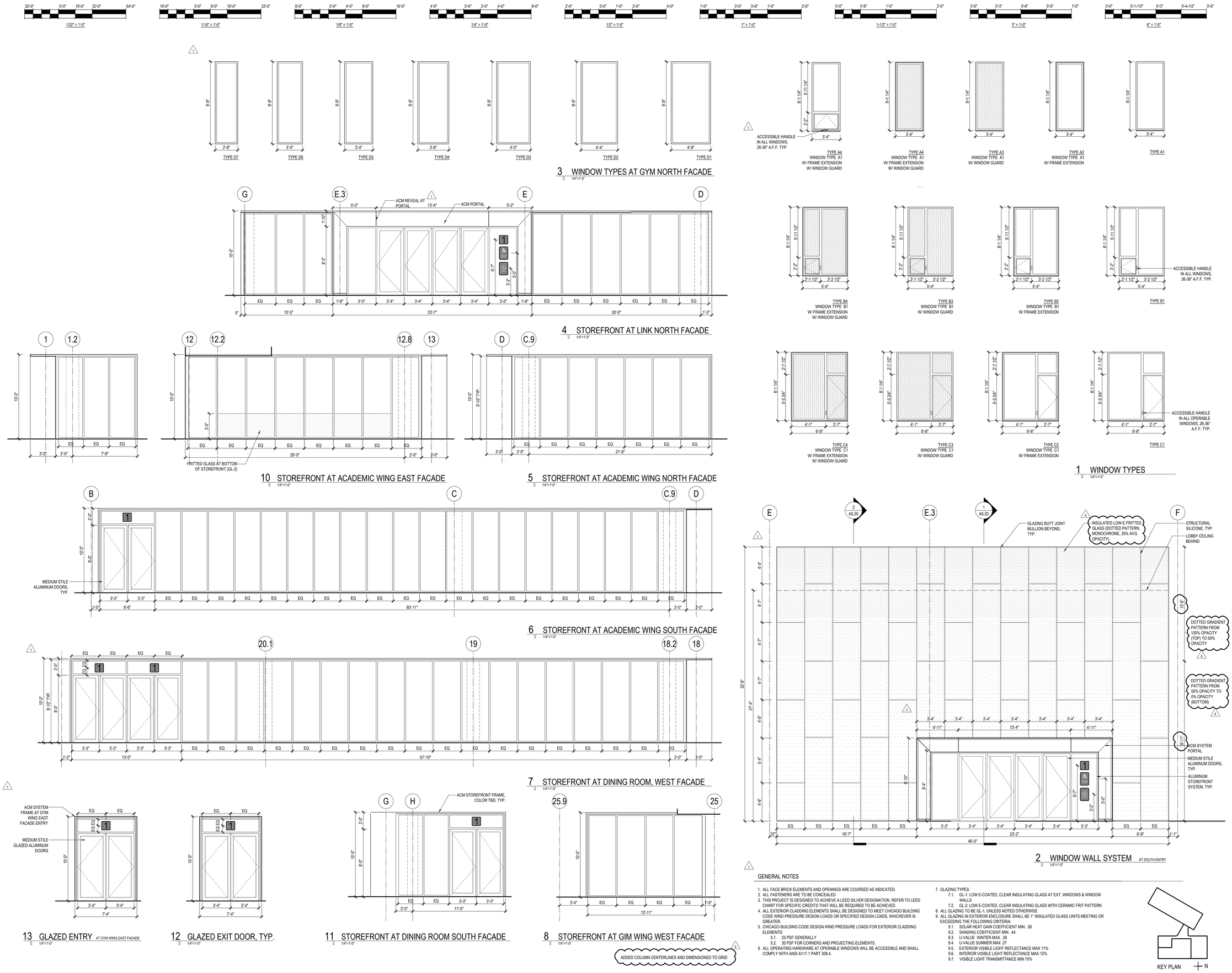
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
FIRST FLOOR REFLECTED CEILING PLAN ACADEMIC WING AREA B

Sheet
A3.12

KEY PLAN



GENERAL NOTES

1. ALL FACE BRICK ELEMENTS AND OPENINGS ARE COURSED AS INDICATED.
2. ALL FASTENERS ARE TO BE CONCEALED.
3. THIS PROJECT IS DESIGNED TO ACHIEVE A LEED SILVER DESIGNATION. REFER TO LEED CHART FOR SPECIFIC CREDITS THAT WILL BE REQUIRED TO BE ACHIEVED.
4. ALL EXTERIOR CLADDING ELEMENTS SHALL BE DESIGNED TO MEET CHICAGO BUILDING CODE WIND PRESSURE DESIGN LOADS OR SPECIFIED DESIGN LOADS, WHICHEVER IS GREATER.
5. CHICAGO BUILDING CODE DESIGN WIND PRESSURE LOADS FOR EXTERIOR CLADDING ELEMENTS:
   - 5.1. 25 PSF GENERALLY
   - 5.2. 30 PSF FOR CORNERS AND PROJECTING ELEMENTS.
6. ALL OPERATING HARDWARE AT OPERABLE WINDOWS WILL BE ACCESSIBLE AND SHALL COMPLY WITH ANSI A117.1 PART 309.4.
7. GLAZING TYPES:
   - 7.1. GL-1: LOW E-COATED, CLEAR INSULATING GLASS AT EXT. WINDOWS & WINDOW WALLS
   - 7.2. GL-2: LOW E-COATED, CLEAR INSULATING GLASS WITH CERAMIC FRIT PATTERN
8. ALL GLAZING TO BE GL-1, UNLESS NOTED OTHERWISE
9. ALL GLAZING IN EXTERIOR ENCLOSURE SHALL BE 1" INSULATED GLASS UNITS MEETING OR EXCEEDING THE FOLLOWING CRITERIA:
   - 9.1. SOLAR HEAT GAIN COEFFICIENT MIN. .38
   - 9.2. SHADING COEFFICIENT MIN. .44
   - 9.3. U-VALUE WINTER MAX. .29
   - 9.4. U-VALUE SUMMER MAX .27
   - 9.5. EXTERIOR VISIBLE LIGHT REFLECTANCE MAX 11%
   - 9.6. INTERIOR VISIBLE LIGHT REFLECTANCE MAX 12%
   - 9.7. VISIBLE LIGHT TRANSMITTANCE MIN 70%

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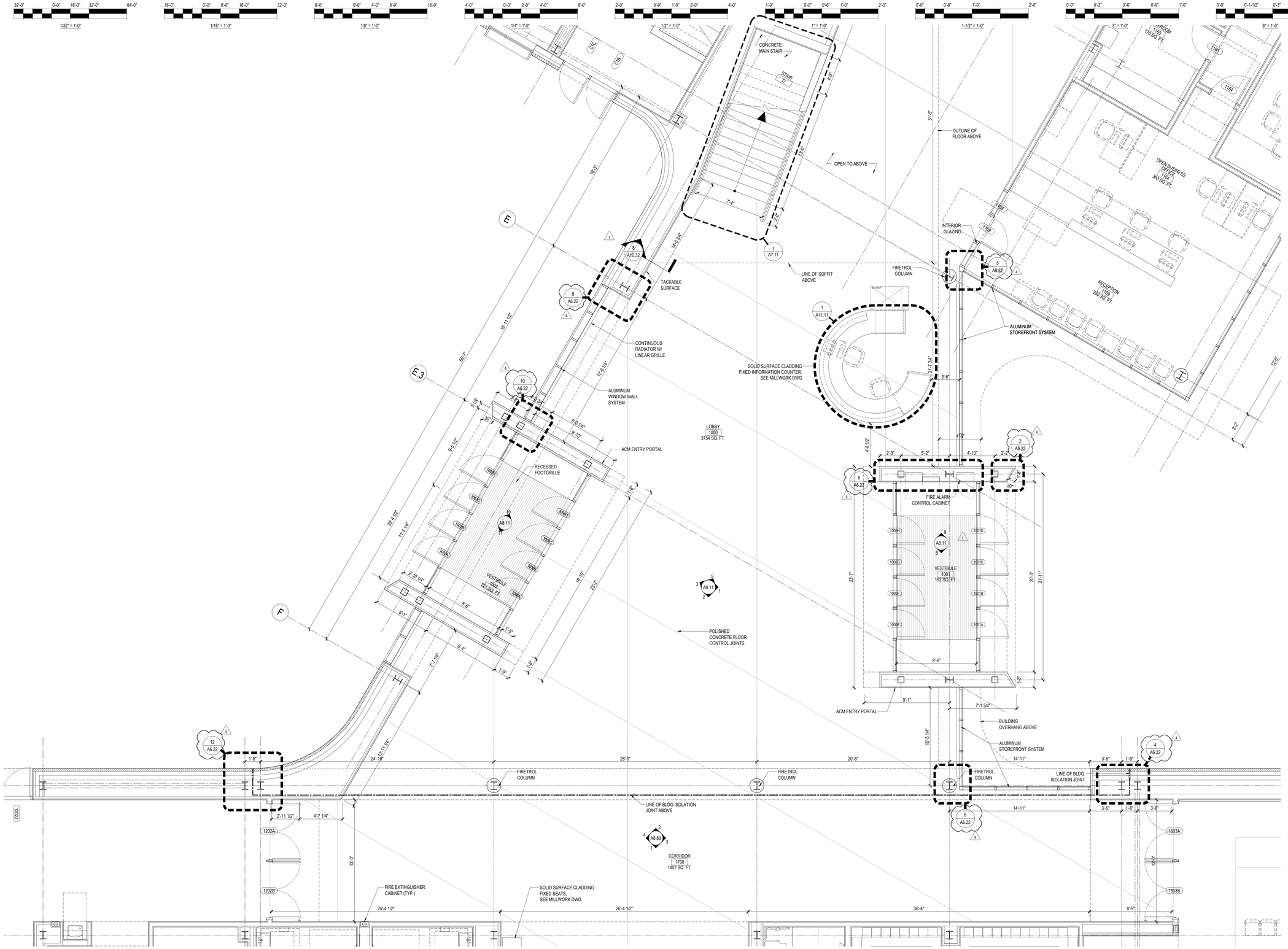
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
WINDOW TYPES, STOREFRONTS AND WINDOW WALL

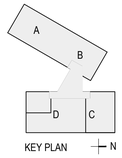
Sheet
A4.14



1 ENLARGED PLAN LINK / ENTRY
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO A12.X FOR GLAZING TYPES
2. REFER TO A9.1X SERIES FOR PARTITION TYPE
3. REFER TO A12.1X SERIES FOR DOOR SCHEDULE
4. REFER TO A11.XX SERIES FOR MILLWORK DETAILS
5. REFER TO A13.XX SERIES FOR FINISH MATERIALS AND COLORS
6. ALL INTERIOR GLAZING TO BE FIRE-RATED WHERE REQUIRED BY CODE
7. MOUNT INTERIOR DEVICES FOR TYPICAL MOUNTING HEIGHTS ON A8.20 U.N.O.
8. OFFSET DEVICES IN STUD CAVITIES PER 1/A8.20 TYP.
9. FURNITURE SHOWN DASHED IS N.I.C. AND TO BE PROVIDED BY THE OWNER
   9.A. LAYOUT SHOWN PROVIDES MANEUVERING CLEARANCES MEETING ACCESSIBILITY REQUIREMENTS.
   9.B. 5% OF SEATING SHALL BE ACCESSIBLE.



KEY PLAN

PUBLIC BUILDING COMMISSION
Chicago Public Schools

READ DUNNING SCHOOL

4071 N. OAK PARK AVENUE
CHICAGO, IL 60634
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
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Landscape Architects of Record

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MEPFP Engineers of Record

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SCHULER SHOOK
750 N Orleans St # 400, Chicago, IL 60654
Theatre Consultant

EDGE ASSOCIATES INC.
220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

Issuance

Mark	Description	Date
4	ADDENDUM #3	02/28/2018
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1	PERMIT REVISION #1	02/07/2018
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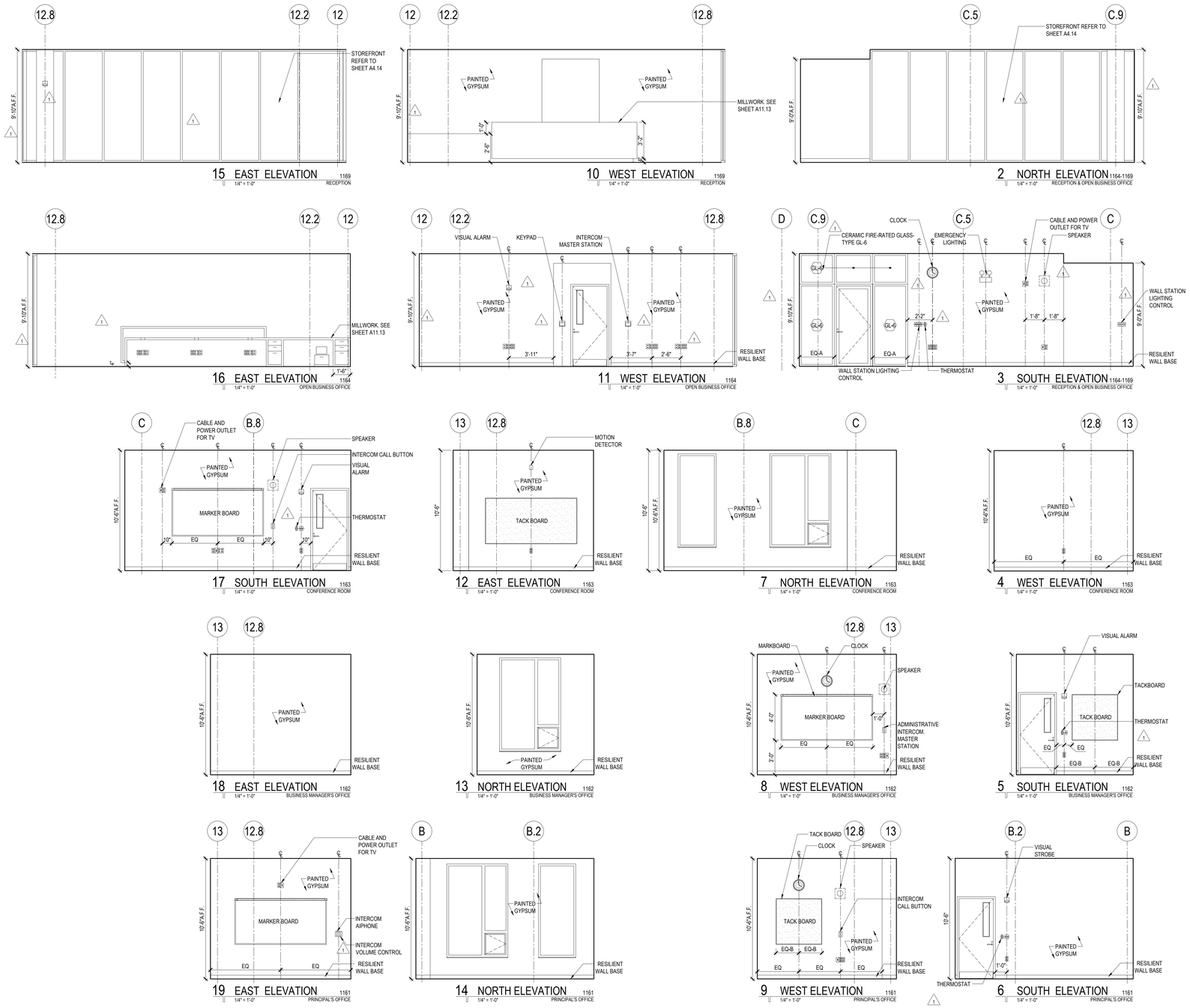
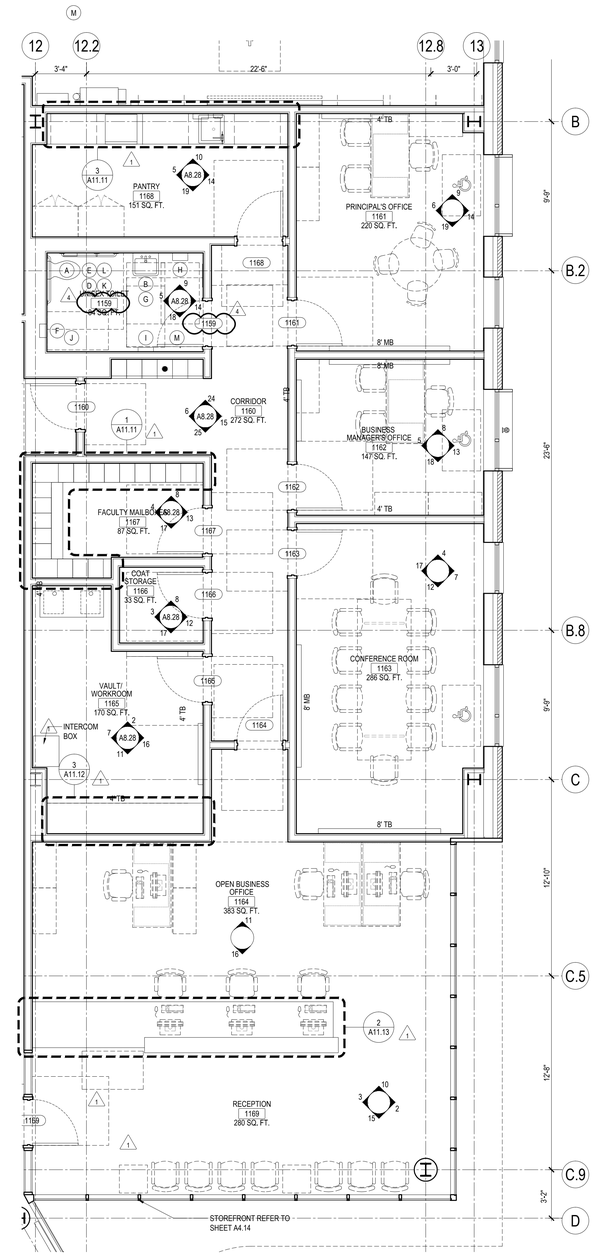
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
ENLARGED PLAN, ELEVATIONS
LINK / MAIN ENTRY

Sheet
A8.10





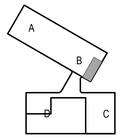
1 RECEPTION & ADMINISTRATION AREA
1/4" = 1'-0"

LEGEND

ADA CLEARANCE SPACE AT ACCESSIBLE WINDOWS

GENERAL NOTES

1. REFER TO A12.X FOR GLAZING TYPES
2. REFER TO A9.1X SERIES FOR PARTITION TYPE
3. REFER TO A12.1X SERIES FOR DOOR SCHEDULE
4. REFER TO A11.XX SERIES FOR MILLWORK DETAILS
5. REFER TO A13.XX SERIES FOR FINISH MATERIALS AND COLORS
6. ALL INTERIOR GLAZING TO BE FIRE-RATED WHERE REQUIRED BY CODE
7. MOUNT INTEROR DEVICES FOR TYPICAL MOUNTING HEIGHTS ON A8.20 U.N.O.
8. OFFSET DEVICES IN STUD CAVITIES PER 1/A8.20 TYP.
9. FURNITURE SHOWN DASHED IS N.I.C. AND TO BE PROVIDED BY THE OWNER
   9.A. LAYOUT SHOWN PROVIDES MANEUVERING CLEARANCES MEETING ACCESSIBILITY REQUIREMENTS.
   9.B. 5% OF SEATING SHALL BE ACCESSIBLE.
10. REFER TO A8.70 FOR TOILET MOUNTING HEIGHTS



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PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
ENLARGED PLAN, RECEPTION & ADMINISTRATION AREA

Sheet
A8.27

LEGEND

2' x 2' SUSPENDED ACOUSTICAL CEILING PANEL

GYPSUM BOARD CEILING

2" x 2"CERAMIC TILES

GENERAL NOTES

1. REFER TO A12.X FOR GLAZING TYPES
2. REFER TO A9.1X SERIES FOR PARTITION TYPE
3. REFER TO A12.1X SERIES FOR DOOR SCHEDULE
4. REFER TO A11.XX SERIES FOR MILLWORK DETAILS
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KEY PLAN

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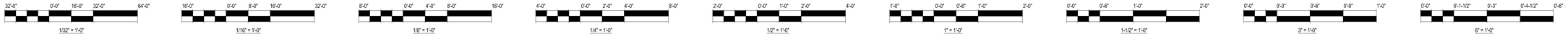
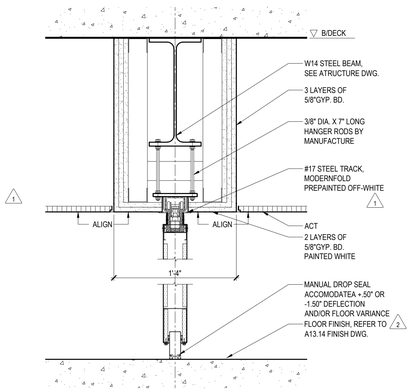
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

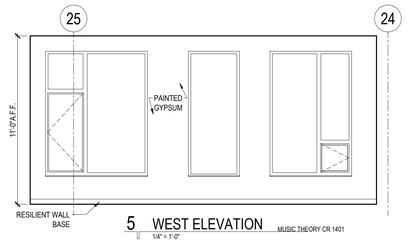
Title
ENLARGED PLAN, RECEPTION & ADMINISTRATION AREA

Sheet
A8.28

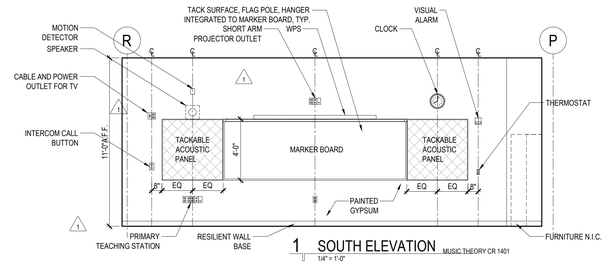




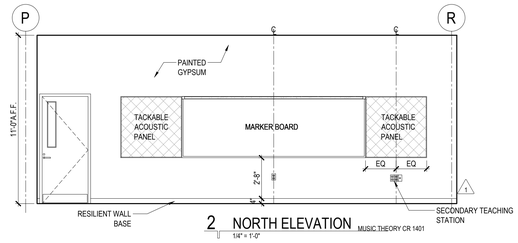
6 DETAIL SECTION MOVABLE PARTITION
1 1/2" = 1'-0"



5 WEST ELEVATION MUSIC THEORY CR 1401
1/4" = 1'-0"

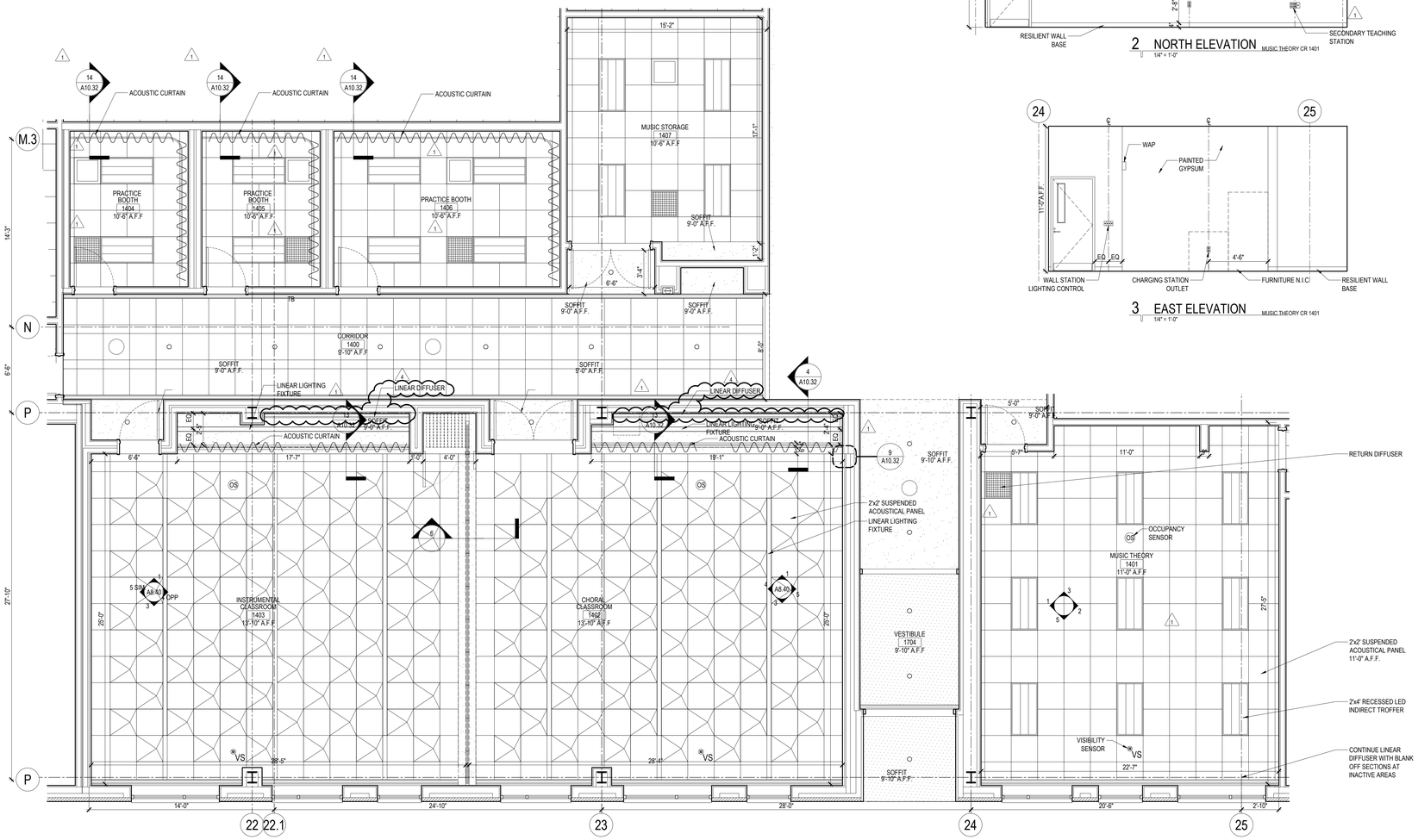


1 SOUTH ELEVATION MUSIC THEORY CR 1401
1/4" = 1'-0"



2 NORTH ELEVATION MUSIC THEORY CR 1401
1/4" = 1'-0"

3 EAST ELEVATION MUSIC THEORY CR 1401
1/4" = 1'-0"



4 MUSIC SUITE ENLARGED RCP 1401-7 SHOWN
1/4" = 1'-0"

MATERIAL LEGEND

2' x 2' SUSPENDED ACOUSTICAL PANEL

GYPSUM BOARD CEILING

GENERAL NOTES

1. REFER TO A12.X FOR GLAZING TYPES
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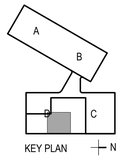

KEY PLAN

PUBLIC BUILDING COMMISSION
Chicago Public Schools

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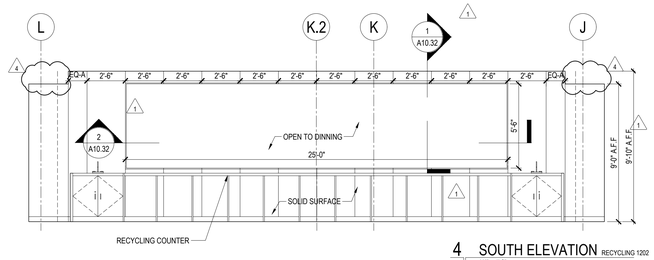
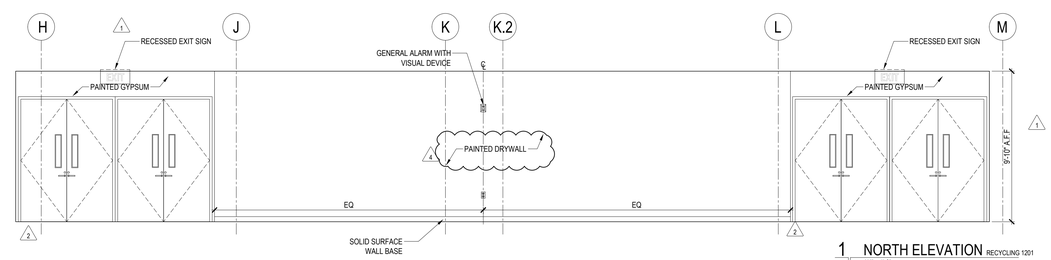
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
ENLARGED REFLECTED CEILING PLAN MUSIC SUITE

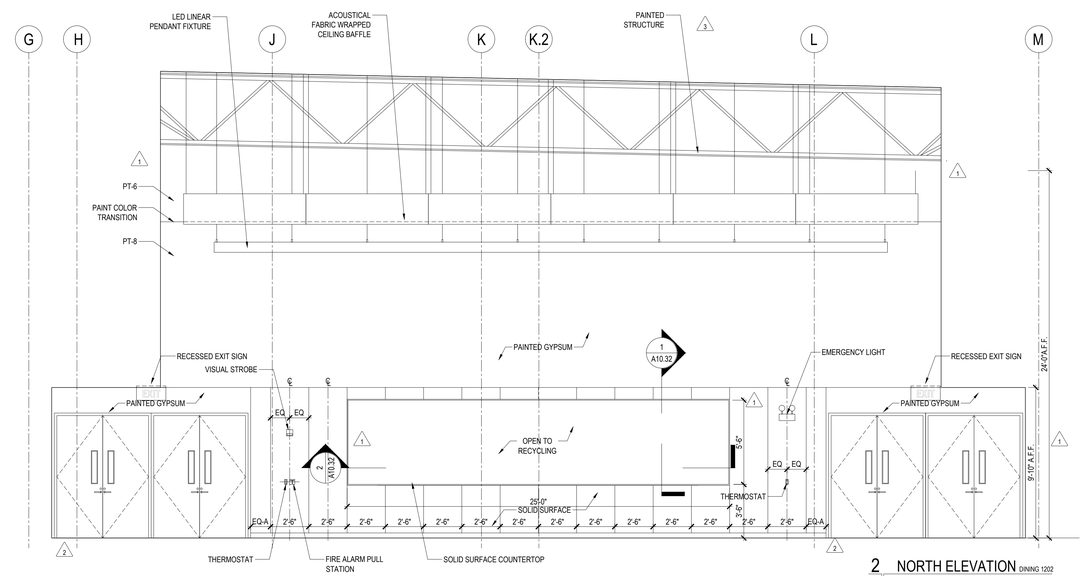
Sheet
A8.41



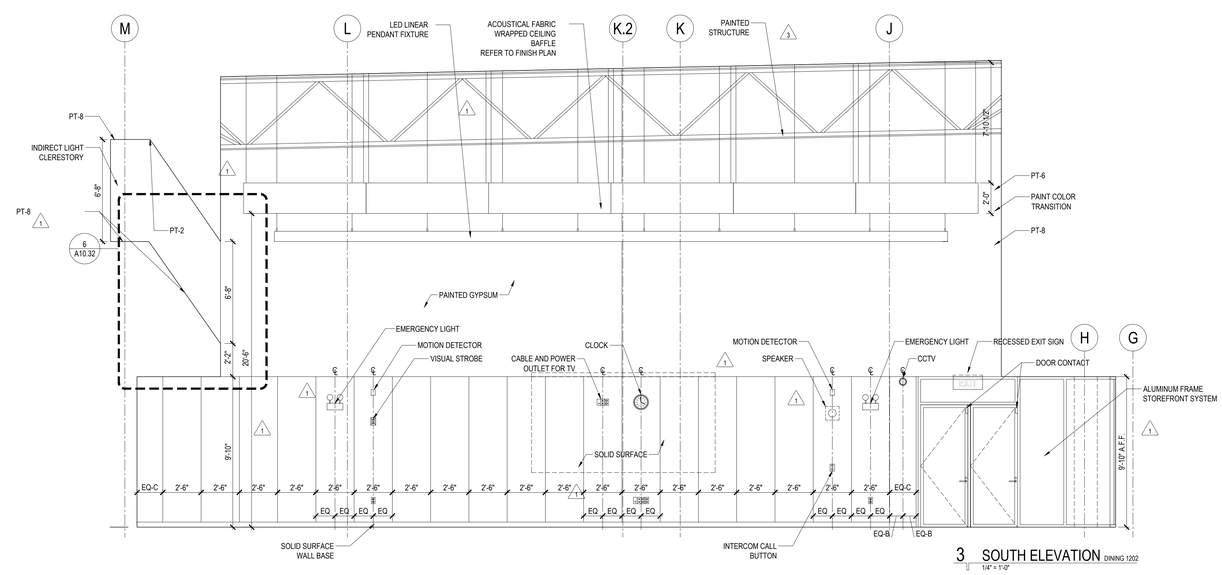
4 SOUTH ELEVATION RECYCLING 1202
1/4" = 1'-0"



1 NORTH ELEVATION RECYCLING 1201
1/4" = 1'-0"



2 NORTH ELEVATION DINING 1202
1/4" = 1'-0"



3 SOUTH ELEVATION DINING 1202
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO A12.X FOR GLAZING TYPES
2. REFER TO A9.1X SERIES FOR PARTITION TYPE
3. REFER TO A12.1X SERIES FOR DOOR SCHEDULE
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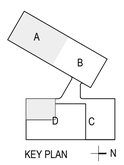
10. REFER TO FOOD SERVICE EQUIPMENT SCHEDULE ON FS1 FOR CONTRACTOR PROVIDED ITEMS



KEY PLAN

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Chicago Public Schools

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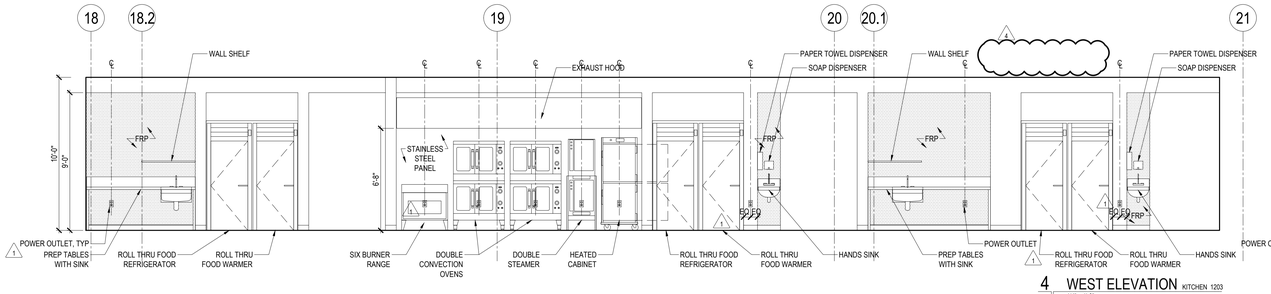
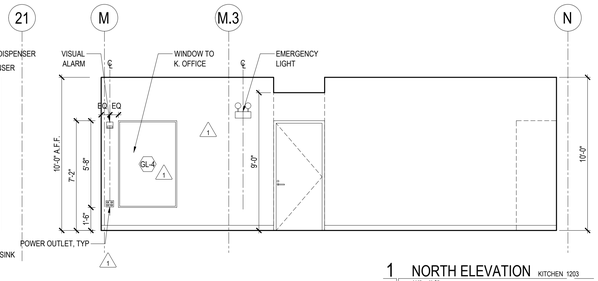
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
ENLARGED PLAN, ELEVATIONS DINING ROOM

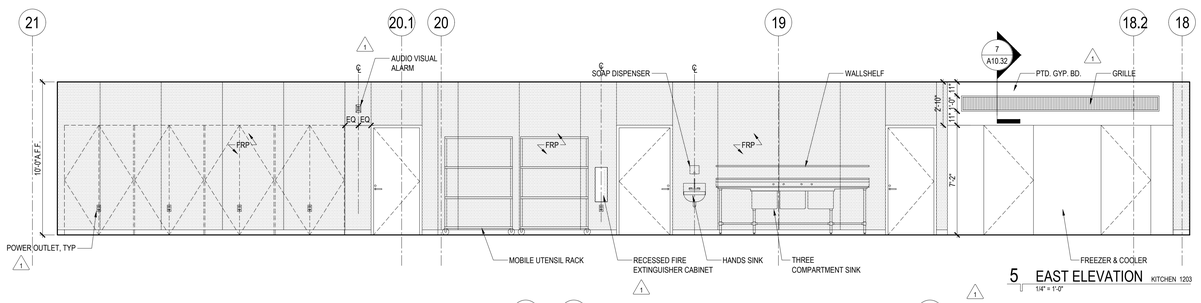
Sheet
A8.52



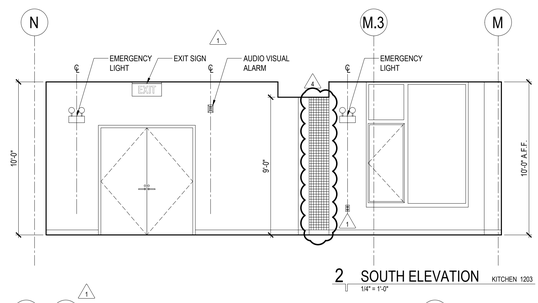
4 WEST ELEVATION KITCHEN 1203
1/4" = 1'-0"



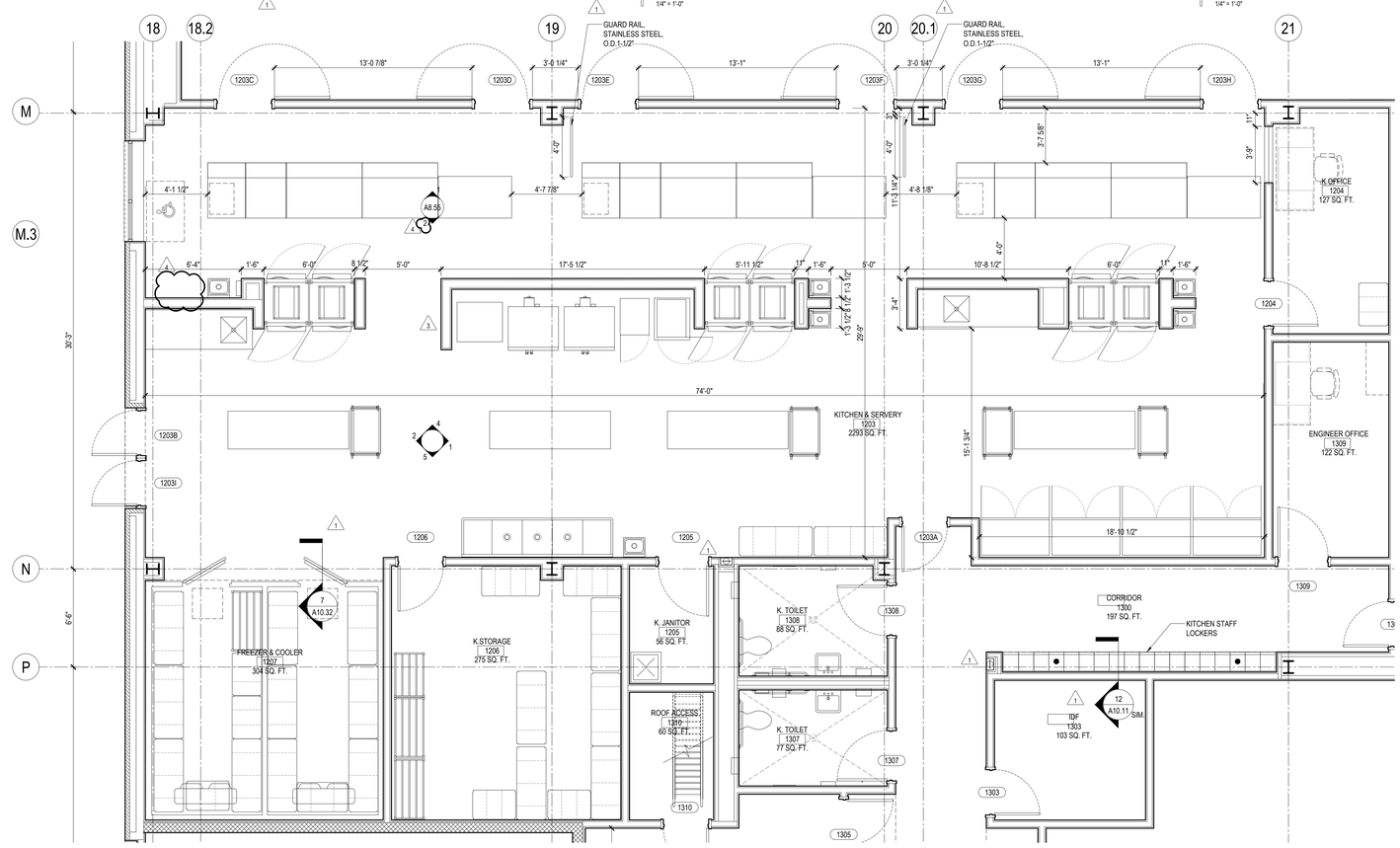
1 NORTH ELEVATION KITCHEN 1203
1/4" = 1'-0"



5 EAST ELEVATION KITCHEN 1203
1/4" = 1'-0"



2 SOUTH ELEVATION KITCHEN 1203
1/4" = 1'-0"



3 ENLARGED PLAN KITCHEN 1203
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO A12.X FOR GLAZING TYPES
2. REFER TO A9.1X SERIES FOR PARTITION TYPE
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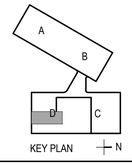
LEGEND

- LOCKER 12"x15"x36" 2-TIER
- STAFF/TEACHER/COACH LOCKER 12"x15"x72" 1-TIER
- ADA LOCKER
- FRP WALL PANEL



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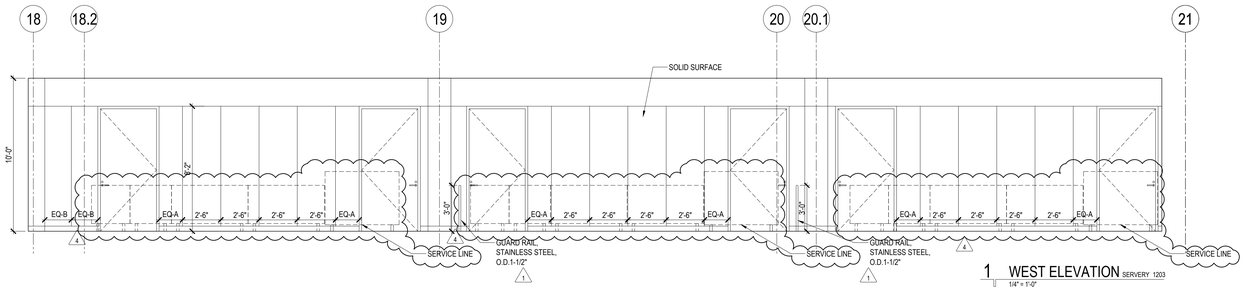
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

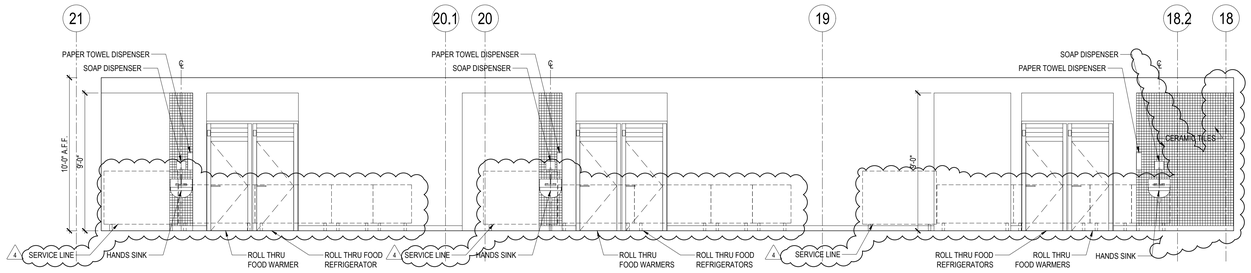
Title
ENLARGED PLAN, ELEVATIONS KITCHEN & SERVERY

