PUBLIC BUILDING COMMISSION OF CHICAGO

ADDENDUM NO. 2 TO CONTRACT NO. <u>C1561</u> FOR

Abraham Lincoln Elementary School Annex & Renovation

DATE: August 27, 2014

NOTICE OF CHANGES IN CONTRACT DOCUMENTS

The following changes are hereby made in the Contract Documents.

CHANGES TO BOOK 3 - TECHNICAL SPECIFICATIONS:

Change 1: Section 000110 – Table of Contents: **DELETE & REPLACE.**

Change 2: Section 087100 - Door Hardware : DELETE & REPLACE

Change 3: Section 011411 – Construction Operations and Site Utilization Plan: DELETE &

REPLACE.

Change 4: Section 012500 – Substitution Procedures: **DELETE**.

Change 5: Section 012600 – Contract Modification Procedures: **DELETE**.

Change 6: Section 111400 – Food Service Equipment:

A. Revise 'Item 16 Hot Food Serving Counters' Number 1. as follows: Full length x 12" wide, solid, stainless steel, ribbed type tray slide set on stainless steel folding brackets, **30**" a.f.f. maximum.

B. Revise 'Item 18 Cold Food Serving Counters' Number 1. as follows: Full length x 12" wide, solid, stainless steel, ribbed type tray slide set on stainless steel folding brackets, 30" a.f.f. maximum.

CHANGES TO DRAWINGS:

Change 7: Sheet G3.1, Site utilization Plans: DELETE & REPLACE.

Change 8: Sheets A1.BB, A1.0B, A1.0C, A1.1B, A1.2B, A1.3B & A1.4B:

A. Revise all new low-mounted AC units to now be high-mounted in the windows and revise Keynote #3 as follows: In areas where new high-mounted AC unit is installed, relocate existing shade below bottom of AC unit. *In areas where an existing low-mounted AC unit was removed, install a new window sash at the bottom lite if missing.* Modify portion of existing upper window lite to accept window AC support in existing opening. See A10.1 Details.

Change 9: Sheets A13.0A, Ground Floor Finish Plan "A": DELETE & REPLACE.

- SEE ATTACHED SHEET A13.0A

PUBLIC BUILDING COMMISSION OF CHICAGO

ATTACHMENTS:

Book 3, V1	000110 Table of Contents (8-1/2"x11" format), dated 08.27.14
Book 3, V1	087100 Door Hardware (8-1/2"x11" format), dated 08.27.14
Book 3, V1	011411 Construction Operations and Site Utilization Plan (8-1/2"x11" format), dated 08.27.14
Drawings	G1.3, 1-page (30"x42" format), dated 08.27.14
Drawings	A13.0A, 1-page (30"x42" format), dated 08.27.14

END OF ADDENDUM NO.2

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ABRAHAM LINCOLN ELEMENTARY SCHOOL

ANNEX ADDITION

FOR

PUBLIC BUILDING COMMISSION OF CHICAGO

ISSUED FOR BID

July 29, 2014

The following listed documents comprise the Project Manual for the project listed above. Where numerical sequence of sections is interrupted, such interruptions are intentional.

The complete Project Manual for this Project consists of this entire Volume, which must not be separated for any reason. The Architect and Owner disclaim any responsibility for any assumptions made by a Contractor or Subcontractor who does not receive a complete Project Manual, including all sections listed in the table of contents.

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DOOR HARDWARE

PART 1 - GENERAL

1.1 **SUMMARY**

Section includes finish hardware as required and as specified. A.

1.2 **SUBMITTALS**

- A. Product Data: Submit manufacturers technical product data for each item of hardware. Include whatever information may be necessary to show compliance with requirements, and include instructions for installation and for maintenance of operating parts and finish.
- B. Hardware Schedule: Submit finish hardware schedule in a vertical format separate from door and frame schedule, conforming to "Sequence and Format for the Hardware Schedule" published by the Door and Hardware Institute (DHI). Horizontal and coded schedules are not acceptable.
 - 1. Finish Hardware Schedule Content: Based on finish hardware indicated, organize hardware schedule into "hardware sets" indicating complete designations of every item required for each door or opening. Schedules not having the following information will be rejected:
 - Type, style, function, size and finish of each hardware item.
 - Name and manufacturer of each item.
 - Fastenings and other pertinent information.
 - Location of hardware set cross-referenced to indications on Drawings both on floor d. plans and in door and frame schedule.
 - Explanation of all abbreviations, symbols, codes, etc. contained in schedule. e.
 - Mounting locations for hardware. f.
 - Door and frame sizes and materials.
 - 2. All hardware for Aluminum doors shall be grouped and segregated from other hardware in the schedule, and may be processed separately. Only the portion of hardware schedule pertaining to Aluminum doors and frames should be forwarded to the aluminum door contractor.
 - 3. Submit schedule at earliest possible date, particularly where acceptance of hardware schedule must precede fabrication of other work (e.g., hollow metal frames) that is critical in the project construction schedule. Include with schedule the product data, samples, shop drawings of other work affected by finish hardware, and other information essential to the coordinated review of hardware schedule. Review and acceptance by the Owner or Architect does not relieve Contractor of responsibility to fulfill requirements of Contract Documents.

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C. Samples: Prior to submittal of the final hardware schedule and prior to final ordering of finish hardware, submit one sample of each type of exposed hardware unit, finished as required, and tagged with full description for coordination with schedule.

- 1. Samples may be retrieved by the supplier. Units that are acceptable and remain undamaged through submittal, review and field comparison procedures may, after final check of operation, be used in the work, within limitations of keying coordination requirements.
- D. Templates: Furnish hardware templates to each fabricator of doors, frames and other work to be factory-prepared for the installation of hardware. Upon request, check shop drawings of such other work, to confirm that adequate provisions are made for proper location and installation of hardware.
- E. Keying Schedule: Submit keying schedule after meeting with Owner's agent for keying instructions.
- F. Electrified Hardware Coordination: Where electric strikes, magnetic locks, low energy door operators are listed, provide power supplies by the device manufacturer and wiring diagrams for all items, whether listed in the sets or not. Provide elevations of each system showing locations for each item and description of system operation. Coordinate with electric contractor.

1.3 **QUALITY ASSURANCE**

- A. Manufacturer: Obtain each type of hardware (latch and lock sets, hinges, closers, etc.) from only one manufacturer, although several may be indicated as offering products complying with requirements.
- B. Supplier: A recognized architectural finish hardware supplier, with warehousing facilities, who has been furnishing hardware in the project's vicinity for a period of not less than 2 years, and who is, or employs an experienced architectural hardware consultant who is available, at reasonable times during the course of the work, for consultation about project's hardware requirements, to Owner, Architect and Contractor.
- C. Fire-Rated Openings: Provide hardware for fire-rated openings in compliance with NFPA Standard No. 80 and local building code requirements. Provide only hardware that has been tested and listed by UL or FM or WHI for types and sizes of doors required and complies with requirements of door and door frame labels.
 - 1. Exit Devices: Where required on fire-rated doors (with supplementary marking on doors' UL, FM, or WHI labels indicating "Fire Door to be Equipped with Fire Exit Hardware") provide UL, FM, or WHI label on exit devices indicating "Fire Exit Hardware".
 - 2. Fire exit devices and door closers shall be certified to be in compliance with UBC7.2 and UL 10C.

1.4 PREINSTALLATION CONFERENCE:

Contractor shall notify hardware supplier two weeks prior to beginning of hardware installation A. to set up pre-installation meeting with installation carpenters. Hardware supplier shall provide a qualified Architectural Hardware Consultant to personally meet with, and instruct installers on

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job site in proper techniques for installation and adjustment of locks, closers and exit devices, and advise on required wire types and gauges for access control/electrical locking hardware.