Sheet
A8.54

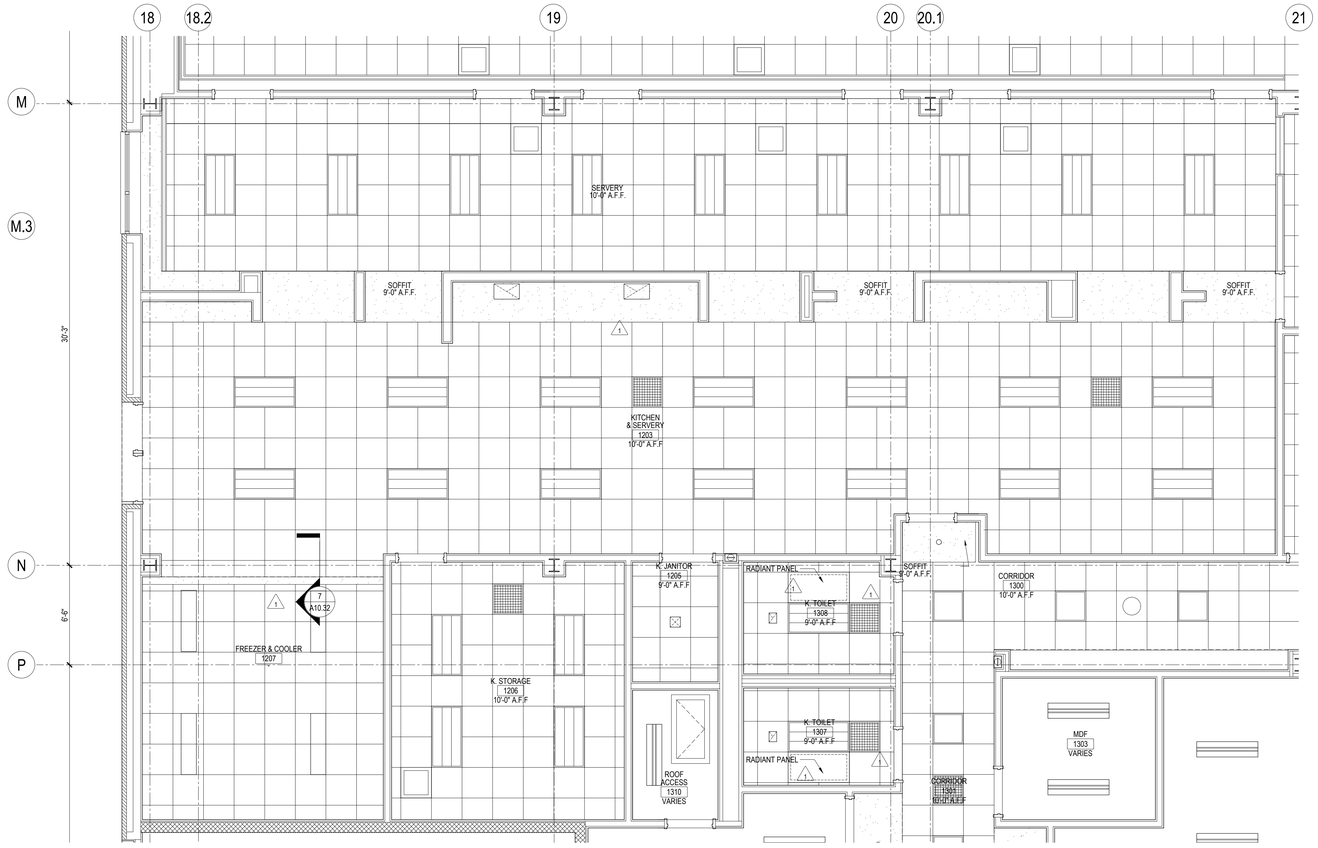
32'-0" 0'-0" 16'-0" 32'-0" 64'-0" 1/32" = 1'-0" | 16'-0" 0'-0" 8'-0" 16'-0" 32'-0" 1/16" = 1'-0" | 8'-0" 0'-0" 4'-0" 8'-0" 16'-0" 1/8" = 1'-0" | 4'-0" 0'-0" 2'-0" 4'-0" 8'-0" 1/4" = 1'-0" | 2'-0" 0'-0" 1'-0" 2'-0" 4'-0" 1/2" = 1'-0" | 1'-0" 0'-0" 0'-6" 1'-0" 2'-0" 1" = 1'-0" | 0'-0" 0'-6" 1'-0" 2'-0" 1-1/2" = 1'-0" | 0'-0" 0'-3" 0'-6" 0'-9" 1'-0" 3" = 1'-0" | 0'-0" 0'-1-1/2" 0'-3" 0'-4-1/2" 0'-6" 6" = 1'-0"



1 WEST ELEVATION SERVERY 1203
1/4" = 1'-0"



2 EAST ELEVATION SERVERY 1203
1/4" = 1'-0"



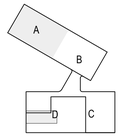
3 ENLARGED RCP KITCHEN 1203
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO A12.X FOR GLAZING TYPES
2. REFER TO A9.1X SERIES FOR PARTITION TYPE
3. REFER TO A12.1X SERIES FOR DOOR SCHEDULE
4. REFER TO A11.XX SERIES FOR MILLWORK DETAILS
5. REFER TO A13.XX SERIES FOR FINISH MATERIALS AND COLORS
6. ALL INTERIOR GLAZING TO BE FIRE-RATED WHERE REQUIRED BY CODE
7. MOUNT INTERIOR DEVICES FOR TYPICAL MOUNTING HEIGHTS ON A8.20 U.N.O.
8. OFFSET DEVICES IN STUD CAVITIES PER 1/A8.20 TYP.
9. FURNITURE SHOWN DASHED IS N.I.C. AND TO BE PROVIDED BY THE OWNER
   9.A. LAYOUT SHOWN PROVIDES MANEUVERING CLEARANCES MEETING ACCESSIBILITY REQUIREMENTS.
   9.B. 5% OF SEATING SHALL BE ACCESSIBLE.
10. REFER TO FOOD SERVICE EQUIPMENT SCHEDULE ON FS1 FOR CONTRACTOR PROVIDED ITEMS

MATERIAL LEGEND

- 2' x 2' SUSPENDED ACOUSTICAL PANEL
- GYPSUM BOARD CEILING
- FRP WALL PANEL



KEY PLAN

PUBLIC BUILDING COMMISSION
Chicago Public Schools

READ DUNNING SCHOOL

4071 N. OAK PARK AVENUE
CHICAGO, IL 60634
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
STL ARCHITECTS

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DANIEL WEINBACH & PARTNERS
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MEPFP Engineers of Record

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Acoustics Consultant

SCHULER SHOOK
750 N Orleans St # 400, Chicago, IL 60654
Theatre Consultant

EDGE ASSOCIATES INC.
220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

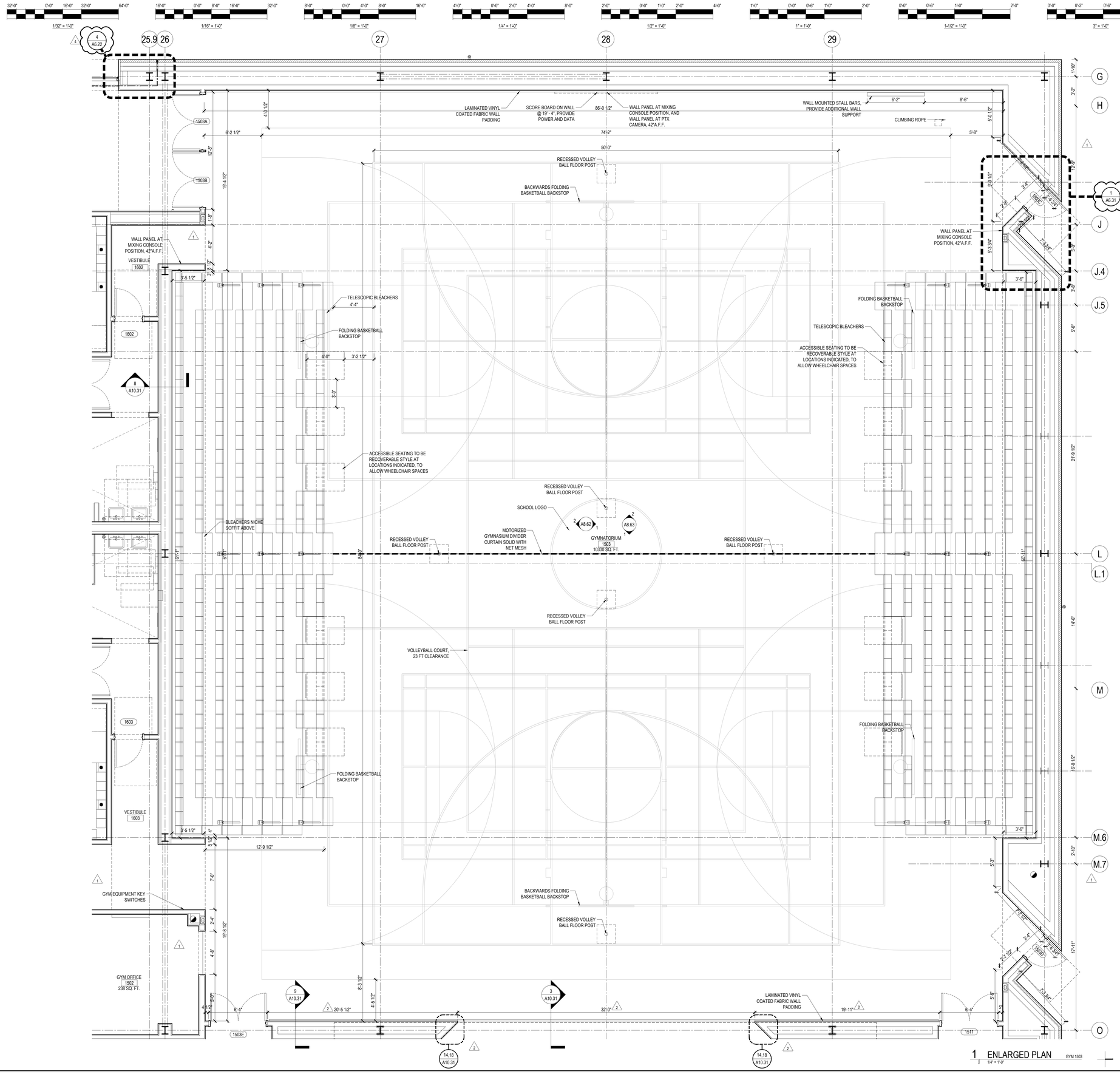
Issuance

Mark	Description	Date
4	ADDENDUM #3	02/28/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	9/22/2017
	DESIGN DEVELOPMENT	6/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
ENLARGED RCP
ELEVATIONS
KITCHEN & SERVERY

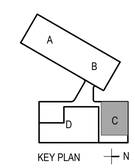
Sheet
A8.55



1 ENLARGED PLAN GYM 1503
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO A12.X FOR GLAZING TYPES
2. REFER TO A9.1X SERIES FOR PARTITION TYPE
3. REFER TO A12.1X SERIES FOR DOOR SCHEDULE
4. REFER TO A11.XX SERIES FOR MILLWORK DETAILS
5. REFER TO A13.XX SERIES FOR FINISH MATERIALS AND COLORS
6. ALL INTERIOR GLAZING TO BE FIRE-RATED WHERE REQUIRED BY CODE
7. MOUNT INTERIOR DEVICES FOR TYPICAL MOUNTING HEIGHTS ON A8.20 U.N.O.
8. OFFSET DEVICES IN STUD CAVITIES PER 1/A8.20 TYP
9. FURNITURE SHOWN DASHED IS N.I.C. AND TO BE PROVIDED BY THE OWNER
   - 9.A. LAYOUT SHOWN PROVIDES MANEUVERING CLEARANCES MEETING ACCESSIBILITY REQUIREMENTS.
   - 9.B. 5% OF SEATING SHALL BE ACCESSIBLE.



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READ DUNNING SCHOOL

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Theatre Consultant

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220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

Issuance

Mark	Description	Date
4	ADDENDUM #3	02/28/2018
2	ADD #1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
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	ISSUE FOR PERMIT	01/05/2018
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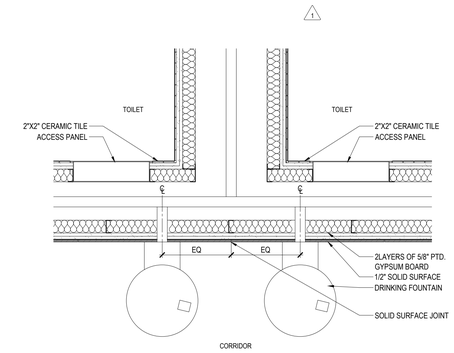
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

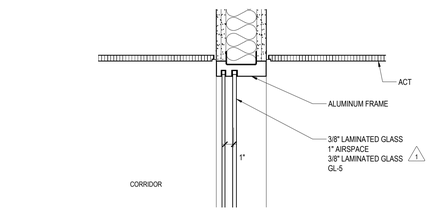
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05185
Project No.: N/A

Title
ENLARGED PLAN, ELEVATIONS GYM

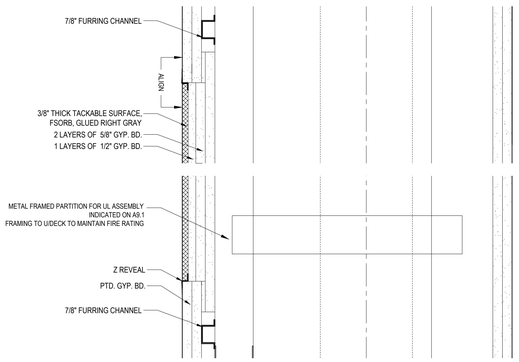
Sheet
A8.60



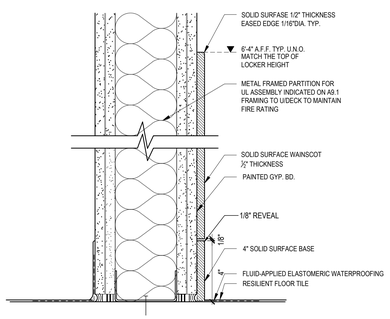
13 DRINKING FOUNTAIN DETAIL @CORRIDOR
1 1/2"=1'-0"



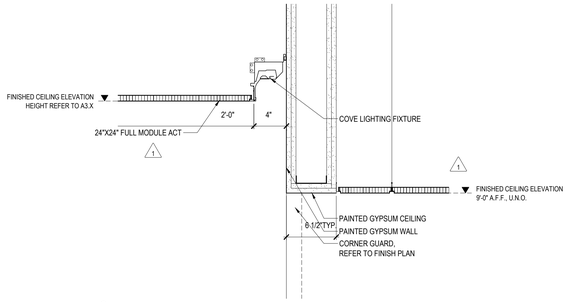
14 STOREFRONT HEAD DETAIL @PULL-IN ROOM AND CORRIDOR @COMPUTER ROOM AND CORRIDOR
1 1/2"=1'-0"



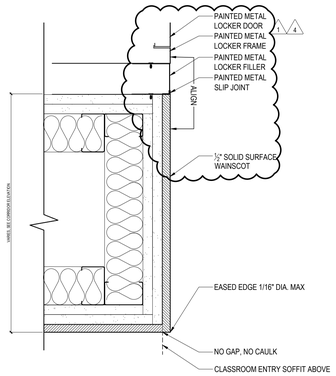
15 TACKABLE SURFACE @ACADEMIC WING CORRIDOR
3"=1'-0"



16 SOLID SURFACE WAINSCOT DETAIL
3"=1'-0"

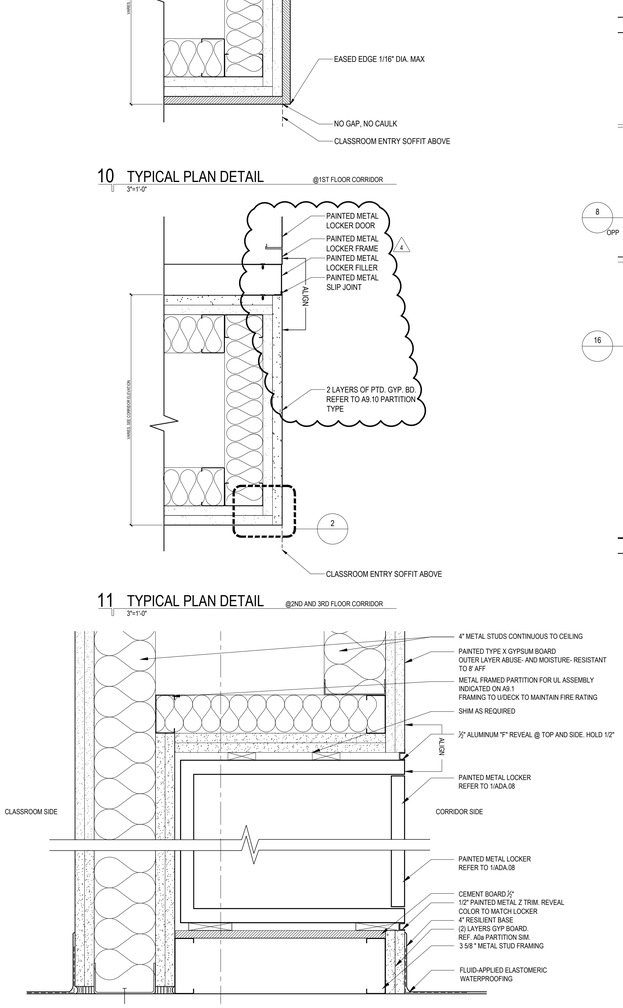


9 TYPICAL SECTION DETAIL TYPICAL BULKHEAD
1 1/2"=1'-0"

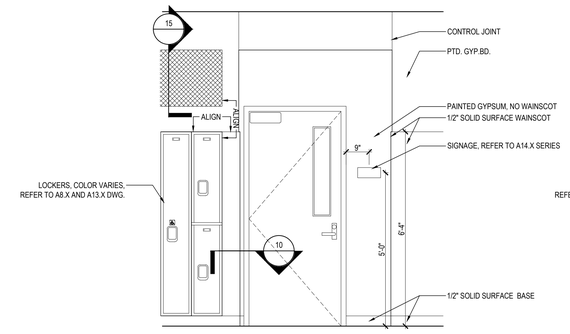


10 TYPICAL PLAN DETAIL @1ST FLOOR CORRIDOR
3"=1'-0"

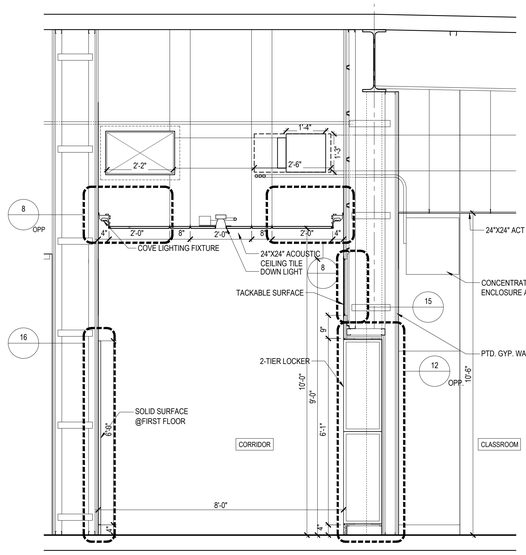
11 TYPICAL PLAN DETAIL @2ND AND 3RD FLOOR CORRIDOR
3"=1'-0"



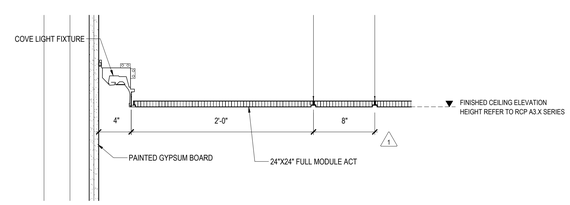
12 LOCKER DETAIL @1ST FLOOR STAFF LOCKER @2ND AND 3RD FLOOR
3"=1'-0"



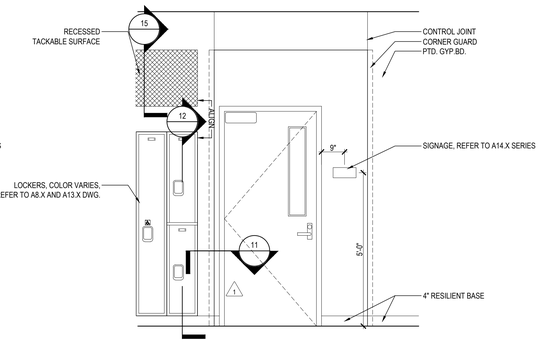
5 TYPICAL CLASSROOM ENTRY ELEVATION @1ST FLOOR CORRIDOR
1/2"=1'-0"



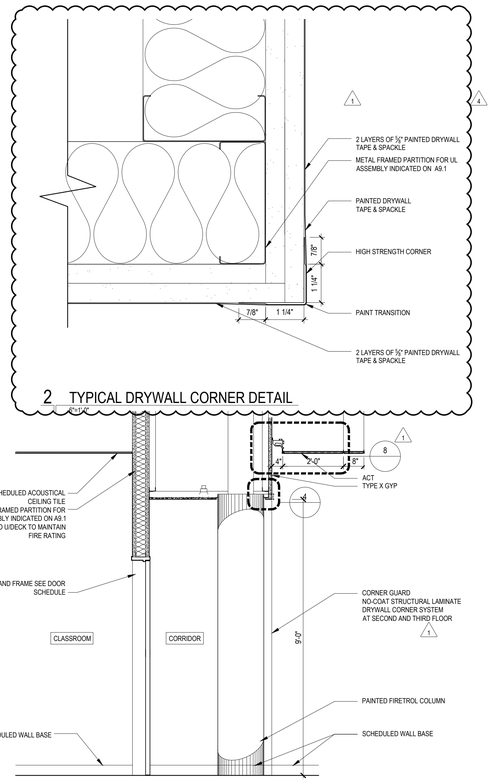
6 TYPICAL CORRIDOR SECTION
1/2"=1'-0"



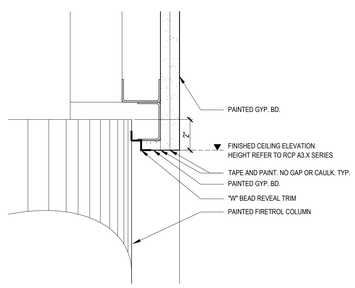
8 TYPICAL CORRIDOR COVE LIGHT DETAIL
1 1/2"=1'-0"



1 TYPICAL CLASSROOM ENTRY ELEVATION @2ND, 3RD FLOOR CORRIDOR
1/2"=1'-0"



2 TYPICAL DRYWALL CORNER DETAIL
1 1/2"=1'-0"



3 TYPICAL CLASSROOM ENTRY ELEVATION @FIRETROL COLUMN
1/2"=1'-0"

4 TYPICAL FIRETROL COLUMN DETAIL
3"=1'-0"

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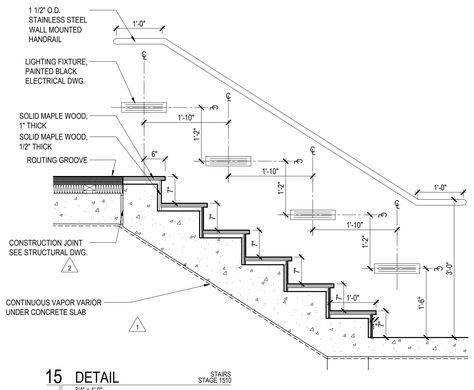
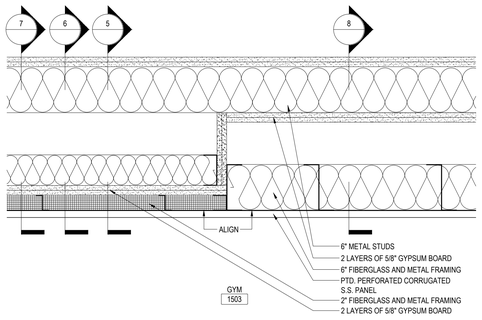
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
ACADEMIC WING TYPICAL INTERIOR DETAILS

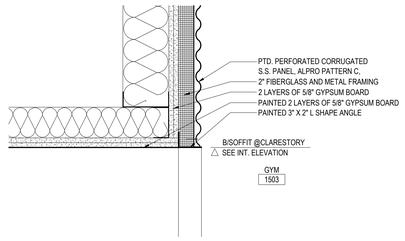
Sheet
A10.11



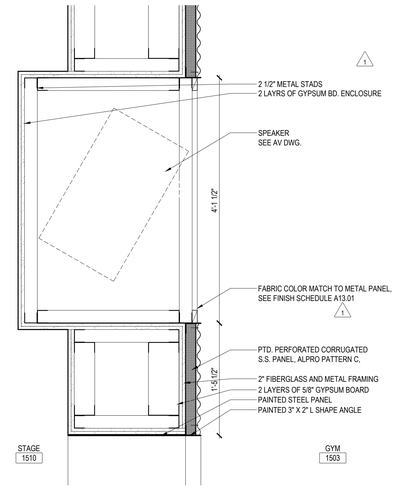
15 DETAIL — STAIRS STAGE 1510
3/4" = 1'-0"



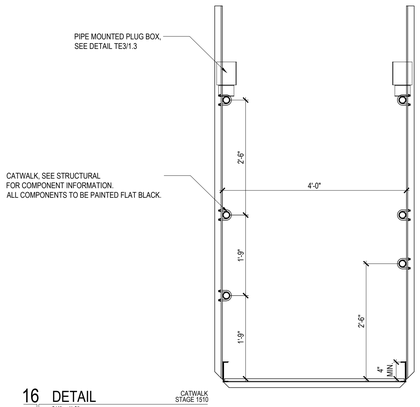
11 PLAN DETAIL — ACOUSTIC PANEL @GYM
1 1/2"=1'-0"



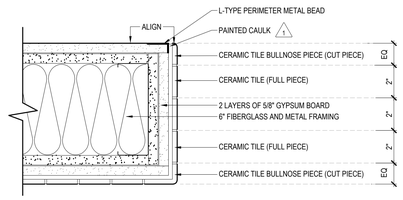
5 SECTION DETAIL — SOFFIT AT CLARESTORY @GYM
1 1/2"=1'-0"



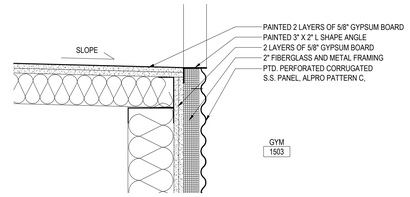
1 SECTION DETAIL — @STAGE
1"=1'-0"



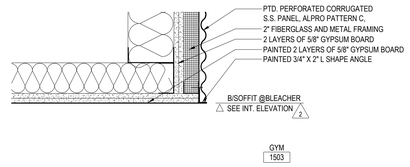
16 DETAIL — CATWALK STAGE 1510
3/4" = 1'-0"



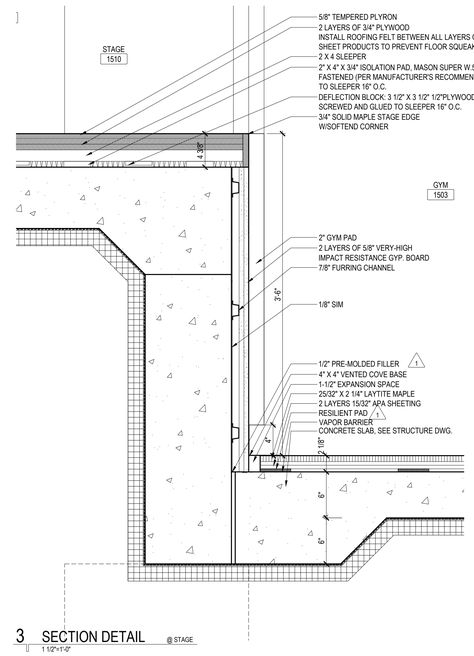
12 PLAN DETAIL — SHOWER TRANSITION @LOCKER
3"=1'-0"



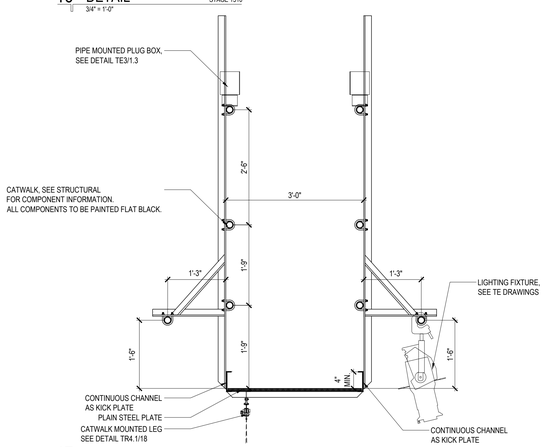
6 SECTION DETAIL — @GYM
1 1/2"=1'-0"



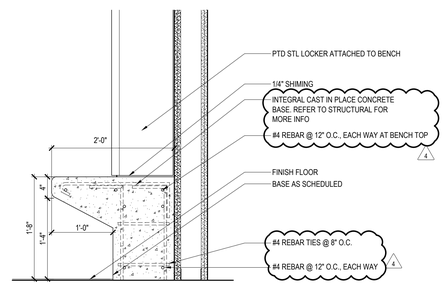
7 SECTION DETAIL — @GYM
1 1/2"=1'-0"



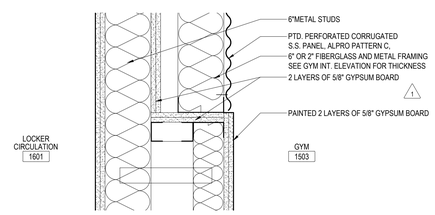
3 SECTION DETAIL — @STAGE
1 1/2"=1'-0"



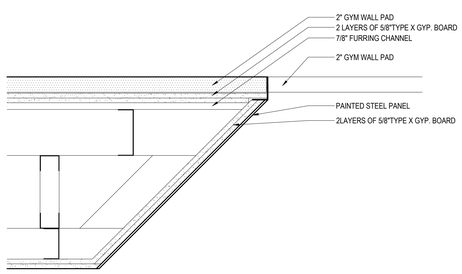
17 DETAIL — LIGHTING CATWALK STAGE 1510
3/4" = 1'-0"



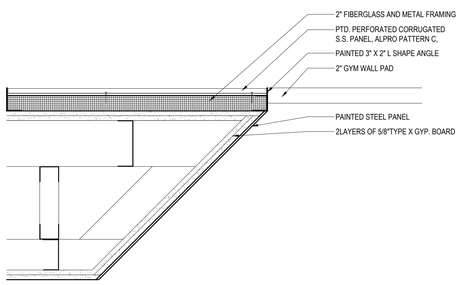
13 SECTION DETAIL — CONCRETE BENCH @LOCKER
3"=1'-0"



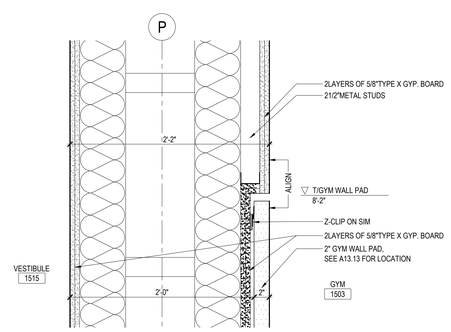
8 SECTION DETAIL — @GYM
1 1/2"=1'-0"



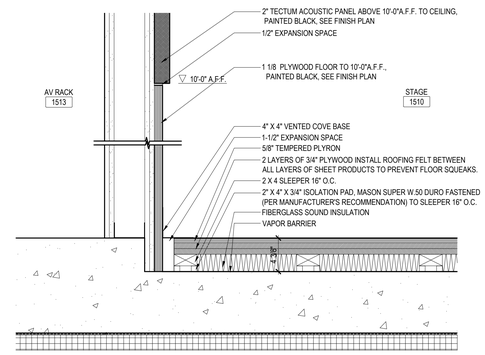
18 PLAN DETAIL — @STAGE
1 1/2"=1'-0"



14 PLAN DETAIL — @STAGE
1 1/2"=1'-0"



9 SECTION DETAIL — GYM WALL PAD TRANSITION @GYM
1 1/2"=1'-0"



4 SECTION DETAIL — @STAGE
1 1/2"=1'-0"

PUBLIC BUILDING COMMISSION — Chicago Public Schools

READ DUNNING SCHOOL
4071 N. OAK PARK AVENUE
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CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

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EDGE ASSOCIATES INC.
220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

Issuance

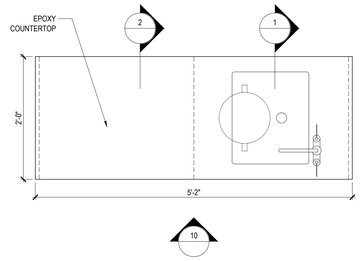
Mark	Description	Date
4	ADDENDUM #3	02/28/2018
2	ADD #1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

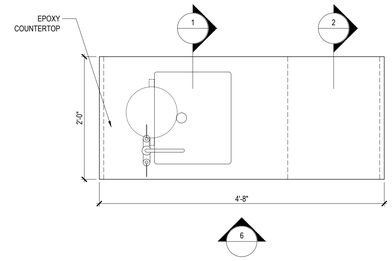
Title
GYM WING INTERIOR DETAILS

Sheet
A10.31

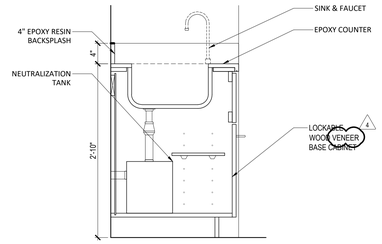
1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



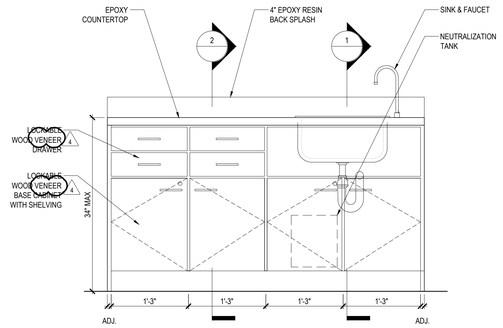
9 PREP ROOM SINK - PLAN — PREP ROOM 2151
1"=1'-0"



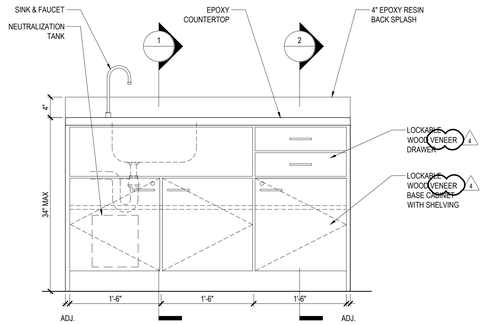
5 LAB SINK - PLAN — SCIENCE LAB 1150, 1153
1"=1'-0"



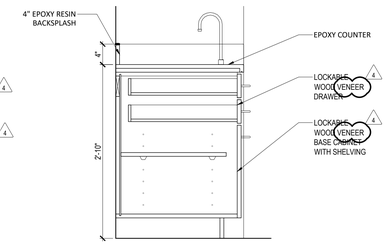
1 LAB SINK CABINET - SECTION — SCIENCE LAB 1150, 1153; PREP ROOM 2151
1"=1'-0"



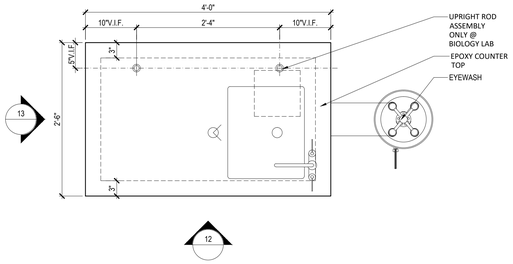
10 PREP ROOM SINK - ELEVATION — PREP ROOM 2151
1"=1'-0"



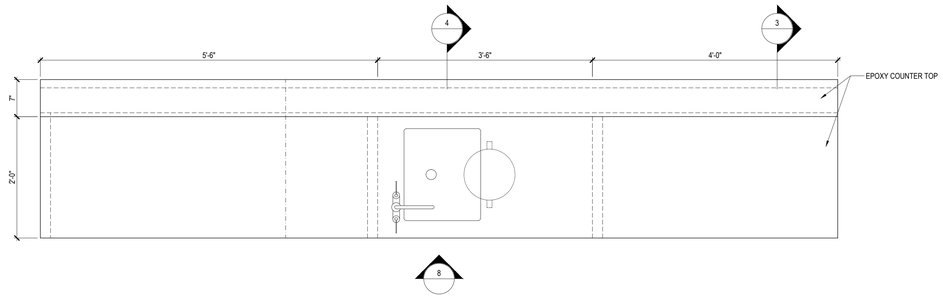
6 LAB SINK - ELEVATION — SCIENCE LAB 1150, 1153
1"=1'-0"



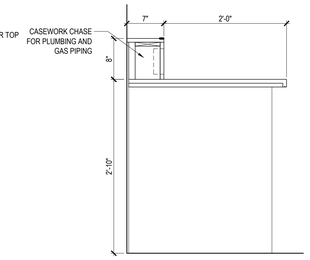
2 LAB CABINET - SECTION — SCIENCE LAB 1150, 1153; PREP ROOM 2151
1"=1'-0"



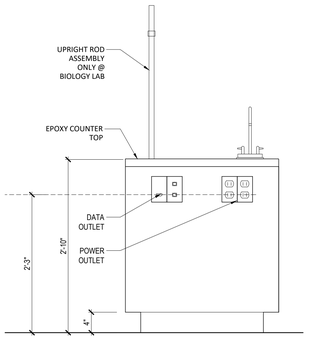
11 TEACHER DEMO ISLAND - PLAN — STEM LAB 3150, 3152; SCIENCE LAB 1150, 1153; BIOLOGY LAB 2150, 2152
1"=1'-0"



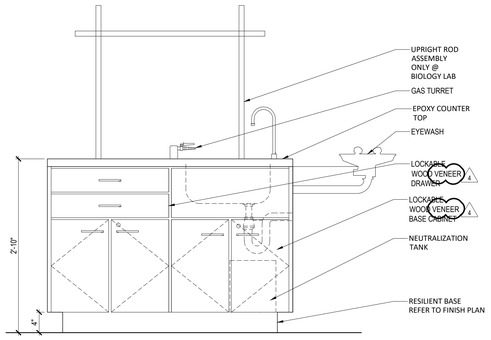
7 PERIMETER LAB COUNTER - PLAN — BIOLOGY LAB 2150, 2152
1"=1'-0"



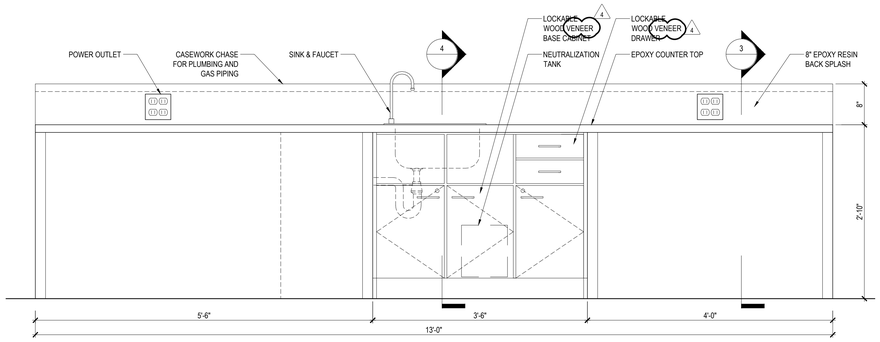
3 PERIMETER LAB COUNTER - SECTION — BIOLOGY LAB 2150, 2152
1"=1'-0"



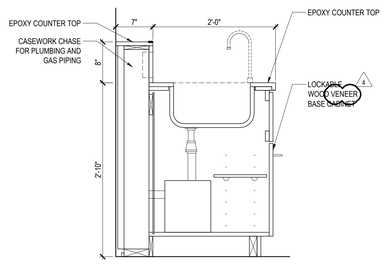
13 TEACHER DEMO ISLAND - ELEVATION — STEM LAB 3150, 3152; SCIENCE LAB 1150, 1153; BIOLOGY LAB 2150, 2152
1"=1'-0"



12 TEACHER DEMO ISLAND - ELEVATION — STEM LAB 3150, 3152; SCIENCE LAB 1150, 1153; BIOLOGY LAB 2150, 2152
1"=1'-0"



8 PERIMETER LAB COUNTER - ELEVATION — BIOLOGY LAB 2150, 2152
1"=1'-0"



4 PERIMETER LAB COUNTER - SECTION — BIOLOGY LAB 2150, 2152
1"=1'-0"

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4	ADDENDUM #3	02/28/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
TYPICAL MILLWORK DETAILS

Sheet
A11.10

32'-0" 0'-0" 16'-0" 32'-0" 64'-0"
1/32" = 1'-0"

16'-0" 0'-0" 8'-0" 16'-0" 32'-0"
1/16" = 1'-0"

8'-0" 0'-0" 4'-0" 8'-0" 16'-0"
1/8" = 1'-0"

4'-0" 0'-0" 2'-0" 4'-0" 8'-0"
1/4" = 1'-0"

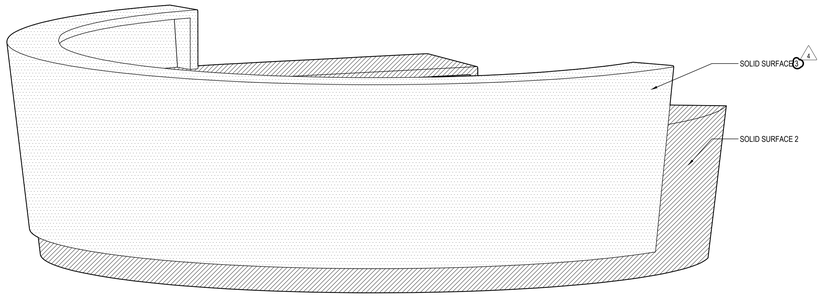
2'-0" 0'-0" 1'-0" 2'-0" 4'-0"
1/2" = 1'-0"

1'-0" 0'-0" 0'-6" 1'-0" 2'-0"
1" = 1'-0"

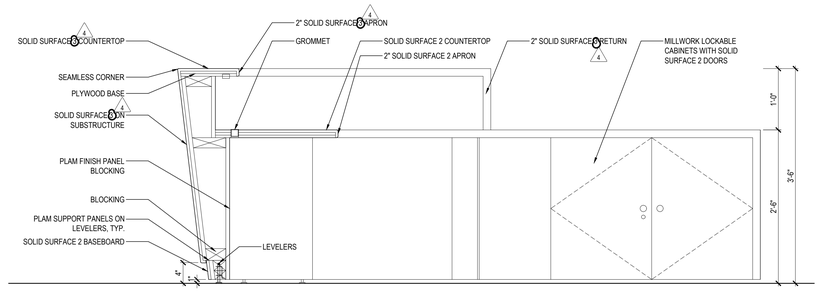
0'-0" 0'-6" 1'-0" 2'-0"
1-1/2" = 1'-0"

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

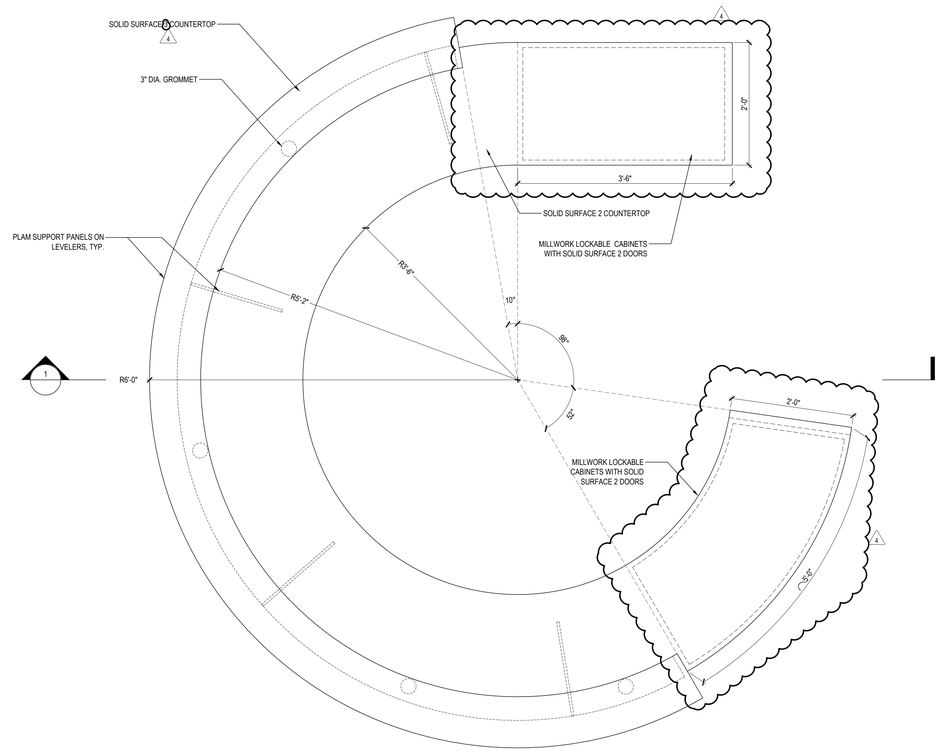
0'-0" 0'-1-1/2" 0'-3" 0'-4-1/2" 0'-6"
6" = 1'-0"



3 AXO
1"=1'-0"
LOBBY SECURITY DESK @LOBBY 1000



1 SECTION
1"=1'-0"
LOBBY SECURITY DESK @LOBBY 1000



2 PLAN
1"=1'-0"
LOBBY SECURITY DESK @LOBBY 1000

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	90% CD	12/01/2017
	60% CD	11/03/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No.: 05165
Project No.: N/A

Title
MILLWORK DETAILS
LOBBY SECURITY DESK

Sheet
A11.20

1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1"-0"

DOOR SCHEDULE, CONTINUED

FIRST FLOOR INTERIOR DOOR SCHEDULE (CONTINUED)