- 1. Lock, Door Closer and Exit Device Manufacturer's representative shall be available for a post installation walk and punch list assistance on behalf of the General Contractor, Architect and Owner.
- Review electrical roughing-in and preparatory work. 2.
- Review construction keying and final keying. 3.

1.5 DELIVERY, STORAGE AND HANDLING

- Tag each item or package separately, with identification related to final hardware schedule, and A. include basic installation instructions with each item or package.
- B. Inventory hardware jointly with representatives of the hardware supplier and the hardware installer until each is satisfied that the count is correct.
- C. Deliver individually packaged hardware items at the proper times to the proper locations (shop or project site) for installation.
- D. Provide secure lock-up for hardware delivered to the project, but not yet installed. Control handling and installation of hardware items that are not immediately replaceable, so that completion of the work will not be delayed by hardware losses, both before and after installation.

PART 2 - PRODUCTS

2.1 SCHEDULED HARDWARE

- Requirements for design, grade, function, finish, size and other distinctive qualities of each type A. of door hardware item is indicated in the Schedule of Hardware sets.
- B. Manufacturer's Product Designations: A manufacturer's symbol in the hardware sets indicates whose product designation is used in the Schedule of Hardware Sets for purposes of establishing minimum requirements. Provide either the product designated, or, where more than one manufacturer is listed, the comparable product of one of the other manufacturers that comply with requirements including those specified elsewhere in this section.
- C. ANSI/BHMA designations used elsewhere in this section or in schedules to describe hardware items or to define quality or function are derived from the following standards. Provide products complying with these standards and requirements specified elsewhere in this section.
 - 1. Butts and Hinges: ANSI/BHMA A156.1.
 - 2. Locks & Lock Trim: ANSI/BHMA A156.13.
 - 3. Exit Devices: ANSI/BHMA A156.3.
 - 4. Door Controls - Closers: ANSI/BHMA A156.4.
 - Auxiliary Locks: ANSI/BHMA A 156.5. 5.
 - Architectural Door Trim: ANSI/BHMA A156.6. 6.
 - 7. Template Hinge Dimensions: ANSI/BHMA A156.7.
 - Door Controls Overhead Holders: ANSI/BHMA A156.8. 8.

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- 9. Closer Holder Release Devices: ANSI/BHMA A156.15.
- 10. Auxiliary Hardware: ANSI//BHMA A156.16.
- 11. Materials & Finishes: ANSI/BHMA A156.18.
- 12. Power Assist and Low Energy Operated Door: ANSI/BHMA 156.19.
- Thresholds: ANSI/BHMA A156.21. 13.
- 14. Door Gasketing Systems: ANSI/BHMA A156.22.
- 15. Continuous Hinges: ANS/BHMA 156.26.

2.2 MATERIALS AND FABRICATION, GENERAL

- Hand of door: Drawings show direction of slide, swing or hand of each door leaf. Furnish each A. item of hardware for proper installation and operation of door movement shown.
- B. Manufacturer's Name Plate: Do not use manufacturer's products that have manufacturer's name or trade name displayed in a visible location (omit removable nameplates), except in conjunction with required UL labels and as otherwise acceptable to Architect.
- C. Manufacturer's identification will be permitted on rim of lock cylinders, and armor front.
- D. Base Metals: Produce hardware units of basic metal and forming method indicated, using manufacturer's standard metal alloy, composition, temper and hardness, but in no case of lesser quality than specified for the applicable hardware units by applicable ANSI A156 series standard for each type hardware and with ANSI A156.18 for finish designations indicated. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.
- E. Fasteners: Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation. Do not provide hardware that has been prepared for self-tapping sheet metal screws, except as specifically indicated.
- F. Furnish screws for installation, with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finish of such other work as closely as possible, including "prepared for paint" in surfaces to receive painted finish.
- G. Provide concealed fasteners for hardware units that are exposed when door is closed, except to extent no standard units of the type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on the opposite face is exposed in other work, except where it is not feasible to adequately reinforce the work. In such cases, provide sleeves for each thru-bolt or use sex screw fasteners.

2.3 HARDWARE FINISHES

A. Provide matching finishes for hardware units at each door or opening, to the greatest extent possible, and except as otherwise indicated. Reduce differences in color and textures as much as commercially possible where the base metal or metal forming process is different for individual units of hardware exposed at the same door or opening. In general, match items to the manufacturer's standard finish for the latch and lock set (or push-pull units if no latch- lock sets) for color and texture.

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B. Provide finishes that match those established by BHMA as indicated in the hardware schedule or, if none indicated, match the finish to which the item is applied.

- C. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness and other qualities complying with manufacturer's standards, but in no case less than specified for the applicable units of hardware by referenced standards.
- Finish Designations: Scheduled designations refer to ANSI A156.18 "Materials & Finishes D. Standard", including coordination with the traditional U.S. finishes shown by certain manufacturers for their products.

2.4 HINGES, BUTTS

- A. Templates: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template- produced units.
- B. Screws: Furnish Phillips flat-head or machine screws for installation of units, except furnish Phillips flat-head or wood screws for installation of units into wood. Finish screw heads to match surface of hinges or pivots.
- C. Hinge Pins: Except as otherwise indicated in the hardware schedule, provide hinge pins as follows:
 - 1. Material: Stainless steel pins.
 - Exterior Doors: Non-removable pins (NRP). 2.
 - 3. Interior Doors: Non-removable pins (NRP).
 - Tips: Flat button and matching plug, finished to match leaves. 4.
 - Number of Hinges: Provide number of hinges indicated but not less than 3 hinges for 5. door leaf for doors 90 inches or less in height and one additional hinge for each 30 inches of additional height.
 - All hinges shall be ball bearing type. 6.
 - Provide safety stud and locking hole for hinges where scheduled. 7.
- Manufacturer, (Butts): Subject to compliance with requirements, provide products of one of the D. following:
 - 1. Bommer Industries.
 - 2. Hager Hinge Co.
 - 3. Ives; Ingersoll-Rand Co.
 - 4. McKinney Mfg. Co.; Assa Abloy Co.
 - PBB, Inc. 5.
 - Stanley Hardware. 6.
- E. Manufacturer, (Geared Continuous Hinges): Provide products having UL listed units equal to or better than the rating of the opening of one of the following manufacturers:

1. ABH, Inc. 4240HD series 2. Hager/Roton 780-224-HD series 3. Pemko FMHD series Select Products SL-24-HD series 4. Stanley 520 series 5.

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6. Zero 914DB series

2.5 LOCK CYLINDERS AND KEYING

- General: Supplier shall meet with Owner to finalize keying requirements and obtain final A. instructions in writing. Comply with Owner's instructions for master keying and except as otherwise indicated, provide individual change key for each lock which is not designed to be keyed alike with a group of related locks.
- Standard System: Except as otherwise indicated, provide new master key system for project. B. The following is standard system for keying hierarchy per CPS MASTER KEY ORGANIZATION.
 - 1. Great grand master
 - 2. Grand master: Principal and Building Engineer.
 - Sub Master for the following areas and conditions: 3.
 - Exterior doors.
 - Special Rooms: Including rooms such auditorium, gymnasium and special use b. classrooms.
 - Single User Keys: Teacher's classroom key. c.
- C. All cylinder cores shall be keyed at the factory by the cylinder manufacturer where records will be established and maintained.
- D. All cylinders shall be not less than six (6) pin interchangeable core keyed to the existing registered Grand master Key system.
- E. Permanent keys shall be stamped with the key system symbol (VKC). Do not mark the keys with the cylinder biting. Permanent cores shall be marked with the key system symbol in such a manner that the mark is not visible when the core is installed in the cylinder (CVKC).
- F. Except where otherwise specified, locksets, cylinders and cores shall be by the same manufacturer, to assure proper operations.
- During construction, all cylinder cores shall be keyed alike. The Contractor shall receive G. three (3) copies of this key. Under no circumstances shall the Contractor receive any of the permanent building master keys or changes keys. The construction master key shall operate on no less than six (6) pins.
 - 1. Quantity of Keys:
 - 3 Great Grand Master.
 - 3 Grand Master Keys.
 - 3 Master Keys. c.
 - 3 Keys per lock or cylinder. d.
 - 50 key blanks. e.
 - f. 3 Control keys.
- H. Provide two key control systems, including envelopes, labels, tags with self locking key clips, receipt forms, 3-way visible card index, temporary markers and standard metal cabinet, all as

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recommended by system manufacturer with capacity for 150% of the number of locks required for the project.

1. The hardware supplier shall set up complete cross index system and place keys on markers and hooks in the cabinet as determined by the final key schedule.

I. Provide two hinges type wall mounted key cabinets for the above system to be installed as directed by the Owner.

2.6 LOCKS, LATCHES AND BOLTS

- Strikes: Provide manufacturer's standard wrought box strike for each latch or lock bolt, with A. curved lip extended to protect frame, finished to match hardware set.
 - 1. Foot Bolts: Provide dust-proof strikes, except where special threshold construction provides non-recessed strike for bolt.
 - 2. Roller Strikes: Provide where recommended by manufacturer of the latch and lock units.

B. Mortise Locks:

- Locks shall have all functions available in one size case, manufactured from heavy gauge 1. steel, minimum thickness 3/32 inch, completely chrome plated for corrosion resistance and lubricity of parts. Cases shall be closed on all sides to protect internal parts. Locks shall have adjustable, beveled and armored fronts, secured with spanner head security screws. Standard 2-3/4 inch backset convertible from one function to another, with a full 3/4 inch throw two-piece, or approved one-piece anti-friction latch bolt and 1" throw dead bolt with hardened steel insert and available for a minimum door thickness of 1-3/4 inch. Internal parts shall be heavy gauge steel, zinc dichromate-plated and nickel steel hubs.
- 2. All locksets with latch bolts, regardless of trim, shall be listed by UL for A and lesser labeled doors, single or pairs.
- Lock trim shall be solid stainless steel levers with wrought rose, through bolted through 3. the lock case to assure correct alignment.
- 4. Lockset shall conform to, and be certified as meeting, ANSI A156.13 Grade 1 requirements.
- 5. Subject to compliance with specifications, provide one of the following:

Best Lock; Stanley Works, Inc. 45H-14H series Corbin Russwin ; Assa Abloy Co. b. ML2000 LSA series Dorma; Dorma Co. ML9000 LTB Series Sargent; Assa Abloy Co. d. 8200 LNJseries Schlage;Ingersoll-Rand Co. e. L9000-B03 series Yale Security; Assa Abloy Co. CRR 8800FL series f.

Exit Devices: **C**.

1. Surface applied rim, mortise and vertical rod exit devices shall be available as a complete series, listed in UL "Accident Equipment List-Panic Hardware" and "Fire Exit Hardware". All devices shall be the modern push type. These devices shall have met Performance Test Requirements in accordance with ANSI Standard A156.3 for Grade 1

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exit devices. All exit devices shall be furnished with thru-bolts and sex nuts. Provide cylinder dogging for all devices except "Fire Exit Devices"

- 2. Rim exit device for single doors and pairs of doors with fixed or removable mullions shall be equipped with one of the following type of latch bolts, deadlocking, guarded or square bolt with a minimum 3/4 inch throw.
- All rim exit devices for pairs of doors with fixed or removable mullion shall have two-3. piece interlocking stabilizer blocks installed above and below the latch case.
- Exit devices shall be the type, function, and design as listed in the schedule of finish 4. hardware sets and shall have a manufacturer's warranty of five (5) years.
- 5. Removable Mullions:
 - Constructed of 2 inch by 3 inch steel tubing prepared to receive the required strike a.
 - The top mounting shall be self-locking key removable type. b.
 - Provide a wall mounted storage mount for each mullion by the same manufacturer. c.
 - Provide stainless steel bottom floor fitting. d.
 - Provide stabilizers above and below each exit device latch case. e.
 - f. Provide factory applied paint finish conforming to ANSI/BHMA 689.
- 6. Subject to compliance with specifications, provide one of the following:

9000 Series Dorma; Dorma Co. a. Precision; Prevision Co. **Apex Series** b. c. Sargent; Assa Abloy Co. 80 Series Yale Security; Assa Abloy Co. 7000 Series d. Von Duprin; Ingersoll-Rand Co. 98 Series

- D. Multi-Point Lock: Three point lock.
 - 1. Description: Three 1/2 inch x 1 inch solid steel bolts with 3/4 inch throw; 16 gauge galvanized steel case; 12 gauge plated steel strikes; 3 inch backset.
 - 2. Function: Levers on both sides of lock. Turning lever retracts bolts in unison. Bolts are held retracted and are released when door closes.
 - Acceptable Product/Manufacturer: Lock 301C; Wm. J. Perkinson Co., Inc. 3.

2.7 PUSH/PULL UNITS

- Concealed Fasteners: Provide manufacturer's special concealed fastener system for installation; A. through-bolted for matched pairs, but not for single units. Pulls to have 2-1/2 inch clearance from face of the door to the underside of the pull.
- B. Acceptable Manufacturers: Subject to compliance with requirements, provide products by the following:
 - 1. Rockwood.
 - 2. Hager.
 - 3. Ives.
 - 4. Trimco.
 - 5. Hiawatha.
 - Von Duprin. 6.

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2.8 CLOSERS AND DOOR CONTROL DEVICES

A. Closers shall be rack and pinion construction with both rack and pinion of heat treated steel and with a cast iron or cast aluminum case. Closing the door will be controlled by 2 valves, one to control closing speed and one to control latching speed. Closers shall be regularly furnished with fully adjustable backcheck allowing approximate 70 degrees backcheck on both regular and parallel are closers. Delayed action shall be available. Valves shall be concealed against unauthorized adjustment and non-critical needle valve type. Spring power adjustment shall be standard with an adjustment size 1 to size 6. Closers shall be surface applied with rectangular metal covers, void of manufacturers' trademarks. All door closers intended to be mounted to the door shall be furnished with thru-bolts and sex nuts.

- B. Closers shall be certified as meeting the ANSI A156.4 Grade 1 requirements, be listed by UL for all classes of labeled doors and shall have a manufacturer's warranty of ten (10) years.
- C. Size of units: Except as otherwise specifically indicated, comply with the manufacturers recommendations for size of door control unit depending upon size of door, exposure to weather and anticipated frequency of use.
 - 1. Provide heavy duty arms.
 - 2. Provide spring cushion stops on parallel arm closers.
 - 3. Provide heavy duty dead stop parallel arms on doors equipped with electric hold open/release devices.
 - Provide all necessary plates, brackets, arms and shoes required for proper installation of 4. closer.
- D. Acceptable Manufacturers:
 - Dorma 8900 Series. 1.
 - 2. LCN 4040 Series.
 - Norton 7500 Series. 3.
 - 4. Sargent 281 Series.
- E. Door Holder/Release: Provide electric holder/release meeting the requirements of ANSI Standard A156.15.
 - 1. Holder/release: Surface, wall-mounted
 - Door Armature: Cast aluminum furnished with Through-bolted and sex nuts with the 2. projection required for wall and door conditions. Armatures requiring rod or tube extensions are not acceptable. Where required to make contact, provide shims of the same material and shape as the armature base.
 - Electric boxes, conduit and wiring to be provided under Division 26. 3.
 - Voltage to be as required under Division 26. 4.
 - Acceptable manufacturers: 5.