NO.	INTO ROOM (EGRESS SIDE)	FROM ROOM (EGRESS SIDE)	DOOR TYP.	DOOR WIDTH	DOOR HEIGHT	DOOR MAT	DOOR FINISH	HDWE SET	FRAME TYP	FRAME MAT	FRAME FINISH	DET (4.12.20) JAMB	GLASS	LABEL	TR HEIGHT	SL WIDTH	NOTES
1165	1165 VAULT/WORKROOM	1160 CORRIDOR	2	3'-0"	7'-0"	HM	PT	12	F02	HM	PT	A	GL-3	-	-	-	
1166	1166 COAT STORAGE	1160 CORRIDOR	1	3'-0"	7'-0"	HM	PT	12	F02	HM	PT	A	-	-	-	-	
1167	1167 FACULTY MAILBOXES	1160 CORRIDOR	2	3'-0"	7'-0"	WD	PT	12	F02	HM	PT	A	GL-3	-	-	-	
1168	1168 PANTRY	1160 CORRIDOR	2	3'-0"	7'-0"	WD	PT	7	F02	HM	PT	A	GL-3	-	-	-	
1169	1169 RECEPTION	1000 LOBBY	3	3'-0"	7'-0"	ALUM/GLS	PT	4	F02	ALUM	PT	F	GL-6	C	-	-	
1159	1159 UNISEX TOILET	1160 CORRIDOR	1	3'-0"	7'-0"	HM	PT	16	F02	HM	PT	A	-	-	-	-	
1172	1172 UNISEX TOILET	1192 CORRIDOR	1	3'-0"	7'-0"	HM	PT	10	F02	HM	PT	A	-	C	-	-	
1173	1173 POLICE OFFICE	1190 CORRIDOR	2	3'-0"	7'-0"	WD	PT	12	F02	HM	PT	A	GL-3	C	-	-	
1174	1174 SECURITY OFFICE	1190 CORRIDOR	2	3'-0"	7'-0"	WD	PT	12	F02	HM	PT	A	GL-3	C	-	-	
1175	1175 ELEVATOR MACHINE ROOM	1193 CORRIDOR	1	3'-6"	7'-0"	HM	PT	34	F02	HM	PT	A	-	B	-	-	
1176	1176 STORAGE CLOSET	1190 CORRIDOR	1	3'-0"	7'-0"	HM	PT	2	F03	HM	PT	A	-	C	1'-10"	-	
1177	1177 ELECTRIC CLOSET	1193 CORRIDOR	1	4'-0"	7'-0"	HM	PT	34	F02	HM	PT	A	-	C	-	-	
1178	1178 MDF	1191 CORRIDOR	1	3'-0"	7'-0"	HM	PT	3	F03	HM	PT	A	-	C	1'-10"	-	
1183	1183 STORAGE	1190 CORRIDOR	1	3'-0"	7'-0"	HM	PT	2	F03	HM	PT	A	-	C	1'-10"	-	
1184	1184 STORAGE	1191 CORRIDOR	1	3'-0"	7'-0"	HM	PT	2	F03	HM	PT	A	-	C	1'-10"	-	
1185	1185 JANITOR	1196 CORRIDOR	1	3'-0"	7'-0"	HM	PT	2	F02	HM	PT	A	-	C	-	-	
1186	1186 RECYCLING CLOSET	1196 CORRIDOR	1	3'-0"	7'-0"	HM	PT	7	F02	HM	PT	A	-	C	-	-	
1187	1187 STORAGE	1196 CORRIDOR	1	3'-0"	7'-0"	HM	PT	2	F02	HM	PT	A	-	C	-	-	
1190	1190 CORRIDOR	1192 CORRIDOR	6	7'-4"	8'-0"	HM	PT	23	F08	STL	PT	A	GL-3	C	-	-	DOOR SWEEP
1191	1191 CORRIDOR	1191 CORRIDOR	6	7'-4"	8'-0"	STL	PT	23	F08	STL	PT	A	GL-3	C	-	-	DOOR SWEEP
1200	1200 MAT STORAGE	1202 STUDENT DINING	5	6'-0"	7'-0"	HM	PT	9	F08	HM	PT	A	-	B	-	-	DOOR SWEEP
1202A	1202 STUDENT DINING	1700 CORRIDOR	7	6'-0"	8'-0"	HM	PT	23	F04	HM	PT	A	GL-3	B	2'-0"	-	DOOR SWEEP
1202B	1202 STUDENT DINING	1700 CORRIDOR	7	6'-0"	8'-0"	HM	PT	23	F04	HM	PT	A	GL-3	B	2'-0"	-	DOOR SWEEP
1202C	1202 STUDENT DINING	1702 CORRIDOR	7	6'-0"	8'-0"	HM	PT	23	F04	HM	PT	A	GL-3	B	2'-0"	-	DOOR SWEEP
1202D	1202 STUDENT DINING	1702 CORRIDOR	7	6'-0"	8'-0"	HM	PT	23	F04	HM	PT	A	GL-3	B	2'-0"	-	DOOR SWEEP
1203A	1203 KITCHEN & SEVERY	1300 CORRIDOR	1	3'-0"	7'-0"	HM	PT	35	F02	HM	PT	A	-	C	-	-	DOOR SWEEP
1203C	1203 KITCHEN & SEVERY	1202 STUDENT DINING	1	3'-8"	8'-0"	HM	PT	35	F02	HM	PT	A	-	-	-	-	DOOR SWEEP
1203D	1203 KITCHEN & SEVERY	1202 STUDENT DINING	1	3'-8"	8'-0"	HM	PT	35	F02	HM	PT	A	-	-	-	-	DOOR SWEEP
1203E	1203 KITCHEN & SEVERY	1202 STUDENT DINING	1	3'-8"	8'-0"	HM	PT	35	F02	HM	PT	A	-	-	-	-	DOOR SWEEP
1203F	1203 KITCHEN & SEVERY	1202 STUDENT DINING	1	3'-8"	8'-0"	HM	PT	35	F02	HM	PT	A	-	-	-	-	DOOR SWEEP
1203G	1203 KITCHEN & SEVERY	1202 STUDENT DINING	1	3'-8"	8'-0"	HM	PT	35	F02	HM	PT	A	-	-	-	-	DOOR SWEEP
1203H	1203 KITCHEN & SEVERY	1202 STUDENT DINING	1	3'-8"	8'-0"	HM	PT	35	F02	HM	PT	A	-	-	-	-	DOOR SWEEP
1204	1204 K OFFICE	1203 KITCHEN & SERVERY	1	3'-0"	7'-0"	HM	PT	9	F02	HM	PT	A	-	C	-	-	DOOR SWEEP
1206	1206 K STORAGE	1203 KITCHEN & SERVERY	1	3'-0"	7'-0"	HM	PT	9	F02	HM	PT	A	-	B	-	-	DOOR SWEEP
1208	1208 TABLE STORAGE	1202 STUDENT DINING	5	6'-0"	7'-0"	HM	PT	9	F08	HM	PT	A	-	B	-	-	DOOR SWEEP
1300	1300 CORRIDOR	1400 CORRIDOR	2	3'-0"	7'-0"	HM	PT	8	F02	ALUM	PT	A	GL-3	C	-	-	DOOR SWEEP
1302A	1302 MAIN ELECTRICAL ROOM	1301 CORRIDOR	1	3'-0"	7'-0"	HM	PT	34	F02	HM	PT	A	-	B	-	-	
1303	1303 IDF	1301 CORRIDOR	1	3'-4"	7'-0"	HM	PT	3	F02	HM	PT	A	-	C	-	-	
1304	1304 ELEC	1301 CORRIDOR	1	3'-0"	7'-0"	HM	PT	3	F02	HM	PT	A	-	B	-	-	
1305	1305 PUMP ROOM	1301 CORRIDOR	5	6'-0"	7'-0"	HM	PT	19	F08	HM	PT	A	-	B	-	-	
1307	1307 TOILET	1301 CORRIDOR	1	3'-4"	7'-0"	HM	PT	10	F02	HM	PT	A	-	C	-	-	
1308	1308 TOILET	1300 CORRIDOR	1	3'-4"	7'-0"	HM	PT	10	F02	HM	PT	A	-	C	-	-	
1309	1309 ENGINEER OFFICE	1300 CORRIDOR	2	3'-4"	7'-0"	HM	PT	6	F02	HM	PT	A	GL-3	C	-	-	
1310	1310 ROOF ACCESS	1305 PUMP ROOM	1	3'-0"	7'-0"	HM	PT	34	F02	HM	PT	A	-	B	-	-	
1311	1311 FIRE PUMP ROOM	1305 PUMP ROOM	1	3'-0"	7'-0"	HM	PT	34	F02	HM	PT	A	-	-			
1401A	1401 MUSIC THEORY	1703 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1401B	1401 MUSIC THEORY	1515 VESTIBULE	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	-	B	-	-	ACOUSTICAL SET #1
1402	1402 CHORAL CLASSROOM	1400 CORRIDOR	6	6'-0"	7'-0"	STL	PT	-	F08	HM	PT	J	GL-3	C	-	-	ACOUSTICAL SET #2-STC 45 RATED
1403	1403 INSTRUMENTAL CLASSROOM	1400 CORRIDOR	2	3'-0"	7'-0"	STL	PT	-	F02	HM	PT	J	GL-3	C	-	-	ACOUSTICAL SET #2-STC 45 RATED
1404	1404 PRACTICE BOOTH	1400 CORRIDOR	2	3'-0"	7'-0"	STL	PT	-	F03	HM	PT	J	GL-3	C	1'-10"	-	ACOUSTICAL SET #2-STC 40 RATED
1405	1405 PRACTICE BOOTH	1400 CORRIDOR	2	3'-0"	7'-0"	STL	PT	-	F03	HM	PT	J	GL-3	C	1'-10"	-	ACOUSTICAL SET #2-STC 40 RATED
1406	1406 PRACTICE BOOTH	1400 CORRIDOR	2	3'-0"	7'-0"	STL	PT	-	F03	HM	PT	J	GL-3	C	1'-10"	-	ACOUSTICAL SET #2-STC 40 RATED
1407	1407 MUSICAL STORAGE	1400 CORRIDOR	7	6'-0"	7'-0"	HM	PT	9	F08	HM	PT	A	GL-3	B	-	-	
1500	1500 CORRIDOR	1703 CORRIDOR	7	6'-0"	8'-0"	HM	PT	23	F08	HM	PT	A	GL-3	B	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1501	1501 CHAIR STORAGE	1500 CORRIDOR	5	6'-0"	7'-0"	HM	PT	7	F08	HM	PT	A	-	B	-	-	
1502	1502 GYM OFFICE	1500 CORRIDOR	2	3'-0"	7'-0"	HM	PT	4	F02	HM	PT	A	GL-3	-	-	-	
1503A	1503 GYMNATORIUM	1700 CORRIDOR	7	6'-0"	8'-0"	HM	PT	23	F04	HM	PT	H	GL-3	B	2'-0"	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1503B	1503 GYMNATORIUM	1700 CORRIDOR	7	6'-0"	8'-0"	HM	PT	23	F04	HM	PT	H	GL-3	B	2'-0"	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1503E	1503 GYMNATORIUM	1515 VESTIBULE	5	6'-0"	8'-0"	HM	PT	17	F08	HM	PT	A	GL-3	C	-	-	
1511	1511 VESTIBULE	1503 GYMNATORIUM	5	6'-0"	8'-0"	HM	PT	17	F08	HM	PT	A	-	B	-	-	
1512	1512 STAGE STORAGE	1510 STAGE	1	6'-0"	7'-0"	HM	PT	7	F02	HM	PT	A	-	B	-	-	
1514	1513 AV RACK	1510 STAGE	1	6'-0"	7'-0"	HM	PT	7	F02	HM	PT	A	-	B	-	-	
1513	1514 DIMMMING EQUIPMENT	1510 STAGE	1	3'-0"	7'-0"	HM	PT	7	F02	HM	PT	A	-	B	-	-	
1516	1516 GYM STORAGE	1515 VESTIBULE	5	6'-0"	7'-0"	HM	PT	7	F08	HM	PT	A	-	B	-	-	
1601A	1601 CIRCULATION	1600 VESTIBULE	1	3'-0"	7'-0"	HM	PT	6	F02	HM	PT	A	-	C	-	-	
1601B	1601 CIRCULATION	1602 VESTIBULE	5	5'-4"	7'-0"	HM	PT	23	F08	HM	PT	A	-	-	-	-	
1602	1602 VESTIBULE	1602 VESTIBULE	1	3'-0"	7'-0"	HM	PT	6	F02	HM	PT	A	-	B	-	-	
1603	1603 VESTIBULE	1603 VESTIBULE	1	3'-0"	7'-0"	HM	PT	6	F02	HM	PT	A	-	B	-	-	
1604A	1604 CIRCULATION	1600 VESTIBULE	1	3'-0"	7'-0"	HM	PT	6	F02	HM	PT	A	-	C	-	-	
1604B	1604 CIRCULATION	1603 VESTIBULE	5	5'-4"	7'-0"	HM	PT	23	F08	HM	PT	A	-	-	-	-	
1610	1610 UNISEX LOCKER	1600 VESTIBULE	1	3'-0"	7'-0"	HM	PT	6	F02	HM	PT	A	-	C	-	-	
1620	1620 UNISEX LOCKER	1600 VESTIBULE	1	3'-0"	7'-0"	HM	PT	6	F02	HM	PT	A	-	C	-	-	
1632	1632 UNISEX TOILET	1702 CORRIDOR	1	3'-0"	7'-0"	HM	PT	6	F02	HM	PT	A	-	C	-	-	
1703	1704 VESTIBULE	1703 CORRIDOR	4	6'-8"	8'-0"	ALUM/GLS	PT	49	F09	ALUM	PT	F	GL-1	-	1'-10"	-	DOOR SWEEP
1710	1710 JANITOR	1703 CORRIDOR	1	3'-0"	7'-0"	HM	PT	2	F02	HM	PT	A	-	C	-	-	
A1A	STAIR A1	1191 CORRIDOR	5	6'-0"	7'-0"	HM	PT	23	F09	HM	PT	A	-	C	1'-10"	-	
B1A	STAIR B1	1190 CORRIDOR	5	6'-0"	7'-0"	HM	PT	23	F09	HM	PT	A	-	C	1'-10"	-	
C1A	STAIR C1	1191 CORRIDOR	5	6'-0"	7'-0"	HM	PT	23	F09	HM	PT	A	-	C	1'-10"	-	

DOOR SCHEDULE

FIRST FLOOR INTERIOR DOOR SCHEDULE

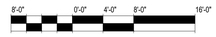
NO.	INTO ROOM (EGRESS SIDE)	FROM ROOM (EGRESS SIDE)	DOOR TYP.	DOOR WIDTH	DOOR HEIGHT	DOOR MAT	DOOR FINISH	HDWE SET	FRAME TYP	FRAME MAT	FRAME FINISH	DET (4.12.20) JAMB	GLASS	LABEL	TR HEIGHT	SL WIDTH	NOTES
1000A	1000 LOBBY	1002 VESTIBULE	3	3'-0"	8'-0"	ALUM/GLS	PT	48	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1000B	1000 LOBBY	1002 VESTIBULE	3	3'-0"	8'-0"	ALUM/GLS	PT	48	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1000C	1000 LOBBY	1002 VESTIBULE	3	3'-0"	8'-0"	ALUM/GLS	PT	48	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1000D	1000 LOBBY	1002 VESTIBULE	3	3'-0"	8'-0"	ALUM/GLS	PT	49	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1000E	1000 LOBBY	1001 VESTIBULE	3	3'-0"	8'-0"	ALUM/GLS	PT	48	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1000F	1000 LOBBY	1001 VESTIBULE	3	3'-0"	8'-0"	ALUM/GLS	PT	48	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1000G	1000 LOBBY	1001 VESTIBULE	3	3'-0"	8'-0"	ALUM/GLS	PT	48	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1000H	1000 LOBBY	1001 VESTIBULE	3	3'-0"	8'-0"	ALUM/GLS	PT	49	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1100	1100 CORRIDOR	1191 CORRIDOR	2	3'-0"	7'-0"	WD	PT	8	F02	HM	PT	A	GL-3	C	-	-	DOOR SWEEP
1102	1102 SHOWER AND TOILET	1103 NURSE OFFICE	1	3'-0"	7'-0"	HM	PT	16	F02	HM	PT	A	-	-	-	-	
1104	1104 EXAM ROOM	1103 NURSE OFFICE	1	3'-0"	7'-0"	WD	PT	12	F02	HM	PT	A	-	-	-	-	
1105	1105 COUNSELING ROOM	1100 CORRIDOR	2	3'-0"	7'-0"	WD	PT	12	F02	HM	PT	A	GL-3	-	-	-	
1106	1106 COUNSELING ROOM	1100 CORRIDOR	2	3'-0"	7'-0"	WD	PT	12	F02	HM	PT	A	GL-3	-	-	-	
1107	1107 INCL. STUDENTS STORAGE	1100 CORRIDOR	1	3'-0"	7'-0"	WD	PT	7	F02	HM	PT	A	-	-	-	-	
1108	1108 STORAGE	1100 CORRIDOR	1	3'-0"	7'-0"	WD	PT	3	F02	HM	PT	A	-	-	-	-	
1120	1120 T2 CLASSROOM	1191 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1121C	1121 PULL IN ROOM	1120 T2 CLASSROOM	3	3'-0"	7'-0"	ALUM/GLS	PT	1	F01	ALUM	PT	G	GL-3	-	-	1'-8"	ACOUSTICAL SET #1, 3/8" THICK LITE
1121B	1121 PULL IN ROOM	1191 CORRIDOR	3	3'-0"	7'-0"	ALUM/GLS	PT	1	F02	ALUM	PT	G	GL-5	C	-	-	ACOUSTICAL SET #1
1121A	1121 PULL IN ROOM	1122 T2 CLASSROOM	3	3'-0"	7'-0"	ALUM/GLS	PT	1	F01	ALUM	PT	G	GL-3	-	-	1'-8"	ACOUSTICAL SET #1, 3/8" THICK LITE
1122	1122 T2 CLASSROOM	1191 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1123	1123 LR3 PULL OUT	1191 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1124	1124 LR3 CLASSROOM	1191 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1125	1125 FACULTY OFFICE	1191 CORRIDOR	2	3'-0"	7'-0"	WD	PT	12	F02	HM	PT	A	GL-3	C	-	-	
1126	1126 MEETING ROOM	1191 CORRIDOR	2	3'-0"	7'-0"	WD	PT	12	F02	HM	PT	A	GL-3	C	-	-	
1127	1127 COMPUTER LAB	1190 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1130	1130 CLASSROOM	1190 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1131	1131 CLASSROOM	1190 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1132	1132 CLASSROOM	1190 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1133	1133 CLASSROOM	1190 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1140	1140 T2 CLASSROOM	1190 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1141A	1141 PULL IN ROOM	1140 T2 CLASSROOM	3	3'-0"	7'-0"	ALUM/GLS	PT	1	F01	ALUM	PT	G	GL-3	-	-	1'-8"	ACOUSTICAL SET #1, 3/8" THICK LITE
1141B	1142 PULL IN ROOM	1190 CORRIDOR	3	3'-0"	7'-0"	ALUM/GLS	PT	1	F02	ALUM	PT	G	GL-5	C	-	-	ACOUSTICAL SET #1
1141C	1143 PULL IN ROOM	1142 T2 CLASSROOM	3	3'-0"	7'-0"	ALUM/GLS	PT	1	F01	ALUM	PT	G	GL-3	-	-	1'-8"	ACOUSTICAL SET #1, 3/8" THICK LITE
1142	1142 T2 CLASSROOM	1190 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1143	1143 CLASSROOM	1190 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1150A	1150 GEN. SCIENCE LAB	1190 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1150B	1151 GEN. SCIENCE LAB	1191 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1151	1151 LAB STORAGE	1150 GEN. SCIENCE LAB	1	3'-0"	7'-0"	WD	PT	7	F02	HM	PT	A	-	B	-	-	
1152	1152 LAB STORAGE	1153 GEN. SCIENCE LAB	1	3'-0"	7'-0"	WD	PT	7	F02	HM	PT	A	-	B	-	-	
1153	1153 GEN.SCIENCE LAB	1190 CORRIDOR	2	3'-0"	7'-0"	WD	PT	1	F02	HM	PT	A	GL-3	C	-	-	ACOUSTICAL SET #1, 3/8" THICK LITE
1160	1160 CORRIDOR	1192 CORRIDOR	2	3'-0"	7'-0"	WD	PT	8	F02	HM	PT	A	GL-3	C	-	-	DOOR SWEEP
1161	1161 PRINCIPAL'S OFFICE	1160 CORRIDOR	2	3'-0"	7'-0"	WD	PT	12	F02	HM	PT	A	GL-3	-	-	-	
1162	1162 BUSINESS MANAGER'S OFFICE	1160 CORRIDOR	2	3'-0"	7'-0"	WD	PT	12	F02	HM	PT	A	GL-3	-	-	-	
1163	1163 CONFERENCE ROOM	1160 CORRIDOR	2	3'-0"	7'-0"	WD	PT	12	F02	HM	PT	A	GL-3	-	-	-	
1164	1164 OPEN BUSINESS OFFICE	1160 CORRIDOR	2	3'-0"	7'-0"	WD	PT	12	F02	HM	PT	A	GL-3	C	-	-	

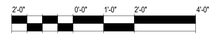
EXTERIOR DOOR SCHEDULE

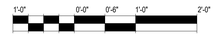
NO.	INTO ROOM (EGRESS SIDE)	FROM ROOM (EGRESS SIDE)	TYP	WIDTH	HEIGHT	MAT	FINISH	SET	TYP	MAT	FINISH	JAMB	GLASS	LABEL	HEIGHT	WIDTH	NOTES
1001A	1001 VESTIBULE	EXTERIOR	3	3'-0"	8'-0"	ALUM/GLS	PT	48	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1001B	1001 VESTIBULE	EXTERIOR	3	3'-0"	8'-0"	ALUM/GLS	PT	48	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1001C	1001 VESTIBULE	EXTERIOR	3	3'-0"	8'-0"	ALUM/GLS	PT	46	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1001D	1001 VESTIBULE	EXTERIOR	3	3'-0"	8'-0"	ALUM/GLS	PT	45	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1002A	1002 VESTIBULE	EXTERIOR	3	3'-0"	8'-0"	ALUM/GLS	PT	48	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1002B	1002 VESTIBULE	EXTERIOR	3	3'-0"	8'-0"	ALUM/GLS	PT	48	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1002C	1002 VESTIBULE	EXTERIOR	3	3'-0"	8'-0"	ALUM/GLS	PT	46	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1002D	1002 VESTIBULE	EXTERIOR	3	3'-0"	8'-0"	ALUM/GLS	PT	45	F06	ALUM	PT	F	GL-1	-	-	3'-4"	DOOR SWEEP
1202E	STUDENT DINING	EXTERIOR	3	6'-0"	8'-0"	ALUM/GLS	PT	47	F07	ALUM	PT	F	GL-1	-	1'-10"	-	DOOR SWEEP
1202F	STUDENT DINING	EXTERIOR	3	3'-0"	8'-0"	ALUM/GLS	PT	47	F07	ALUM	PT	F	GL-1	-	1'-10"	-	DOOR SWEEP
1202G	STUDENT DINING	EXTERIOR	3	3'-0"	8'-0"	ALUM/GLS	PT	47	F07	ALUM	PT	F	GL-1	-	1'-10"	-	DOOR SWEEP
1202H	STUDENT DINING	EXTERIOR	3	3'-0"	8'-0"	ALUM/GLS	PT	47	F07	ALUM	PT	F	GL-1	-	1'-10"	-	DOOR SWEEP
1202I	STUDENT DINING	EXTERIOR	3	3'-0"	8'-0"	ALUM/GLS	PT	47	F07	ALUM	PT	F	GL-1	-	1'-10"	-	DOOR SWEEP
1202J	STUDENT DINING	EXTERIOR	3	3'-0"	8'-0"	ALUM/GLS	PT	47	F07	ALUM	PT	F	GL-1	-	1'-10"	-	DOOR SWEEP
1203B	1203 KITCHEN & SEVERY	EXTERIOR	1	3'-0"	8'-0"	HM	PT	41	F05	HM	PT	A	-	-	2'-0"	-	DOOR SWEEP
1203I	1203 KITCHEN & SEVERY	EXTERIOR	1	3'-0"	8'-0"	HM	PT	41	F05	HM	PT	A	-	-	2'-0"	-	DOOR SWEEP
1301	1301 CORRIDOR	EXTERIOR	1	3'-4"	8'-0"	HM	PT	39	F03	HM	PT	A	-	-	2'-0"	-	DOOR SWEEP
1302B	1302 MAIN ELECTRICAL ROOM	EXTERIOR	5	6'-4"	8'-0"	HM	PT	43	F03	HM	PT	A	-	-	2'-0"	-	DOOR SWEEP
1306A	1306 YARD STORAGE	EXTERIOR	2	3'-4"	8'-0"	HM	PT	47	F03	HM	PT	A	-	-	2'-0"	-	DOOR SWEEP
1306B	1306 STORAGE	EXTERIOR	8	14'-8"	10'-0"	STL	PT	-	-	STL	PT	-	-	-	-	-	DOOR SWEEP
1503C	1503 GYMNATORIUM	EXTERIOR	1	3'-0"	8'-0"	HM	PT	20	F03	HM	PT	A	-	-	2'-0"	-	DOOR SWEEP
1503D	1503 GYMNATORIUM	EXTERIOR	1	3'-0"	8'-0"	HM	PT	20	F03	HM	PT	A	-	-	2'-0"	-	DOOR SWEEP
1704	1704 VESTIBULE	EXTERIOR	4	6'-8"	8'-0"	ALUM/GLS	PT	44	F05	ALUM	PT	F	GL-1	-	1'-10"	-	DOOR SWEEP
A1B	STAIR A1	EXTERIOR	3	3'-1"	7'-0"	ALUM/GLS	PT	40	F05	ALUM	PT	F	GL-1	-	3'-0"	-	DOOR SWEEP
A1C	STAIR A1	EXTERIOR	3	3'-1"	7'-0"	ALUM/GLS	PT	39	F05	ALUM	PT	F	GL-1	-	3'-0"	-	DOOR SWEEP
B1B	STAIR B1	EXTERIOR	3	3'-1"	7'-0"	ALUM/GLS	PT	40	F05	ALUM	PT	F	GL-1	-	3'-0"	-	DOOR SWEEP
B1C	STAIR B2	EXTERIOR	3	3'-1"	7'-0"	ALUM/GLS	PT	39	F05	ALUM	PT	F	GL-1	-	3'-0"	-	DOOR SWEEP
C1B	STAIR C1	EXTERIOR	3	3'-1"	7'-0"	ALUM/GLS	PT	40	F05	ALUM	PT	F	GL-1	-	3'-0"	-	DOOR SWEEP
C1C	STAIR C2	EXTERIOR	3	3'-1"	7'-0"	ALUM/GLS	PT	39	F05	ALUM	PT	F	GL-1	-	3'-0"	-	DOOR SWEEP
1190A	1189 CORRIDOR	EXTERIOR	3	6'-4"	8'-0"	ALUM/GLS	PT	47	F05	ALUM	PT	F	GL-1	-	1'-10"	-	DOOR SWEEP
1190B	1190 CORRIDOR	EXTERIOR	3	6'-4"	8'-0"	ALUM/GLS	PT	47	F05	ALUM	PT	F	GL-1	-	1'-10"	-	DOOR SWEEP

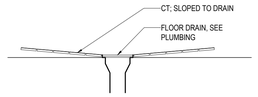
HARDWARE SCHEDULE, CONTINUED

HSH23 NOTE: IF ASTRAGAL IS REQUIRED BY UL RATING FURNISH:		
MORTISE DEVICE	*9875L-2-F-994L*	
VERTICAL ROD DEVICE	*9827 EO-F*	
COORDINATOR	*1600 SERIES W/CLOSER BRACKETS*	
HARDWARE SET#34	**Mechanical, Electrical, MDF, Janitor Rooms**	
HINGES	BB1168 5" X 4 ½	HA 632
STOREROOM LOCK	8805FL (FO7)	Y 630
DOORCLOSER	4041 SPRING-CUSH	L 689
KICKPLATE	15" X 2" LDW	R 630
HARDWARE SET#35	**Kitchen to servery**	
HINGES	BB1279 4 ½ X 4 ½	HA 630
CLASSROOM LOCK	8808-2FL (F32)	Y 630
DOOR CLOSER	4041 EDA	R 689
KICKPLATE	15" X 2" LDE	R 630
STOP & HOLD	WS40	I 626
HARDWARE SET#39	**Stairs to Exterior Active Leaf (exit without side trim)**	
GEARED HINGES	780-224-HD SERIES	HA TBS
EXIT

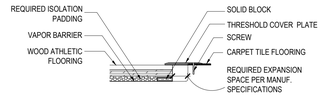




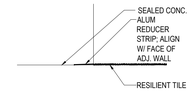




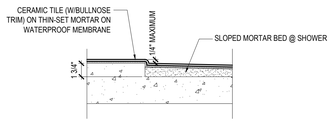
17 C.T.: SLOPED TO DRAIN
1-1/2" = 1'-0"



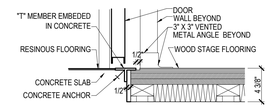
10 VCT: WOOD ATHLETIC FLOORING
1-1/2" = 1'-0" @GYMNASIUM



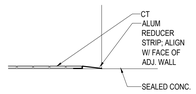
2 CONC.: R.T.
1-1/2" = 1'-0"



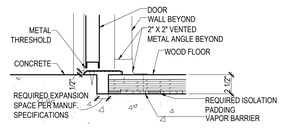
18 C.T. @ SHOWER
1-1/2" = 1'-0"



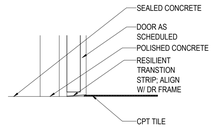
11 RESINOUS FLOOR: WOOD STAGE FLOOR
1-1/2" = 1'-0" @STAGE



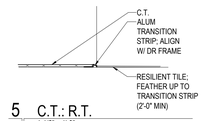
3 C.T.: CONCRETE
1-1/2" = 1'-0"



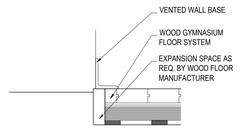
12 CONC.: WOOD ATHLETIC FLOORING
1-1/2" = 1'-0" @GYMNASIUM



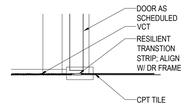
4 CONC.: CARPET TILE
1-1/2" = 1'-0"



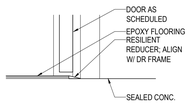
5 C.T.: R.T.
1-1/2" = 1'-0"



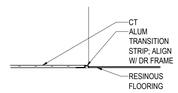
13 WAF TO VENTED WALL BASE
1-1/2" = 1'-0"



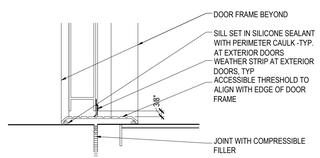
6 VCT: CPT. TILE
1-1/2" = 1'-0"



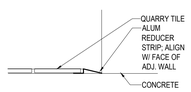
14 RESINOUS FLOOR : CONC.
1-1/2" = 1'-0"



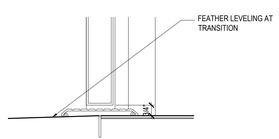
7 C.T.: RESINOUS
1-1/2" = 1'-0"



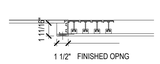
15 DOOR THRESHOLD
1-1/2" = 1'-0" EXTERIOR



8 QUARRY TILE: CONC.
1-1/2" = 1'-0"



16 DOOR THRESHOLD
1-1/2" = 1'-0" EXTERIOR



9 RECESSED FOOT GRILLE
1-1/2" = 1'-0" @WALK OFF MAT

TAG	DESCRIPTION	MANUFACTURE & LINE (BOD)	COLOR / FINISH / SIZE
CEILING			
AC-1	ACOUSTICAL CEILING PANEL	Refer to Specification APC-1	White, 24"X24"
AC-2	ACOUSTICAL CEILING PANEL	Refer to Specification APC-2	White, 24"X24"
AC-3	ACOUSTICAL CEILING PANEL	Refer to Specification APC-3	White, 24"X24" High-NRC ACT
AC-4	ACOUSTICAL CEILING PANEL	Refer to Specification APC-4	White
AC-5	ACOUSTICAL CEILING PANEL	Refer to Spec. APC-5, Armstrong, Ultima,	White, M1, 9/16"Grid,
AC-6	ACOUSTICAL DIFFUSING CEILING PANEL	Refer to Specification APC-6	White, Pyramid
3 AC-7	ACOUSTICAL CEILING PANEL	Refer to Specification APC-7	White
PT-1	PAINT	PPG	Cool Slate #PPG1002-3
PT-2	PAINT	PPG	Be Yourself #PPG1218-7
PT-3	PAINT	PPG	Curry Sauce #PPG1210-7
PT-4	PAINT	PPG	Madeira Red #PPG13-11
PT-5	PAINT	PPG	Flagstone #PPG1001-4
PT-6	PAINT	PPG	Knight's Armor #PPG1001-6
PT-7	PAINT	PPG	Black Magic #PPG1001-7
PT-8	PAINT	PPG	Delicate White #PPG1001-1
3 PT-9	PAINT	PPG	Blue Tang #PPG 1160-7
EXP	EXPOSED		
FWP-1	FABRIC WRAPPED PANEL	Guilford of Maine	White #2664
FWP-2	FABRIC WRAPPED PANEL	Guilford of Maine	Green Apple #2087
FWP-3	FABRIC WRAPPED PANEL	Guilford of Maine	Sunshine #2082
3 not used			
FWP-5	FABRIC WRAPPED PANEL	Guilford of Maine	Slate #2017
FWP-6	FABRIC WRAPPED PANEL	Guilford of Maine	Sea #2077
CM-1	ACM	Alucobond	Patriot Red
AFC	ACOUSTICAL FELT CEILING	Hunterdouglas, HeartFelt	Middle Grey 20%, Light Grey 40%, Off-White 40%
WALL			
PT-1	PAINT	PPG	Cool Slate #PPG1002-3
PT-2	PAINT	PPG	Be Yourself #PPG1218-7
PT-3	PAINT	PPG	Curry Sauce #PPG1210-7
PT-4	PAINT	PPG	Madeira Red #PPG13-11
PT-5	PAINT	PPG	Flagstone #PPG1001-4
PT-6	PAINT	PPG	Knight's Armor #PPG1001-6
PT-7	PAINT	PPG	Black Magic #PPG1001-7
PT-8	PAINT	PPG	Delicate White #PPG1001-1
3 PT-9	PAINT	PPG	Blue Tang #PPG 1160-7
CTW-1	CERAMIC TILE	American Olean, Porcelain	Ice White #A25
3 CTW-2	CERAMIC TILE	American Olean, Porcelain	Sapphire Sky #R08
CTW-3	CERAMIC TILE	American Olean, Porcelain	Key Lime #R97
SS-1	SOLID SURFACE	Samsung, staron	Aspen Alder #AA625
SS-2	SOLID SURFACE	Samsung, staron	Aspen Concrete #AC629
3 SS-3	SOLID SURFACE	Samsung, staron	Sanded Icicle
CG	HIGH STRENGTH CORNER	Softforms, SO-HSE-90	Painted
PMP-1	PERFORATED METAL PANEL	Alpro Acoustical Systems Wall Panel	Knight's Armor #PPG1001-6
CM-1	ACM	Alucobond	Patriot Red
AWP-1	ACOUSTIC TACKABLE WALL PANEL	Fsorb	Right Gray
AWP-2	ACOUSTIC TACKABLE WALL PANEL	Fsorb	White
AWP-3	ACOUSTIC TACKABLE WALL PANEL	Fsorb	Gray
AWP-4	ACOUSTIC TACKABLE WALL PANEL	Fsorb	Red
TE-1	ACOUSTIC TECTUM PANEL	Armstrong, Tectum	Black
FRP	FRP PANEL	Kal-lite Division	.090 Smooth White Class "A" with white trim
FAB-1	FABRIC	Guilford of Maine	Graphite #2079
BASE			
RB	RESILIENT BASE	Tarkett, Johnsonite	Charcoal #20
CTB	CERAMIC TILE BASE	American Olean, Porcelain	Charcoal #A33
VCB	VENTED COVE BASE	Johnsonite	Black
SS-1	SOLID SURFACE	Samsung, staron	Aspen Alder #AA625
SS-2	SOLID SURFACE	Samsung, staron	Aspen Concrete #AC629
3 SS-3	SOLID SURFACE	Samsung, staron	Sanded Icicle
QTB	QUARRY TILE BASE	Metropolitan, Quarrybasics	Puritan Gray #507
FLOOR			
CONC-1 3	POLISHED CONCRETE		
RT-1	RESILIENT TILE	Gerflor, Mipolam, Elegance	Greenstone 80%, Rasberry Gray 10% Pecan 10%
RT-2	RESILIENT TILE	Gerflor, Mipolam, Elegance	Greenstone 80%, Kiwi 10%, Pecan 10%
RT-3	RESILIENT TILE	Gerflor, Mipolam, Elegance	Greenstone 80%, Ananas 10%, Pecan 10%
CT-1	CERAMIC TILE	American Olean, Porcelain	Ice White #A25
CT-2	CERAMIC TILE	American Olean, Porcelain	Charcoal #A33
WAF	WOOD ATHLETIC FLOORING	Connor Sports, Rezill Channel	
QT	QUARRY TILE	Metropolitan, Quarrybasics	Puritan Gray #507
ST	STAIR TREAD	Johnsonite, Tarkett	Charcoal #20, with Black Grit Tape
3 RLT	RUBBER LANDING TILE	Johnsonite, Tarkett	Charcoal #20
WST	WOOD STAIR		
TWT	TACTILE WARNING TILE	Johnsonite, Tarkett	Charcoal #20
CA-1	MODULAR CARPET TILE	Tarkett, Tandus, Plexus Colour IV	Fog Beacon #18575
CA-2	MODULAR CARPET TILE	Tarkett, Tandus, Plexus Colour IV	Lemon Peel #18560 3
EP	EPOXY FLOOR COATING	Refer to Specification	Knight's Armor #PPG1001-6
4 RES	RESINOUS FLOOR	Refer to Specification	
SDF	STATIC DESSIPATIVE RESILIENT FLOOR	Gerflor, Mipolam, Elegance EL7	Balaton #03160 4
WSF	WOOD STAGE FLOOR	Refer to Specification 4	
PTG-1	GYMNASIUM FLOOR PAINT @ Main Basket Ball Court	Refer to Specification	Black 3
PTG-2	GYMNASIUM FLOOR PAINT @ Side Basket Ball Court	Refer to Specification	Dark Blue
PTG-3	GYMNASIUM FLOOR PAINT @ Volleyball Court	Refer to Specification	White
PTG-4	GYMNASIUM FLOOR PAINT @ Badminton Court	Refer to Specification	Gray
WM	WALK OFF MAT	CS	G6
EQUIPMENT			
LKR-1	LOCKERS	List Industries,	Cool Slate #PPG1002-3, Be Yourself #PPG1218-7, Curry Sauce #PPG1210-7
LKR-2	LOCKERS	List Industries,	Cool Slate #PPG1002-3,
LKR-3	LOCKERS	List Industries,	Blue Tang #PPG 1160-7 3
LKR-4	LOCKERS	List Industries,	Curry Sauce #PPG1210-7
BLR	TELESCOPIC BLEACHERS	Hussey Seating, Maxam Types,	Dark Blue 3
DIV	DIVIDER	Draper, Roll-Up Gym Divider Curtains	White, Mesh
ACC-1	ACOUSTIC CURTAIN	Rose Brand	Velour in IFR 25 oz, Pewter, 100% fullness,
3 ACC-2	ACOUSTIC CURTAIN	Rose Brand	Velour in IFR 25 oz, Bermuda, 100% fullness,
HSS	HIGH MINERAL CONTENT SOLID SURFACE	Porcelanosa, Krion	Imperial Yellow #6201
PLAM1	PLASTIC LAMINATE	Abet Laminati, HPL	Sei #879
WLPD-1	WALL PAD	Draper	Navy Blue 3

1 FINISH SCHEDULE
N.T.S.

PUBLIC BUILDING COMMISSION
Chicago Public Schools

READ DUNNING SCHOOL
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CHICAGO, IL 60634
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
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SCHULER SHOOK
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Theatre Consultant

EDGE ASSOCIATES INC.
220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

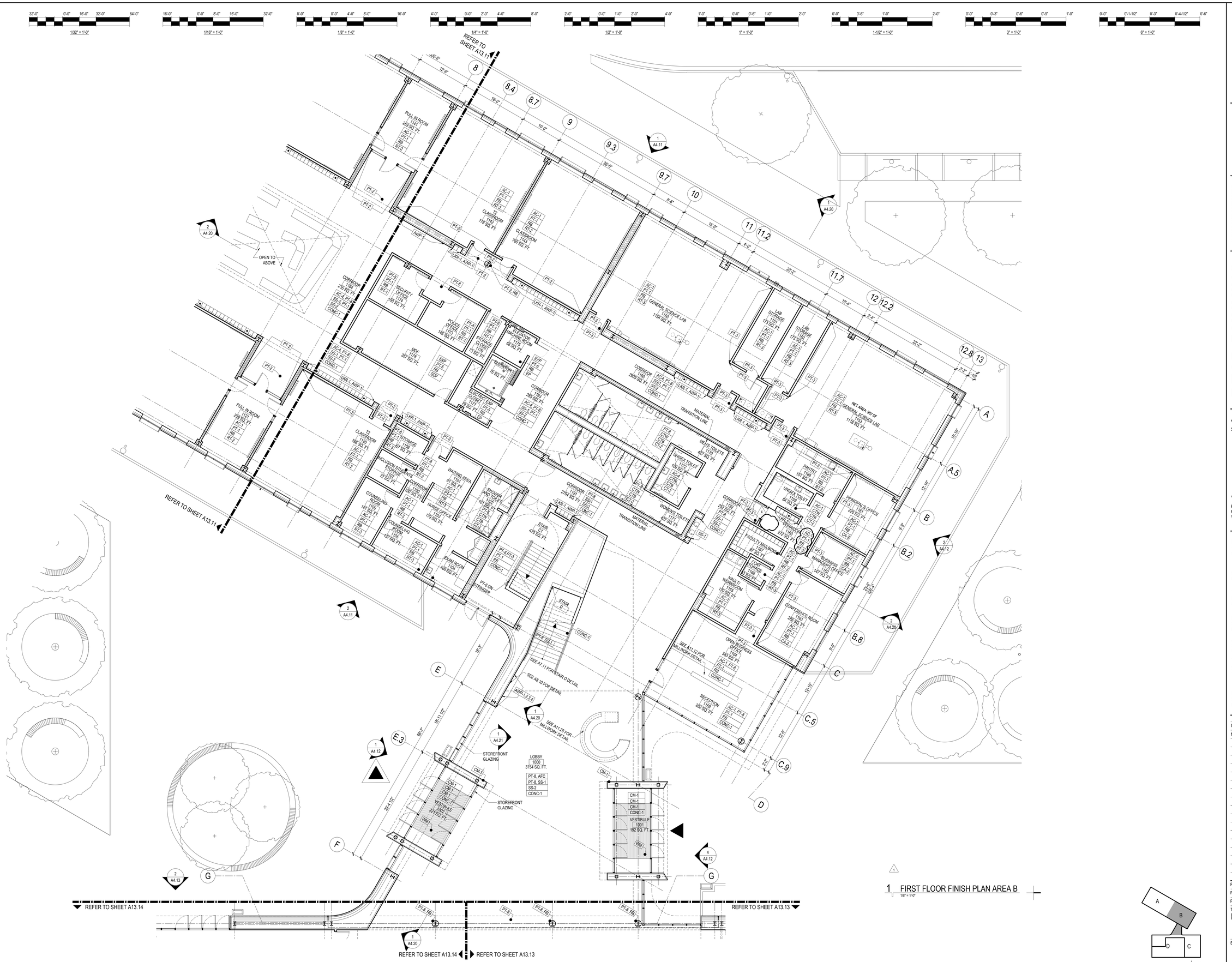
Issuance

Mark	Description	Date
4	ADDENDUM #3	02/28/2018
3	ADDENDUM #2	02/21/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No.: 05165
Project No.: N/A
Title

FINISH SCHEDULE

Sheet
A13.01



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PBC Contract No: 05165
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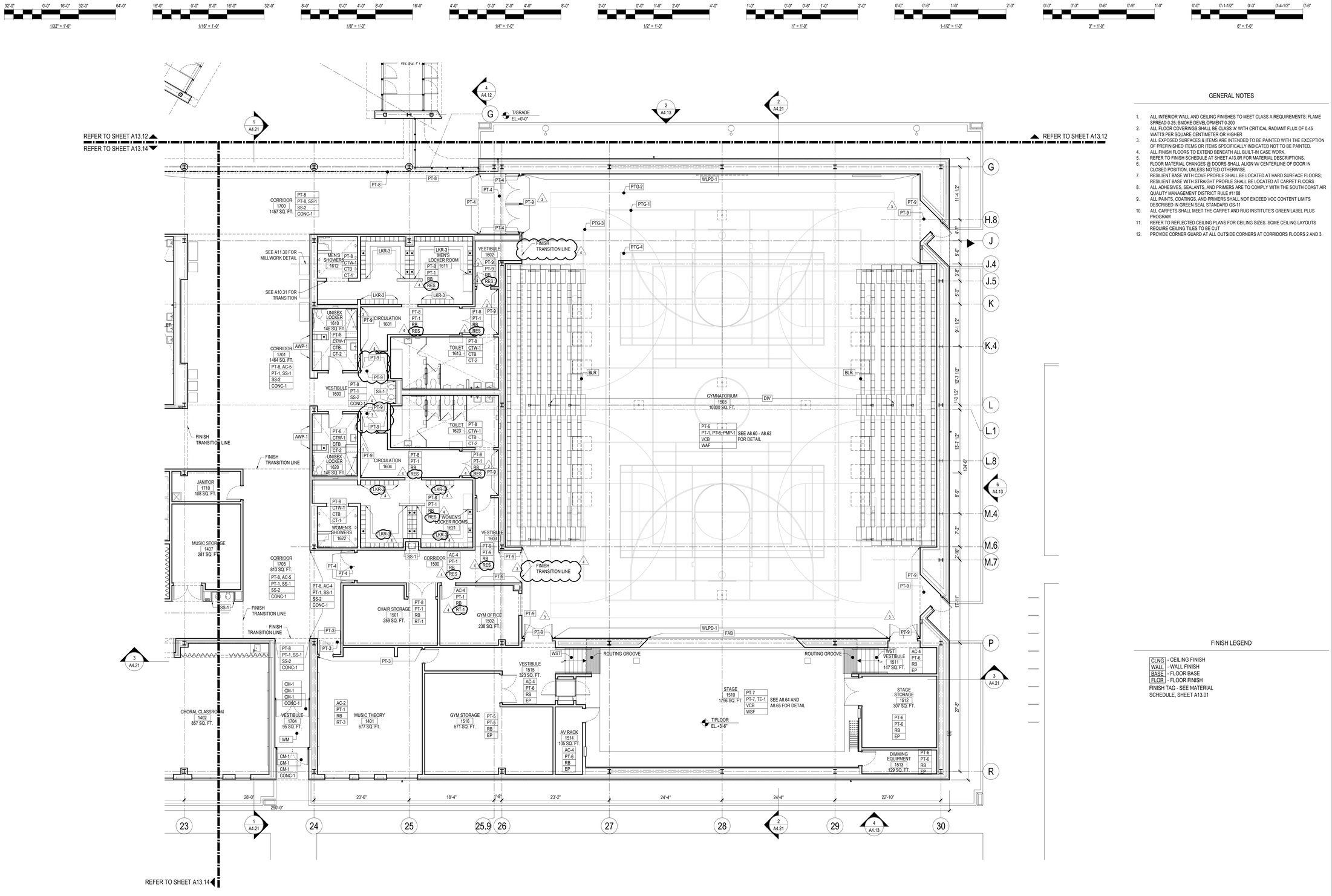
Title
FIRST FLOOR FINISH PLAN
ACADEMIC WING
AREA B

Sheet
A13.12



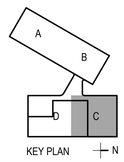
1 FIRST FLOOR FINISH PLAN AREA C
1/8" = 1'-0"

GENERAL NOTES

1. ALL INTERIOR WALL AND CEILING FINISHES TO MEET CLASS A REQUIREMENTS: FLAME SPREAD 0-25; SMOKE DEVELOPMENT 0-200
2. ALL FLOOR COVERINGS SHALL BE CLASS 'A' WITH CRITICAL RADIANT FLUX OF 0.45 WATTS PER SQUARE CENTIMETER OR HIGHER
3. ALL EXPOSED SURFACES & ITEMS ARE INTENDED TO BE PAINTED WITH THE EXCEPTION OF PREFINISHED ITEMS OR ITEMS SPECIFICALLY INDICATED NOT TO BE PAINTED.
4. ALL FINISH FLOORS TO EXTEND BENEATH ALL BUILT-IN CASE WORK.
5. REFER TO FINISH SCHEDULE AT SHEET A13.0R FOR MATERIAL DESCRIPTIONS.
6. FLOOR MATERIAL CHANGES @ DOORS SHALL ALIGN W/ CENTERLINE OF DOOR IN CLOSED POSITION, UNLESS NOTED OTHERWISE.
7. RESILIENT BASE WITH COVE PROFILE SHALL BE LOCATED AT HARD SURFACE FLOORS; RESILIENT BASE WITH STRAIGHT PROFILE SHALL BE LOCATED AT CARPET FLOORS
8. ALL ADHESIVES, SEALANTS, AND PRIMERS ARE TO COMPLY WITH THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE #1168
9. ALL PAINTS, COATINGS, AND PRIMERS SHALL NOT EXCEED VOC CONTENT LIMITS DESCRIBED IN GREEN SEAL STANDARD GS-11
10. ALL CARPETS SHALL MEET THE CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM
11. REFER TO REFLECTED CEILING PLANS FOR CEILING SIZES. SOME CEILING LAYOUTS REQUIRE CEILING TILES TO BE CUT
12. PROVIDE CORNER GUARD AT ALL OUTSIDE CORNERS AT CORRIDORS FLOORS 2 AND 3.