SEM7800 Series and SHE Series a. LCN

1500 Series Sargent b. Rixson 900 Series c.

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2.9 DOOR TRIM UNITS

A. Kick Plates, Mop Plates, Armor Plates: Stainless steel, 0.050 inch thick, beveled three sides.

- B. Fasteners: Provide manufacturer's standard exposed fasteners for door trim units (kick plates, edge trim, viewers, knockers, mail drops and similar units); either machine screws or selftapping screw.
- Door protection plates shall be stainless steel 18-8 type 302, 0.050 inch thick, beveled three C. sides with vertical finish grain.

2.10 STOP AND HOLDERS

- Provide wall mounted door stops and wall mounted door stop and holders as required to protect the wall and door lever.
 - 1. Wall door stops: BHMA Type L52261.
 - 2. Door Holders, Interior Doors: BHMA Type L1191.
 - 3. Door Holders, Exterior doors: BHMA Type L11271.
- B. Acceptable Manufacturers:
 - Rockwood Mfg. Co. 1.
 - 2. Hager.
 - Architectural Builders Hardware (ABH). 3.
 - Trimco.
 - 5. Ives.

2.11 THRESHOLDS, WEATHER SEALS AND RAIN DRIPS

- Provide thresholds and weather seals on all exterior doors as scheduled. A.
- B. Acceptable Manufacturers:
 - 1. National Guard Products.
 - 2. Pemko.
 - 3. Hager.
 - Zero. 4.
 - 5. Reese.

PART 3 - EXECUTION

3.1 **INSTALLATION**

- A. Mounting Locations: As indicated in "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute, and "ADA Accessibility Guidelines for Buildings and Facilities", except as specifically indicated or required to comply with governing regulations, and except as may be otherwise directed by Architect.
- B. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Wherever cutting and fitting is required to install hardware onto or into

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surfaces that are later to be painted or finished in another way, coordinate removal, storage and reinstallation or application of surface protections with finishing work specified in the Division-9 sections. Do not install surface-mounted items until finishes have been completed on the substrate.

- C. Install door hardware units using fasteners provided by the manufacturer as specified.
 - Hinges: Phillips flat head wood screws into wood Phillips flat head machine screws into metal.
 - 2. Exit devices: Through bolts and sex nuts.
 - Closers Through bolts and sex nuts. 3.
 - Door holder/release; armature mounted with through bolts and sex nuts. 4.
- D. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- E. Drill and countersink units that are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- F. Set thresholds for exterior doors in full bed of butyl- rubber or polyisobutylene mastic sealant. Thresholds shall be notched or coped to fit around removable mullions.
- G. Removable mullion sill brackets shall be secured to the concrete floor with approved fasteners and anchors.
- H. Hardware shall be installed with the fasteners and anchors provided by the manufacturer of that hardware item.

3.2 ADJUSTMENT, CLEANING AND KEYING

- Adjust and check each operating item of hardware and each door, to ensure proper operation or A. function of every unit. Replace units that cannot be adjusted to operate freely and smoothly as intended for the application made.
- B. Clean adjacent surfaces soiled by hardware installation.
- C. Permanent cores and keys shall be delivered by the hardware supplier directly to the contractor at the keying meeting. The contractor and representative of the hardware supplier shall jointly install the permanent cores in the presence of the Owner's agent who shall receive the keys. Hardware supplier shall return the construction cores and construction keys to the manufacturer.
- D. Tools and instructions: At the time of keying the hardware supplier shall provide a complete set of specialized tools and maintenance instructions and shall instruct the Owner's agent in the proper maintenance.
- E. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy of a space or area, return to the work during the week prior to acceptance or occupancy, and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

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1. Instruct Owner's Personnel in proper adjustment and maintenance of hardware and hardware finishes, during the final adjustment of hardware.

F. Continued Maintenance Service: Approximately three months after the acceptance of hardware in each area, the Installer, accompanied by the representative of the latch and lock manufacturer, shall return to the project and re- adjust every item of hardware to restore proper function of doors and hardware. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures. Replace hardware items that have deteriorated or failed due to faulty design, materials or installation of hardware units. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware.

3.3 SCHEDULE OF FINISH HARDWARE SETS

- A. Provide finish hardware for each door to comply with requirements of this Section, hardware set numbers indicated on Door Schedule and the schedule of hardware sets on drawings.
- B. Manufacturer's function and catalog numbers used in the hardware sets are identified by the following symbols.

1.	Hager Hinge Co.	HA
2.	Yale Security	Y
3.	LCN Closers	L
4.	Ives	I
5.	Rockwood Mfg. Co	R
6.	Architectural Builders Hardware Products	Α
7.	Von Duprin	V
8.	Pemco	P
9.	Du Seung	D

- C. Other Abbreviations:
 - 1. LDW Less Door Width
 - 2. TBS To Be Selected
- 3.4 FINISH HARDWARE SETS.

ITEM	MFG. MODEL NUMBER	MFG.	BHMA FINISH	
HARDWARE SET # 2				
HINGES	BB1279 4 ½ X 4 ½	HA	652	
STOREROOM LOCK	8805FL (FO7)	Y	630	
DOOR CLOSER	4041 SPRING-CUSH	L	689	

HS #2 NOTE: KNURL OUTSIDE LEVER ON ELECTRICAL/ELEVATOR ROOMS

HARDWARE SET # 4			
HINGES CLASSROOM LOCK DOOR CLOSER KICK PLATE WALL DOOR STOP	BB1279 4 ½ X 4 ½ 8808-2FL (F32) 4041-ST2795 15" X 2" LDW WS406/407CCV	HA Y L R I	652 630 689 630 630
HARDWARE SET # 6			
HINGES INTRUDER LOCK DOOR CLOSER KICK PLATE WALL DOOR STOP	BB1279 4 ½ X 4 ½ 8812-2FL (F34) 4041-ST2795 15" X 2" LDW WS406/407CCV	HA Y L R I	652 630 689 630 630
HARDWARE SET # 8			
	780-224-HD-UL-STUD 9827L-F-LBR-994L AS REQUIRED 4041 EDA 15" X 1" LDW WS406/407CCV IS REQUIRED BY UL RATING FURNISH		TBS 630 626 689 630 630
MORTISE DEVICE	9875F-2-994L	V	630
VERTICAL ROD DEVICE COORDIINATOR	9827 EO 1600 SERIES W/CLOSER BRACKET	V R	630 600
HARDWARE SET # 9			
HINGES CLASSROOM LOCK DOOR CLOSER KICK PLATE	BB1279 4 ½ X 4 ½ 8808FL (FO5) 4041 SPRING-CUSH 15" X 2" LDW	HA Y L R	652 630 689 630
HARDWARE SET #10			
HINGES HOTEL LOCK DOOR CLOSER KICK PLATE WALL DOOR STOP	BB1279 4 ½ X 4 ½ 8820FL (F15) 4041 EDA OR SPRING-CUSH 15" X 2" LDW WS406/407CCV	HA Y L R I	652 630 689 630 630
HS #10 NOTE: FOR IN-SWING	G DOOR FURNISH:		
DOOR CLOSER	4041-ST2795	L	689