FINISH LEGEND

CLNG - CEILING FINISH
WALL - WALL FINISH
BASE - FLOOR BASE
FLOR - FLOOR FINISH
FINISH TAG - SEE MATERIAL SCHEDULE, SHEET A13.01



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PBC Contract No: 05165
Project No.: N/A

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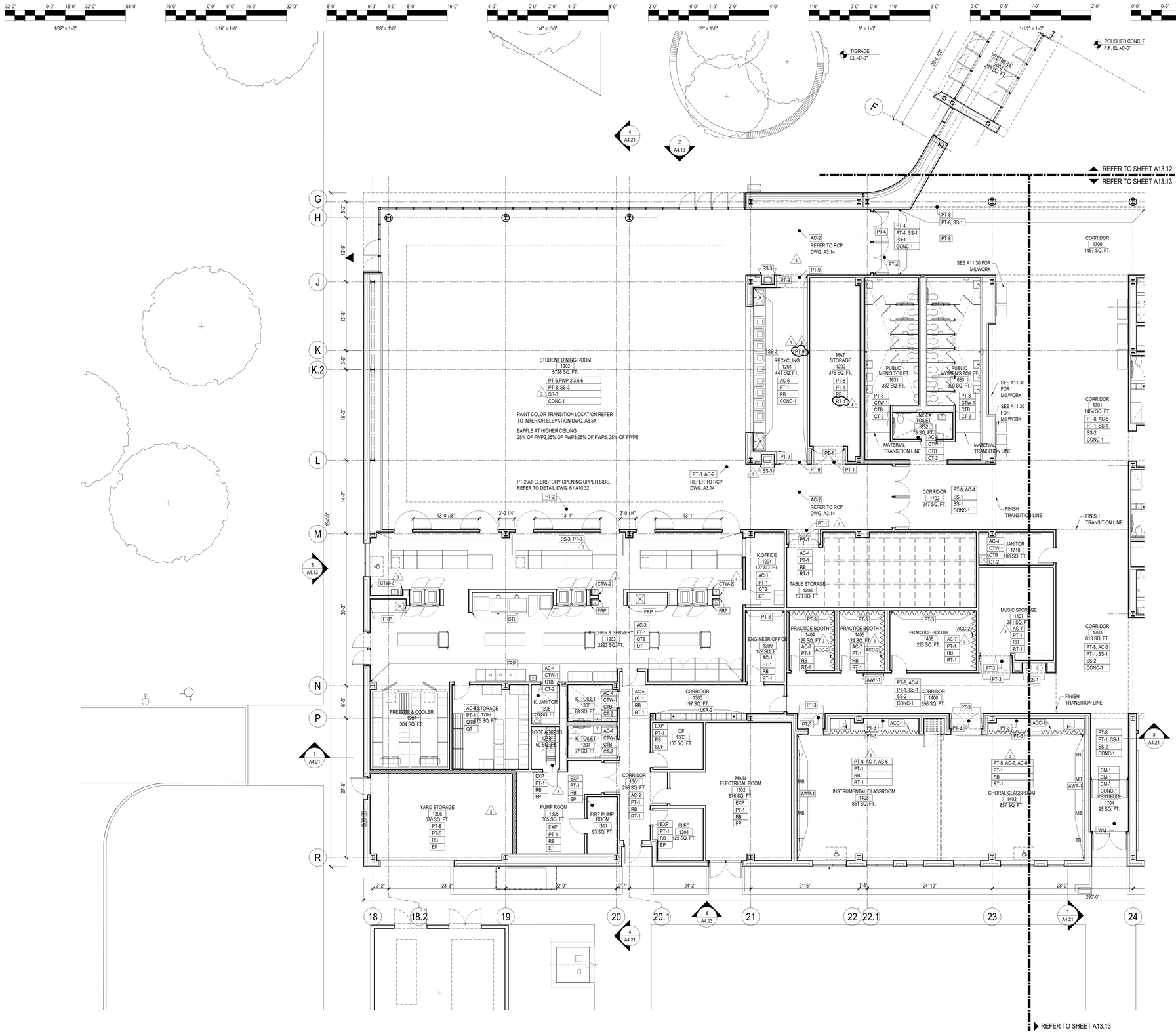
FIRST FLOOR FINISH PLAN
GYM WING
AREA C

Sheet
A13.13



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12. PROVIDE CORNER GUARD AT ALL OUTSIDE CORNERS AT CORRIDORS FLOORS 2 AND 3.

FINISH LEGEND

CLNG - CEILING FINISH
WALL - WALL FINISH
BASE - FLOOR BASE
FLOR - FLOOR FINISH
FINISH TAG - SEE MATERIAL SCHEDULE, SHEET A13.01

KEY PLAN

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4	ADDENDUM #3	02/28/2018
3	ADDENDUM #2	02/21/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	6/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
FIRST FLOOR FINISH PLAN
GYM WING
AREA D

Sheet
A13.14

ADHESIVE ANCHORS

ADHESIVE ANCHORS TO BE PROVIDED SHALL HAVE THE FOLLOWING EMBEDMENTS AND ALLOWABLE WORKING LOADS (U.N.O.) (PROVIDE MIN. EDGE DISTANCES AND SPACING AS RECOMMENDED BY MANUFACTURER).

BASE MATERIAL	ANCHOR DIA.	MIN. EMBED.	TENSION CAP. (lb)	SHEAR CAP. (lb)
CONCRETE (1)	1"	8 1/4"	9,700	7,700
CONCRETE (1)	3/4"	6 5/8"	7,400	4,300
CONCRETE (1)	5/8"	5"	4,800	3,000
CONCRETE (1)	1/2"	4 1/4"	3,700	1,900
GROUTED SOLID CMU (2)	3/4"	6 5/8"	3,700	4,300 (3)
GROUTED SOLID CMU (2)	5/8"	5"	2,200	3,000 (3)
GROUTED SOLID CMU (2)	1/2"	4 1/4"	1,700	1,900 (3)
HOLLOW CMU (2) (5)	1/2"	3 3/8"	350	300
BRICK (5)	5/16"	3 3/8"	550	750
BRICK (5)	3/8"	3 3/8"	1150	1350
BRICK (5)	1/2"	3 3/8"	1150	1600

(1) f'c = 3,000 PSI MIN.
(2) ASTM C90 f'm = 1,500 PSI MIN.
(3) A36 THREADED ROD
(4) THREADED ROD
(5) SCREEN TUBE REQUIRED

UNDERCUT ANCHORS

UNDERCUT ANCHORS TO BE PROVIDED SHALL HAVE THE FOLLOWING EMBEDMENTS AND ALLOWABLE WORKING LOADS IN ACCORDANCE WITH ACI 318 APPENDIX "D" (U.N.O.) (PROVIDE MIN. EDGE DISTANCES AND SPACING AS RECOMMENDED BY MANUFACTURER).

ANCHOR TYPE	BASE MATERIAL	ANCHOR DIA.	MIN. EMBED.	TENSION CAP. (LB)	SHEAR CAP. (LB)
UNDERCUT	CONCRETE (1)	1"	6"	6,000	7,400
UNDERCUT	CONCRETE (1)	3/4"	5 3/4"	3,500	11,853
UNDERCUT	CONCRETE (1)	5/8"	5"	2,800	6,809
UNDERCUT	CONCRETE (1)	1/2"	4"	1,600	3,900
UNDERCUT	GROUTED SOLID CMU (2)	3/4"	4 3/4"	2,500	3,100
UNDERCUT	GROUTED SOLID CMU (2)	5/8"	4"	1,800	2,700
UNDERCUT	GROUTED SOLID CMU (2)	1/2"	3 1/2"	1,000	1,800
SLEEVE	GROUTED SOLID CMU (2)	1/2"	---	600	900

(1) f'c = 3,000 PSI MIN.
(2) ASTM C90 f'm = 1,500 PSI MIN.

LIGHT GAUGE STEEL FRAMING

1. EXTERIOR LIGHT GAUGE FRAMING IS TO BE DESIGNED / ENGINEERED BY THE MANUFACTURER'S STRUCTURAL ENGINEER FOR LATERAL AND WALL FINISH LOADS. FRAMING IS IDENTIFIED ON THE ARCHITECTURAL DRAWINGS.
2. ALL STUDS, JOISTS AND TRACK DESIGNATIONS ARE BASED ON STEEL STUD MANUFACTURER'S ORGANIZATION LIGHT GAUGE STEEL FRAMING. ALTERNATES MAY BE SUBMITTED WHICH EQUAL OR EXCEED THE PROPERTIES OF THE SPECIFIED MEMBER WHEN APPROVED BY THE ENGINEER.
3. ALL FRAMING SHALL BE GALVANIZED. TOUCH UP ALL WELDS AND DAMAGED AREAS WITH APPROVED GALVANIZING TOUCH UP PAINT.
4. ALL CONNECTIONS SHALL BE WELDED U.N.O. WELDING SHALL BE IN ACCORDANCE WITH (AWS) D1.3, STRUCTURAL WELDING CODE- SHEET STEEL.
5. FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. PROVIDE 2 ROWS OF BRIDGING BETWEEN WALL STUDS UP TO 10'-0" TALL AND AT A MAXIMUM SPACING OF 3'-4" ABOVE 10'-0" TALL.
7. AT METAL STUD BEARING WALLS PROVIDE 10" OF UNPUNCHED STEEL AT BOTH ENDS OF STUD.
8. METAL STUD PROPERTIES (PUNCHED C STUD WITH 1-5/8" FLANGE).

STUD SIZE	AREA (In2)	Ix (In4)	Mr (In-lbs)
362S162-54	0.422	0.873	14,000
362S162-43	0.340	0.710	8,460
400S162-54	0.443	1.098	15,960
400S162-43	0.357	0.892	9,630
600S162-54	0.556	2.960	27,760
600S162-43	0.447	2.316	16,680

9. PROFESSIONAL ENGINEER: ALL LIGHT GAUGE FRAMING SHALL BE ENGINEERED AND SHALL BEAR THE NAME, SEAL AND REGISTERED NUMBER OF A LICENSED STRUCTURAL ENGINEER FROM THE STATE OF ILLINOIS.
10. SUBMIT SHOP DRAWINGS INDICATING ALL FRAMING ELEMENTS, SPACING, HEADERS, CONNECTIONS COORDINATED AND CROSS-REFERENCED TO CALCULATIONS.
11. STRUCTURAL ENGINEER'S REVIEW OF DRAWINGS PREPARED BY CONTRACTOR'S SUPPLIERS, ETC., ARE ONLY FOR CONFORMANCE WITH DESIGN CONCEPT. CONSTRUCTION SHALL NOT START WITHOUT SAID REVIEW.
12. SHOP DRAWINGS SHALL INCLUDE A PLAN LAYOUT SHOWING THE LOCATION OF ALL LIGHT GAUGE EXTERIOR WALL FRAMING.
13. ERECTION AND TEMPORARY BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE COST FOR SUCH SHOULD BE INCLUDED IN HIS BID.

STRUCTURAL PERFORMANCE/DESIGN CRITERIA - STAIRS, GUARDRAIL, HANDRAIL

1. TOP RAIL OF GUARDRAIL SYSTEMS:

   CONCENTRATED LOAD OF 300 LBS APPLIED AT ANY POINT NONCONCURRENTLY, VERTICALLY DOWNWARD, OR HORIZONTALLY.

   UNIFORM LOAD OF 100 LB PER LINEAR FOOT APPLIED NONCONCURRENTLY, VERTICALLY DOWNWARD OR HORIZONTALLY.

   CONCENTRATED AND UNIFORM LOADS ABOVE NEED NOT BE ASSUMED TO ACT CONCURRENTLY.

2. HANDRAILS NOT SERVING AS TOP RAILS:

   CONCENTRATED LOAD OF 250 LBS APPLIED AT ANY POINT CONCURRENTLY, VERTICALLY DOWNWARD AND HORIZONTALLY.

   UNIFORM LOAD OF 50 LB PER LINEAR FOOT APPLIED CONCURRENTLY, VERTICALLY DOWNWARD AND HORIZONTALLY.

   CONCENTRATED AND UNIFORM LOADS ABOVE ASSUMED TO ACT CONCURRENTLY.

3. INFILL AREA OF GUARDRAIL SYSTEMS:

   HORIZONTAL CONCENTRATED LOAD OF 200 LBS APPLIED TO AN AREA OF ONE SQUARE FOOT AT ANY POINT IN THE SYSTEM INCLUDING PANELS, INTERMEDIATE RAILS BALUSTERS, OR OTHER ELEMENTS COMPOSING THE INFILL AREA.

   ABOVE LOAD NEED NOT BE ASSUMED TO ACT CONCURRENTLY WITH UNIFORM HORIZONTAL LOADS ON TOP RAILS OF RAILING SYSTEMS IN DETERMINING STRESS ON GUARD.

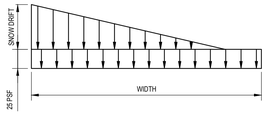
4. TREADS OF STEEL STAIRS:

   UNIFORM LOAD OF 100 LB PER SQUARE FOOT OR A CONCENTRATED LOAD OF 300 LBF ON AN AREA OF 4 SQUARE INCHES LOCATED IN THE CENTER OF THE TREAD, WHICHEVER PRODUCES THE GREATER STRESS WITHOUT DEFLECTION.

5. PLATFORMS OF STEEL STAIRS:

   UNIFORM LIVE LOAD OF 100 LB PER SQUARE FOOT.

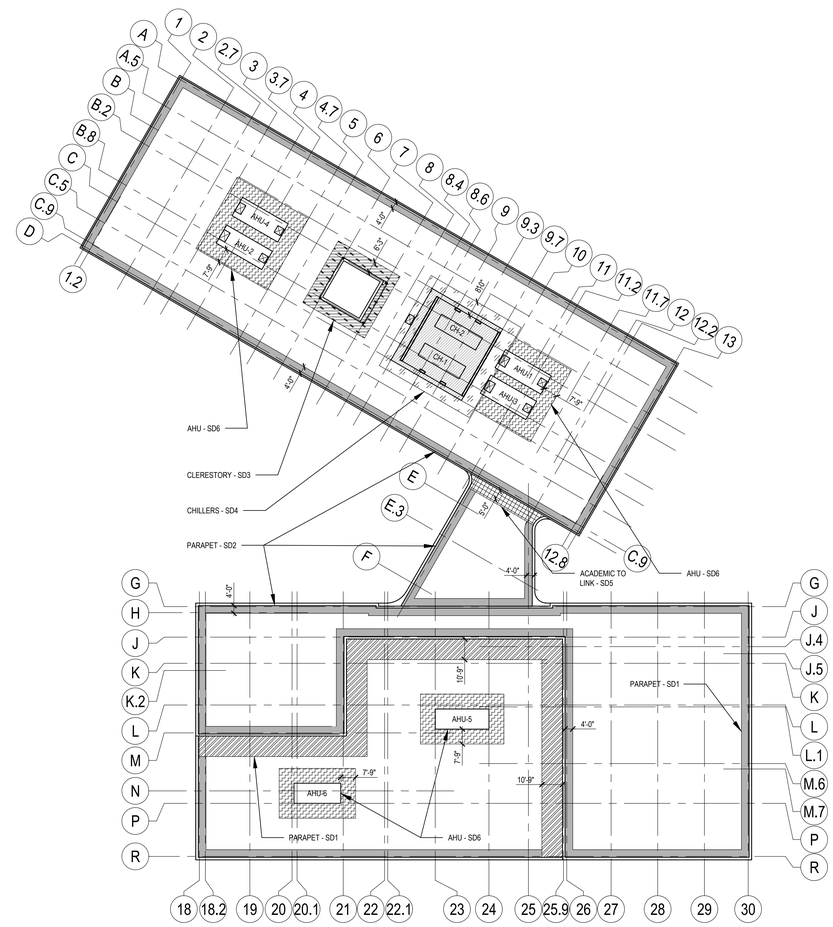
4



SNOW DRIFT DIAGRAM @ ROOF

MARK	MAX. SNOW DRIFT (PSF)	WIDTH	DESCRIPTION
SD1	46.4	10'-9"	GYM HIGH TO LOW ROOF
SD2	17.2	4'-0"	PARAPET
SD3	26.6	6'-3"	CLERESTORY
SD4	34.5	8'-0"	CHILLER
SD5	30.4	7'-0"	ACADEMIC TO LINK ROOF
SD6	33.3	7'-9"	AHU

NOTES:
1. "SDX" INDICATES SNOW DRIFT MARK, SEE SCHEDULE.
2. ROOF DESIGN LOAD IS: 25PSF BASE SNOW LOAD ENTIRE AREA + SNOWDRIFT, WHERE APPLICABLE + MECH. WT, WHERE APPLICABLE.
3. ROOFTOP MATERIAL (ABOVE METAL DECK) 18 PSF.



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S0.2

ROOF SNOW DRIFT PLAN AND DIAGRAM

N.T.S.

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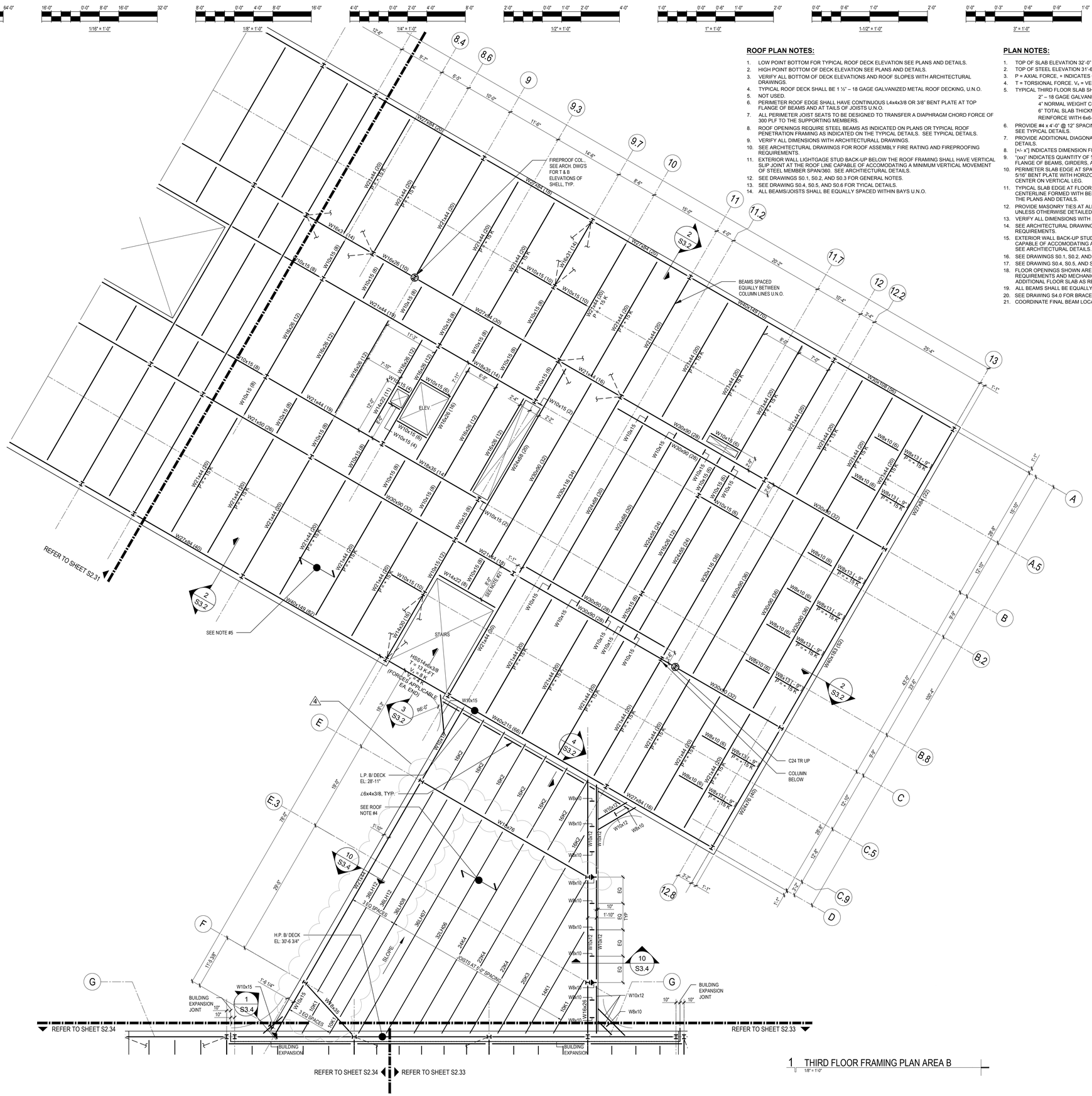
PBC Contract No: 05165
Project No.: N/A

Title
GENERAL NOTES

Sheet
S0.2



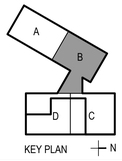
1 THIRD FLOOR FRAMING PLAN AREA B
1/8" = 1'-0"

ROOF PLAN NOTES:

1. LOW POINT BOTTOM FOR TYPICAL ROOF DECK ELEVATION SEE PLANS AND DETAILS.
2. HIGH POINT BOTTOM OF DECK ELEVATION SEE PLANS AND DETAILS.
3. VERIFY ALL BOTTOM OF DECK ELEVATIONS AND ROOF SLOPES WITH ARCHITECTURAL DRAWINGS.
4. TYPICAL ROOF DECK SHALL BE 1 ½" – 18 GAGE GALVANIZED METAL ROOF DECKING, U.N.O.
5. NOT USED.
6. PERIMETER ROOF EDGE SHALL HAVE CONTINUOUS L4x4x3/8 OR 3/8" BENT PLATE AT TOP FLANGE OF BEAMS AND AT TAILS OF JOISTS U.N.O.
7. ALL PERIMETER JOIST SEATS TO BE DESIGNED TO TRANSFER A DIAPHRAGM CHORD FORCE OF 300 PLF TO THE SUPPORTING MEMBERS.
8. ROOF OPENINGS REQUIRE STEEL BEAMS AS INDICATED ON PLANS OR TYPICAL ROOF PENETRATION FRAMING AS INDICATED ON THE TYPICAL DETAILS. SEE TYPICAL DETAILS.
9. VERIFY ALL DIMENSIONS WITH ARCHITECTURALL DRAWINGS.
10. SEE ARCHITECTURAL DRAWINGS FOR ROOF ASSEMBLY FIRE RATING AND FIREPROOFING REQUIREMENTS.
11. EXTERIOR WALL LIGHTGAGE STUD BACK-UP BELOW THE ROOF FRAMING SHALL HAVE VERTICAL SLIP JOINT AT THE ROOF LINE CAPABLE OF ACCOMODATING A MINIMUM VERTICAL MOVEMENT OF STEEL MEMBER SPAN/360. SEE ARCHTECTURAL DETAILS.
12. SEE DRAWINGS S0.1, S0.2, AND S0.3 FOR GENERAL NOTES.
13. SEE DRAWING S0.4, S0.5, AND S0.6 FOR TYICAL DETAILS.
14. ALL BEAMS/JOISTS SHALL BE EQUALLY SPACED WITHIN BAYS U.N.O.

PLAN NOTES:

1. TOP OF SLAB ELEVATION 32'-0" TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS AND DETAILS.
2. TOP OF STEEL ELEVATION 31'-6" TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS AND DETAILS.
3. P = AXIAL FORCE, + INDICATES COMPRESSION, - INDICATES TENSION.
4. T = TORSIONAL FORCE. V_x = VERTICAL SHEAR FORCE. V_y = HORIZONTAL SHEAR FORCE.
5. TYPICAL THIRD FLOOR SLAB SHALL TO BE:
   2" – 18 GAGE GALVANIZED COMPOSITE METAL DECKING
   4" NORMAL WEIGHT CONCRETE FILL
   6" TOTAL SLAB THICKNESS
   REINFORCE WITH 6x6-W2.1xW2.1 WELDED WIRE FABRIC
6. PROVIDE #4 x 4'-0" @ 12" SPACING ADDITIONAL TOP BAR REINFORCEMENT OVER ALL GIRDERS. SEE TYPICAL DETAILS.
7. PROVIDE ADDITIONAL DIAGONAL #4 TOP BARS EACH SIDE AT ALL COLUMNS. SEE TYPICAL DETAILS.
8. [+/- x"] INDICATES DIMENSION FROM BASE ELEVATION NOTED ABOVE FOR TOP OF STEEL.
9. "(xx)" INDICATES QUANTITY OF ¾" DIAMETER x 4 ½" HEADED STUD ANCHORS WELDED TO TOP FLANGE OF BEAMS, GIRDERS, AND SPANDRELS AS NOTED ON THE PLANS.
10. PERIMETER SLAB EDGE AT SPANDREL BEAMS/GIRDERS SHALL HAVE CONTINUOUS L6x6x5/16 OR 5/16" BENT PLATE WITH HORIZONTAL 1/2" DIAMETER x 5" HEADED STUD ANCHOR AT 18" ON CENTER ON VERTICAL LEG.
11. TYPICAL SLAB EDGE AT FLOOR PENETRATIONS TO BE 6" FROM STEEL BEAM/GIRDER CENTERLINE FORMED WITH BENT GAGE MATERIAL POUR STOP UNLESS OTHERWISE SHOWN ON THE PLANS AND DETAILS.
12. PROVIDE MASONRY TIES AT ALL COLUMNS WITH ADJACENT MASONRY (BRICK AND/OR CMU) UNLESS OTHERWISE DETAILED/NOTED ON THE PLANS.
13. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
14. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ASSEMBLY FIRE RATING AND FIREPROOFING REQUIREMENTS.
15. EXTERIOR WALL BACK-UP STUD FRAMING SHALL HAVE VERTICAL SLIP JOINT AT THE FLOOR LINE CAPABLE OF ACCOMODATING A MINIMUM VERTICAL MOVEMENT OF STEEL MEMBER SPAN/360. SEE ARCHTECTURAL DETAILS.
16. SEE DRAWINGS S0.1, S0.2, AND S0.3 FOR GENERAL NOTES.
17. SEE DRAWING S0.4, S0.5, AND S0.6 FOR TYICAL DETAILS.
18. FLOOR OPENINGS SHOWN ARE TO BE COORDINATED WITH ARCHITECTURAL FIRESTOP REQUIREMENTS AND MECHANICAL DUCTS. PROVIDE SUPPLEMENTAL W8X10 FRAMING AND ADDITIONAL FLOOR SLAB AS REQUIRED TO ACHIEVE THE NECESSARY FIRE RATED ASSEMBLY.
19. ALL BEAMS SHALL BE EQUALLY SPACED WITHIN BAYS U.N.O.
20. SEE DRAWING S4.0 FOR BRACED FRAME ELEVATIONS, SIZES AND FORCES.
21. COORDINATE FINAL BEAM LOCATION WITH STAIR MANUFACTURER.



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PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

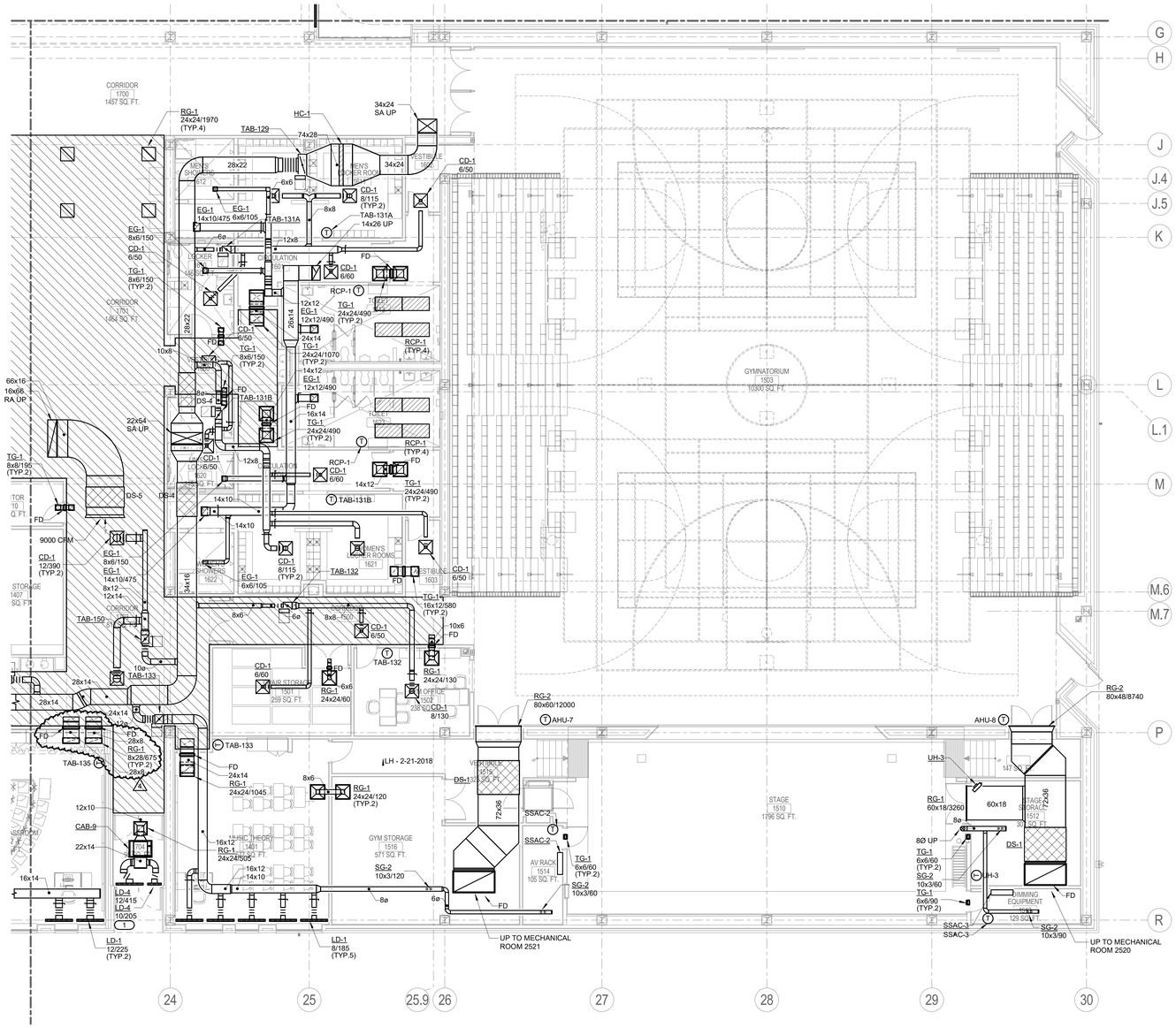
Title THIRD FLOOR FRAMING PLAN ACADEMIC WING AREA B

Sheet
S2.32

1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"

KEYNOTES: #

1. LINEAR DIFFUSERS SHALL BE CONTINUOUS. PROVIDE BLANKOFFS FOR ALL INACTIVE SECTIONS.



NORTH

1 FIRST FLOOR PLAN AREA C - VENTILATION

1/8" = 1'-0"

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Illinois Design Firm Registration #184-000973

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KEY PLAN N

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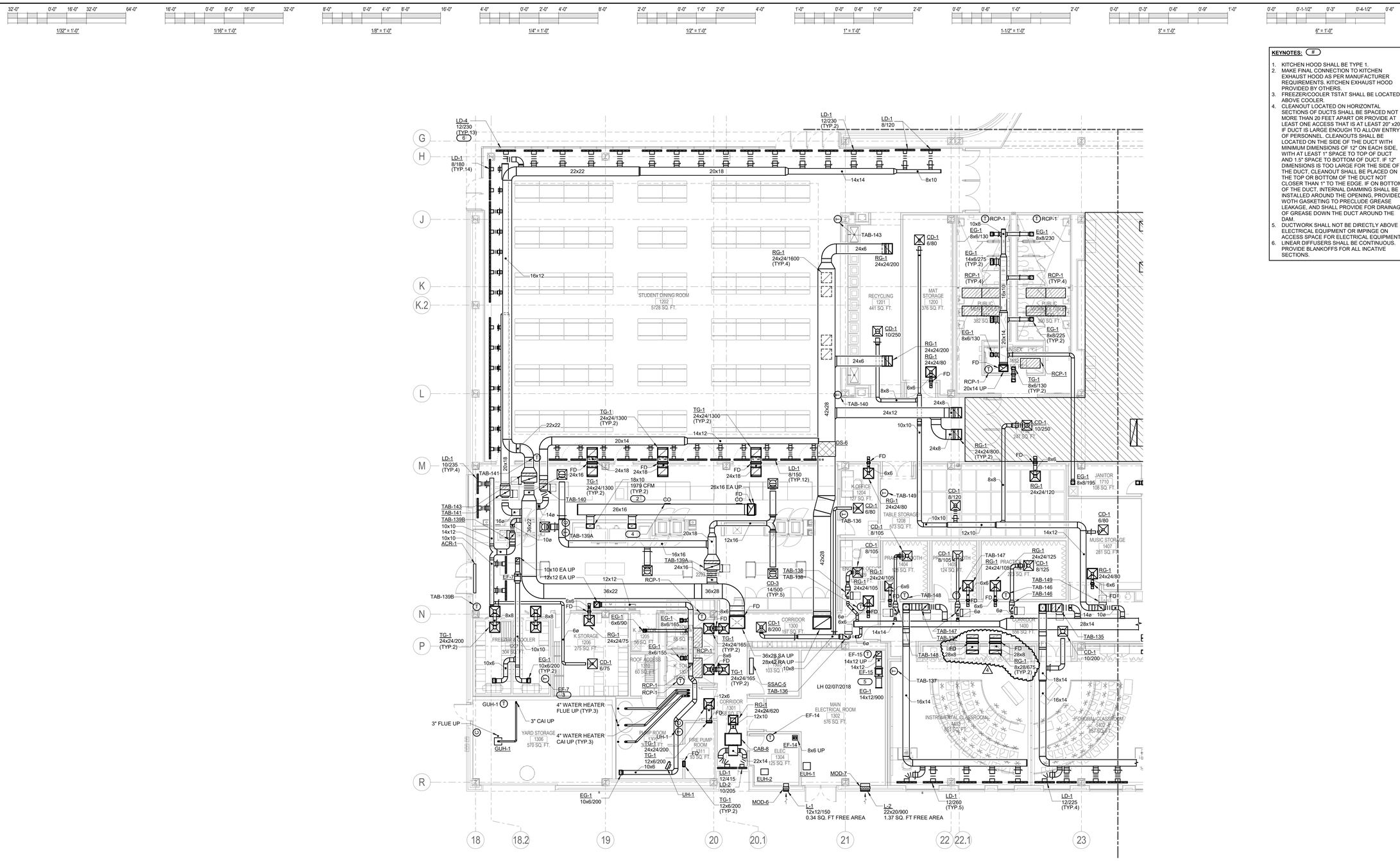
Title
FIRST FLOOR PLAN AREA C - VENTILATION

Sheet
M1.13



1 **FIRST FLOOR PLAN AREA D - VENTILATION**

1/8" = 1'-0"

KEYNOTES: (#)

1. KITCHEN HOOD SHALL BE TYPE 1.
2. MAKE FINAL CONNECTION TO KITCHEN EXHAUST HOOD AS PER MANUFACTURER REQUIREMENTS. KITCHEN EXHAUST HOOD PROVIDED BY OTHERS.
3. FREEZER/COOLER TSTAT SHALL BE LOCATED ABOVE COOLER.
4. CLEANOUT LOCATED ON HORIZONTAL SECTIONS OF DUCTS SHALL BE SPACED NOT MORE THAN 20 FEET APART OR PROVIDE AT LEAST ONE ACCESS THAT IS AT LEAST 20" x20" IF DUCT IS LARGE ENOUGH TO ALLOW ENTRY OF PERSONNEL. CLEANOUTS SHALL BE LOCATED ON THE SIDE OF THE DUCT WITH MINIMUM DIMENSIONS OF 12" ON EACH SIDE, WITH AT LEAST 1" SPACE TO TOP OF DUCT AND 1.5" SPACE TO BOTTOM OF DUCT. IF 12" DIMENSIONS IS TOO LARGE FOR THE SIDE OF THE DUCT, CLEANOUT SHALL BE PLACED ON THE TOP OR BOTTOM OF THE DUCT NOT CLOSER THAN 1" TO THE EDGE. IF ON BOTTOM OF THE DUCT, INTERNAL DAMMING SHALL BE INSTALLED AROUND THE OPENING, PROVIDED WOTH GASKETING TO PRECLUDE GREASE LEAKAGE, AND SHALL PROVIDE FOR DRAINAGE OF GREASE DOWN THE DUCT AROUND THE DAM.
5. DUCTWORK SHALL NOT BE DIRECTLY ABOVE ELECTRICAL EQUIPMENT OR IMPINGE ON ACCESS SPACE FOR ELECTRICAL EQUIPMENT.
6. LINEAR DIFFUSERS SHALL BE CONTINUOUS. PROVIDE BLANKOFFS FOR ALL INCATIVE SECTIONS.

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Project No.: N/A

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FIRST FLOOR PLAN AREA D - VENTILATION

Sheet

M1.14

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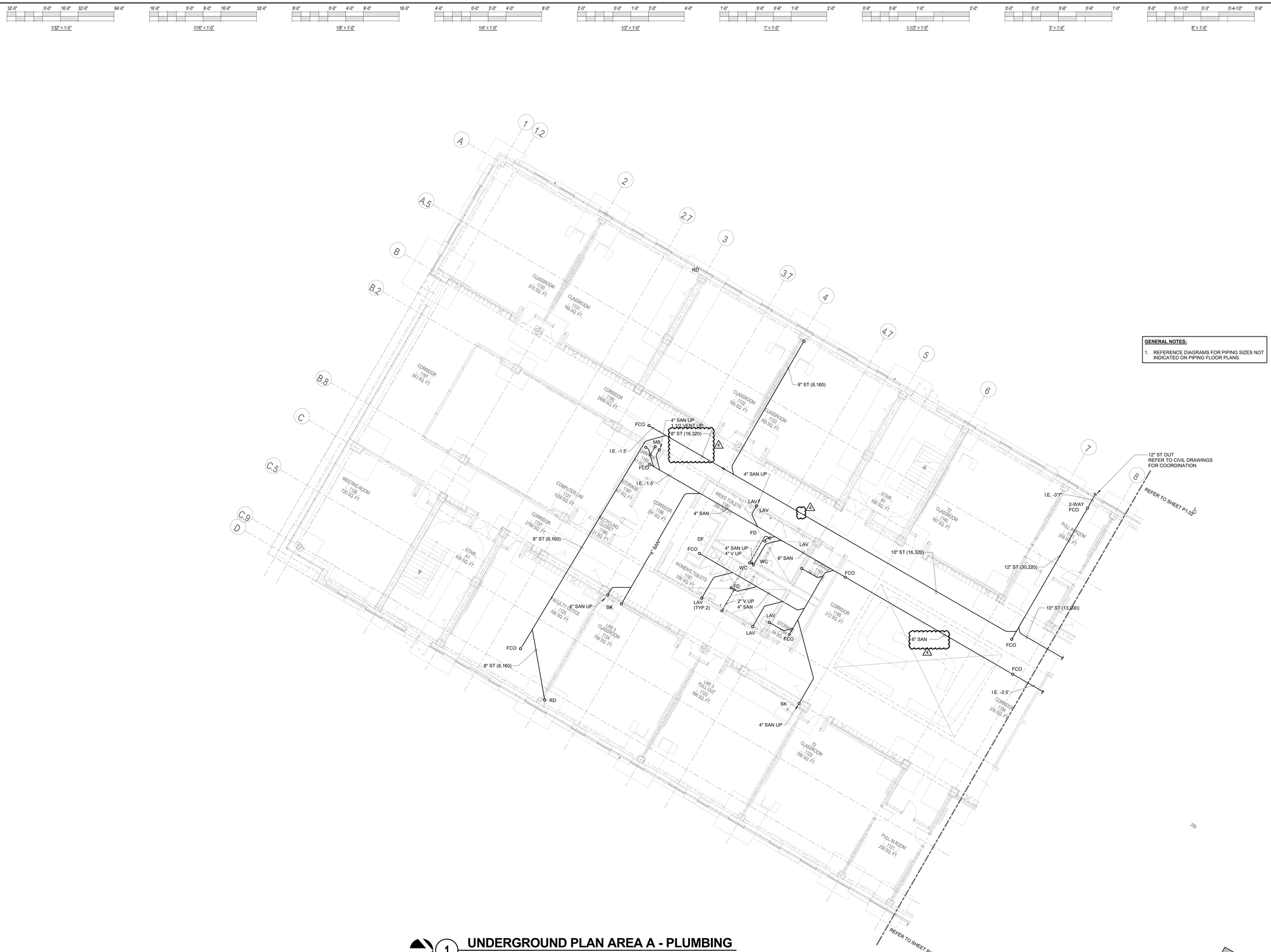
KEY PLAN



1 UNDERGROUND PLAN AREA A - PLUMBING

1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.

READ DUNNING SCHOOL

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Mark	Description	Date
4	ADDENDUM #3	02/28/2018
3	ADDENDUM #2	02/21/2018
2	ADD #1 & PERMIT REV	02/07/2018
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	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL

PBC Contract No: 05165

Project No.: N/A

Title

UNDERGROUND PLAN AREA A - PLUMBING

Sheet

P1.01

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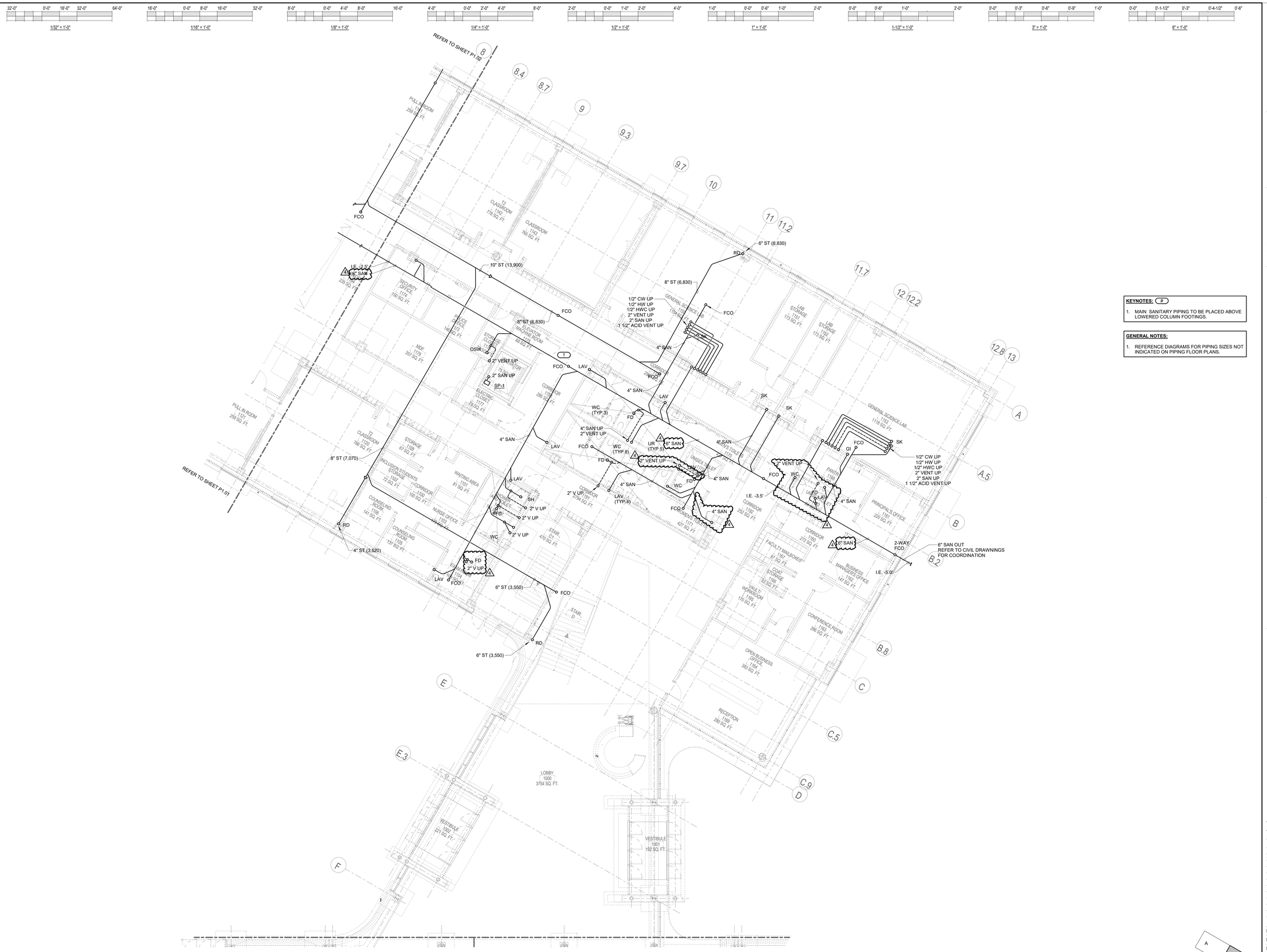
KEY PLAN N



1 UNDERGROUND PLAN AREA B - PLUMBING

1/8" = 1'-0"

NORTH

KEYNOTES: #

1. MAIN SANITARY PIPING TO BE PLACED ABOVE LOWERED COLUMN FOOTINGS.

GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.

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	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL

PBC Contract No: 05165

Project No.: N/A

Title
UNDERGROUND PLAN AREA B - PLUMBING

Sheet
P1.02

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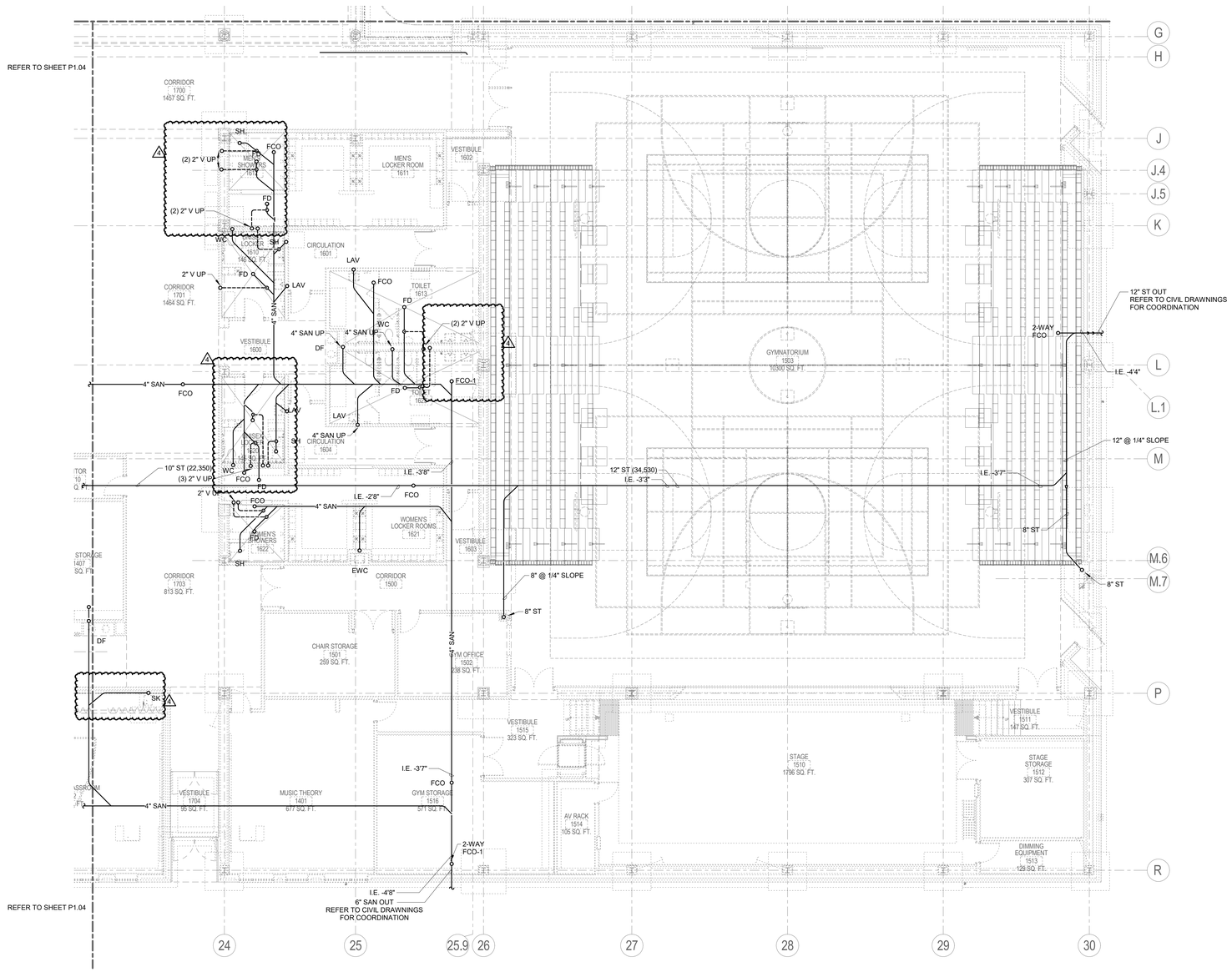
KEY PLAN

1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 UNDERGROUND PLAN AREA C - PLUMBING

1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.

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	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
UNDERGROUND PLAN AREA C - PLUMBING

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KEY PLAN A B C D N

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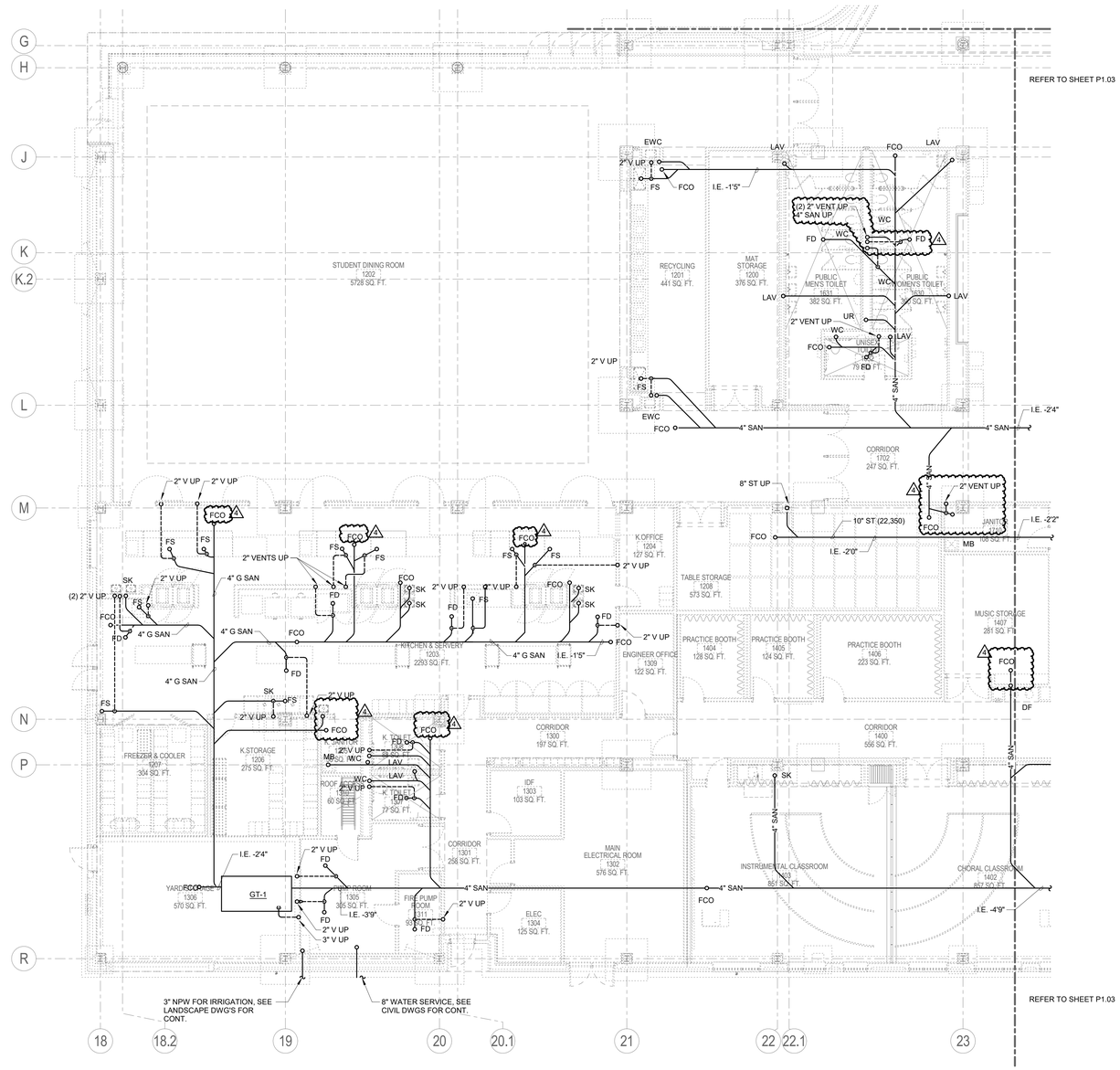

1 UNDERGROUND PLAN AREA D - PLUMBING

1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.

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PBC Project Name: READ DUNNING SCHOOL

PBC Contract No: 05165

Project No.: N/A

Title
UNDERGROUND PLAN AREA D - PLUMBING

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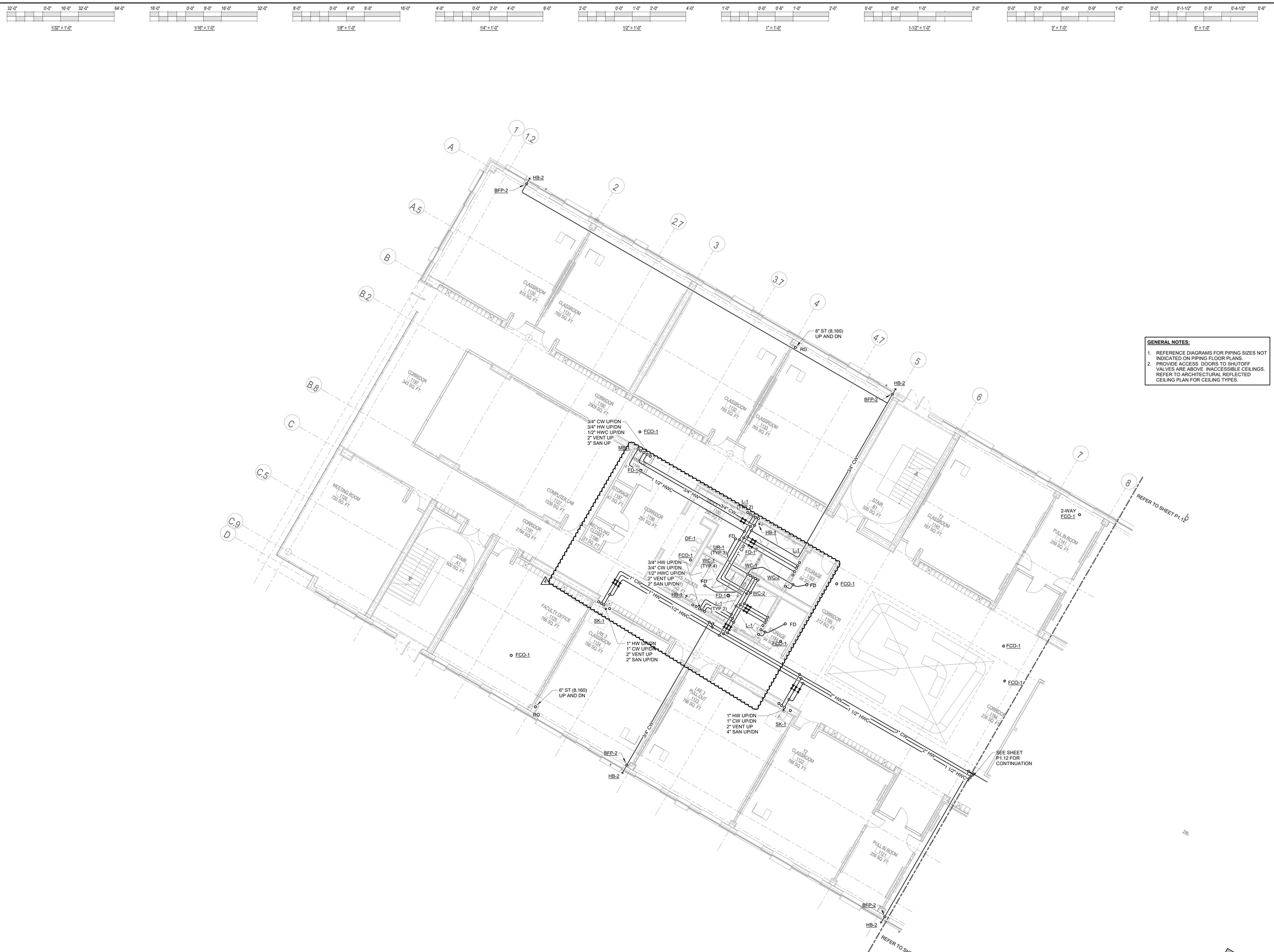

NORTH

1 FIRST FLOOR PLAN AREA A - PLUMBING

1/8" = 1'-0"

GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.
2. PROVIDE ACCESS DOORS TO SHUTOFF VALVES ARE ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES.

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PUBLIC BUILDING COMMISSION

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	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL

PBC Contract No.: 05165

Project No.: N/A

Title
FIRST FLOOR PLAN AREA A - PLUMBING

Sheet
P1.11

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KEY PLAN A B C D N

1 FIRST FLOOR PLAN AREA B - PLUMBING

1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.
2. PROVIDE ACCESS DOORS TO SHUTOFF VALVES ARE ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES.

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KEY PLAN

READ DUNNING SCHOOL

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CITY OF CHICAGO, MAYOR RAHM EMANUEL

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PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
FIRST FLOOR PLAN AREA B - PLUMBING

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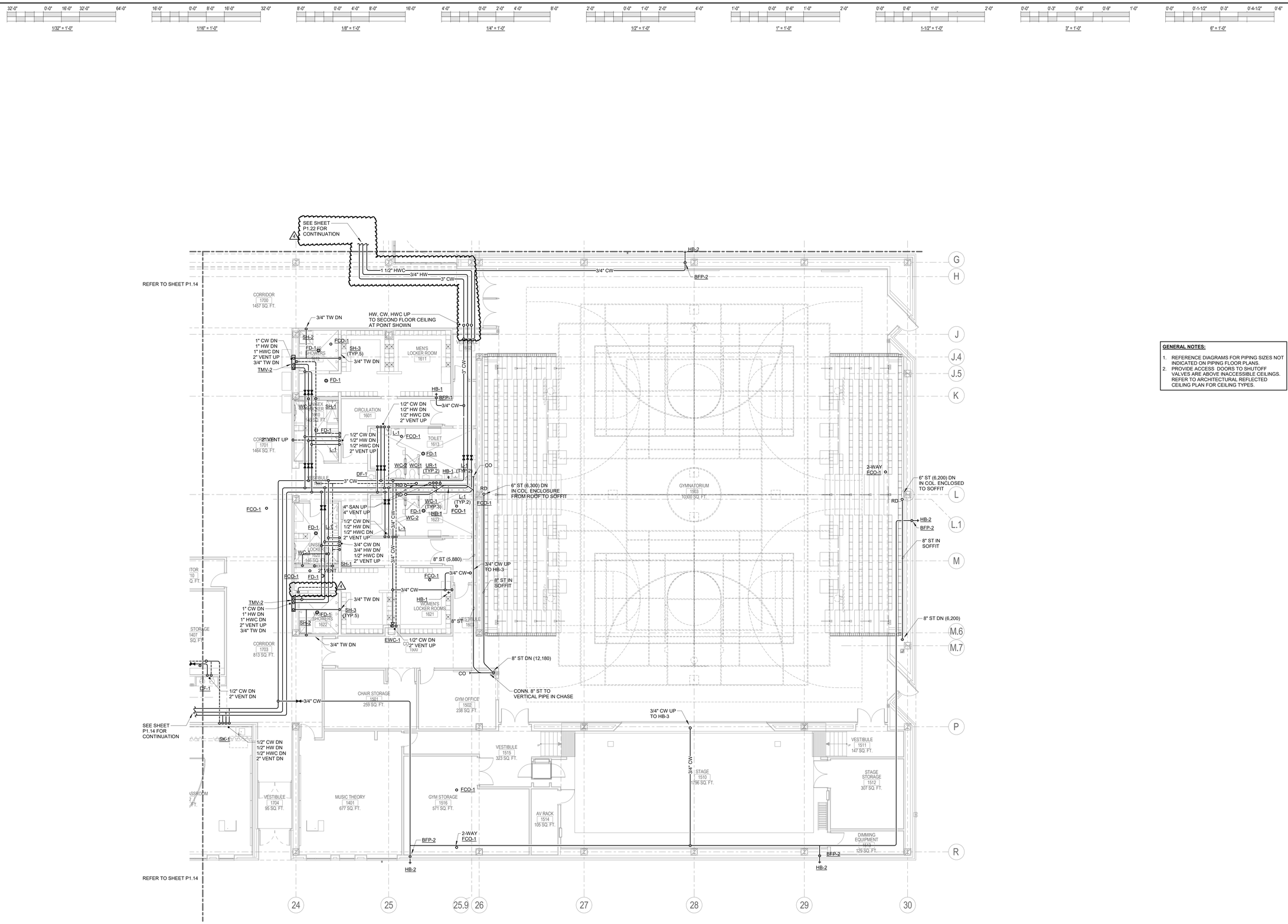

1 **FIRST FLOOR PLAN AREA C - PLUMBING**

1/8" = 1'-0"

GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.
2. PROVIDE ACCESS DOORS TO SHUTOFF VALVES ARE ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES.

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PBC Project Name: READ DUNNING SCHOOL
PBC Contract No.: 05165
Project No.: N/A

Title
FIRST FLOOR PLAN AREA C - PLUMBING

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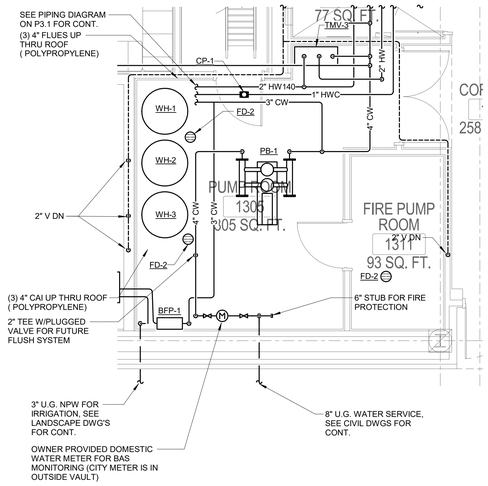
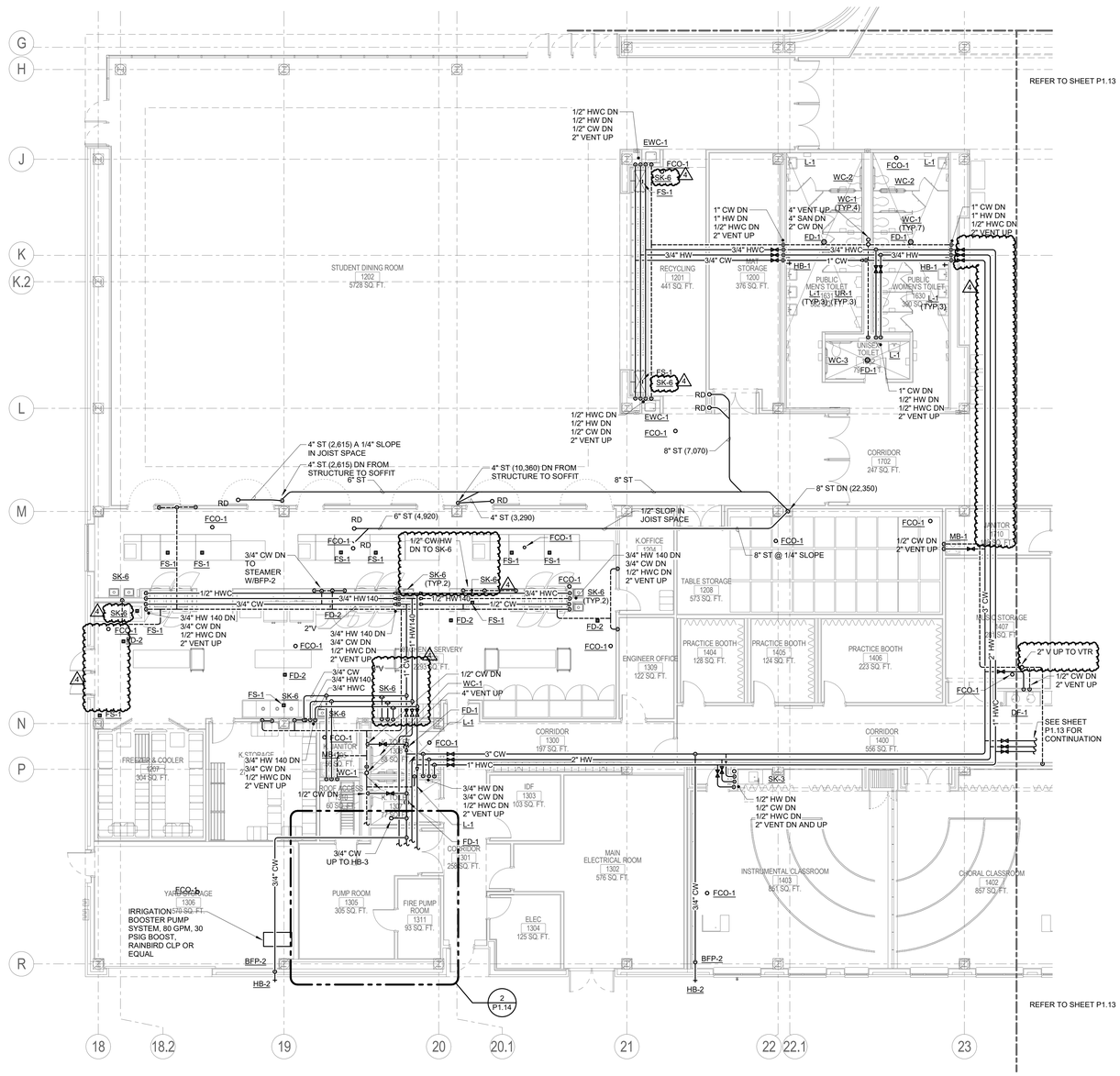


2 PUMP ROOM ENLARGE PLAN PLUMBING

1/4" = 1'-0"



1 FIRST FLOOR PLAN AREA D - PLUMBING

1/8" = 1'-0"

GENERAL NOTES:

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PBC Project Name: READ DUNNING SCHOOL

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Title
FIRST FLOOR PLAN AREA D - PLUMBING

Sheet
P1.14

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Illinois Design Firm Registration #184-000073

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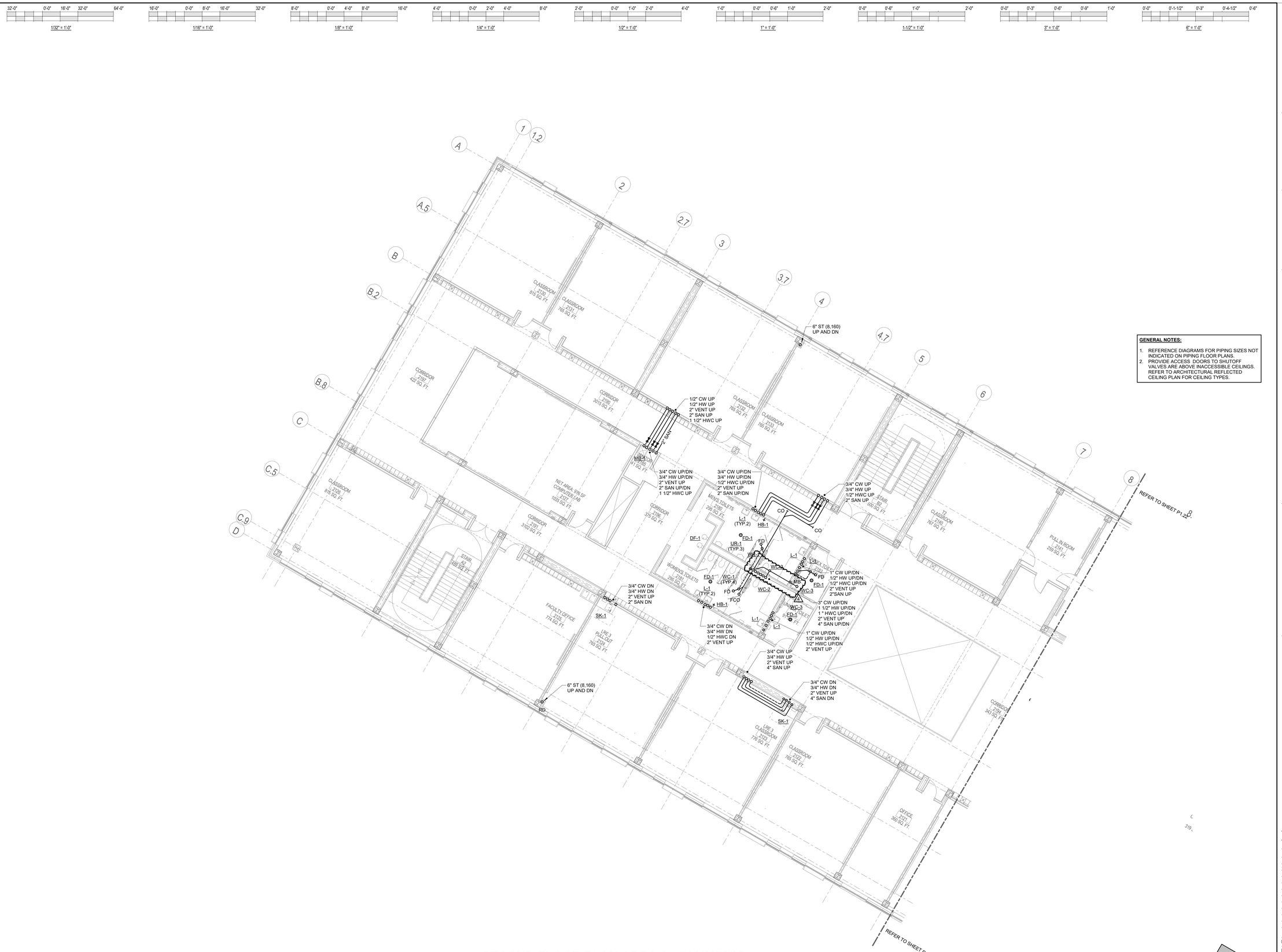
REFERENCE SCALE IN INCHES 0 1 2 3

KEY PLAN A B C D N



NORTH

1 **SECOND FLOOR PLAN AREA A - PLUMBING**

1/8" = 1'-0"

GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.
2. PROVIDE ACCESS DOORS TO SHUTOFF VALVES ARE ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES.

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KEY PLAN

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CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

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Mark	Description	Date
4	ADDENDUM #3	02/28/2018
3	ADDENDUM #2	02/21/2018
2	ADD #1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

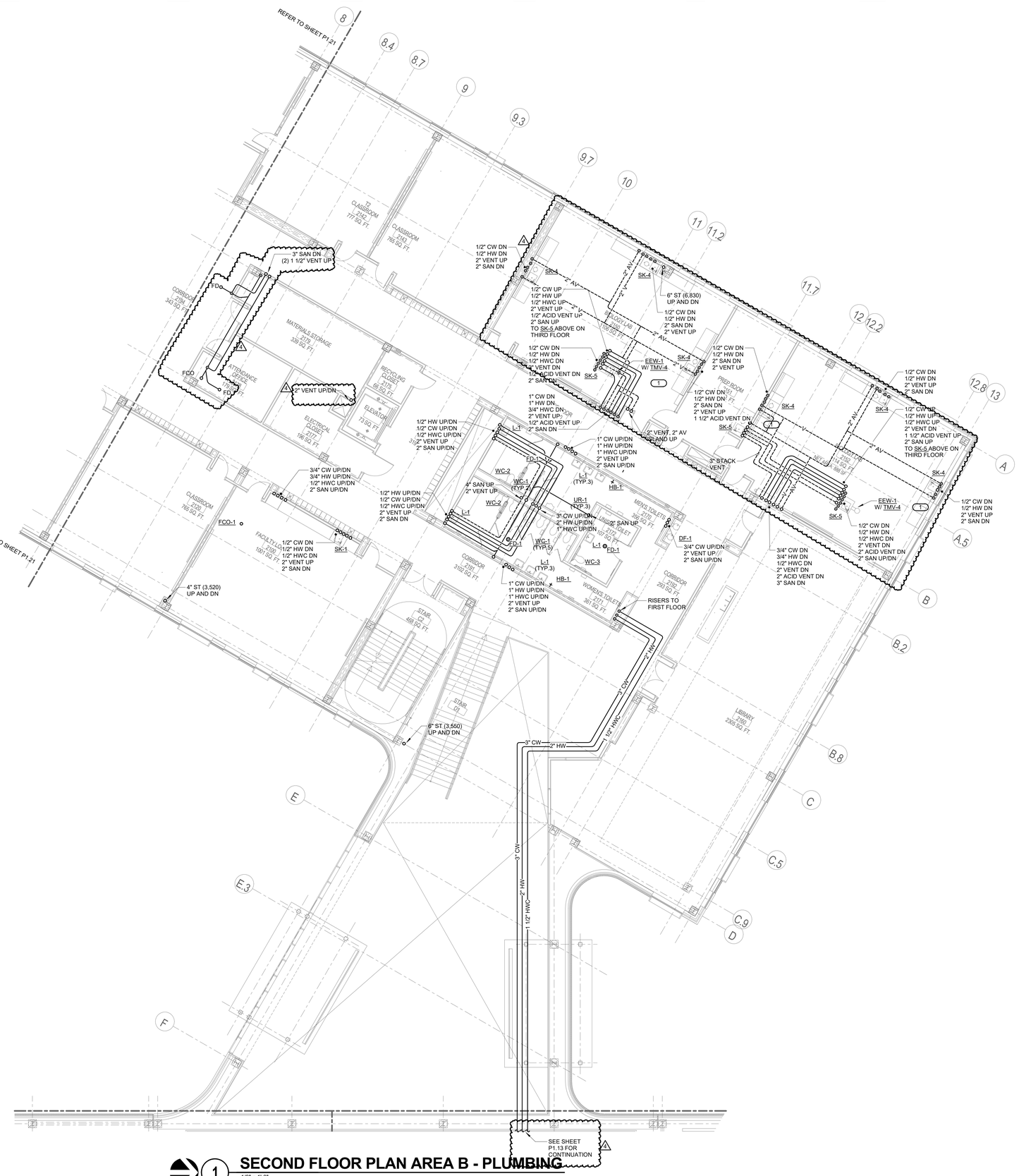
PBC Project Name: READ DUNNING SCHOOL

PBC Contract No: 05165

Project No.: N/A

Title
SECOND FLOOR PLAN AREA A - PLUMBING

Sheet
P1.21



1 SECOND FLOOR PLAN AREA B - PLUMBING

1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.
2. PROVIDE ACCESS DOORS TO SHUTOFF VALVES ARE ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES.

KEY NOTES:

1. REFER TO RISER DIAGRAM FOR DETAILED PLUMBING PLAN.

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KEY PLAN A B C D N

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Chicago Public Schools

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	DESIGN DEVELOPMENT	06/09/2017

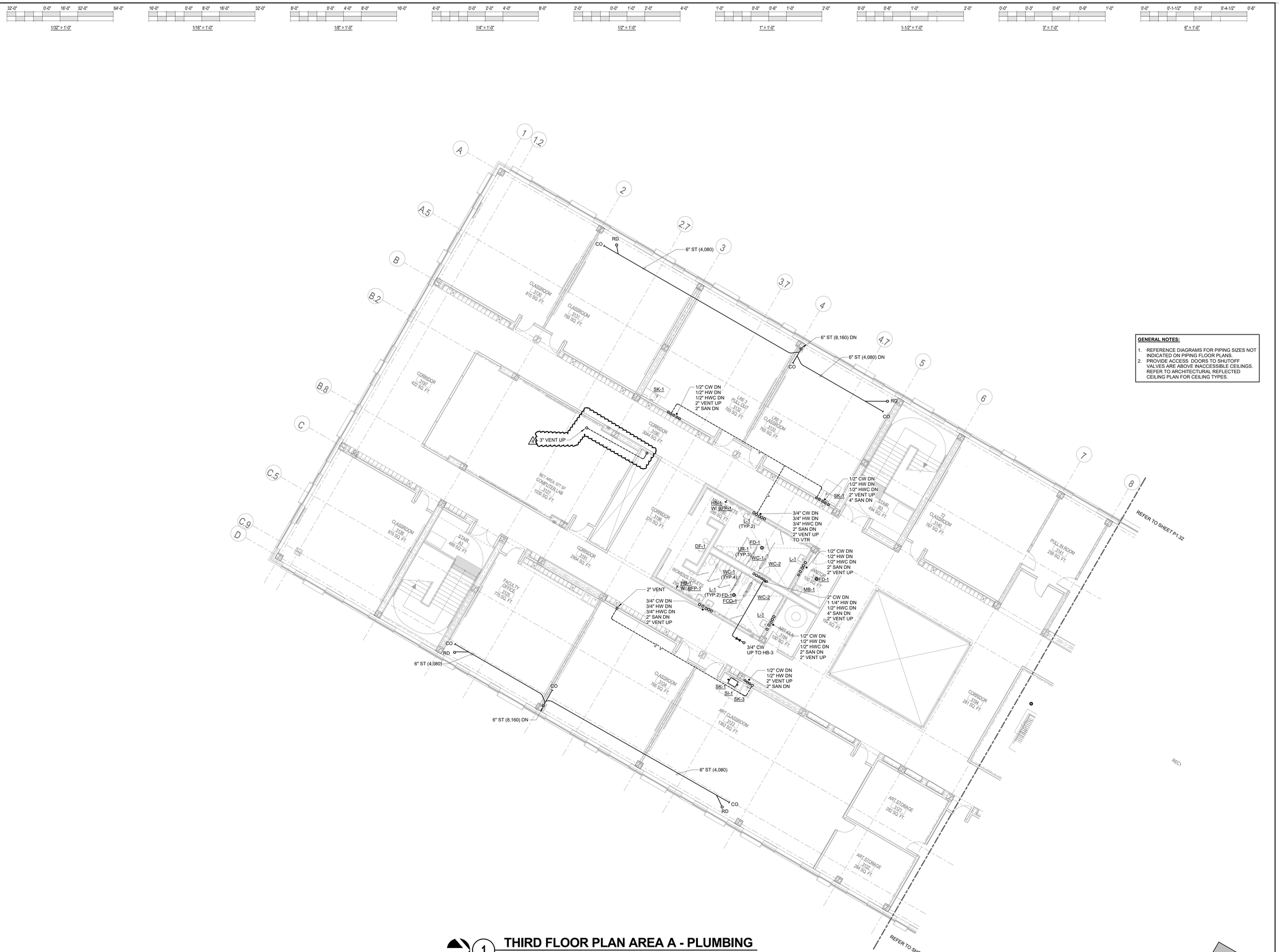
PBC Project Name: READ DUNNING SCHOOL

PBC Contract No: 05165

Project No.: N/A

Title
SECOND FLOOR PLAN AREA B - PLUMBING

Sheet
P1.22



GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.
2. PROVIDE ACCESS DOORS TO SHUTOFF VALVES ARE ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES.

1 THIRD FLOOR PLAN AREA A - PLUMBING

1/8" = 1'-0"

NORTH

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KEY PLAN: A B C D N

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	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
THIRD FLOOR PLAN AREA A - PLUMBING

Sheet
P1.31

GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.
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KEY NOTES:

1. REFER TO RISER DIAGRAM FOR DETAILED PLUMBING PLAN.

1 THIRD FLOOR PLAN AREA B - PLUMBING

1/8" = 1'-0"

NORTH

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	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL

PBC Contract No: 05165

Project No.: N/A

Title

THIRD FLOOR PLAN AREA B - PLUMBING

Sheet

P1.32

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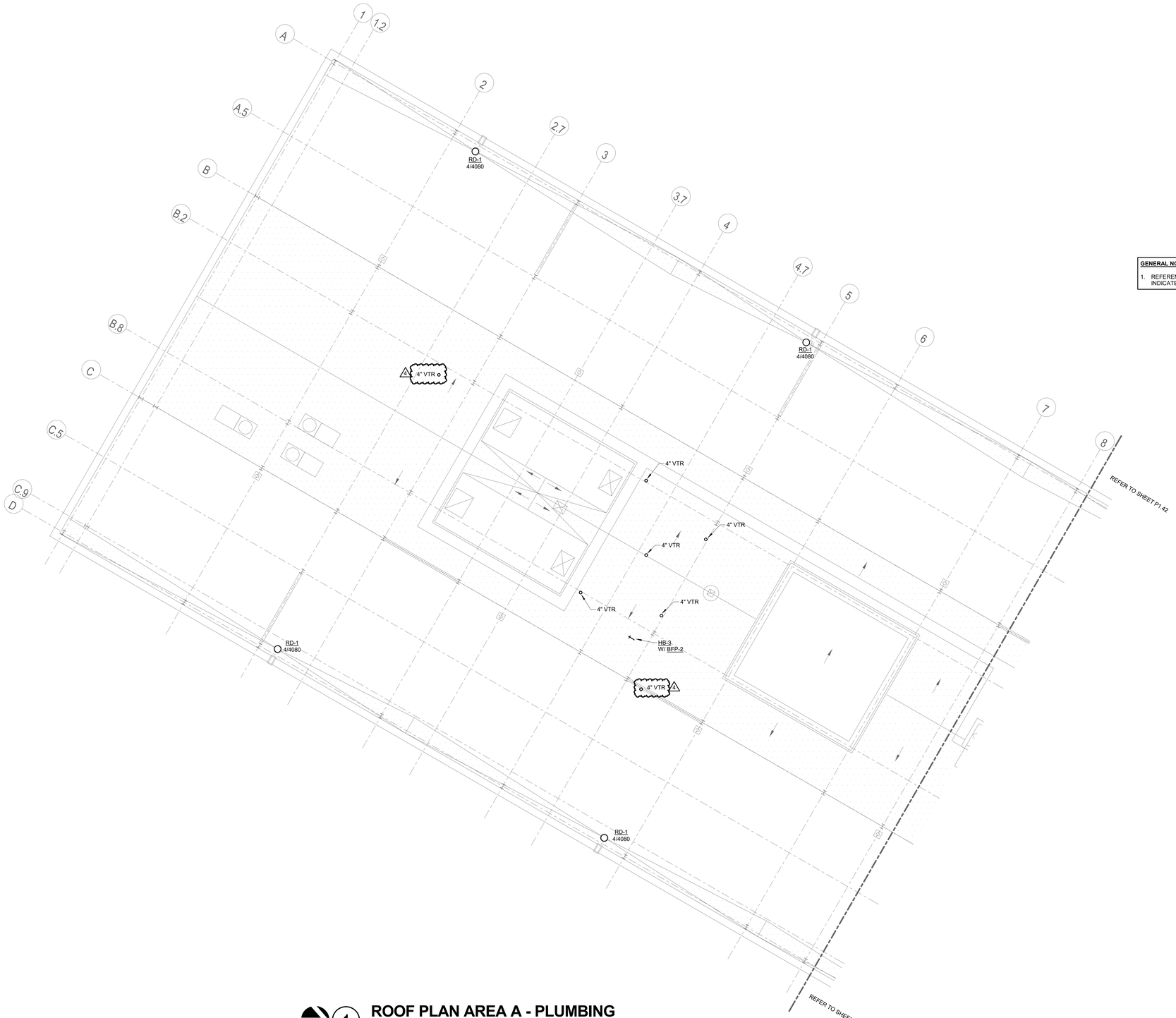
REFERENCE SCALE IN INCHES
0 1 2 3

KEY PLAN N

1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.