HARDWARE SET # 11				
HINGES	BB1279 4 ½ X 4 ½	НА	652	
INTRUDER LOCK	8812-2FL (F34)	Y	630	
DOOR CLOSER	4041 SPRING-CUSH	L	689	
KICK PLATE	15" X 2" LDW	R	630	
HARDWARE SET # 15				
HINGES	BB1279 4 ½ X 4 ½	НА	652	
PRIVACY LOCK	8802 FL (F19 OR F22)	Y	630	
DOOR CLOSER	4041-ST2795	L	689	
KICK PLATE	15" X 2" LDW	R	630	
WALL DOOR STOP	WS406/407CCV	I	630	
HARDWARE SET # 19				
HINGES	BB1279 4 ½ X 4 ½	HA	652	
STOREROOM LOCK	8805FL(FO7)	Y	630	
AUTO FLUSH BOLTS	1842 OR 1942	R	626	
DOOR CLOSERS	4041 SPRING-CUSH	L	689	
COORDINATOR	1600 SERIES W/CLOSER BRACKET	R	600	
KICK PLATES	15" X 1" LDW	R	630	
DUST PROOF STRIKE	570	R	626	
HARDWARE SET # 23				
GEARED HINGES	780-224-HD-UL-STUD	HA	TBS	
EXIT DEVICES	9827L-F-LBR-994L	V	630	
CYLINDERS	AS REQUIRED	Y	626	
DOOR CLOSERS	4041 EDA	L	689	
ELEC.HOLDER/RELEASE	SEM 7800 SERIES	L	689	
KICK PLATES	15" X 1" LDW	R	630	
HS #23 NOTE: IF ASTRAGAL	IS REQUIRED BY UL RATING FURNIS	H:		
MORTISE DEVICE	9875L-2-F-994L	V	630	
VERTICAL ROD DEVICE	9827 EO-F	V	630	
COORDIINATOR	1600 SERIES W/CLOSER BRACKET	R	600	
HARDWARE SET # 24				
HINGES	BB1279 4 ½ X 4 ½	HA	652	
CLASSROOM LOCK	8808FL(FO5)	Y	630	
AUTO FLUSH BOLTS	1842 OR 1942	R	626	
DUST PROOF STRIKE	570	R	626	
O.H. FRICTION STOP/HOLD	4430 SERIES	A	630	
ROLLER LATCH	590 SERIES (INACTIVE DOOR)	R	626	
KICK PLATES	15" X 1" LDW	R	630	
HS #24 NOTE: FOR FIRE RATED DOOR, OMIT O.H. HOLDER AND ROLLER LATCH AND				
FURNISH: DOOR CLOSERS	4041 SPRING-CUSH	L	689	
COORDINATOR	1600 SERIES W/CLOSER BRACKET	R	600	

HARDWARE SET # 26			
GEARED HINGE EXIT DEVICE CYLINDERS DOOR CLOSER ELEC. HOLDER/RELEASE KICK PLATE	780-224-UL-STUD 98L-F-2 994L AS REQUIRED 4041 EDA SEM 7800 SERIES 15" X 2" LDW	HA V Y L L	TBS 630 626 689 689 630
HARDWARE SET # 34			
HINGES STOREROOM LOCK DOOR CLOSER KICK PLATE	BB1168 5" X 4 ½ 8805FL (FO7) 4041 SPRING-CUSH 15" X 2" LDW	HA Y L R	632 630 689 630
HARDWARE SET #36			
GEARED HINGES EXIT DEVICES CYLINDERS DOOR CLOSER DOOR CLOSER DOOR HOLDER/RELEASE DOOR HOLDER/RELEASE KICK PLATES	780-224-HD-UL-STUD 9827L-F-994L LBR AS REQUIRED 4041 EDA LHR 4041 CUSH RHR SEM 7800 SERIES RHR SHE LHR 15" X 1" LDW	HA V Y L L L L	TBS 630 626 689 689 689 630
HS #36 NOTE: IF ASTRAGAL	. IS REQUIRED BY UL RATING FURNIS	H:	
MORTISE DEVICE VERTICAL ROD DEVICE COORDIINATOR	9875EO 9827 EO-F 1600 SERIES W/CLOSER BRACKET	V V R	630 630 600
HARDWARE SET #45			
GEARED HINGES EXIT DEVICE CYLINDERS STABLIZER SETS ELECTRIC STRIKE DOOR CLOSERS LOW ENERGY OPERATOR F	780-224-HD SERIES CD98NL-697NL AS REQUIRED 154 6111DS-LC FAIL SECURE 4041 SPRING-CUSH URNISHED IN SECTION 08716	HA V Y V V L	TBS 630 626 630 689

HS #45 NOTE: THRESHOLDS, WEATHERSTRIPPING AND SWEEPS TO BE FURNISHED BY THE ALUMINUM DOOR AND FRAME MANUFACTURER.

HARDWARE SET # 49			
GEARED HINGES DUMMY PUSH BAR PULL CYLINDERS LOW ENERGY OPERATOR	780-224-HD SERIES 350 697DT AS REQUIRED FURNISHED IN SECTION 08716	HA V V Y	TBS 630 630 TBS
HARDWARE SET # 71			
HINGES AUTO FLUSH BOLTS ROLLER LATCH CLASSROOM LOCK WALL STOP / HOLDER KICK PLATES MOP PLATE	BB1279 4 ½ X 4 ½ 1842 OR 1942 590 SERIES (INACTIVE DOOR) 8811-2FL 494 15" X 1" LDW 15" X 1/2" LDW	HA R R Y R R	652 626 626 630 626 630 630
HARDWARE SET # 72			
HINGES EXIT DEVICE CYLINDERS CLOSER KICK PLATE SOUND SEAL AUTO DOOR BOTTOM	98L-F-2 994L AS REQUIRED 4041 EDA 15" X 2" LDW \$88 211	V L P P	630 626 689
HARDWARE SET # 73			
GEARED HINGES POWER TRANSFER` EXIT DEVICE EXIT DEVICE STABILIZER SETS MULLION STORAGE MOUNT CYLINDERS	780-224-HD-STUD EPT SERIES EL98NL-697 CD98NL-697NL 154 KR4954 MT54 AS REQUIRED	HA V V V V V	628 689 630 630
CLOSER DOOR SCOPE ARMOR PLATES THRESHOLD WEATHERSTRIP WEATHERSTRIP MEETING STILE SEAL SWEEPS DRIP CAP LOW ENERGY OPERATOR POWER SUPPLY	4041H-CUSH/SPRING DS/2000 32" X 2"LDW 626S 5" 2891-S HEAD 303-S S772 345-P 346 FURNISHED IN SECTION 087160 PS900 SERIES	L D R HA P P P P	689 630 TBS TBS TBS TBS TBS TBS TBS

THRESHOLD

HARDWARE SET # 74			
HINGES CLASSROOM LOCK CLOSER KICK PLATE WALL DOOR STOP SOUND SEAL DOOR BOTTOM	BB1279 4 ½ X 4 ½ 8808-2FL (F32) 4041 EDA 15" X 2" LDW WS406/407CCV S88 211	HA Y L R I P	652 630 689 630 630
HARDWARE SET # 75			
GEARED HINGES EXIT DEVICES CYLINDERS DOOR CLOSERS ELEC.HOLDER/RELEASE KICK PLATES WEATHERSTRIP WEATHERSTRIP MEETING STILE SEAL SWEEP DRIP CAP THRESHOLD	780-224-HD-UL-STUD 9827L-F-LBR-994L AS REQUIRED 4041 EDA SEM 7800 SERIES 15" X 1" LDW 2891-S HEAD 303-S JAMBS S772 345-P 346 626S 5"	HA V Y L R P P P P	TBS 630 626 689 689 630
HARDWARE SET # 76			
HINGES STOREROOM LOCK AUTO FLUSH BOLTS DOOR CLOSERS COORDINATOR KICK PLATES DUST PROOF STRIKE WEATHERSTRIP WEATHERSTRIP SWEEP DRIP CAP	BB1279 4 ½ X 4 ½ 8805FL(FO7) 1842 OR 1942 4041 SPRING-CUSH 1600 SERIES W/CLOSER BRACKET 15" X 1" LDW 570 2891-S HEAD 303-S JAMBS 345-P 346	HA Y R L R R P P	652 630 626 689 600 630 626
DIGIT CAL	JTU	1	