NORTH

1 ROOF PLAN AREA A - PLUMBING

1/8" = 1'-0"

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PROJECT # 17000721.00
Illinois Design Firm Registration #184-000973

REFERENCE SCALE IN INCHES: 0 1 2 3

KEY PLAN: A B C D N

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Chicago Public Schools

READ DUNNING SCHOOL

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Issuance

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	DESIGN DEVELOPMENT	06/09/2017

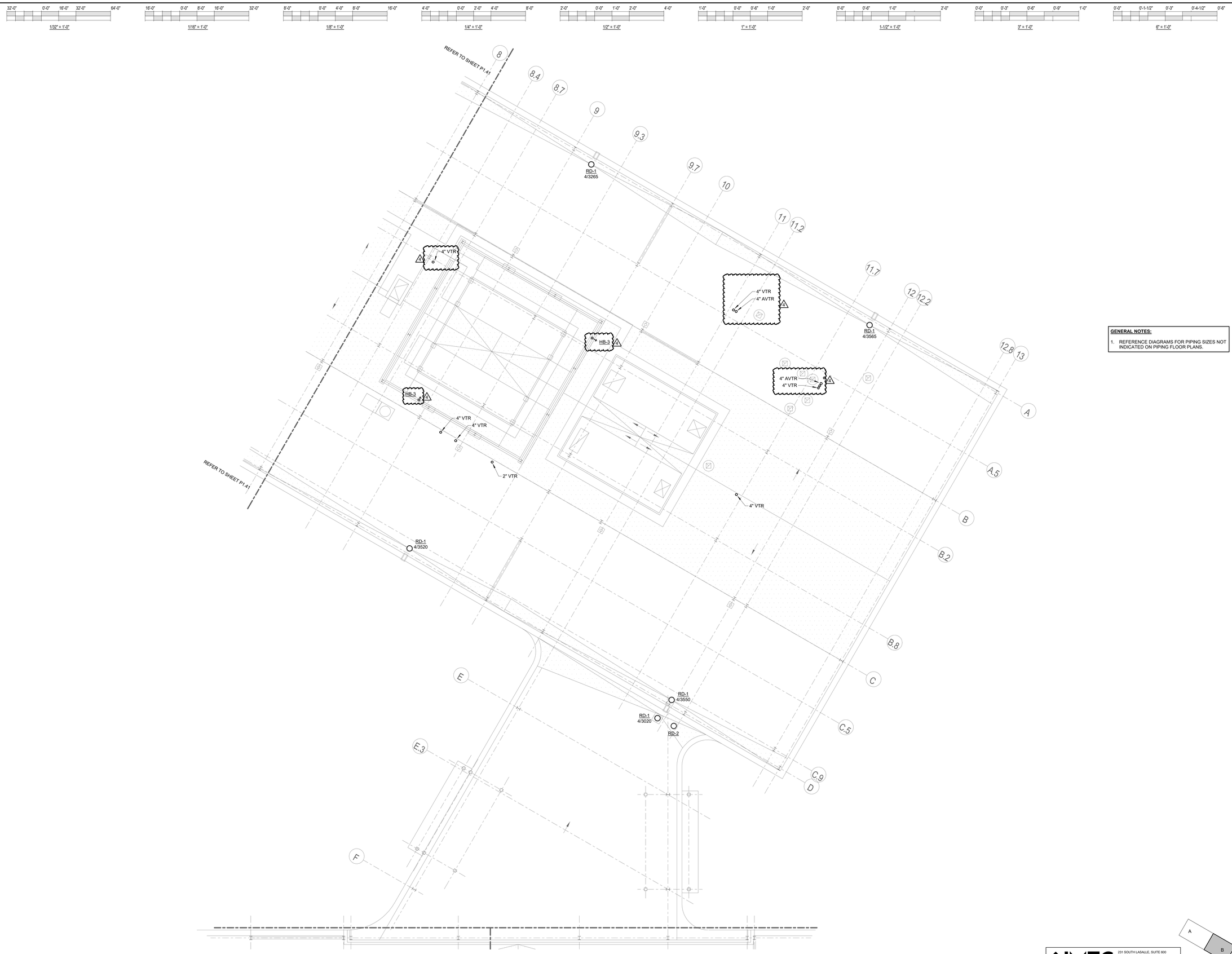
PBC Project Name: READ DUNNING SCHOOL

PBC Contract No.: 05165

Project No.: N/A

Title
ROOF PLAN AREA A - PLUMBING

Sheet
P1.41



1 **ROOF PLAN AREA B - PLUMBING**

1/8" = 1'-0"

GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.

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PBC Project Name: READ DUNNING SCHOOL

PBC Contract No: 05165

Project No.: N/A

Title

ROOF PLAN AREA B - PLUMBING

Sheet

P1.42

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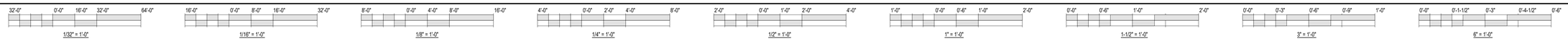
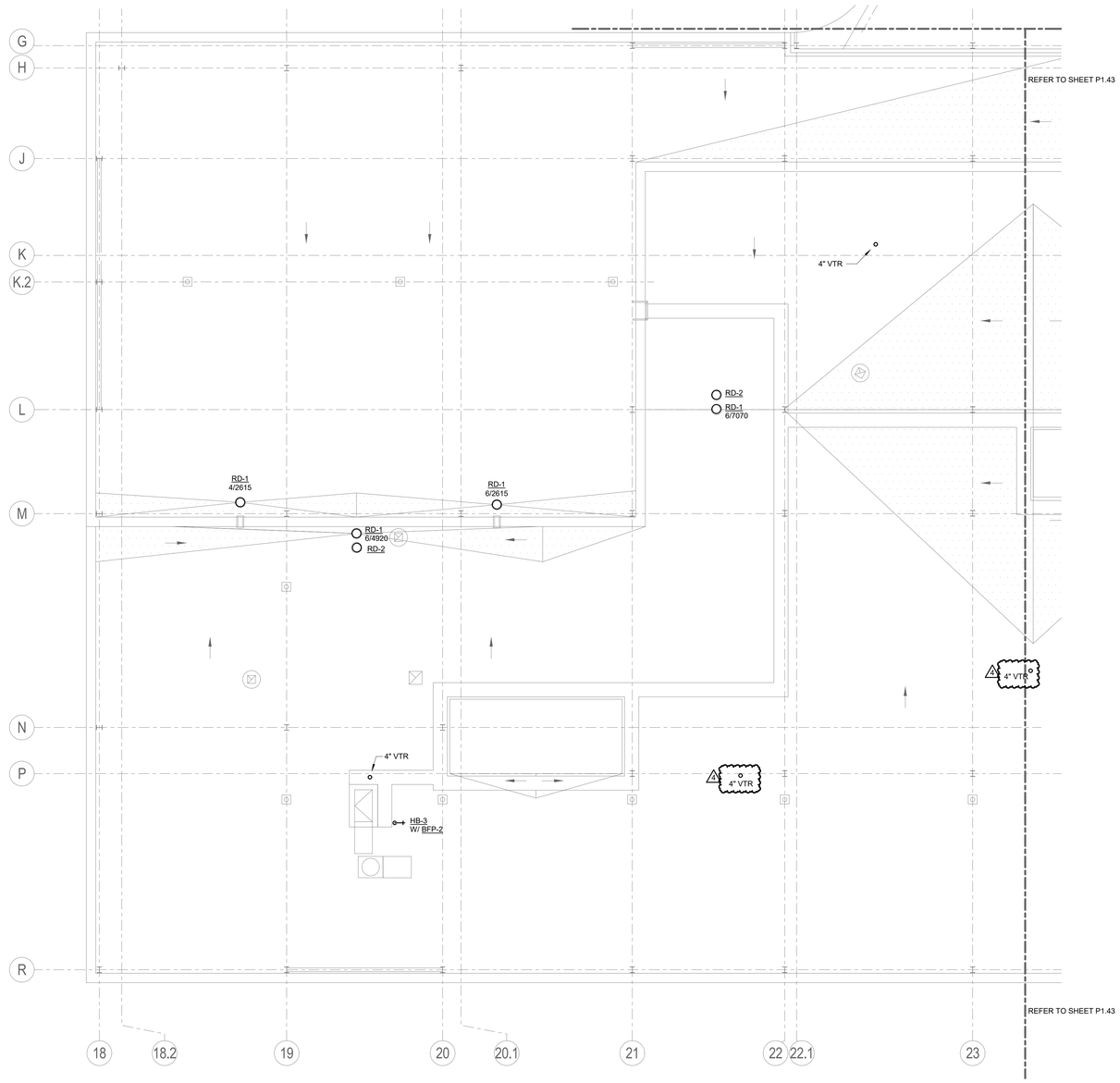
KEY PLAN N





GENERAL NOTES:

1. REFERENCE DIAGRAMS FOR PIPING SIZES NOT INDICATED ON PIPING FLOOR PLANS.

NORTH

1 ROOF PLAN AREA D - PLUMBING

1/8" = 1'-0"

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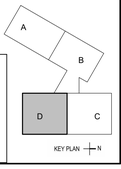

PUBLIC BUILDING COMMISSION

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READ DUNNING SCHOOL

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	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL

PBC Contract No.: 05165

Project No.: N/A

Title

ROOF PLAN AREA D - PLUMBING

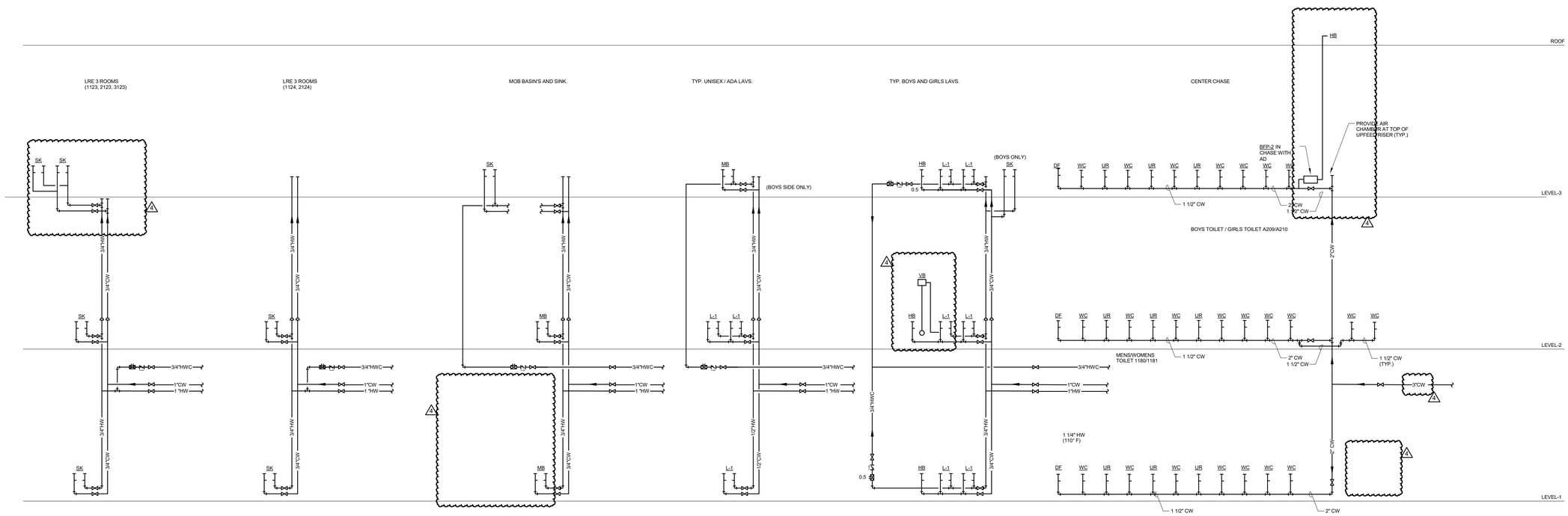
Sheet

P1.44

1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"

GENERAL NOTES:

1. REFERENCE FLOOR PLANS FOR PIPING SIZES NOT INDICATED ON RISER DIAGRAMS.



DOMESTIC WATER RISER DIAGRAM (AREA A.)

NO SCALE

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IMEG
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MEPFP Engineers of Record

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Acoustics Consultant

SCHULER SHOOK
750 N Orleans St # 400, Chicago, IL 60654
Theatre Consultant

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Food Service Consultant

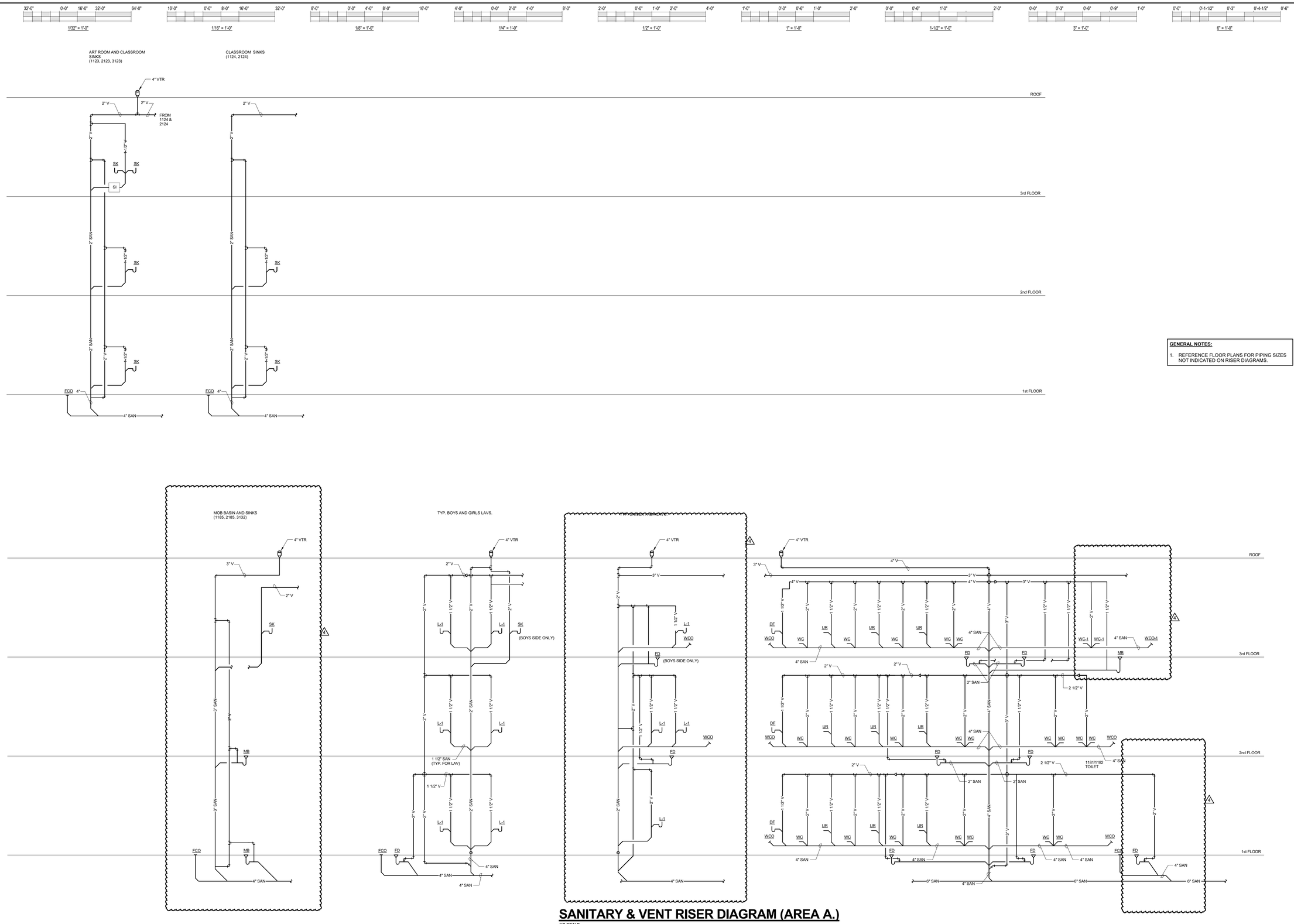
Issuance

Mark	Description	Date
4	ADDENDUM #3	02/28/2018
2	ADD #1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
PLUMBING DIAGRAMS

Sheet
P4.1



GENERAL NOTES:

1. REFERENCE FLOOR PLANS FOR PIPING SIZES NOT INDICATED ON RISER DIAGRAMS.

SANITARY & VENT RISER DIAGRAM (AREA A.)

NO SCALE

READ DUNNING SCHOOL

4071 N. OAK PARK AVENUE
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CHICAGO PUBLIC SCHOOLS
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PBC Contract No: 05165

Project No.: N/A

Title

PLUMBING DIAGRAMS

Sheet

P4.2

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SANITARY & VENT RISER DIAGRAM (AREA C & D)

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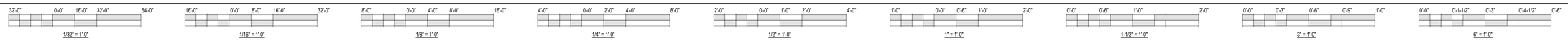
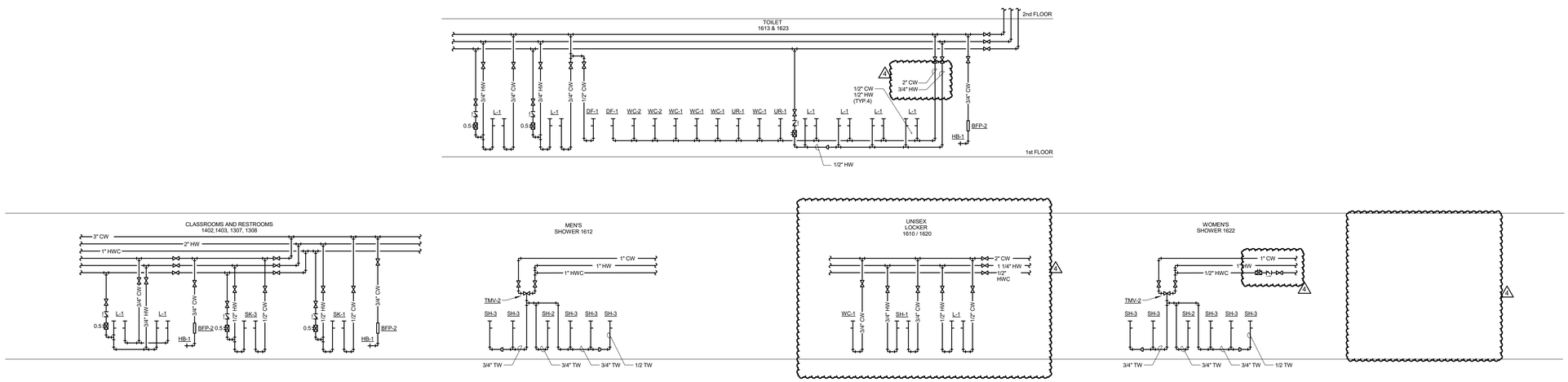
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
PLUMBING DIAGRAMS

Sheet
P4.3



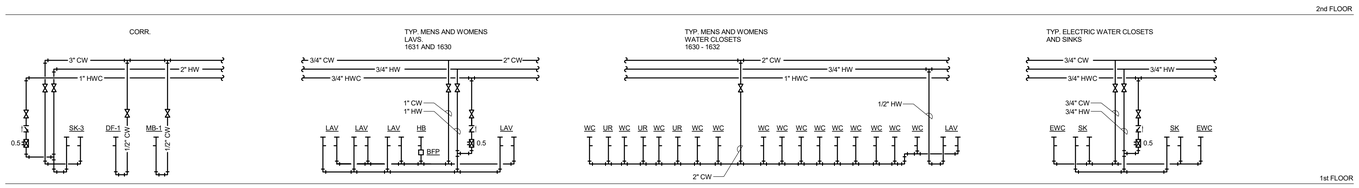


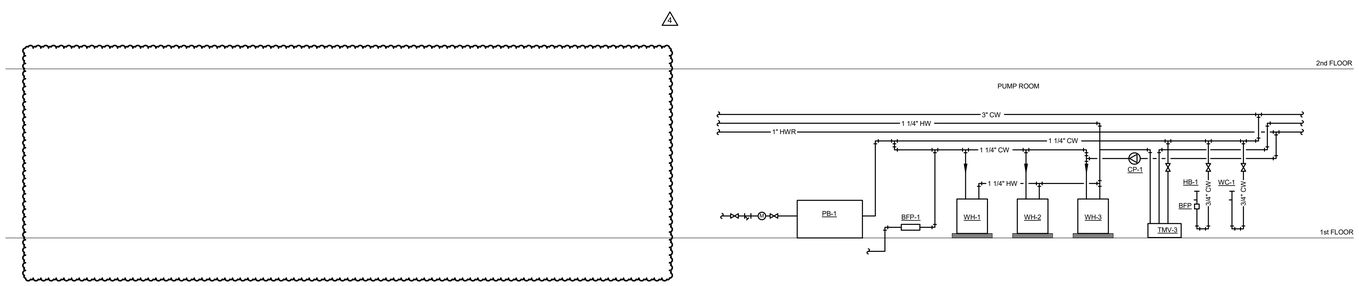
DOMESTIC WATER RISER DIAGRAM (AREA C & D)

NO SCALE

GENERAL NOTES:

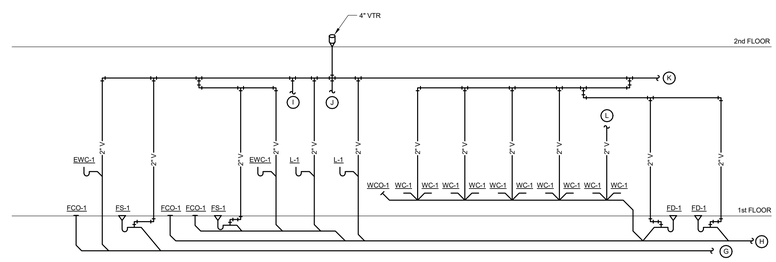
1. REFERENCE FLOOR PLANS FOR PIPING SIZES NOT INDICATED ON RISER DIAGRAMS.





DOMESTIC WATER RISER DIAGRAM (AREA C & D)

NO SCALE



SANITARY & VENT RISER DIAGRAM (AREA C & D)

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PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
PLUMBING DIAGRAMS

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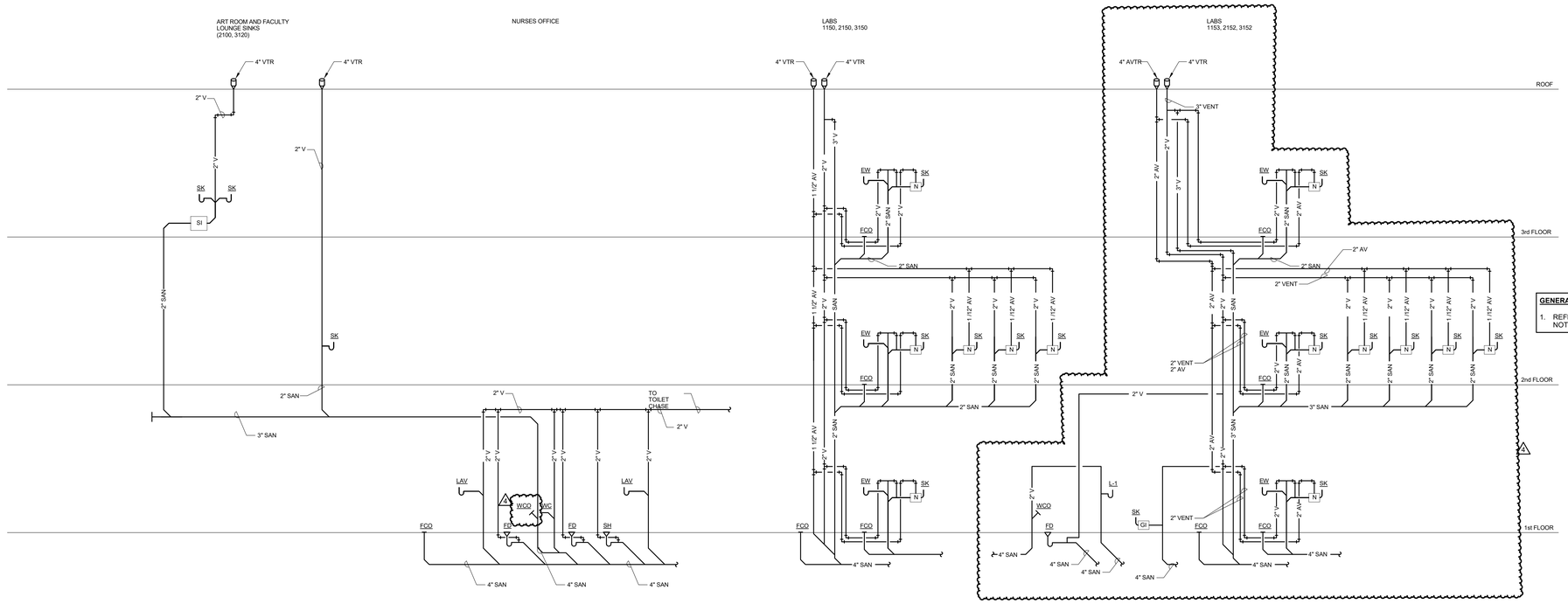
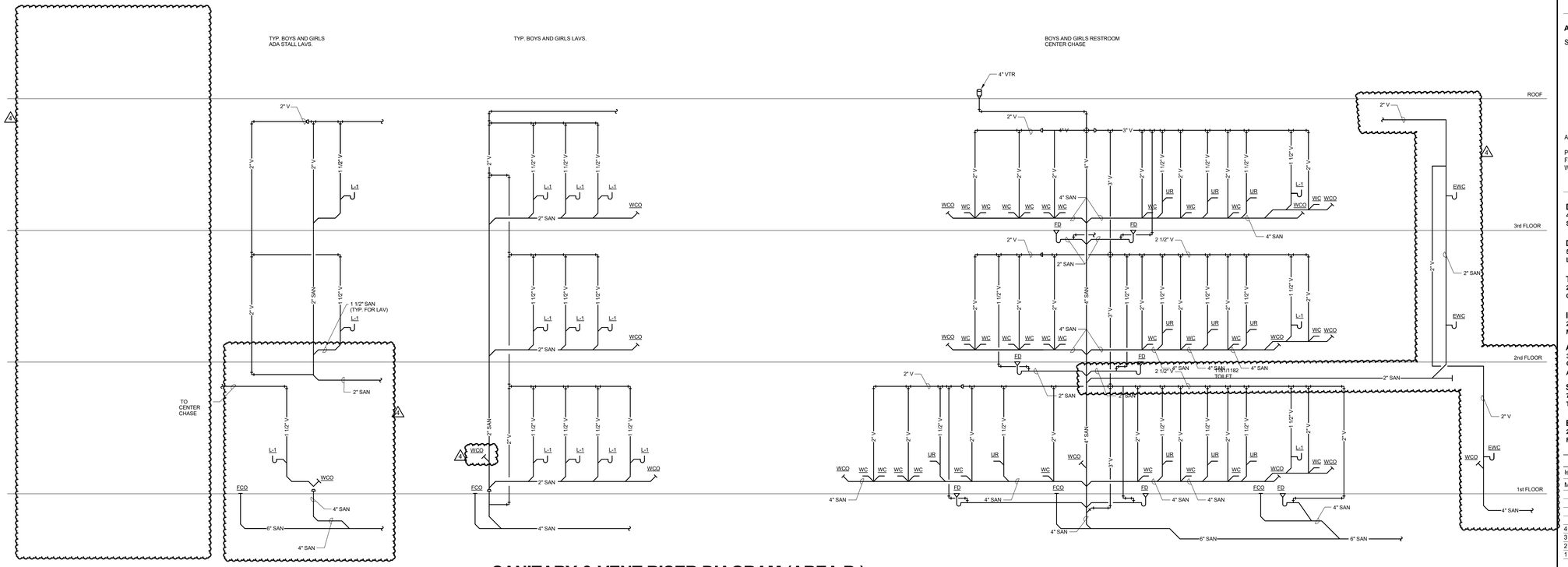
P4.4





SANITARY & VENT RISER DIAGRAM (AREA B.)

NO SCALE

GENERAL NOTES:

1. REFERENCE FLOOR PLANS FOR PIPING SIZES NOT INDICATED ON RISER DIAGRAMS.

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Sheet
P4.5

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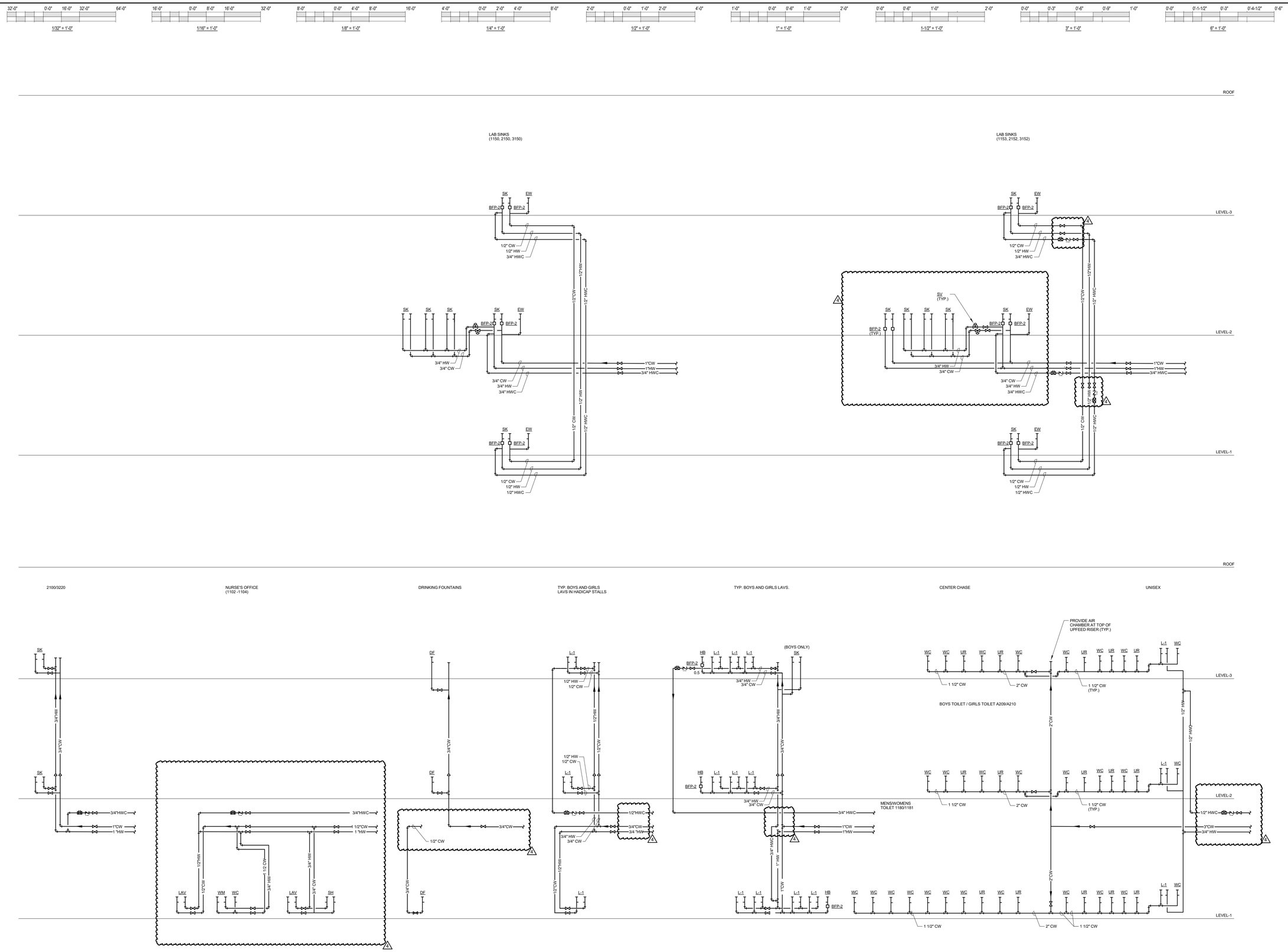

DOMESTIC WATER RISER DIAGRAM (AREA B.)

NO SCALE

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PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
PLUMBING DIAGRAMS

Sheet
P4.6

32'-0" 0'-0" 16'-0" 32'-0" 64'-0" 1/32" = 1'-0"
16'-0" 0'-0" 8'-0" 16'-0" 32'-0" 1/16" = 1'-0"
8'-0" 0'-0" 4'-0" 8'-0" 16'-0" 1/8" = 1'-0"
4'-0" 0'-0" 2'-0" 4'-0" 8'-0" 1/4" = 1'-0"
2'-0" 0'-0" 1'-0" 2'-0" 4'-0" 1/2" = 1'-0"
1'-0" 0'-0" 0'-6" 1'-0" 2'-0" 1" = 1'-0"
0'-0" 0'-6" 0'-9" 1'-0" 2'-0" 1-1/2" = 1'-0"
0'-0" 0'-3" 0'-6" 0'-9" 1'-0" 3" = 1'-0"
0'-0" 0'-1-1/2" 0'-3" 0'-4-1/2" 0'-6" 6" = 1'-0"

PLUMBING MATERIAL LIST

THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.

CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.

ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874.

4 REFER TO PLANS FOR FIXTURE QUANTITIES.

BFP-1

BACK FLOW PREVENTER - REDUCED PRESSURE ZONE, LEAD FREE BRONZE OR STAINLESS STEEL CONSTRUCTION, SIZE SAME AS PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK VALVES, SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, BALL STYLE SHUTOFF VALVES FOR 3/4"-2" AND GATE STYLE VALVES FOR 2 1/2"-10", AIR GAP DRAIN FITTING, TEST PORTS WITH SHUT-OFF VALVES, RATED FOR 175 PSI AT 33°F TO 140°F, 15 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, FACTORY TESTED, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C511-92, ASSE 1013, IAPMO AND SBCCI LISTED.

MOUNT WITHIN 60" OF FINISHED FLOOR. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT AND ADDITIONAL VALVE UPSTREAM OF EACH STRAINER. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED.

ACCEPTABLE MANUFACTURERS: WATTS (LF919 / 994), OR EQUAL BY FEBCO, CONBRACO, AMES, ZURN

BFP-2

BACK FLOW PREVENTER - DOUBLE CHECK, LEAD FREE BRONZE, EPOXY COATED CAST IRON OR STAINLESS STEEL CONSTRUCTION, SAME SIZE AS PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, SPRING-LOADED CHECK VALVES, SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, BALL STYLE SHUTOFF VALVES FOR 3/4"-2" AND GATE STYLE VALVES FOR 2 1/2"-10", TEST PORTS WITH SHUT-OFF VALVES, FACTORY TESTED, RATED FOR 175 PSI AT 33°F TO 140°F, 8 PSI (MAXIMUM) PRESSURE DROP AT 10 FPS, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE, APPROVED BY USC FCCC & HR, AWWA C510-92, ASSE 1015, IAPMO AND SBCCI LISTED.

MOUNT WITHIN 60" OF FINISHED FLOOR. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT AND ADDITIONAL VALVE UPSTREAM OF EACH STRAINER. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED.

ACCEPTABLE MANUFACTURERS: WATTS (LF007), OR EQUAL BY FEBCO, CONBRACO, AMES, ZURN

CP-1 & CP-2

CIRCULATING PUMP - LEAD FREE BRONZE CONSTRUCTION, NON-METALLIC OR BRONZE BEARINGS, CLOSE COUPLED, CERAMIC SHAFT WITH CARBON BEARINGS, OPEN DRIP-PROOF NON OVERLOADING MOTOR WITH THERMAL OVERLOAD PROTECTION, FLANGED CONNECTIONS, RATED FOR 125 PSIG AT 225°F, UL LISTED.
CP-1 8 GPM @ 18 FEET OF HEAD. MOTOR SHALL BE 1/12 HP OPERATING AT 3300 RPM.
CP-2 1 GPM @ 5 FEET OF HEAD. MOTOR SHALL BE .40W OPERATING AT 2800 RPM.
AQUASTAT - LINE VOLTAGE, ADJUSTABLE SETTING OF 90-180°F WITH STRAP-ON REMOTE SENSOR BULB, UL LISTED. PROVIDE WITH TRANSFORMER IF REQUIRED. INSTALL PER MANUFACTURERS INSTRUCTIONS. ELECTRICAL REQUIREMENTS - 115V-1 PHASE (HARD-WIRE)
ACCEPTABLE MANUFACTURERS: PUMP - B&G (NBF-40), OR EQUAL BY ARMSTRONG OR TACO
AQUASTAT - HONEYWELL, WHITE-RODGERS, JOHNSON CONTROLS, SAME AS PUMP MANUFACTURER

DF-1

DRINKING FOUNTAIN - WALL HUNG, 18 GAUGE STAINLESS STEEL TWO LEVEL ROUND BASIN, STAINLESS STEEL FINISH, VANDAL RESISTANT BUBBLERS, BUILT-IN FLOW REGULATOR, DRAIN & TRAP ASSEMBLY, MOUNTING ACCESSORIES, TANK DRAIN AND ANGLE STOPS. COMPLIANT TO LATEST ANSI A117.1 AND ADA STANDARDS. UNIT SHALL COMPLY WITH FEDERAL ACT S.3874.

UNIT SHALL PROVIDE NON-CHILLED DRINKING WATER.

SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS.

ACCEPTABLE MANUFACTURERS: ELKAY (EDFPBMV114K), OR EQUAL BY OASIS, HALSEY-TAYLOR, HAWS

DF-2 NOT USED 3

DRINKING FOUNTAIN - SINGLE BASIN, BARRIER FREE, WALL HUNG, HEAVY DUTY, 14 GAUGE STAINLESS STEEL, VANDAL RESISTANT PUSH BUTTON OPERATING CONTROLS ON FRONT, BUILT-IN FLOW REGULATOR, DRAIN & TRAP ASSEMBLY, CONTOURED BASIN, 14 GAUGE VANDAL RESISTANT BOTTOM COVER PLATES AND WALL MOUNTING PLATE, ADA COMPLIANT. DF SHALL CONFORM TO ANSI A117.1-2003. WATER SYSTEM SHALL BE OF LEAD FREE CONSTRUCTION. CONTROLS SHALL BE NON-ELECTRIC, POWERED BY WATER PRESSURE. PROVIDE CANE APRON, WHERE NECESSARY TO COMPLY WITH REQUIREMENT FOR BOTTOM OF BASIN TO BE 27" AFF. PROVIDE BOTTLE FILLING STATION, SANITARY TOUCHLESS ACTIVATION WITH AUTO 20-SECOND SHUT OFF.

ACCEPTABLE MANUFACTURERS: ELKAY EZSDWSVRSK, OR EQUAL BY OASIS, HALSEY-TAYLOR, HAWS

SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.

EEW-1

EMERGENCY EYE/FACE WASH - ACCESSIBLE, WALL MOUNTED, STAINLESS STEEL BOWL. FOUR SPRAY HEADS WITH CAPS AND RETAINING CHAINS/STRAPS, BRASS SUPPLY ARMS, INTEGRAL FLOW CONTROL FITTING, BRASS PIPING AND FITTINGS WITH BRASS/BRONZE STAY OPEN BALL VALVE, 1-1/2" DRAIN OUTLET [WITH CHROME PLATED BRASS TAILPIECE, UNIVERSAL IDENTIFICATION SIGN, ANSI Z358.1-2004 COMPLIANT.

MINIMUM FLOW RATE OF 3.0 GPM AT 30 PSI. ACTIVATION TIME SHALL BE 1 SECOND OR LESS. BRASS/BRONZE PIPING, FITTINGS, AND VALVES SHALL BE CHROME-PLATED OR CHEMICAL-RESISTANT POWDER COATED.

MOUNT WITH OUTLET HEADS AT 36" ABOVE FINISH FLOOR WITH MINIMUM 27" OF KNEE CLEARANCE BELOW, AND MINIMUM OF 19" OF CLEARANCE FROM CENTER OF BOWL TO WALL OR OBSTRUCTION IN COMPLIANCE WITH LATEST ADA AND ANSI 117.1 STANDARDS.

WATERSAVER VRFEBF721 OR EQUAL BY BRADLEY, GUARDIAN, HAWS OR WESTERN

ET-1

EXPANSION TANK - WELDED BLACK STEEL CONSTRUCTION, ASME STAMPED, GUARANTEED AIRTIGHT AND LEAKPROOF. STAINLESS STEEL SYSTEM CONNECTION, HEAVY DUTY BUTYL DIAPHRAGM AND RIGID POLYPROPYLENE LINER MECHANICALLY BONDED TO TANK TO PROVIDE A 100% NON-CORROSIVE WATER RESERVOIR, DIAPHRAGM AND LINER SHALL BE APPROVED FOR USE IN POTABLE WATER SYSTEMS, ALL WETTED COMPONENTS OF FDA APPROVED MATERIALS. PROVIDE STANDARD SCHRADER AIR VALVE FOR FIELD CHARGING. TANK SHALL COMPLY WITH FEDERAL ACT S.3874.

TANK SHALL HAVE A WORKING TEMPERATURE OF 200°F AND A WORKING PRESSURE OF 150 PSIG. MINIMUM TANK VOLUME TO BE 6.4 GALLONS, MINIMUM ACCEPTING VOLUME TO BE 3.2 GALLONS. FACTORY PRE-CHARGED FOR SHIPPING. FIELD CHARGE TANK TO 40 PSIG.

ACCEPTABLE MANUFACTURERS: AMTROL ST-12C OR EQUAL BY WESSELS OR WATTS

FCO-1

FLOOR CLEANOUT - ADJUSTABLE, CAST IRON HOUSING, ANCHOR FLANGE, TAPERED THREAD PLUG, SECURED NICKEL BRONZE TOP. TOP STYLE SHALL MATCH FLOOR FINISH AS FOLLOWS:

UNFINISHED FLOOR - ROUND SOLID SCORIATED TOP
TILE OR TERRAZZO - SQUARE RECESSED TOP
CARPET - ROUND TOP WITH CARPET FLANGE.

ACCEPTABLE MANUFACTURERS:

ZURN (Z1400), JOSAM (55000), MIFAB (C1100), SMITH (4000),

FD-1 GENERAL USE

FLOOR DRAIN - CAST IRON BODY, NICKEL BRONZE ADJUSTABLE TOP, 6" ROUND, 3" BOTTOM OUTLET (UPPER FLOOR), 4" BOTTOM OUTLET (1ST FLOOR), FLASHING COLLAR, DEEP SEAL TRAP.

ACCEPTABLE MANUFACTURERS:

FLOOR DRAIN - ZURN (Z-415), SMITH (2005), JOSAM (30000), MIFAB (F1100)

FD-2 KITCHEN, MECHANICAL ROOMS, YARD STORAGE

FLOOR DRAIN - CAST IRON BODY, MEDIUM DUTY CAST/DUCTILE IRON TOP, 9" ROUND, 3" BOTTOM OUTLET (UPPER FLOOR), 4" BOTTOM OUTLET (1ST FLOOR) SHALLOW SUMP, FREE STANDING SEDIMENT BUCKET, FLASHING COLLAR, DEEP SEAL TRAP.

ACCEPTABLE MANUFACTURERS:

FLOOR DRAIN - ZURN (Z-550), SMITH (2110), JOSAM (32100), MIFAB (F1320)

FS-1

FLOOR SINK - CAST IRON BODY, NICKEL BRONZE RIM AND 1/2 GRATE, 8" ROUND, 4" BOTTOM OUTLET, SHALLOW RECEPTOR [WITH STAINLESS STEEL MESH STRAINER], ACID RESISTANT COATED INTERIOR, SEEPAGE FLANGE WITH CLAMP, DEEP SEAL TRAP.

ACCEPTABLE MANUFACTURERS: ZURN (Z1970), SMITH (3021), WADE (9000), JOSAM (49500)

GT-1 MAIN KITCHEN

CITY OF CHICAGO STANDARD TRIPLE BASIN GREASE INTERCEPTOR, WITH TRAFFIC RATED CAST IRON MANHOLE COVERS, CONCRETE CONSTRUCTION, REFER TO DRAWING DETAILS FOR CONSTRUCTION DETAILS.

GT-2 BREAK ROOM

GREASE TRAP - FLOOR MOUNTED, STEEL CONSTRUCTION, INTERNAL ACID RESISTANT COATING, REMOVABLE BAFFLES, INTEGRAL AIR RELIEF, FLOW CONTROL FITTING, INTEGRAL CLEANOUT, GASKETED STEEL COVER WITH LOCK AND LIFT RING, PDI G101 COMPLIANT, PDI APPROVED AND LISTED FOR USE.

8 GPM FLOW, 18 LB. GREASE CAPACITY

ACCEPTABLE MANUFACTURERS: SMITH (8000 SERIES), JOSAM (60100), ZURN (Z-1170), ROCKFORD (G SERIES), MIFAB (MI-G)

HB-1

HOSE BIBB - FOR INDOOR USE, BRASS CONSTRUCTION, CHROME-PLATED FINISH, ASSE APPROVED ELEVATED VACUUM BREAKER, 3/4" MALE HOSE THREAD, 3/4" FLANGED I.P.S. INLET, REMOVABLE TEE HANDLE.

MOUNT AT 18" ABOVE FINISHED FLOOR.

ACCEPTABLE MANUFACTURERS: CHICAGO FAUCET 1771-ABCP WITH REMOTE HOSE OUTLET

PLUMBING MATERIAL LIST (CONTINUED)

HB-2

HOSE BIBB - FREEZELESS WALL HYDRANT, BRASS VALVE BODY AND SEAT, STANDARD FINISH, NON-FERROUS METAL STEM, AUTOMATIC DRAINING, VACUUM BREAKER, 3/4" MALE HOSE THREAD, WALL CLAMP, CONCEALED IN FLUSH MOUNTED LOCKABLE WALL BOX, KEY OPERATED, ASSE 1019 OR 1052 LISTED AND APPROVED.

VERIFY NUMBER OF KEY OPERATORS TO BE PROVIDED WITH OWNER. BOX COVER AND HYDRANT SHALL USE A COMMON KEY. MOUNT AT 18" ABOVE GRADE UNLESS NOTED OTHERWISE ON DRAWINGS.

ACCEPTABLE MANUFACTURERS: WOODFORD (B67), ZURN (Z1300), WATTS (HY-725), MIFAB (MHY-20), SMITH (5509QT), WADE (8700), PRIER (C-63485K),

HB-3

HOSE BIBB - FREEZELESS ROOF HYDRANT, ONE PIECE VARIABLE FLOW PLUNGER WITH ROD GUIDE, BUILT-IN VENT FOR AUTOMATIC DRAINING, CAST IRON FLANGED HYDRANT SUPPORT WITH UNDER-DECK FLANGE, WELL SEAL BETWEEN SUPPORT AND HYDRANT PIPE WITH EDPM BOOT COVER.