626S 5"

P

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HARDWARE SET #77

GEARED HINGE	780-224-HD	SERIES	HA	TBS	
EXIT DEVICES	CD98NL-2-6	597	V	630	
EXIT DEVICES	CD98NL-69	7DT	V	630	
STABILIZER SETS	154		V		
CYLINDERS	AS REQUIR	ED	Y	626	
DOOR CLOSER	4041 CUSH/	SPRING	L	689	
KICK PLATES	15" X 2" LD	W	R	630	
THRESHOLD	626S 5"		HA		
WEATHERSTRIP	2891-S	HEAD	P	TBS	
WEATHERSTRIP	303-S	JAMBS	P	TBS	
SWEEP	345-P		P	TBS	
DRIP CAP	346		P	TBS	
LOW ENERGY OPERATOR FURNISHED IN SECTION 08716					

END HARDWARE SETS

END OF SECTION

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SECTION 01 14 11

CONSTRUCTION OPERATIONS AND SITE UTILIZATION PLAN

PART 1 - GENERAL

1.1 SUMMARY

- A. The Construction Operations Plan provides a coordinated construction environment to ensure an orderly, secure and safe operation within the existing school and the entire school property, consequently forming the basis for the Site Utilization Plan prepared by the General Contractor.
 - 1. The Commission Representative and the Building Engineer will administer the operations plan activities. All Construction Operating issues shall be channeled through and require approval by the Commission Representative and/or the Building Engineer and Principal.
 - 2. The Construction Operations Plan will be prepared based on the requirements of the project and in coordination with the existing school operations and program. The elements of this plan required for incorporation into the Site Utilization Plan are included in this section.

1.2 RELATED SECTIONS

- A. Refer to drawings and General Contractor's Service Agreement for information related to this section. Additional Specification Sections containing information that relate to this section include, but are not limited to the following:
 - 1. Book 1: Project Information, Instructions to Bidders, and Execution Documents
 - 2. Book 2: Standard Terms and Conditions for Construction Contracts

1.3 SUBMITTALS

- A. Site Utilization Plan: Submit five (5) copies of the Site Utilization Plan required in Part 3.
 - 1. Submit proposed revisions as deemed necessary by Architect, Authorized Commission Representative or Owner.

1.4 CONSTRUCTION OPERATIONS PLAN

A. Construction Operation Requirements

In order to minimize disruption to school operations during construction, the work will be performed in accordance with the designated Phases of Work and Areas of work described on Sheet G3.1, Site Utilization Plans; Exhibit 1, Site Logistics Plan (attached at the end of this section); and the following:

- 1. New foundations including caissons, caps, and grade beams have been installed by others prior to the commencement of Phase 1.
- 2. Site preparation work (Caissons, caps, and grade beams) by others is anticipated to complete October 31, 2014. General Contractor mobilization on site shall begin upon completion of the above work and approval of the required Site Utilization Plan..

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- 3. Existing site furnishings and playground equipment within the Annex construction zone have been removed prior to the commencement of Phase 1. Contractor will be left with a site backfilled with engineered fill level with the top of the grade beams and a construction fence surrounding work area 'A.' Contractor to take ownership of fencing prior to commencing with construction activities.
- 4. Prior to proceeding with any work, Contractor shall provide a complete field survey of all anchors, including locations and projections at grade beams.
- 5. The teacher parking area located north of the south alley, west of the gymnasium and east of the boiler plant is not available for construction activities.
- 6. Installation of utilities shall not impact existing building functions.
- 7. Construction traffic staging is prohibited on neighborhood streets. Construction traffic staging shall occur on the south east bound lane of Lincoln Avenue only as indicated on Exhibit 1.
- 8. Construction traffic routing is limited to Lincoln Avenue, Orchard Street, Kemper Place (west of the construction entrance) and Fullerton Avenue as indicated on Exhibit 1.
- 9. Location of temporary toilets, Commission construction trailer, construction site entrance shall be accordance with Exhibit 1.
- 10. The rear alley (between Belden Avenue and Kemper Place) may be closed for four consecutive weeks to the limits shown on Exhibit 1, with one week's written notice prior to the scheduled closure to facilitate the construction of the south wall of the annex. The side alley shall remain open during times of rear alley closure.
- 11. The side alley (between Geneva Terrace and Orchard Street may be closed for four consecutive weeks to the limits shown on Exhibit 1, with one week's written notice prior to the scheduled closure to facilitate the construction of the west wall of the annex. The rear alley shall remain open during times of side alley closure.
- 12. 60 parking spaces for contractor parking will be provided in the former Children's Memorial Hospital (CMH) parking garage (see Exhibit 1) at no cost to the contractor starting November 1, 2014 through August 31, 2015. Trade contractor parking is prohibited on neighborhood streets.
- 13. No Construction activities can occur in student occupied areas, to the exterior envelope including roof or site work outside of the limits of construction while classes are scheduled.
- 14. All work must be performed between the hours of 7:00AM to 7:00PM, Monday thru Friday and 8:00 AM to 3:00 PM Saturdays. No work is permitted on Sundays
- 15. Site Prep Contractor to turn over ownership of salvaged drinking fountain to General Contractor.
- 16. IDF/MDF components to remain in service 24 hours, 7 days a week otherwise Contractor must compensate a member of CPS staff to be on site at all times while IDF/MDF system is not in service.
- 17. School ceases use of existing classrooms 106, 206, and 306 during phase 6 only, for constructing elevator hoistway and related renovations. Renovations within classrooms 106, 206, and 306 shall be completed by Milestone 2.
- 18. Work in the existing facility is prohibited while students are occupying the existing facility unless specifically approved by CPS, the Principal, Building Engineer, and Authorized Commission Representative. Contractor must minimize disruptions (dust, odor and noise) outside the work area while students are occupying the existing facility, and if requested by the School, stop work until disruptions are resolved. Contractor shall bear all costs for any loss of time or production related to work stopped for disruptions while students occupy the building.

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a. All renovations within the limits of existing building, including, but not limited to, Lead Based Paint Mitigation (LBP) and Asbestos Containing Material (ACM) abatement occurring on days when school is in session shall occur after children have exited the building at the end of instruction, (3:30 PM through 6:30 AM of the next morning).

- b. Contractor must clean-up construction debris related to interior renovations work on a daily basis when performing work after hours.
- 19. Contractor shall provide temporary in kind finishes in areas abated prior to June 26, 2015.

B. Existing: Maintain existing building as follows:

- 1. Maintain cooling in the building via existing window air conditioner units through June 26, 2015 at 5:00 PM and maintain cooling in the building starting on August 3, 2015 through the cooling season.
- 2. Maintain all domestic water service during school instruction hours.
- 3. Maintain full electrical services during school instruction hours.
- 4. Maintain all life safety systems during school instruction hours
- 5. Maintain all phone and data service during school instruction hours.
- 6. Maintain use of Aiphone communication and automatic entry systems.
- 7. Maintain use of existing warming kitchen in Room 111 and rooms 109 and 107, thru end of phase 5.

C. Use of Site:

- 1. Contractor may not use elevator for construction operations
- 2. Contractor may not perform environmental asbestos abatement, LBP mitigation and hazardous waste removal during school instruction hours and other times children are present on site.

D. Special Requirements:

- 1. Existing fire alarm system shall remain in operation until new system is complete and accepted.
 - a. Contractor to provide 24-hour fire watch at times existing fire alarm system is down.

1.5 GENERAL REQUIREMENTS

- A. General Contractor shall review and be familiar with the site conditions through site visits.
- B. General Contractor to provide all temporary and permanent driveway apron and alley permits for the duration of the construction as required. The General Contractor is to pay all fees required for processing permits and is to contact and comply with all authorities and jurisdiction required for permitting.
- C. General Contractor shall provide snow removal and clear all debris in construction area and adjacent sidewalks surrounding existing school.

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D. General Contractor is to obtain all required permits for street access for truck delivery from the local and state jurisdiction.

- E. General Contractor shall be required to coordinate and complete the work within the contractual completion date(s) for the work as described within Division 00 Document "Supplemental Conditions," Time for Performance and this section. The General Contractor shall be also held responsible for meeting all related provisions as described within this section.
- F. General Contractor shall survey the site and photograph the area of construction operations. Upon completion of the work the Contractor is to restore the area to the documented condition prior to the start of work or as otherwise indicated in the Contract Documents.
- G. General Contractor is to replace all removed trees, bushes, ground covers and grass on the Chicago Public Schools' property used as part of the construction operations. Also concrete pavement walks and asphalt surfaces shall be restored to condition prior to construction.
- H. General Contractor shall coordinate work with School during Mandatory State Testing periods. Test dates should be verified with the School. No work shall be permitted in the existing facility or on the site during testing except as specifically approved by the Principal, Building Engineer, and Board Authorized Representative. General Contractor must minimize noise in all other areas during these time periods, and if requested by the School, stop work causing the noise until testing is completed. General Contractor shall bear all costs for any loss of time or production related to Mandatory State Testing.
- I. General Contractor shall coordinate and maintain all exit egress during construction as required by the City of Chicago code, other entities with jurisdiction, and as directed by CPS or their representatives. The General Contractor shall provide and maintain all materials and labor including barricades, construction fence, doors, partitions, and fire rated walls as required for safe egress. All costs for this work shall be included in the Contract Base Bid regardless of whether it is indicated in the Contract Documents.
- J. No deliveries will be permitted to either the existing facility or the new addition between the hours of 7:45 AM to 9:00 AM and 3:00 to 4:00 PM, Monday through Friday.
- K. The Contractor is to set up and stage the entire project within the boundaries of the construction fence. The General Contractor is responsible for maintaining and modifying the fence as necessary and as approved in the Site Utilization Plan for the life of the project. Removal and disposal of the fence at the conclusion of the project is the responsibility of the General Contractor.
- The Building Engineer or other CPS staff as approved by CPS is required to be present at all L. times work is in progress in the existing Building. If advance arrangements are not made with CPS, the General Contractor shall be responsible for all overtime costs for the CPS staff member for work outside of normal working hours. Overtime arrangements for CPS staff includes weekends, holidays, and generally hours beyond that listed in Site Restrictions above. IUOE Local 143 Holidays are as follows (Saturday holidays are observed on Friday, Sunday holidays are observed on Monday):
 - 1. New Year's Day.
 - 2. Martin Luther King Jr.'s Birthday.
 - 3. Lincoln's Birthday.

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- 4. Presidents Day.
- 5. Pulaski Day.
- 6. Memorial Day.
- 7. Independence Day.
- 8. Labor Day.
- 9. Columbus Day.
- 10. Veterans Day.
- 11. Thanksgiving.
- 12. Friday after Thanksgiving.
- 13. Christmas Day.

1.6 PROTECTIVE FACILITIES

- A. Construction Fencing: The contractor must provide construction fencing as follows.
 - 1. Maintain existing chain-link fence at boundary lines of all Sites included in this contract or added to this contract by change order.
 - 2. Provide gates as required for access. Coordinate locations with Commission Representative.
 - 3. The chain link fence shall be anchored sufficient to resist wind loads of 30 pounds per square foot without deflection of more than three inches between top and bottom of fence. The base shall not interfere with pedestrian and/or vehicular traffic and shall be approved by the Commission Representative.
 - 4. Opaque fabric mesh shall be affixed to the construction site fence.
 - a. Mesh fabric shall be the full height of the fence and cover the entire length of the fence including any gated openings. The fabric meshing and fence shall not contain any advertisements per Chicago Municipal Code Section 13-32-125(2)(a).

5. Materials:

- a. 9 gauge 2" galvanized steel mesh, 8 feet high.
- b. 3" outside dimension galvanized end posts with caps.
- c. 0" outside dimension galvanized line (intermediate) posts.
- d. 10 ft. max. center to center, with caps.
- e. 1-5/8" outside dimension galvanized top and bottom rails.
- f. 12 gauge min. galvanized ties.
- g. Required fittings for proper installation of above.
- h. Opaque fabric meshing shall be capable of allowing air to pass but impervious to dust and dirt. The fabric meshing shall be of a fineness such that no material over 1/8 inch in size or material splatters, laitance or other products of the construction operation shall pass through the mesh.
- i. Accessory materials as required for installation and maintenance of the fence as approved by the commission Representative.

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PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SITE UTILIZATION PLAN

- Upon issuance of the Notice of Award the General Contractor is to prepare and submit to the A. Authorized Commission Representative, the Building Engineer, and the AOR for approval a Site Utilization Plan based on the Construction Operations requirements outlined in this section. Mobilization on-site is not to occur until approval of the Site Utilization Plan is obtained. If requested by the Contractor, a preliminary meeting to review site elements and Construction Operations with the Board Authorized Representative, AOR, and School staff prior to submission of the Site Utilization Plan shall be held.
- В. The Site Utilization Plan shall be provided in a full-size graphic drawing format (36 x 48 inches) on 30 x 42 inch prints/plots. Provide a separate plan for the site and for each floor of the existing building where work is being performed. Modifications to the format and sheet size shall be permitted if pre-approved by the Board Authorized Representative and if proposed modifications shall facilitate preparation, presentation and review of the Site Utilization Plan. Electronic copies of the Contract Document drawings as appropriate shall be provided for this purpose upon request. The Site Utilization Plan shall at a minimum include the following elements:
 - 1. Title block information including School Name, Contract Number, General Contractor, Building floor/level information, and current plan date.
 - Building footprint of both new (if applicable) and existing buildings, trees, landscaping, 2. paving, drainage structures, existing and ornamental fencing and other important site features.
 - 3. Areas of staging for students and staff, student drop-off points, existing school entrances and exits, staff parking areas, and traffic patterns for both construction and nonconstruction vehicles.
 - 4. Denotation of the limits of construction and required construction fencing including any existing fencing to remain.
 - Denotation of required covered construction barricade walkways 5.
 - Denotation of areas allowed for staging purposes: construction personnel parking, material storage, and construction trailer(s). Such activities are to only take place in areas
 - 7. Denotation of any specific site conditions required to be observed such as keeping alleys clear next to adjacent properties, and any other issues listed on the Construction Operations Site Plan.
 - 8. Denotation of areas allowed for site access gates.
 - Denotation of areas of work within the existing building for the period of time covered by 9. the Site Utilization Plan, coordinated with the Project Schedule. Each area should indicate planned beginning and end dates for work in that area. Areas where all work is completed are to be noted.
 - 10. Construction worker ingress/egress, material staging areas in the existing building.
 - Proposed locations of temporary protection, barricades, and temporary walls within the 11. existing building.
 - Denotation of all temporary exits and path of travel. 12.

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13. Indication of specific areas and their required contractual completion dates. If overtime work is required to meet the project dates it shall be at no additional cost to the Chicago Public Schools.