PROVIDE WITH ASSE 1052 APPROVED, FIELD TESTABLE, DOUBLE CHECK VALVE BACK FLOW PREVENTER WITH 3/4" THREADED HOSE CONNECTION AT HYDRANT OUTLET.

ACCEPTABLE MANUFACTURERS: WOODFORD (RHY2), PRIER (P-RH2)

L-1

LAVATORY - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, 20"x18", 4" HIGH CONTOURED BACKSPLASH, FAUCET HOLES ON 4" CENTERS, DRILLED FOR CONCEALED ARM CARRIER.

ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD (0355.012), KOHLER (K-2005), OR EQUAL BY ELJER OR CRANE.
LAVATORY TRIM - TWO HANDLE MIXING FAUCET, SELF CLOSING, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH AERATOR, WASHERLESS PUSH HANDLES AT 4" CENTERS, OPERATING FORCE OF 5.0 LBS. (MAXIMUM), PERFORATED DRAIN GRATE WITH 1-1/4" 17 GAUGE TAILPIECE.

ACCEPTABLE MANUFACTURERS: ZURN (Z86500), CHICAGO FAUCET (802-VE), MOEN (8886), MAXIMUM FLOW SHALL BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 1992 AND ASME/ANSI STANDARD A112.18.1M.

INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES.

ACCEPTABLE MANUFACTURERS: TRUEBRO (LAV-GUARD), BROCAR PRODUCTS (TRAP WRAP), MCGUIRE (PROWRAP), PLUMBERIX (PRO-EXTREME)]

ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, OFFSET DRAIN AND TAILPIECE, 1-1/4" 20 GAUGE CAST BRASS P-TRAP, SUPPORT CARRIER.

MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. REFER TO ARCHITECTURAL PLANS FOR TOP OF RIM ELEVATION. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.

MB-1

MOP BASIN - PRECAST TERRAZZO, 24"x24"x12", STAINLESS STEEL INTEGRAL DRAIN WITH REMOVABLE STRAINER, 3" OUTLET, CONTINUOUS STAINLESS STEEL CAP ON ALL EDGES.

ACCEPTABLE MANUFACTURERS: STERN WILLIAMS (SB), OR EQUAL BY CRANE OR FLORESTONE
TRIM - EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 3/4" HOSE THREAD SPOUT WITH ELEVATED VACUUM BREAKER, WALL BRACE, PAIL HOOK, CHECK STOPS.

ACCEPTABLE MANUFACTURERS: CHICAGO FAUCET (911-ISCP) OR EQUAL BY MOEN, T&S BRASS, ZURN
ACCESSORIES - MOP HANGER, HOSE AND HOSE BRACKET, DEEP SEAL TRAP

CAULK BETWEEN MOP BASIN AND WALL WITH SILICONE BASED CAULK.

NT-1

NEUTRALIZATION TANK - 8.5" WIDE x 12.5" LONG x 11.2" HIGH, 1.5 GALLON, HIGH DENSITY POLYETHYLENE, MOLDED WITH 6" TOP MOUNTED CLEANOUT, VENT TAPPING, 2" INLET AND 2" SIDE OUTLET.

ACCEPTABLE MANUFACTURERS: ORION (STYLE 8), KNIGHT-WARE, IPEX-ENFIELD

SUMP SHALL BE SUPPLIED AND INSTALLED WITH MANUFACTURER APPROVED NEUTRALIZING AGENT SUCH AS LIMESTONE OR MARBLE CHIPS (TWO TO THREE INCHES IN SIZE WITH A CALCIUM CARBONATE CONTENT OF GREATER THAN 90%) TO A LEVEL JUST BELOW TANK OUTLET. ADD WATER AFTER PLACEMENT OF NEUTRALIZATION AGENT.

OSW

FLOOR DRAIN - OPEN SITE HUB DRAIN, CAST IRON BODY, SEDIMENT BUCKET, [2][3][4]" BOTTOM OUTLET, DEEP SEAL TRAP.

TRAP SEAL - PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHEN DISCHARGE IS COMPLETED, ASSE 1072.

ACCEPTABLE MANUFACTURERS:

FLOOR DRAIN - ZURN (Z-211-S-Y), SMITH (2005-HUB), OR EQUAL BY JOSAM OR MIFAB
TRAP SEAL - SURE SEAL (SS), PROVENT (TRAP GUARD), SMITH (QUAD CLOSE), LIQUID BREAKER (GREEN DRAIN), WADE (4405)

RD-1

ROOF DRAIN - CAST IRON BODY, SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN, ADJUSTABLE EXTENSION TO MATCH INSULATION THICKNESS, OUTLET SIZE AS LISTED ON DRAWINGS.

ACCEPTABLE MANUFACTURERS: ZURN (Z-100), SMITH (1010), JOSAM (21500), MIFAB (R1200).

RD-2

ROOF DRAIN - OVERFLOW TYPE CAST IRON BODY, SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN, ADJUSTABLE EXTENSION TO MATCH INSULATION THICKNESS, 2" TALL INTERNAL STANDPIPE, OUTLET SIZE AS LISTED ON DRAWINGS.

ACCEPTABLE MANUFACTURERS: ZURN (Z-100), SMITH (1070), JOSAM (21500), , MIFAB (R1200).

SI-1

SOLIDS INTERCEPTOR - CAST IRON BODY, EPOXY COATING, REMOVABLE STAINLESS STEEL SEDIMENT BASKET, GASKETED CLEANOUT COVER, 2" SIDE INLET AND OUTLET.

ACCEPTABLE MANUFACTURERS: ZURN (Z-1184), JOSAM (61000), SMITH (8730)

FOR USE IN LIEU OF P-TRAP. MAINTAIN REQUIRED CLEARANCE BELOW INTERCEPTOR FOR REMOVAL OF BASKET

SH-1 ADA

SHOWER - ADA BASIN, PRECAST TERRAZZO, 36"x36", ROLL-IN TYPE, 2" DRAIN, STAINLESS STEEL REMOVABLE STRAINER.

ACCEPTABLE MANUFACTURERS: ACRON (SBADA), FIAT, CREATIVE INDUSTRIES, FLORESTONE, WILLIAMS

SHOWER VALVE - SINGLE HANDLE PRESSURE BALANCED MIXING FAUCET, BRASS OR BRONZE CONSTRUCTION, WASHERLESS DESIGN, OFF-COLD-HOT TEMPERATURE RANGE INDICATOR DIAL, POLISHED CHROME CAST METAL LEVER HANDLE, INTEGRAL CHECK STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP, ADJUSTABLE SPRAY HAND HELD SHOWER, CHROME-PLATED 24" MOUNTING RAIL, CHROME-PLATED BRASS SWIVEL CONNECTOR, 60" CHROME-PLATED METAL HOSE, CHROME-PLATED BRASS SUPPLY ELBOW WITH FLANGE, CHROME-PLATED ELEVATED VACUUM BREAKER WITH CHROME-PLATED PIPING AND FLANGES, ASSE 1016 LISTED.

ACCEPTABLE MANUFACTURERS: SYMMONS (1-25), LEONARD (PAM-II), POWERS (P413-9)

INSTALL ALL CONTROLS BETWEEN 38" AND 48" ABOVE FINISHED FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. MAXIMUM FLOW TO BE 1.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 1992 AND ASME/ANSI STANDARD A112.18.1M. SET TEMPERATURE LIMIT STOP TO 110°F DISCHARGE.

SH-2 UNISEX ADA

SHOWER - ADA BASIN, PRECAST TERRAZZO, 60"x30", ROLL-IN TYPE, 2" DRAIN, STAINLESS STEEL REMOVABLE STRAINER.

ACCEPTABLE MANUFACTURERS: ACRON (SBADA), FIAT, CREATIVE INDUSTRIES, FLORESTONE, WILLIAMS

SHOWER VALVE - SINGLE HANDLE PRESSURE BALANCED MIXING FAUCET, BRASS OR BRONZE CONSTRUCTION, WASHERLESS DESIGN, OFF-COLD-HOT TEMPERATURE RANGE INDICATOR DIAL, POLISHED CHROME CAST METAL LEVER HANDLE, INTEGRAL CHECK STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP, ADJUSTABLE SPRAY HAND HELD SHOWER, CHROME-PLATED 24" MOUNTING RAIL, CHROME-PLATED BRASS SWIVEL CONNECTOR, 60" CHROME-PLATED METAL HOSE, CHROME-PLATED BRASS SUPPLY ELBOW WITH FLANGE, CHROME-PLATED ELEVATED VACUUM BREAKER WITH CHROME-PLATED PIPING AND FLANGES, ASSE 1016 LISTED.

ACCEPTABLE MANUFACTURERS: SYMMONS (1-25), LEONARD (PAM-II), POWERS (P413-9)

INSTALL ALL CONTROLS BETWEEN 38" AND 48" ABOVE FINISHED FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. MAXIMUM FLOW TO BE 1.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 1992 AND ASME/ANSI STANDARD A112.18.1M. SET TEMPERATURE LIMIT STOP TO 110°F DISCHARGE.

SH-3 GANG SHOWER HEAD

SHOWER BASE - BY GC

SHOWER VALVE - CHROME PLATED PUSH BUTTON, AIR METERING VALVE, ADJUSTABLE FROM 5 TO 45 SECONDS, ADA COMPLIANT, BRADLEY 1C-AST OR EQUAL BY ACORN, POWERS SYMMONS.

SHOWER HEADS TO BE VANDAL RESISTANT, BRADLEY SEVERE SERVICE WALL MOUNTED TYPE WITH VOLUME CONTROL, (1.5 GPM) AND BALL JOINT, OR EQUAL BY ACORN, POWERS, SYMMONS.

FOR EACH GROUP OF GANG SHOWERS, WATER SUPPLY WILL BE FED THRU TMV-2 SET TEMPERATURE LIMIT STOP TO 110°F DISCHARGE.

INSTALL ALL CONTROLS BETWEEN 38" AND 48" ABOVE FINISHED FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. MAXIMUM FLOW TO BE 1.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 1992 AND ASME/ANSI STANDARD A112.18.1M.

PLUMBING MATERIAL LIST (CONTINUED)

SK-1 MUSIC ROOM, ART ROOM (SMALL)

SINK - ACCESSIBLE TOP MOUNT SINGLE COMPARTMENT CLASSROOM SINK WITH FAUCET DECK, 18 GAUGE 304 STAINLESS STEEL, 25" (SIDE-TO-SIDE) x 17" (FRONT-TO-BACK) OVERALL SIZE, 16" x 13-1/2" x 7-1/2" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET, REMOVABLE TYPE STAINLESS STEEL BASKET STRAINER WITH NEOPRENE STOPPER.

ACCEPTABLE MANUFACTURERS: ELKAY (DRKR2517) OR EQUAL BY AMERICAN STANDARD, ELJER, KOHLER, JUST, MANSFIELD.

ACCESSORIES - 1-1/2", 20 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES. PROVIDE INSULATION KIT FOR EXPOSED PIPING UNDER COUNTER, SIMILIAR TO L-1.

SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, GOOSENECK RIGID SPOUT, 4" REACH, AERATOR, 4" WRIST BLADE HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE.

ACCEPTABLE MANUFACTURERS: CHICAGO FAUCET (786GR2E), OR EQUAL BY MOEN, T&S BRASS, ZURN MAXIMUM FLOW TO BE 1.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.

SK-2 PANTRY

SINK - TOP MOUNT SINGLE COMPARTMENT CLASSROOM SINK WITH FAUCET DECK, 18 GAUGE 304 STAINLESS STEEL, 22" (SIDE-TO-SIDE) x 19" (FRONT-TO-BACK) OVERALL SIZE, 18" x 14" x 6" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET, REMOVABLE TYPE STAINLESS STEEL BASKET STRAINER WITH NEOPRENE STOPPER.

ACCEPTABLE MANUFACTURERS: ELKAY (LRAD) OR EQUAL BY AMERICAN STANDARD, ELJER, KOHLER, JUST, MANSFIELD.

ACCESSORIES - 1-1/2", 20 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.

SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, GOOSENECK RIGID SPOUT, 4" REACH, AERATOR, 8" WRIST BLADE HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE.

ACCEPTABLE MANUFACTURERS: CHICAGO FAUCET (786GR2E), OR EQUAL BY MOEN, T&S BRASS, ZURN MAXIMUM FLOW TO BE 1.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.

SK-3 ART ROOM

SINK - TOP MOUNT SINGLE COMPARTMENT OVERSIZE UTILITY SINK WITH FAUCET DECK, 18 GAUGE 316 STAINLESS STEEL, 30" (SIDE-TO-SIDE) x 22" (FRONT-TO-BACK) OVERALL SIZE, 28" x 16" x 11-1/2" DEEP BOWL, COMPLETELY UNDERCOATED, 3-1/2" DIAMETER DRAIN OUTLET, REMOVABLE TYPE STAINLESS STEEL BASKET STRAINER WITH NEOPRENE STOPPER.

ACCEPTABLE MANUFACTURERS: ELKAY (LRAD) OR EQUAL BY AMERICAN STANDARD, ELJER, KOHLER, JUST, MANSFIELD.

ACCESSORIES - 1-1/2", 20 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.

SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, GOOSENECK RIGID SPOUT, 4" REACH, AERATOR, 8" WRIST BLADE HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE.

ACCEPTABLE MANUFACTURERS: CHICAGO FAUCET (786GR2E), OR EQUAL BY MOEN, T&S BRASS, ZURN MAXIMUM FLOW TO BE 1.5 GPM IN COMPLIANCE WITH PROJECT WATER CONSERVATION REQUIREMENTS. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED.

SK-4 (STUDENT LAB WORKSTATIONS AND LAB PREP ROOMS)

SINK - EPOXY RESIN DROP IN, SEE A-DRAWINGS FOR SPECIFIC REQUIREMENTS.

SINK TRIM - ADA COMPLIANT DECK MOUNTED WRIST BLADE HANDLES, 6" FIXED GOOSENECK SPOUT, WITH ANTI-HOSE NOZZLE
ACCEPTABLE MANUFACTURERS: WATER SAVER (L2222), OR EQUAL BY CHICAGO FAUCET, MOEN

ACCESSORIES - NEUTRALIZING BASIN (NT-1), QUARTER-TURN 3/8" CHROME-PLATED HEAVY BRASS ANGLE SUPPLIES WITH STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.

SK-5 (LAB DEMONSTRATION TABLE SINK)

SINK - EPOXY RESIN DROP IN, SEE A-DRAWINGS FOR SPECIFIC REQUIREMENTS.

SINK TRIM - DECK MOUNTED WRIST BLADE HANDLES, 6" FIXED GOOSENECK SPOUT, WITH SERRATED NOZZLE

ACCEPTABLE MANUFACTURERS: WATER SAVER (L412-VB-BH), OR EQUAL BY CHICAGO FAUCET, MOEN

ACCESSORIES - NEUTRALIZING BASIN (NT-1), QUARTER-TURN 3/8" CHROME-PLATED HEAVY BRASS ANGLE SUPPLIES WITH STOPS, CHROME-PLATED SOFT COPPER SUPPLY LINES.

SK-6
FURNISHED BY FOOD SERVICE CONTRACTOR

SP-1

SUMP PUMP - [SIMPLEX][DUPLEX] SUBMERSIBLE, SINGLE-STAGE, CENTRIFUGAL, END-SUCTION PUMP[S], STAINLESS STEEL FASTENERS, GUARDS AND HANDLES, UL LISTED.

CASING: CAST IRON, INTEGRAL SUPPORT FEET, MINIMUM 1 1/4" VERTICAL DISCHARGE.
IMPELLER: CAST IRON STATICALLY AND DYNAMICALLY BALANCED, SEMIOPEN NONCLOG DESIGN, KEYED AND SECURED TO SHAFT, PASSES 1/2" SOLIDS MINIMUM.
SHAFT: STEEL OR STAINLESS STEEL WITH FACTORY SEALED, GREASE-LUBRICATED SLEEVE OR BALL BEARINGS, CARBON AND CERAMIC SEAL.
MOTOR: 1/2 HP MAX., 115 VOLTS, 1 PHASE, 1750 RPM, OIL OR AIR-FILLED, HERMETICALLY SEALED WITH AUTO THERMAL OVERLOAD PROTECTION, THREE CONDUCTOR WATERPROOF POWER CABLE OF SUFFICIENT LENGTH WITH GROUNDING PLUG.

CAPACITY : 50 GPM, 15 FEET OF HEAD.

CONTROLS - HYDROCARBON SENSING PUMP SWITCH WITH HIGH WATER ALARM, NEMA-4X ENCLOSURE, HIGH WATER FLOATCONTACT SWITCH WITH WATER PROOF CABLE OF SUFFICIENT LENGTH, HORN, STROBE, SILENCING BUTTON AND DRY CONTACTS FOR ALARM AND PUMP STATUS, 6 FOOT 115V POWER CORD, UL LISTED. FLOATS SHALL BE MERCURY-FREE.

P

1 TELEPHONE AND DATA DISTRIBUTION DIAGRAM A

NO SCALE

NOTES:
1. ALL CABLING TO BE IN CONDUIT, WIRE BASKET ALLOWED IN MDF/IDF ROOMS ONLY.

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REFERENCE SCALE IN INCHES
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READ DUNNING SCHOOL

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Issuance

Mark	Description	Date
4	ADDENDUM #3	02/28/2018
2	ADD #1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL

PBC Contract No: 05165

Project No.: N/A

Title

TELEPHONE AND DATA DISTRIBUTION DIAGRAM

Sheet

E3.4

1 TELEPHONE AND DATA DISTRIBUTION DIAGRAM B

NO SCALE

NOTES:
1. ALL CABLING TO BE IN CONDUIT, WIRE BASKET ALLOWED IN MDF/IDF ROOMS ONLY.

READ DUNNING SCHOOL

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2	ADD #1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
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PBC Project Name: READ DUNNING SCHOOL

PBC Contract No: 05165

Project No.: N/A

Title
TELEPHONE AND DATA DISTRIBUTION DIAGRAM

Sheet
E3.5

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REFERENCE SCALE IN INCHES
0 1 2 3

32'-0" 0'-0" 16'-0" 32'-0" 64'-0" — 1/32" = 1'-0"
16'-0" 0'-0" 8'-0" 16'-0" 32'-0" — 1/16" = 1'-0"
8'-0" 0'-0" 4'-0" 8'-0" 16'-0" — 1/8" = 1'-0"
4'-0" 0'-0" 2'-0" 4'-0" 8'-0" — 1/4" = 1'-0"
2'-0" 0'-0" 1'-0" 2'-0" 4'-0" — 1/2" = 1'-0"
1'-0" 0'-0" 0'-6" 1'-0" 2'-0" — 1" = 1'-0"
0'-0" 0'-6" 1'-0" 2'-0" — 1-1/2" = 1'-0"
0'-0" 0'-3" 0'-6" 0'-9" 1'-0" — 3" = 1'-0"
0'-0" 0'-1-1/2" 0'-3" 0'-4-1/2" 0'-6" — 6" = 1'-0"

TYPE	FIXTURE DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NUMBER	LAMP(S)	WATTS/ LAMP	VOLT.	LOCATION / REMARKS
INTERIOR LIGHTING FIXTURES								
F1-L	NOT USED							
F1A-L	NOT USED							
F1B-L	WHITE LED 2X4 VOLUMETRIC TROFFER WITH NOMINAL 4800 LUMEN OUTPUT, SCULPTED HIGH TRANSMITTANCE WHITE ACRYLIC LENS, INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER, AND CHICAGO PLENUM RATING	RECESSED CEILING	LITHONIA	2RTL4-48L-MVOLT-EZ1-LP835-CP	3500K WHITE LED INTEGRAL	47	120	CLASSROOMS, OFFICES DRIVER SHALL BE ACCESSIBLE AND SERVICEABLE FROM BELOW AND WITHOUT REMOVING THE MOUNTINGS OR ADJACENT CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.
			METALUX	ATW-SWI4-24AC-L04-4B-UNV-LE835-HCD1		46		
			FINELITE	HPR-LED-F-2X4-DCCO-B-835-xxx/1-SC-xx-CP		35		
			H.E.WILLIAMS	HET-G-S24-L5/2835-A-CP-DIM-UNV		51		
			COLUMBIA	LEPC24-35-ML-G-LL-ED1-U-CP		45		
			PHILIPS DAY-BRITE	2-ST-x-3L-835-4-D-UNV-DIM-CHC		40		
F2-L	NOT USED							
F3-L	NOT USED							
F4	NOT USED							
F5-L	NOT USED							
F6-L	WHITE LED WRAPAROUND LUMINARE WITH NOMINAL 4600 LUMEN OUTPUT, NOMINAL 4 FT. LENGTH, FROSTED PRISMATIC ACRYLIC LENS, AND INTEGRAL 0-10V DIMMABLE DRIVER	SURFACE CEILING	COLUMBIA	LAW-4-35-ML-ED-U	3500K WHITE LED INTEGRAL	48	120	VARIOUS SAME REMARKS AS TYPE F1B-L
			LITHONIA	STL4-48L-MVOLT-EZ1-LP835		46		
			METALUX	4WNLED-L04-835L-F-UNV-LE835-CD1-U		47		
F7-L	WHITE LED 1X4 TROFFER WITH NOMINAL 4300 LUMEN OUTPUT, PATTERN 19 FROSTED ACRYLIC LENS, INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER, AND CHICAGO PLENUM RATING	RECESSED CEILING	LITHONIA	TL4-48L-RW-A19-MVOLT-EZ1-LP835-CP	3500K WHITE LED INTEGRAL	47	120	VARIOUS SAME REMARKS AS TYPE F1B-L
			METALUX	ATW-SWI4-14GR-RA-L05-43-A19/195-UNV-LE835-CD1-PAF		42		
			PHILIPS DAY-BRITE	1TG-42L-835-4-RA-19F-UNV-DIM-xxx-CHC		44		
			COLUMBIA	LLT14-35-VL-G-RA-A19F-ED-U-PAF-CP		45		
F8-L	WHITE LED 1X4 TROFFER WITH NOMINAL 4300 LUMEN OUTPUT, PATTERN 19 FROSTED ACRYLIC LENS, AND INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER	PENDANT CEILING	LITHONIA	TLX4-48L-RW-A19-MVOLT-EZ1-LP835	3500K WHITE LED INTEGRAL	47	120	VARIOUS SAME REMARKS AS TYPE F1B-L
			METALUX	ATW-SWI4-14GR-RA-L05-43-A19/195-UNV-LE835-CD1-PAF + SK-14-WIT		42		
			PHILIPS DAY-BRITE	1SML-42L-835-4-RA-19F-UNV-DIM-xxx		44		
			COLUMBIA	LLT14-35-VL-SM-RA-A19F-ED-U-PAF		45		
F9	NOT USED							
F9A	NOT USED							
F9B	NOT USED							
F10	NOT USED							
F10A	NOT USED							
F10B	NOT USED							
F11-L	NOT USED							
F12	NOT USED							
F13-L	NOT USED							
F14-L	NOT USED							
F15-L	NOT USED							
F16-L	WHITE LED HIGH BAY INDUSTRIAL STRIP LUMINARE WITH NOMINAL 12,000 LUMEN OUTPUT, NARROW DISTRIBUTION, SEMI-DIFFUSE ACRYLIC LENS, AND INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER	PENDANT CEILING	LITHONIA	IBL-12L-ADD-SD125-MVOLT-LP835	3500K WHITE LED INTEGRAL	100	120	STAGE SAME REMARKS AS TYPE F1B-L
F17-L	NOT USED							
F18-L	WHITE LED HIGH BAY INDUSTRIAL LUMINARE WITH NOMINAL 20,000 LUMEN OUTPUT, PRISMATIC ACRYLIC REFRACTOR, WIRE GUARD, AND INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER	PENDANT CEILING	KENALL	EPLB-22-O-PM-CA-GW-192L-35K8-MOD-DV-PM34-WG	3500K WHITE LED INTEGRAL	209	120	GYMNATORIUM FINISH PER ARCHITECT. CONFIRM MOUNTING HEIGHT WITH ARCHITECT.
			PHILIPS DAY-BRITE	RBX-20L-835-UNV-WT-MOD-ARR22SL-WGA22		160		
	A — 0-10V DIMMING DRIVER WITH LOW END TRIM ≤1%	INTEGRAL	ELDOLED	SOLO DRIVE	N/A			PROVIDE AS RECOMMENDED BY FIXTURE MANUFACTURER. DRIVER SHALL BE INSTALLED BY THE FIXTURE MANUFACTURER AT THE FACTORY.
			OSRAM	OPTOTRONIC PROGRAMMABLE				
F19-L	WHITE LED 1X4 VANDAL RESISTANT TROFFER WITH NOMINAL 4500 LUMEN OUTPUT, GASKETED COMPOSITE LENS CONSISTING OF ONE (1) PRISMATIC ACRYLIC LENS AND ONE (1) CLEAR POLYCARBONATE LENS ON EXTERIOR, HINGED LENS FRAME SECURED WITH CAPTIVE, TAMPER-RESISTANT STAINLESS STEEL FASTENERS. INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER, UL LISTING FOR WET LOCATION, AND CHICAGO PLENUM RATING	RECESSED CEILING	FAILSAFE	FMR-N-12-4-LD4-2-STD-35-UNV-80/86-EDD-1-CPHF-WL-CP	3500K WHITE LED INTEGRAL	74	120	LOCKER ROOMS DRIVER SHALL BE ACCESSIBLE AND SERVICEABLE FROM BELOW AND WITHOUT REMOVING THE MOUNTINGS OR ADJACENT CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.
			LITHONIA	VRTL-x-L48-5000LM-MDW-AP125FL-MVOLT-EZ1-20K80-WL-DWHXD-CP		45		
			KENALL	HASEDI-14-49L35K-OCC-DV-3F-2H-3/1MB-CP		45		
F20-L	WHITE LED DOWNLIGHT WITH NOMINAL 1000 LUMEN OUTPUT, NOMINAL 4 IN. APERTURE, MEDIUM DISTRIBUTION, CLEAR SEMI-SPECULAR ALZAK REFLECTOR WITH SELF FLANGE, INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER, AND CHICAGO PLENUM RATING	RECESSED CEILING	LIGHTOLIER	CAL-10-N-U-VB-Z10-VLC + CAL-10-DL-35K-CCDP-VB	3500K WHITE LED INTEGRAL	13	120	VARIOUS DRIVER SHALL BE ACCESSIBLE AND SERVICEABLE FROM BELOW AND WITHOUT REMOVING THE MOUNTINGS OR ADJACENT CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.
			GOTHAM	EVO 35/10-4AR-MDL-SS-MVOLT-EZ1-CP		13		
			PORTFOLIO	LD4A-CP-35-DOTTE-ERWA4-09-835CP-4LW1H		14		
F21-L	WHITE LED PERIMETER WALLSLOT WITH NOMINAL 500 LUMEN PER FOOT OUTPUT, NOMINAL 6 IN. APERTURE, WHITE TRIM, INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER, AND CHICAGO PLENUM RATING	RECESSED CEILING	LITECONTROL	60L-xx-xx-08-C-1-35K-D050-D10-1C-UNV-CCEA	3500K WHITE LED INTEGRAL	7.5	120	RESTROOMS DRIVER SHALL BE ACCESSIBLE AND SERVICEABLE FROM BELOW AND WITHOUT REMOVING THE MOUNTINGS OR ADJACENT CONSTRUCTION. REFER TO LIGHTING PLANS FOR OVERALL RUN LENGTHS. LENGTHS VARY FROM LOCATION TO LOCATION. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE, INCLUDING SLDING SLEEVES. SUBMIT DETAILED, DIMENSIONED SHOP DRAWING SHOWING FIXTURE AND COVE LENGTHS FOR EACH CONDITION.
			FINELITE	HP-WS-6W-4D-H-835-xxx/1-SC-xx-SW-xxx-xxx-xx-CP		7.1		
			LUMENWERX	VSPERDPAT-HLO-LED-80-500-35-xxx-xxxx-UNV-D5-1-xxx-W-CP		4.5		
			PINNACLE	EVL-835/HO-xxxx-xx-U-OL1-1-0-W-LGR-CP		8.1 W / FT		
F21A-L	SAME AS TYPE F21-L (EXCEPT FOR NOMINAL 300 LUMEN PER FOOT OUTPUT)	RECESSED CEILING	LITECONTROL	60L-xx-xx-08-C-1-35K-D030-D10-1C-UNV-CCEA	3500K WHITE LED INTEGRAL	4.5	120	CORRIDORS SAME REMARKS AS TYPE F21-L
			FINELITE	HP-WS-6W-4D-B-835-xxx/1-SC-xx-SW-xxx-xxx-xx-CP		4.6		
			LUMENWERX	VSPERDPAT-HLO-LED-80-300-35-xxx-xxxx-UNV-D5-1-xxx-W-CP		W / FT		
			PINNACLE	EVL-CLE835/30-xxx-xx-U-OL1-1-0-W-LGR-CP				
FA	WHITE LED 1' JELLY JAR FIXTURE WITH BLACK THERMOPLASTIC HOUSING WITH GUARD, LOW-GLARE CLEAR PRISMATIC GLASS GLOBE, AND INTEGRAL ELECTRONIC 0-10V DIMMING DRIVER	CATWALK HANGER	CANLET	03-20W-L-W-F-OG-ZII	4000K WHITE LED INTEGRAL	20	120	STAGE CATWALKS COORDINATE WITH CATWALK STRUCTURE. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.
FB	WHITE LED FLOODLIGHT WITH BLACK FINISH AND APPROXIMATELY 500W HALOGEN EQUIVALENCY	PIPE	SSRC	WL-LED-100-W	3000K WHITE LED INTEGRAL	100	120	STAGE LIGHTING CAGES MOUNT TO PIPE BATTENS VIA C-CLAMP AND PLUG INTO STAGE PLUG BOXES PER DRAWINGS. PROVIDE EXTENSION CABLES AS REQUIRED.
	A — SAFETY CABLE				N/A	N/A	N/A	PROVIDE ONE (1) PER FIXTURE.
	B — C-CLAMP				N/A	N/A	N/A	PROVIDE ONE (1) PER FIXTURE.
	C — GROUNDED, 20 AMP, TWISTLOCK CONNECTOR INSTALLED				N/A	N/A	N/A	PROVIDE ONE (1) PER FIXTURE.
FC	BLUE LED STEPLIGHT WITH LOUVERED FACEPLATE, BLACK FINISH, AND INTEGRAL ELECTRONIC 0-10V DIMMING DRIVER	RECESSED WALL	COLE LIGHTING	L250H-L26-HO-BLU-BLK-DIM-OPL	BLUE LED INTEGRAL	3.6	120	STAGE RUNNING LIGHT FIXTURES SHALL BE MOUNTED 18 IN. A.F.F. UNLESS OTHERWISE NOTED ON DRAWINGS.
FD	WHITE LED STEPLIGHT WITH LOUVERED FACEPLATE, BLACK FINISH, FROSTED ACRYLIC LENS, AND INTEGRAL ELECTRONIC 0-10V DIMMING DRIVER	RECESSED WALL	[illegible]	[illegible]	3000K WHITE LED INTEGRAL	12	120	AUDITORIUM STEPS, RAMPS, AISLES FIXTURES SHALL BE MOUNTED 18 IN. A.F.F. UNLESS OTHERWISE NOTED ON DRAWINGS.
	A — 1/2 IN. TRIM RING				N/A	N/A	N/A	
	B — BRACKETS AS NECESSARY FOR INSTALLATION FLUSH TO FINISHED SURFACE				N/A	N/A	N/A	
FF	NOT USED							

TYPE	FIXTURE DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NUMBER	LAMP(S)	WATTS/ LAMP	VOLT.	LOCATION / REMARKS
FF	WHITE LED STRIPLIGHT WITH NOMINAL 4 FT. LENGTH, WHITE ACRYLIC LENS, AND INTEGRAL ELECTRONIC 0-10V DIMMING DRIVER	SURFACE COVE	LITHONIA	2L1N SERIES	3500K WHITE LED INTEGRAL	3.6	120	CORRIDORS FIXTURES SHALL BE MOUNTED END TO END. CONTRACTOR SHALL COORDINATE REQUIRED RUN LENGTHS AND PROVIDE SHOP DRAWINGS SHOWING DIMENSIONED FIXTURE CONFIGURATIONS FOR EACH CONDITION. DRIVER SHALL BE ACCESSIBLE AND SERVICEABLE FROM BELOW AND WITHOUT REMOVING THE MOUNTINGS OR ADJACENT CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.
			METALUX	5N LED SERIES				
			H.E. WILLIAMS	7BL SERIES				
			COLUMBIA	LCL SERIES				
FG	WHITE LED LINEAR FIXTURE WITH NOMINAL 500 LUMEN PER FOOT OUTPUT, NOMINAL 4 IN. APERTURE, FLUSH OPAL WHITE ACRYLIC LENS, INTEGRAL ELECTRONIC 0-10V DIMMING DRIVER, AND CHICAGO PLENUM RATING	RECESSED CEILING	PINNACLE	E4A-CL835/500-xx-xx-U-OL1-1-0-W-CP	3500K WHITE LED INTEGRAL		120	CLASSROOMS CONTRACTOR SHALL COORDINATE REQUIRED RUN LENGTHS AND PROVIDE SHOP DRAWINGS SHOWING DIMENSIONED FIXTURE CONFIGURATIONS FOR EACH CONDITION. DRIVER SHALL BE ACCESSIBLE AND SERVICEABLE FROM BELOW AND WITHOUT REMOVING THE MOUNTINGS OR ADJACENT CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.
			LITECONTROL	4L-xx-D-xx-08-SOF-C-1-35K-D080-D10-1C-UNV-CCEA		4.8		
			FINELITE	HP-4-R-xx-8-835-F-xxx/1-SC-xx-CP		4.6		
			NEORAY	S124-DR-L0-35-xxx-xxx-1-U-DD-CP-1-W		5 W / FT		
FG1	SAME AS TYPE FG (EXCEPT FOR NOMINAL 1000 LUMEN PER FOOT OUTPUT)	RECESSED CEILING	PINNACLE	E4A-B28HO-xx-xx-U-OL1-1-0-W-CP	3500K WHITE LED INTEGRAL		120	MUSIC CLASSROOMS SAME REMARKS AS TYPE FG.
			LITECONTROL	4L-xx-D-xx-08-SOF-C-1-35K-D100-D10-1C-UNV-CCEA		10.2		
			FINELITE	HP-4-R-xx-W-835-F-xxx/1-SC-xx-CP		9.3		
			NEORAY	S124-DR-L0-35-xxx-xxx-1-U-DD-CP-1-W		10.7 W / FT		
FH	WHITE LED 2X2 VOLUMETRIC TROFFER WITH NOMINAL 3400 LUMEN OUTPUT, SCULPTED HIGH TRANSMITTANCE WHITE ACRYLIC LENS, INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER, AND CHICAGO PLENUM RATING	RECESSED CEILING	LITHONIA	2RTL2-33L-MVOLT-EZ1-LP835-CP	3500K WHITE LED INTEGRAL	36	120	BOH AREAS DRIVER SHALL BE ACCESSIBLE AND SERVICEABLE FROM BELOW AND WITHOUT REMOVING THE MOUNTINGS OR ADJACENT CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.
			METALUX	ATW-SWI4-22AC-L05-34-UNV-LE835-HCD1		30		
			FINELITE	HPR-LED-F-2X2-DCCO-S-835-xxx/1-SC-xx-CP		29		
			H.E.WILLIAMS	HET-G-S22-L33/835-A-CP-DIM-UNV		37		
			COLUMBIA	LEPC22-35-ML-G-LL-ED1-U-CP		34		
			PHILIPS DAY-BRITE	2-ST-x-34L-835-D-UNV-DIM-CHC		30		
FJ	WHITE LED 1X4 VOLUMETRIC TROFFER WITH NOMINAL 4300 LUMEN OUTPUT, SCULPTED HIGH TRANSMITTANCE WHITE ACRYLIC LENS, INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER, AND CHICAGO PLENUM RATING	RECESSED CEILING	LITHONIA	RTL4-48L-MVOLT-EZ1-LP835-CP	3500K WHITE LED INTEGRAL	41	120	CLASSROOMS, OFFICES DRIVER SHALL BE ACCESSIBLE AND SERVICEABLE FROM BELOW AND WITHOUT REMOVING THE MOUNTINGS OR ADJACENT CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.
			METALUX	ATW-SWI4-14AC-L04-44-UNV-LE835-HCD1		53		
			FINELITE	HPR-LED-F-1X4-DCCO-R-835-xxx/1-SC-xx-CP		43		
			H.E.WILLIAMS	HET-G-S14-L38/835-A-CP-DIM-UNV		44		
			COLUMBIA	LEPC14-35-ML-G-LL-ED1-U-CP		44		
			PHILIPS DAY-BRITE	1-ST-x-40L-835-4-D-UNV-DIM-CHC		36		
FK	WHITE LED DOWNLIGHT WITH NOMINAL 6000 LUMEN OUTPUT, NOMINAL 6 IN. APERTURE, 35-DEG. BEAM DISTRIBUTION, CLEAR SEMI-SPECULAR ALZAK REFLECTOR WITH SELF FLANGE, INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER, AND CHICAGO PLENUM RATING	RECESSED CEILING	GOTHAM	ICO-35/60-5ARX-L-SS-35D-xxx-EZ1-CP	3500K WHITE LED INTEGRAL	62	120	LOBBY DRIVER SHALL BE ACCESSIBLE AND SERVICEABLE FROM BELOW AND WITHOUT REMOVING THE MOUNTINGS OR ADJACENT CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.
			LIGHTOLIER	CSRNLC + CBL-6R-835-N-Z10-U + CS-R-DL-CD-P		57		
			PORTFOLIO	LDIBICP-60-D010TE + EUBB-6070-80-35 + 6LB-N-1-H		60		
FL	WHITE LED ASYMMETRIC FORWARD THROW UPLIGHT WITH NOMINAL 1500 LUMEN PER FOOT OUTPUT, POSITIVE LOCKING FOR TILT, AND INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER	SURFACE	ELLIPTIPAR	S315-RxxM-S-00-M-0K-0-35-ZX	3500K WHITE LED INTEGRAL	14 W / FT	120	LOBBY FIXTURES SHALL BE MOUNTED END TO END. CONTRACTOR SHALL COORDINATE REQUIRED RUN LENGTHS. DRIVER SHALL BE ACCESSIBLE AND SERVICEABLE FROM BELOW AND WITHOUT REMOVING THE MOUNTINGS OR ADJACENT CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.
FL1	SAME AS TYPE FL (EXCEPT FOR NOMINAL 3000 LUMEN PER FOOT OUTPUT)	SURFACE	ELLIPTIPAR	S317-RxxM-S-00-M-0K-0-35-ZX	3500K WHITE LED INTEGRAL	28 W / FT	120	LOBBY SAME REMARKS AS TYPE FL
FM	NOT USED							
FN	WHITE LED LINEAR DIRECT-INDIRECT FIXTURE WITH NOMINAL 1000 LUMEN PER FOOT DOWNLIGHT OUTPUT, NOMINAL 500 LUMEN PER FOOT UPLIGHT OUTPUT, NOMINAL 3.5 IN. X 9 IN. HOUSING, SEPARATE CIRCUITS FOR DIRECT AND INDIRECT COMPONENTS, FIELD ADJUSTABLE AIRCRAFT CABLE SUSPENSION, EXTRUDED FROSTED ACRYLIC LENS, AND INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER	PENDANT CEILING	LEDALITE	2906L-I-B-S-Q-D-xxx-G-x-E-x	3500K WHITE LED INTEGRAL	13	120	LUNCHROOM FINISH PER ARCHITECT. CONFIRM MOUNTING HEIGHT WITH ARCHITECT. CONTRACTOR SHALL COORDINATE REQUIRED RUN LENGTHS. DRIVER SHALL BE ACCESSIBLE AND SERVICEABLE FROM BELOW AND WITHOUT REMOVING THE MOUNTINGS OR ADJACENT CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.
			LITECONTROL	3L-P-D-LPA-xx-08-SOF-xx-35K-D050-D100-D01-1C-UNV-Fxx-L1		16		
			LUMENWERX	VIAIRDP-HLO-LED-80-1000-930-35-xxF1-UNV-D1-2-xxx-x		14 W / FT		
FP	WHITE LED LINEAR DIRECT FIXTURE WITH NOMINAL 1000 LUMEN PER FOOT DOWNLIGHT OUTPUT, NOMINAL 3.5 IN. X 5 IN. HOUSING, FIELD ADJUSTABLE AIRCRAFT CABLE SUSPENSION, EXTRUDED FROSTED ACRYLIC LENS, AND INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER	PENDANT CEILING	LEDALITE	2901-L-B-E-Q-N-xx-7-x-E-x	3500K WHITE LED INTEGRAL	9 W / FT	120	LIBRARY SAME REMARKS AS TYPE FN.
			LITECONTROL	3L-P-D-xx-08-SOF-xx-35K-D100-D01-1C-UNV-Fxx		10		
			LUMENWERX	VIAIRDP-HLO-LED-80-1000-35-xxF1-UNV-D1-1-xxx-x		9 W / FT		
FQ	WHITE LED DECORATIVE FIXTURE WITH NOMINAL 2800 LUMEN OUTPUT, NOMINAL 14 DIA., NOMINAL 3.5 IN. DEPTH, WHITE ACRYLIC LENS, INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER, AND ADA COMPLIANCE	SURFACE WALL	OCL	CT1-S15A-14-GW-xxx-LED32-35K-UNV-DIM0	3500K WHITE LED INTEGRAL	25	120	STAIRWELLS FINISH PER ARCHITECT. CONFIRM MOUNTING HEIGHT WITH ARCHITECT.
FR	WHITE LED ADJUSTABLE DOWNLIGHT WITH NOMINAL 4500 LUMEN OUTPUT, NOMINAL 6 IN. APERTURE, 30-DEG. BEAM DISTRIBUTION, CLEAR SEMI-SPECULAR ALZAK REFLECTOR WITH SELF FLANGE, 0-DEG TO 40-DEG TILT, 360-DEG ROTATION, POSITIVE LOCKING FOR BOTH TILT AND ROTATION, INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVER, AND CHICAGO PLENUM RATING	RECESSED CEILING	GOTHAM	ICO-AD-L35/45-5ARC-T20-LSS-30D-xxx-EZ1-CP	3500K WHITE LED INTEGRAL	45	120	LOBBY DRIVER SHALL BE ACCESSIBLE AND SERVICEABLE FROM BELOW AND WITHOUT REMOVING THE MOUNTINGS OR ADJACENT CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.
			PORTFOLIO	LDIIACP-45-80-35-D010TE + LARHQINF + 6LA1-H		54		
FS	WHITE LED CYLINDER WITH NOMINAL 8 IN. DIA. NOMINAL 36 IN. HEIGHT, MATTE WHITE ACRYLIC BODY, NOMINAL 7,000 LUMEN BODY, NOMINAL 2,000 LUMEN DOWNLIGHT, NARROW DOWNLIGHT DISTRIBUTION, SEPARATE CONTROL OF BODY AND DOWNLIGHT, AND INTEGRAL ELECTRONIC 0-10V DIMMABLE DRIVERS	PENDANT CEILING	VISPA	CP2C5B-L35K-MVOLT-L35K-NR9Bxxx-xxx	3500K WHITE LED INTEGRAL	106 W / FT	120	LIGHT WELL FINISH PER ARCHITECT. CONFIRM MOUNTING HEIGHT WITH ARCHITECT.
			SPI LIGHTING	SPI12688-L7W-P7Iw-120-277V-28W-26DEG-3500K-OAH		99		
EXTERIOR LIGHTING FIXTURES								
SA	WHITE LED AREA LUMINARE WITH NOMINAL 2200 LUMEN OUTPUT, FULL CUTOFF, TYPE II SHORT DISTRIBUTION, INTEGRAL ELECTRONIC DRIVER, AND UL LISTING FOR WET LOCATION	SURFACE WALL	BEGA	22383-K3-xxx	3000K WHITE LED INTEGRAL	16	120	EXTERIOR FINISH PER ARCHITECT.
SB	WHITE LED AREA LUMINARE WITH NOMINAL 4000 LUMEN OUTPUT, FULL CUTOFF, TYPE III SHORT DISTRIBUTION, INTEGRAL ELECTRONIC DRIVER, AND UL LISTING FOR WET LOCATION	POLE	LITHONIA	DSX0-LED-20C-530-30K-T3S-MVOLT-dFA-xxx-HS-xxxxx	3000K WHITE LED INTEGRAL	35	120	EXTERIOR FINISH PER ARCHITECT.
	A — NOMINAL 14 FT. TALL POLE	SURFACE FOUNDATION			N/A	N/A	N/A	POLE DIAMETER, MATERIAL, THICKNESS, AND BASE SIZE / CONFIGURATION SHALL BE CONFIRMED BY ENGINEER. FINISH PER ARCHITECT.
SC	WHITE LED AREA LUMINARE WITH NOMINAL 5200 LUMEN OUTPUT, FULL CUTOFF, TYPE III MEDIUM DISTRIBUTION, INTEGRAL ELECTRONIC DRIVER, AND UL LISTING FOR WET LOCATION	POLE	LITHONIA	DSX1-LED-30C-530-30K-T3M-MVOLT-dFA-xxx-HS-xxxxx	3000K WHITE LED INTEGRAL	52	120	EXTERIOR FINISH PER ARCHITECT.
	A — NOMINAL 20 FT. TALL POLE	SURFACE FOUNDATION			N/A	N/A	N/A	POLE DIAMETER, MATERIAL, THICKNESS, AND BASE SIZE / CONFIGURATION SHALL BE CONFIRMED BY ENGINEER. FINISH PER ARCHITECT.
SC1	SAME AS TYPE SC (EXCEPT FOR NO INTERNAL HOUSE SIDE SHIELD)	POLE	LITHONIA	DSX1-LED-30C-530-30K-T3M-MVOLT-dFA-xxx-xxxxx	3000K WHITE LED INTEGRAL	52	120	EXTERIOR FINISH PER ARCHITECT.
	A — NOMINAL 20 FT. TALL POLE	SURFACE FOUNDATION			N/A	N/A	N/A	POLE DIAMETER, MATERIAL, THICKNESS, AND BASE SIZE / CONFIGURATION SHALL BE CONFIRMED BY ENGINEER. FINISH PER ARCHITECT.
SD	WHITE LED FLOOD LIGHT WITH NOMINAL 700 LUMEN OUTPUT, NARROW DISTRIBUTION, INTEGRAL ELECTRONIC DRIVER, AND UL LISTING FOR WET LOCATION	SURFACE FOUNDATION	BEGA	98006-K3-xxx	3000K WHITE LED INTEGRAL	10.5	120	EXTERIOR FINISH PER ARCHITECT. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.
SF	WHITE LED AREA LUMINARE WITH NOMINAL 1800 LUMEN OUTPUT, WIDE DISTRIBUTION, NOMINAL 12 FT. TALL COLUMN, INTEGRAL ELECTRONIC DRIVER, AND UL LISTING FOR WET LOCATION	SURFACE FOUNDATION	TECH LIGHTING	700OCTUR-830-12-40-x-UNV-2-S-xx	3000K WHITE LED INTEGRAL	28	120	EXTERIOR FINISH PER ARCHITECT. BASE SIZE / CONFIGURATION SHALL BE CONFIRMED BY ENGINEER.
			SISTEMALUX	S412SWI-UNV-xx-MOD				
				MOD = REDUCED OUTPUT				
SG	WHITE LED FLOOD LIGHT WITH NOMINAL 1500 LUMEN OUTPUT, HORIZONTAL FLOOD DISTRIBUTION, INTEGRAL ELECTRONIC DRIVER, AND UL LISTING FOR WET LOCATION	SURFACE J-BOX	LITHONIA	DSXF1-LED-P1-30K-HMF-MVOLT-THK-xx-LBV-xxxxx	3000K WHITE LED INTEGRAL	21	120	EXTERIOR FINISH PER ARCHITECT. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE.

ONLY SUBSTITUTIONS SUBMITTED TO ARCHITECT AND LIGHTING CONSULTANT AT LEAST 10 DAYS PRIOR TO BID DATE WILL BE CONSIDERED.

NOTES:
1. FOR ADDITIONAL LUMINAIRE SCHEDULE REFER TO SHEET E5.1.
2. FOR ADDITIONAL INFORMATION REFER TO SPECIFICATIONS 26 51 10 AND 26 56 10.

NOTES:
LIGHTING SHOP DRAWING SUBMITTALS SHALL INCLUDE LAMP INFORMATION SHEETS ALONG WITH FIXTURE INFORMATION SHEETS.
LIGHTING SHOP DRAWING SUBMITTALS SHALL BE PREPARED BY MANUFACTURERS AND/OR MANUFACTURERS REPRESENTATIVES.
VERIFY CEILING COMPATIBILITY, MOUNTING CONDITIONS, CLEARANCES AND STRUCTURAL SUSPENSION SYSTEM PRIOR TO FIXTURE PROCUREMENT.
ALL CIRCUITS ARE 2-WIRE. NO COMMON NEUTRALS.
ALL FIXTURE SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT AND LIGHTING CONSULTANT PRIOR TO BID.
XXX DESIGNATES INFORMATION TO BE SUPPLIED BY CONTRACTOR.
DO NOT USE 130V LAMPS UNLESS SPECIFICALLY NOTED OTHERWISE.
REFER TO THE ARCHITECTURAL LIGHTING FIXTURE SPECIFICATION FOR ADDITIONAL INFORMATION.
CEILING COMPATIBILITY FOR ALL RECESSED FIXTURES TO BE CONFIRMED BY CONTRACTOR BEFORE ORDERING.

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PROJECT #: 17000721.00
Illinois Design Firm Registration #184-000973

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REFERENCE SCALE IN INCHES
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Chicago Public Schools

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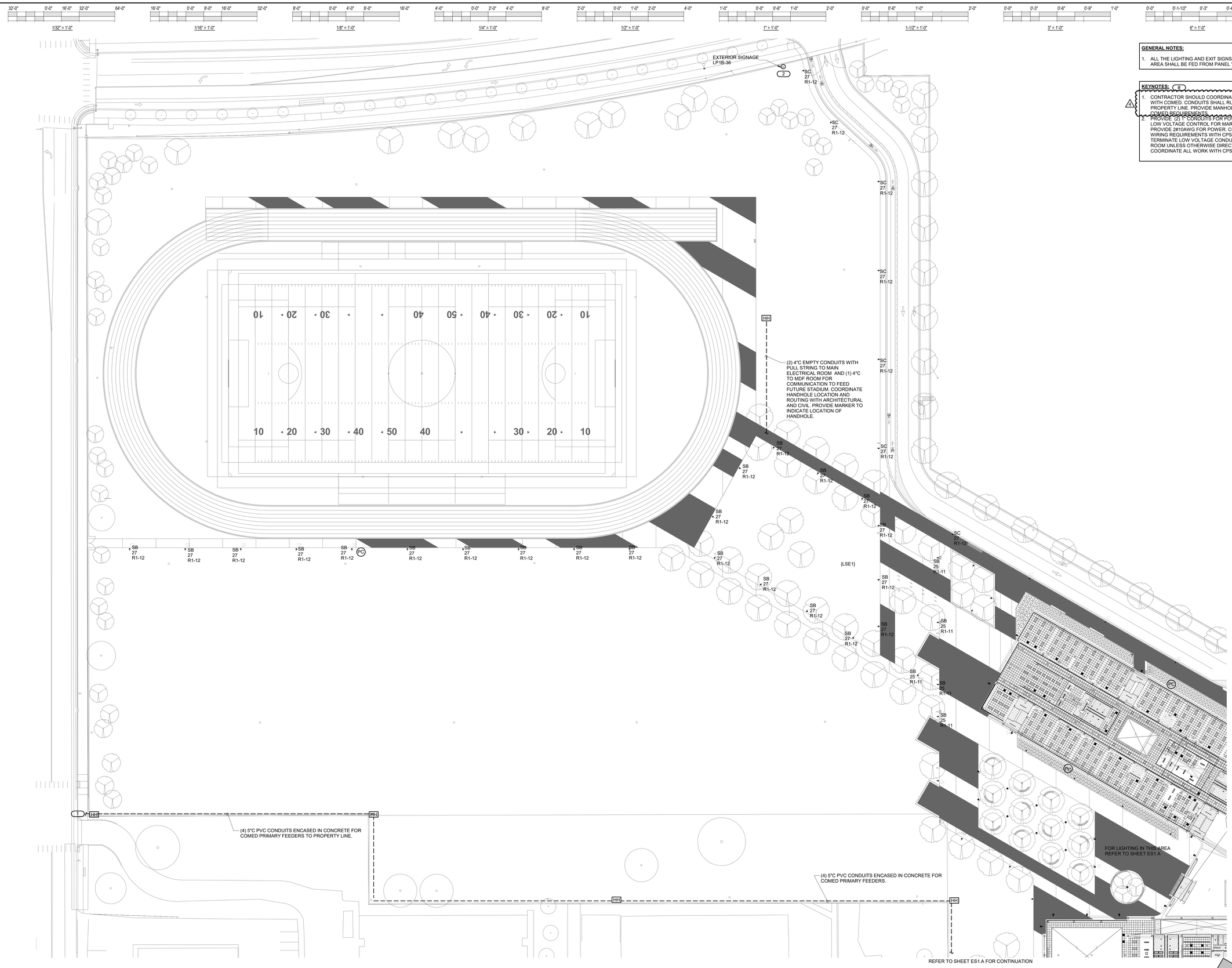

1 ELECTRICAL SITE PLAN - AREA-B

1/32" = 1'-0"

GENERAL NOTES:

1. ALL THE LIGHTING AND EXIT SIGNS IN THIS AREA SHALL BE FED FROM PANEL 'LP1B'.

KEYNOTES: #

1. CONTRACTOR SHOULD COORDINATE WORK WITH COMED. CONDUITS SHALL RUN TO PROPERTY LINE. PROVIDE MANHOLES PER COMED REQUIREMENTS.
2. PROVIDE (2) 1" CONDUITS FOR POWER AND LOW VOLTAGE CONTROL FOR MARQUEE SIGN. PROVIDE 2#10AWG FOR POWER. COORDINATE WIRING REQUIREMENTS WITH CPS. TERMINATE LOW VOLTAGE CONDUIT IN MDF ROOM UNLESS OTHERWISE DIRECTED BY CPS. COORDINATE ALL WORK WITH CPS.

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220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

Issuance

Mark	Description	Date
4	ADDENDUM #3	02/28/2018
3	ADDENDUM #2	02/21/2018
2	ADD #1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No.: 05165
Project No.: N/A

Title
ELECTRICAL SITE PLAN - AREA-B

Sheet
ES1.B

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REFERENCE SCALE IN INCHES
0 1 2 3

A B C D

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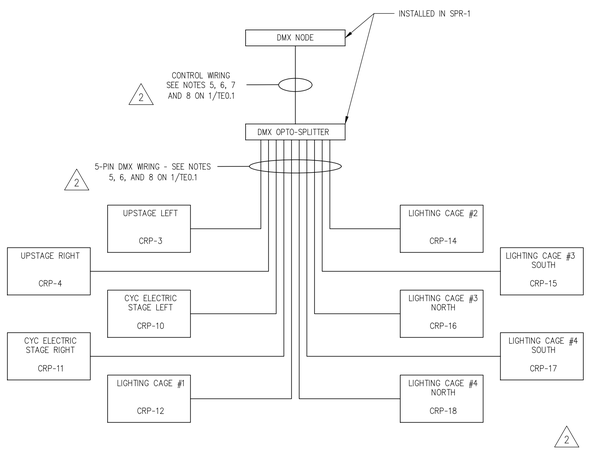
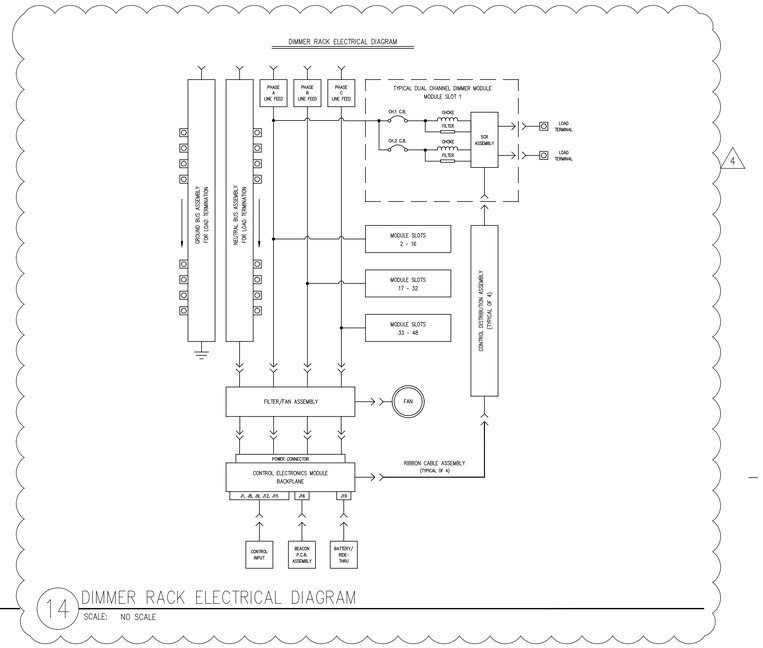
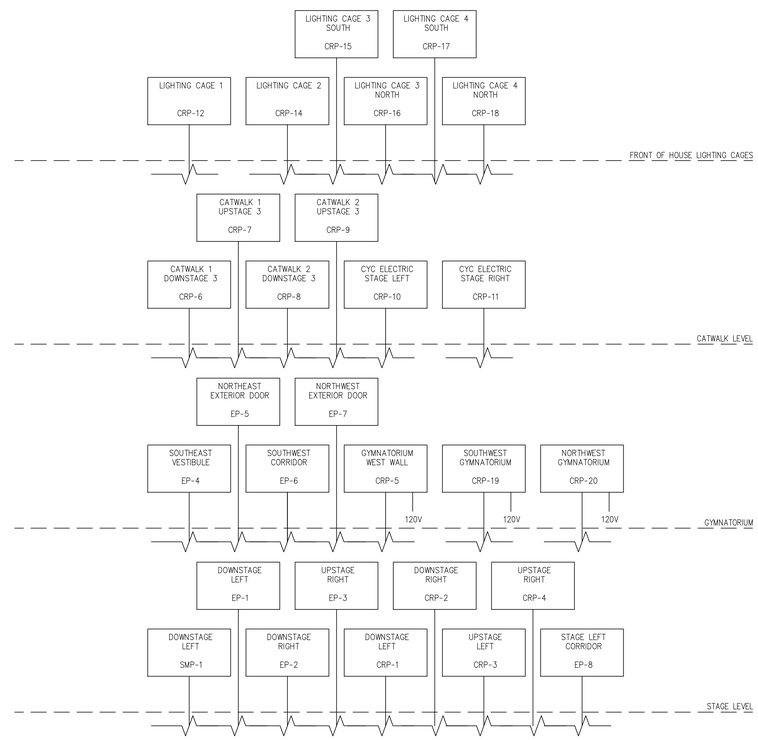
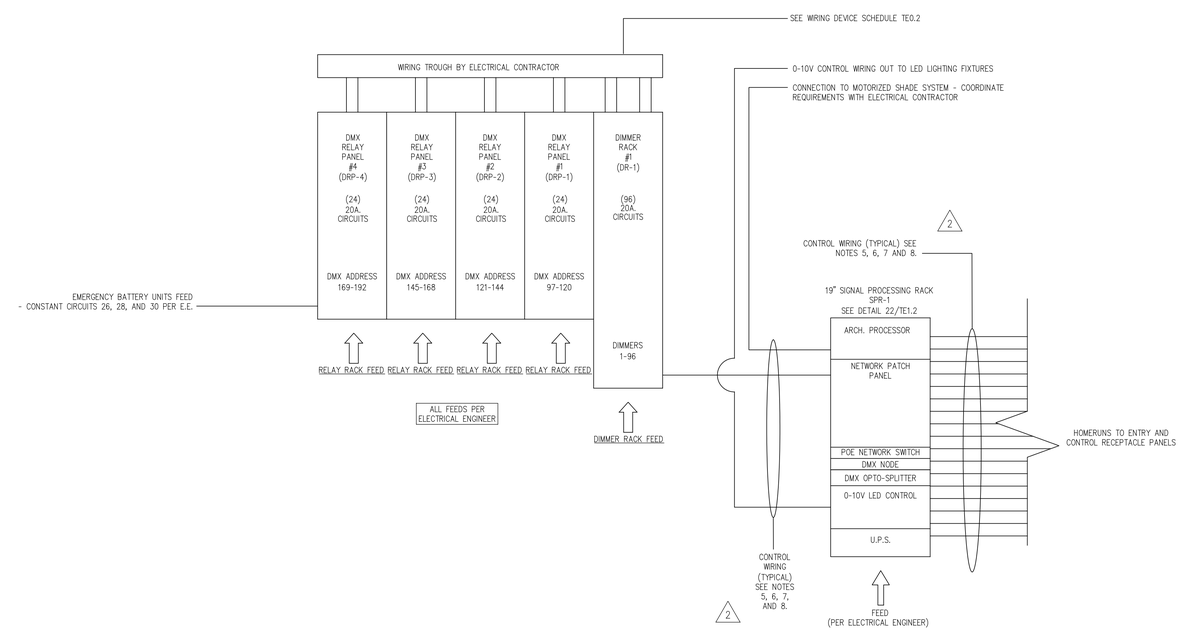


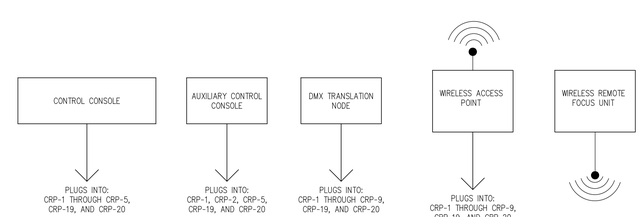
19 ONE-LINE DIAGRAM: DMX
SCALE: NO SCALE



14 DIMMER RACK ELECTRICAL DIAGRAM
SCALE: NO SCALE







2

STAGE LIGHTING SYSTEM NOTES:
1. ALL DEVICES PROVIDED BY STAGE LIGHTING MANUFACTURER UNLESS NOTED OTHERWISE.
2. ALL LOAD CIRCUITS ARE TWO WIRE, NO SHARED NEUTRALS ARE PERMITTED.
3. TYPICAL STAGE LIGHTING PRACTICE ALLOWS FOR FULL LOADING OF 2.4KW ON 20A. CIRCUITS. USE MINIMUM #10 AWG CONDUCTORS.
4. FOR THEATRES, NEC ARTICLE 520.6 EXCEPTS THE STANDARD 30 CONDUCTOR WIREWAY FILL LIMIT.
5. CONTROL WIRING REQUIREMENTS VARY GREATLY AMONG MANUFACTURERS, ELECTRICAL CONTRACTOR SHALL OBTAIN CONTROL WIRING REQUIREMENTS FROM STAGE LIGHTING MANUFACTURER PRIOR TO BID.
6. ALL CONTROL WIRING RUNS SHALL BE CONTINUOUS AND WITHOUT BREAKS OR SPLICES.
7. ALL NETWORK WIRING RUNS SHALL BE CATEGORY 6, 100 BASE T AND CONFORM TO ANSI E1.17 - 2010 ENTERTAINMENT TECHNOLOGY - ARCHITECTURE FOR CONTROL NETWORKS.
8. CONDUIT, WIRE BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS FOR WIRING REQUIREMENTS.
9. ALL STAGE DIMMING AND RELAY EQUIPMENT SHALL MEET APPLICABLE REQUIREMENTS OF CEC 18-27-520.

2

1 ONE-LINE DIAGRAM: STAGE DIMMING SYSTEM
SCALE: NO SCALE

DRAWING NAME: TE-0-X PLOTTED BY: CHRISTOPHER SPRAGUE DATE PLOTTED: 23-Feb-18 SCALE: 1:1

PUBLIC BUILDING COMMISSION — Chicago Public Schools

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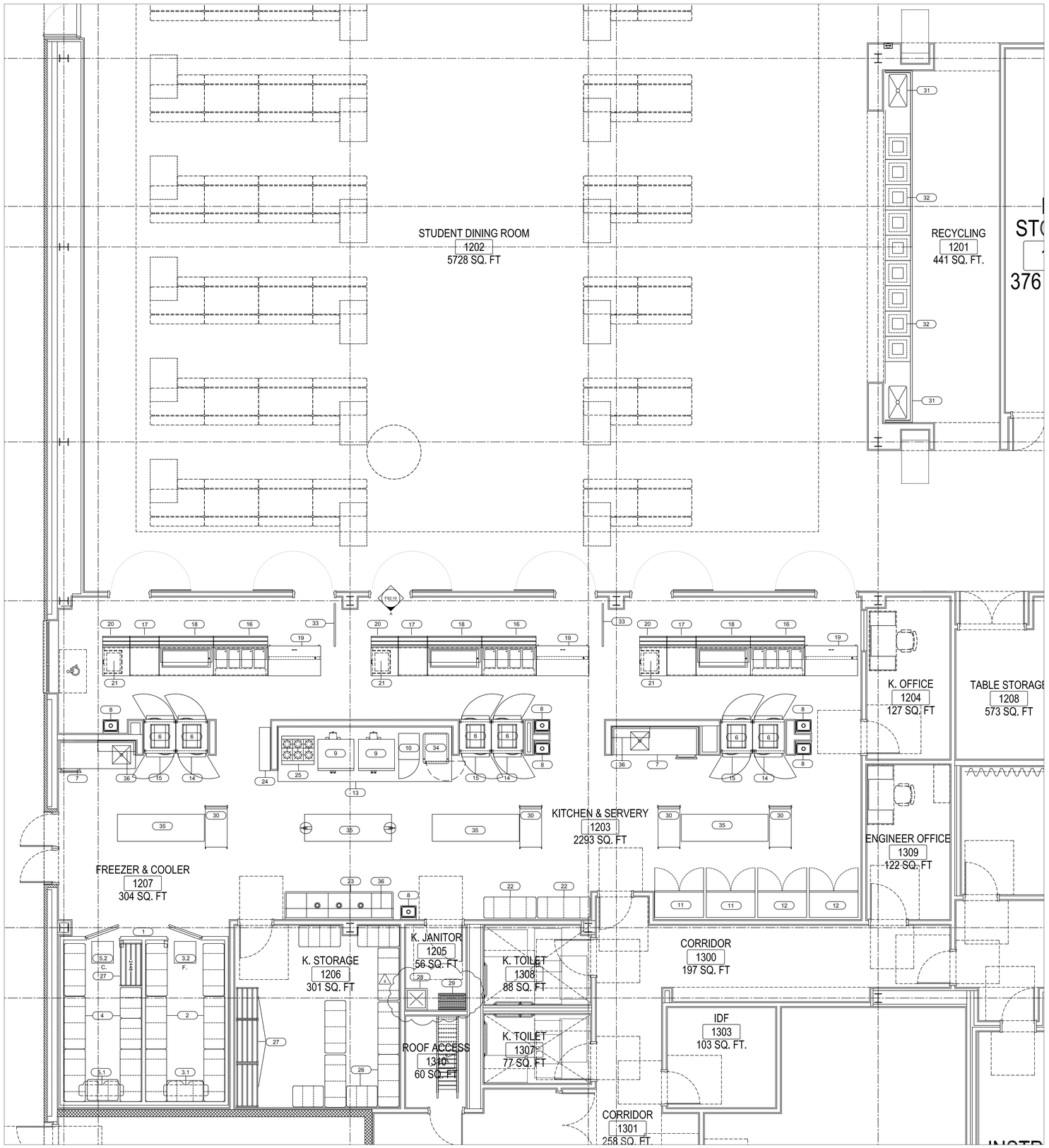
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
STAGE DIMMING SYSTEM: ONE-LINE DIAGRAM

Sheet
TE0.1



FOOD SERVICE EQUIPMENT

BY G.C.	BY CPS	ITEM NUMBER	QUANTITY	ITEM DESCRIPTION
●		1	1	2 COMP. WALK IN COOLER/FREEZER
●		2	7	FREEZER SHELVING
●		3	1	REFRIGERATION SYSTEM (F)
●		3.1	1	EVAPORATOR COIL (F)
●		3.2	1	CONDENSING UNIT (F)
●		4	7	REFRIGERATOR SHELVING
●		5	1	REFRIGERATION SYSTEM (C)
●		5.1	1	EVAPORATOR COIL (C)
●		5.2	1	CONDENSING UNIT (C)
●		6	6	ANGLE RACKS
●		7	2	PREP TABLES W/ SINKS
●		8	6	HAND SINKS
●		9	2	DOUBLE CONVECTION OVENS
●		10	1	DOUBLE STEAMER
●		11	2	REFRIGERATORS
●		12	2	FREEZERS
●		13	1	EXHAUST HOOD - TYPE I
●		14	3	ROLL THRU FOOD WARMERS
●		15	3	ROLL THRU REFRIGERATORS
●		16	3	HOT FOOD COUNTERS
●		17	3	FLAT TOP COUNTERS
●		18	3	COLD FOOD COUNTERS
●		19	3	MILK CASE COOLERS
●		20	3	CHECKER COUNTERS
●		21	3	POS SYSTEMS - NOT IN 111400
●		22	2	UTENSIL SHELVING
●		23	1	3 COMPARTMENT SINK
●		24	1	FIRE SUPPRESSION SYSTEM
●		25	1	SIX BURNER RANGE
●		26	9	STOREROOM SHELVING
●		27	4	DUNNAGE RACKS
●		28	1	MOP SINK
●		29	1	CHEMICAL SHELVING
●		30	4	CARTS
●		31	2	RECYCLING COUNTERS
●		32	9	RECYCLING BINS
●		33	2	GUARD RAILS
●		34	1	HEATED CABINET
●		35	4	WORK TABLES (1 W/ TWO CAN OPENERS)
●		36	3	WALL SHELVES

KEY PLAN

READ DUNNING SCHOOL

4071 N. OAK PARK AVENUE
CHICAGO, IL 60634

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

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	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
FIRST FLOOR FOODSERVICE EQUIPMENT PLAN

Sheet
FS2.10

1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"

FOOD SERVICE EQUIPMENT / MECHANICAL SCHEDULE

BY G.C.	BY CPS	ITEM NUMBER	QUANTITY	ITEM DESCRIPTION	WATER CONNECTIONS: HOT WATER SIZE	COLD WATER SIZE	STUB UP HEIGHT	EQUIP. HEIGHT	H.W. CONSUMPTION GAL. PER HOUR	DRAINS: IND. WASTE SIZE	DIRECT WASTE SIZE	WASTE HEIGHT	GAS: GAS LINE SIZE	GAS HEIGHT AFF	MBTU LOAD HEIGHT A.F.F.	WATER COLUMN	STEAM: STEAM SUPP. SIZE	COND. RETURN SIZE	HEIGHT	BOILER H.P.	REMARKS
●		1	1	2 COMP. WALK IN COOLER/FREEZER																	
●		2	7	FREEZER SHELVING																	
●		3	1	REFRIGERATION SYSTEM (F)																	
●		3.1	1	EVAPORATOR COIL (F)																	RUN TO ITEM #5.1 FS
●		3.2	1	CONDENSING UNIT (F)																	
●		4	7	REFRIGERATOR SHELVING																	
●		5	1	REFRIGERATION SYSTEM (C)																	
●		5.1	1	EVAPORATOR COIL (C)						1"		FS									
●		5.2	1	CONDENSING UNIT (C)																	
●		6	6	ANGLE RACKS																	
●		7	2	PREP TABLES W/ SINKS	.5"	.5"	12"	40"		2"		FS									"T" TO PRE RINSE SPRAY
●		8	6	HAND SINKS	.5"	.5"	12"	40"			1.5"										
●		9	2	DOUBLE CONVECTION OVENS									.75"	16"	100						MANIFOLD
●		10	1	DOUBLE STEAMER		3/4"	12"/36"			FD											
●		11	2	REFRIGERATORS																	
●		12	2	FREEZERS																	
●		13	1	EXHAUST HOOD - TYPE I																	
●		14	3	ROLL THRU FOOD WARMERS																	
●		15	3	ROLL THRU REFRIGERATORS																	
●		16	3	HOT FOOD COUNTERS						1"		FS									
●		17	3	FLAT TOP COUNTERS																	
●		18	3	COLD FOOD COUNTERS						1"		FS									
●		19	3	MILK CASE COOLERS																	
●		20	3	CHECKER COUNTERS																	
●		21	3	POS SYSTEMS - NOT IN 111400																	
●		22	2	UTENSIL SHELVING																	
●		23	1	3 COMPARTMENT SINK	.75"	.75"	12"	40"		2"		FS									
●		24	1	FIRE SUPPRESSION SYSTEM																	
●		25	1	SIX BURNER RANGE									.75"	16"	215						
●		26	9	STOREROOM SHELVING																	
●		27	4	DUNNAGE RACKS																	
●		28	1	MOP SINK	.5"	.5"	36"	36"			3"	0"									
●		29	1	CHEMICAL SHELVING																	
●		30	4	CARTS																	
●		31	2	RECYCLING COUNTERS	.5"	.5"	12"	40"		1.5"		FS									
●		32	9	RECYCLING BINS																	
●		33	2	GUARD RAILS																	
●		34	1	HEATED CABINET																	
●		35	4	WORK TABLES (1 W/ TWO CAN OPENERS)																	
●		36	3	WALL SHELVES																	

SYMBOLS

- FLOOR SINK (FS)
- FLOOR DRAIN (FD)
- FLOOR DRAIN W/FUNNEL (FDF)
- HOT WATER (HW)
- COLD WATER (CW)
- GAS
- DIRECT WASTE (DW)

AFF = ABOVE FIN. FLR
FA = DOWN FROM ABV.

FOOD SERVICE EQUIPMENT / ELECTRICAL SCHEDULE

BY G.C.	BY CPS	ITEM NUMBER	QUANTITY	ITEM DESCRIPTION	ELECTRICAL CONNECTIONS: VOLTAGE	PHASE	AMPERAGE	KILOWATTS	HORSEPOWER	TYPE OF CONN.	HEIGHT A.F.F.	EQUIP. HEIGHT	REMARKS
●		1	1	2 COMP. WALK IN COOLER/FREEZER	120	1	15			JB	108"	102"	FOR LIGHTS AND DOOR HEATER
●		2	7	FREEZER SHELVING									
●		3	1	REFRIGERATION SYSTEM (F)									
●		3.1	1	EVAPORATOR COIL (F)	208	1	1.2		.07	JB	108"	102"	
●		3.2	1	CONDENSING UNIT (F)	208	3	21.4		3	JB			VERIFY LOCATION - INTERWIRE W/ ITEM 3.1
●		4	7	REFRIGERATOR SHELVING									
●		5	1	REFRIGERATION SYSTEM (C)									
●		5.1	1	EVAPORATOR COIL (C)	120	1	2		.07	JB	108"	102"	
●		5.2	1	CONDENSING UNIT (C)	208	3	11.1		1.5	JB			VERIFY LOCATION
●		6	6	ANGLE RACKS									
●		7	2	PREP TABLES W/ SINKS	120	1	15			DGR	50"		CONVENIENCE OUTLET
●		8	6	HAND SINKS									
●		9	2	DOUBLE CONVECTION OVENS	120	1	9		.5	DGR	24"/60"		NEMA 5-15P
●		10	1	DOUBLE STEAMER	208	3	33.6	12		SGR	24"/42"		NEMA 15-50P - EACH
●		11	2	REFRIGERATORS	120	1	5.8		1/3	DGR	18"		NEMA 5-15P
●		12	2	FREEZERS	120	1	11		3/4	DGR	18"		NEMA 5-15P
●		13	1	EXHAUST HOOD - TYPE I									
●		14	3	ROLL THRU FOOD WARMERS	208	1	15	2		SGR	84"		NEMA 14-20P
●		15	3	ROLL THRU REFRIGERATORS	120	1	15		1/3	DGR	84"		NEMA 5-15P
●		16	3	HOT FOOD COUNTERS	208	1	17.3	3.6		SGR	4"		NEMA L6-30P
●		17	3	FLAT TOP COUNTERS									
●		18	3	COLD FOOD COUNTERS	120	1	6		1/4	DGR	4"		NEMA 5-15P
●		19	3	MILK CASE COOLERS	120	1	6.8		1/3	DGR	4"		NEMA 5-15P
●		20	3	CHECKER COUNTERS	120	1	15	.880		DGR	4"		NEMA 5-15P
●		21	3	POS SYSTEMS - NOT IN 111400									EMPTY CONDUIT FOR DATA
●		22	2	UTENSIL SHELVING									
●		23	1	3 COMPARTMENT SINK									
●		24	1	FIRE SUPPRESSION SYSTEM	120	1	15			JB	108"	102"	
●		25	1	SIX BURNER RANGE	120	1	15			DGR	14"		
●		26	9	STOREROOM SHELVING									
●		27	4	DUNNAGE RACKS									
●		28	1	MOP SINK									
●		29	1	CHEMICAL SHELVING									
●		30	4	CARTS									
●		31	2	RECYCLING COUNTERS									
●		32	9	RECYCLING BINS									
●		33	2	GUARD RAILS									
●		34	1	HEATED CABINET	120	1	15	1.5		DGR	4"		
●		35	4	WORK TABLES (1 W/ TWO CAN OPENERS)	120	1	15			DGR	50"		CONVENIENCE OUTLETS
●		36	3	WALL SHELVES									

SYMBOLS

- JUNCTION BOX (JB)
- DUPLEX RECEPTACLE (DGR)
- SINGLE RECEPTACLE (SGR)
- DEDICATED DUPLEX RECEPTACLE (DDGR)
- JB ON EQUIPMENT
- P ANSUL FIRE PULL

FA=WIRING FROM ABV.
AFF=ABOVE FIN FLR

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PUBLIC BUILDING COMMISSION
Chicago Public Schools

READ DUNNING SCHOOL

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CHICAGO PUBLIC SCHOOLS
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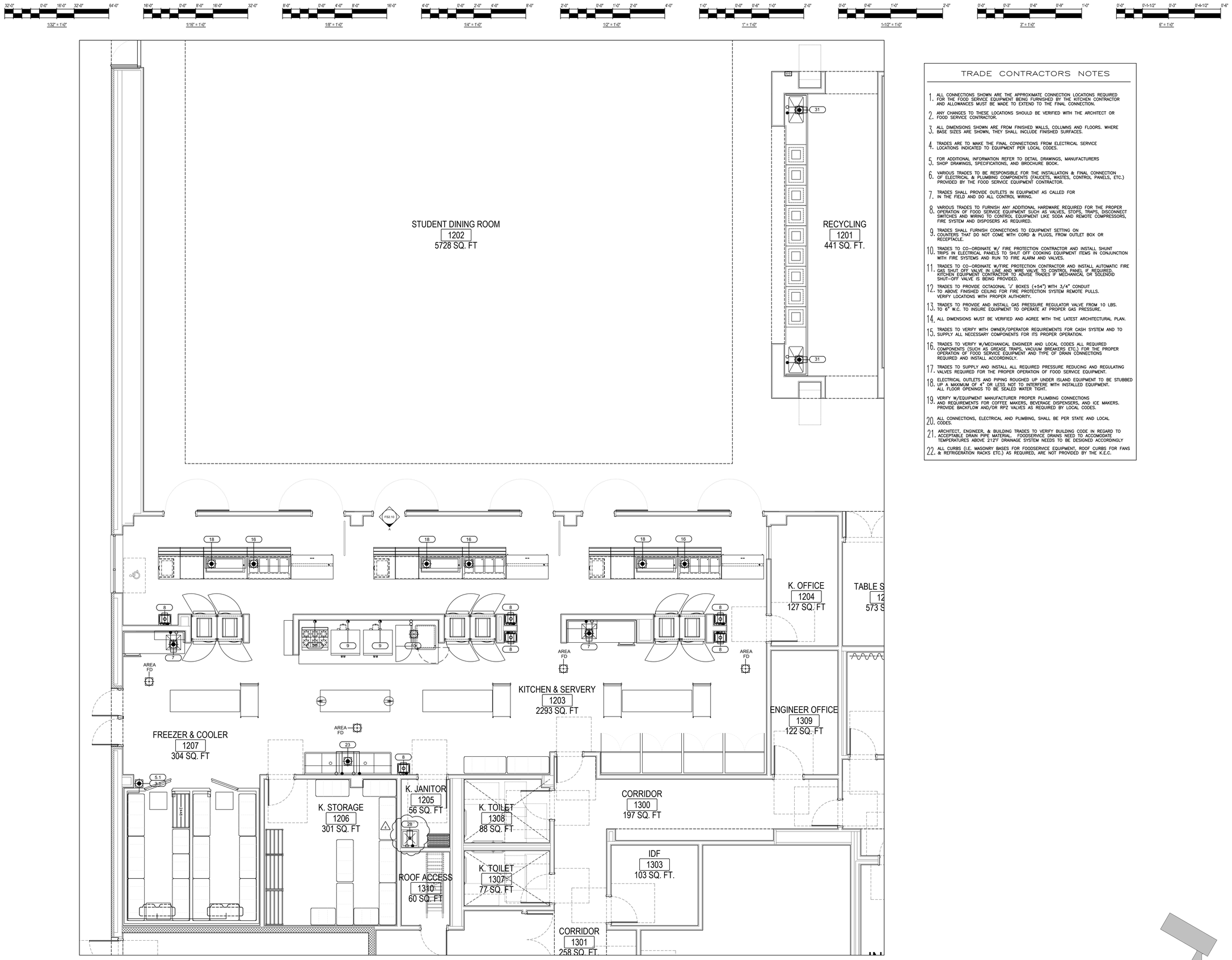
Issuance

Mark	Description	Date
1	ADDENDUM #3	02/28/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
FIRST FLOOR FOODSERVICE UTILITY SCHEDULES

Sheet
FS3.10



TRADE CONTRACTORS NOTES

1. ALL CONNECTIONS SHOWN ARE THE APPROXIMATE CONNECTION LOCATIONS REQUIRED FOR THE FOOD SERVICE EQUIPMENT BEING FURNISHED BY THE KITCHEN CONTRACTOR AND ALLOWANCES MUST BE MADE TO EXTEND TO THE FINAL CONNECTION.
2. ANY CHANGES TO THESE LOCATIONS SHOULD BE VERIFIED WITH THE ARCHITECT OR FOOD SERVICE CONTRACTOR.
3. ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, COLUMNS AND FLOORS. WHERE BASE SIZES ARE SHOWN, THEY SHALL INCLUDE FINISHED SURFACES.
4. TRADES ARE TO MAKE THE FINAL CONNECTIONS FROM ELECTRICAL SERVICE LOCATIONS INDICATED TO EQUIPMENT PER LOCAL CODES.
5. FOR ADDITIONAL INFORMATION REFER TO DETAIL DRAWINGS, MANUFACTURERS SHOP DRAWINGS, SPECIFICATIONS, AND BROCHURE BOOK.
6. VARIOUS TRADES TO BE RESPONSIBLE FOR THE INSTALLATION & FINAL CONNECTION OF ELECTRICAL & PLUMBING COMPONENTS (FAUCETS, WASTES, CONTROL PANELS, ETC.) PROVIDED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.
7. TRADES SHALL PROVIDE OUTLETS IN EQUIPMENT AS CALLED FOR IN THE FIELD AND DO ALL CONTROL WIRING.
8. VARIOUS TRADES TO FURNISH ANY ADDITIONAL HARDWARE REQUIRED FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT SUCH AS VALVES, STOPS, TRAPS, DISCONNECT SWITCHES AND WIRING TO CONTROL EQUIPMENT LIKE SODA AND REMOTE COMPRESSORS, FIRE SYSTEM AND DISPOSERS AS REQUIRED.
9. TRADES SHALL FURNISH CONNECTIONS TO EQUIPMENT SETTING ON COUNTERS THAT DO NOT COME WITH CORD & PLUGS, FROM OUTLET BOX OR RECEPTACLE.
10. TRADES TO CO-ORDINATE W/ FIRE PROTECTION CONTRACTOR AND INSTALL SHUNT TRIPS IN ELECTRICAL PANELS TO SHUT OFF COOKING EQUIPMENT ITEMS IN CONJUNCTION WITH FIRE SYSTEMS AND RUN TO FIRE ALARM AND VALVES.
11. TRADES TO CO-ORDINATE W/FIRE PROTECTION CONTRACTOR AND INSTALL AUTOMATIC FIRE GAS SHUT OFF VALVE IN LINE AND WIRE VALVE TO CONTROL PANEL IF REQUIRED. KITCHEN EQUIPMENT CONTRACTOR TO ADVISE TRADES IF MECHANICAL OR SOLENOID SHUT-OFF VALVE IS BEING PROVIDED.
12. TRADES TO PROVIDE OCTAGONAL 'J' BOXES (+54") WITH 3/4" CONDUIT TO ABOVE FINISHED CEILING FOR FIRE PROTECTION SYSTEM REMOTE PULLS. VERIFY LOCATIONS WITH PROPER AUTHORITY.
13. TRADES TO PROVIDE AND INSTALL GAS PRESSURE REGULATOR VALVE FROM 10 LBS. TO 6" W.C. TO INSURE EQUIPMENT TO OPERATE AT PROPER GAS PRESSURE.
14. ALL DIMENSIONS MUST BE VERIFIED AND AGREE WITH THE LATEST ARCHITECTURAL PLAN.
15. TRADES TO VERIFY WITH OWNER/OPERATOR REQUIREMENTS FOR CASH SYSTEM AND TO SUPPLY ALL NECESSARY COMPONENTS FOR ITS PROPER OPERATION.
16. TRADES TO VERIFY W/MECHANICAL ENGINEER AND LOCAL CODES ALL REQUIRED COMPONENTS (SUCH AS GREASE TRAPS, VACUUM BREAKERS ETC.) FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT AND TYPE OF DRAIN CONNECTIONS REQUIRED AND INSTALL ACCORDINGLY.
17. TRADES TO SUPPLY AND INSTALL ALL REQUIRED PRESSURE REDUCING AND REGULATING VALVES REQUIRED FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT.
18. ELECTRICAL OUTLETS AND PIPING ROUGHED UP UNDER ISLAND EQUIPMENT TO BE STUBBED UP A MAXIMUM OF 4" OR LESS NOT TO INTERFERE WITH INSTALLED EQUIPMENT. ALL FLOOR OPENINGS TO BE SEALED WATER TIGHT.
19. VERIFY W/EQUIPMENT MANUFACTURER PROPER PLUMBING CONNECTIONS AND REQUIREMENTS FOR COFFEE MAKERS, BEVERAGE DISPENSERS, AND ICE MAKERS. PROVIDE BACKFLOW AND/OR RPZ VALVES AS REQUIRED BY LOCAL CODES.
20. ALL CONNECTIONS, ELECTRICAL AND PLIMBING, SHALL BE PER STATE AND LOCAL CODES.
21. ARCHITECT, ENGINEER, & BUILDING TRADES TO VERIFY BUILDING CODE IN REGARD TO ACCEPTABLE DRAIN PIPE MATERIAL. FOODSERVICE DRAINS NEED TO ACCOMODATE TEMPERATURES ABOVE 212°F DRAINAGE SYSTEM NEEDS TO BE DESIGNED ACCORDINGLY
22. ALL CURBS (I.E. MASONRY BASES FOR FOODSERVICE EQUIPMENT, ROOF CURBS FOR FANS & REFRIGERATION RACKS ETC.) AS REQUIRED, ARE NOT PROVIDED BY THE K.E.C.

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PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
FIRST FLOOR FOODSERVICE PLUMBING PLAN

Sheet
FS4.10

Date of Issuance: March 1, 2018
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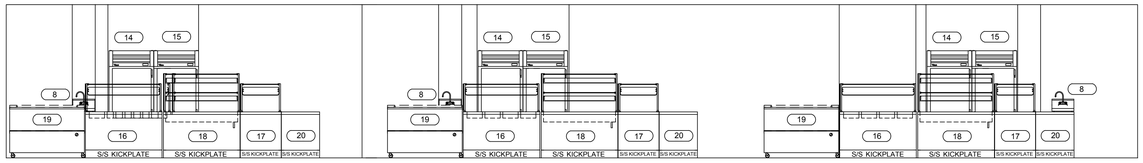
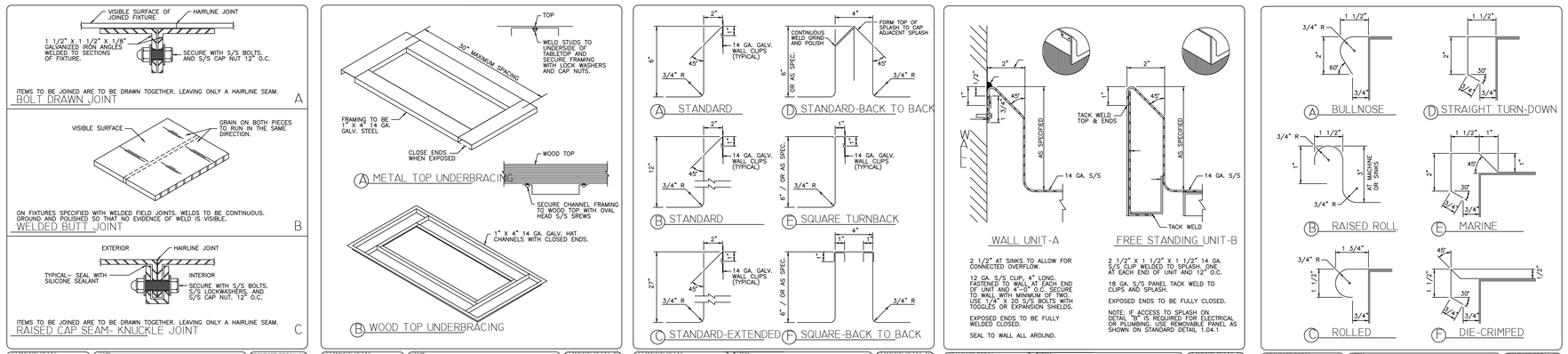
1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



ELEVATION "A"



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Issuance

Mark	Description	Date
1	ADDENDUM #3	02/28/2018

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PBC Contract No: 05165
Project No.: N/A
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FIRST FLOOR SERVING LINE ELEVATIONS / DETAIL SHEET
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