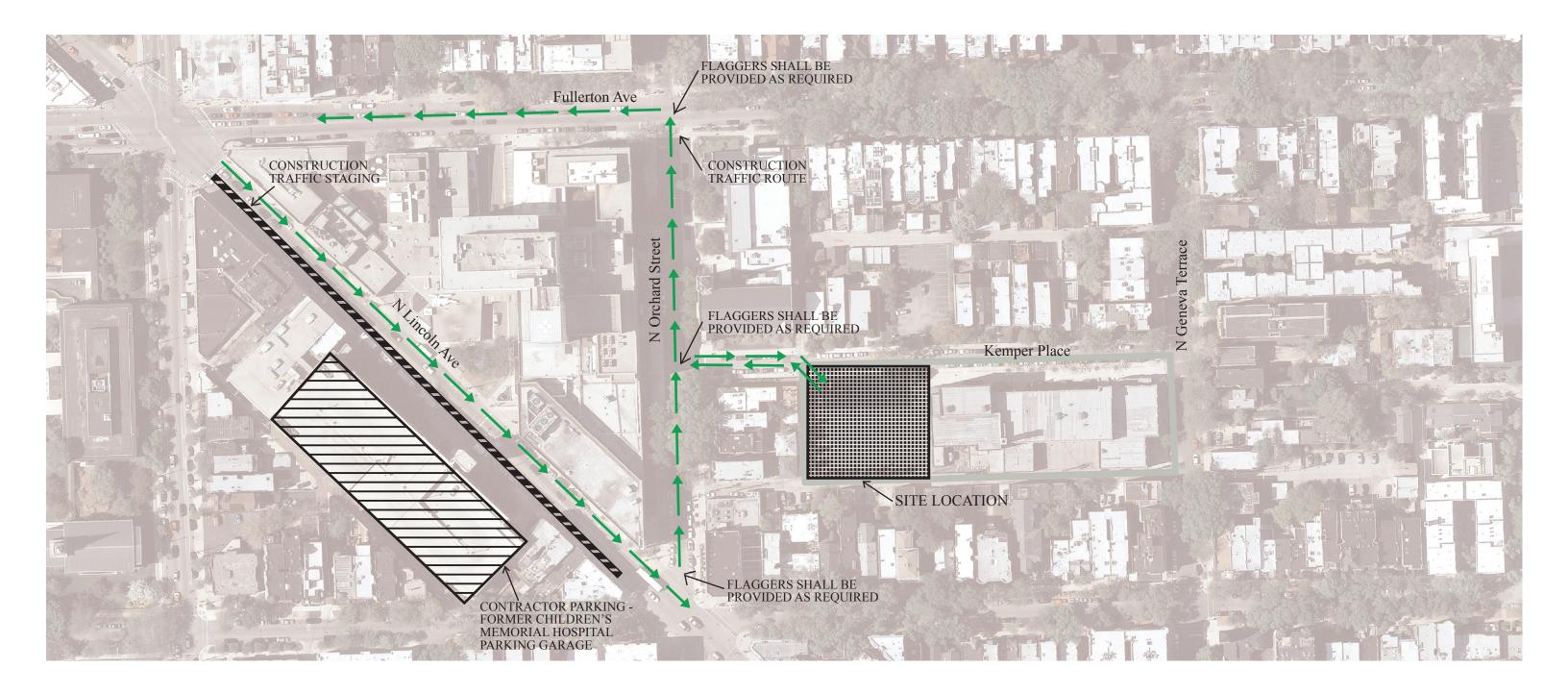
3.2 SITE UTILIZATION PLAN UPDATES

- A. The General Contractor is required to submit for approval updated Site Utilization Plans whenever conditions in the current approved plan have changed. Approval is required prior to proceeding on any changed conditions not previously approved. Requirements for updating include the following:
 - 1. In coordination with the project schedule provide detailed information regarding work in the existing building including phasing, vacation of existing in-use areas, and any other information requested by the Board Authorized Representative, Principal, or Building Engineer.
 - 2. Revision to the site plan to reflect changing conditions regarding construction fencing, ingress and egress, student and staff staging, construction deliveries, areas of stored materials, parking, and any other construction facility revisions.

3.3 CONSTRUCTION OPERATIONS PLAN

A. Construction Phasing: Contractor shall develop a phasing plan in accordance with Article 1.3 of this specification and in accordance with the Site Utilization Plan Drawings.

END OF SECTION



NOTES:



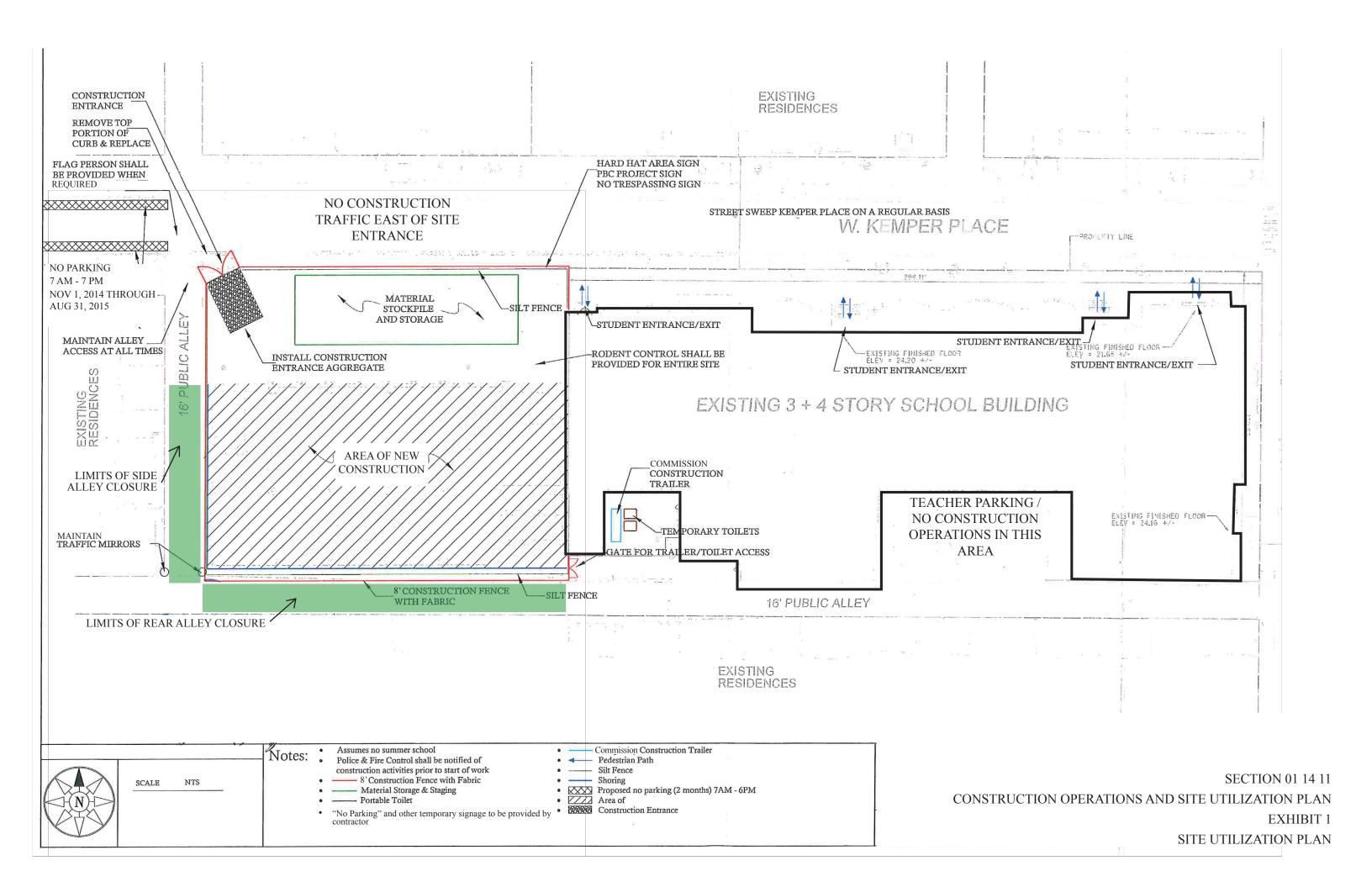
Site Location:

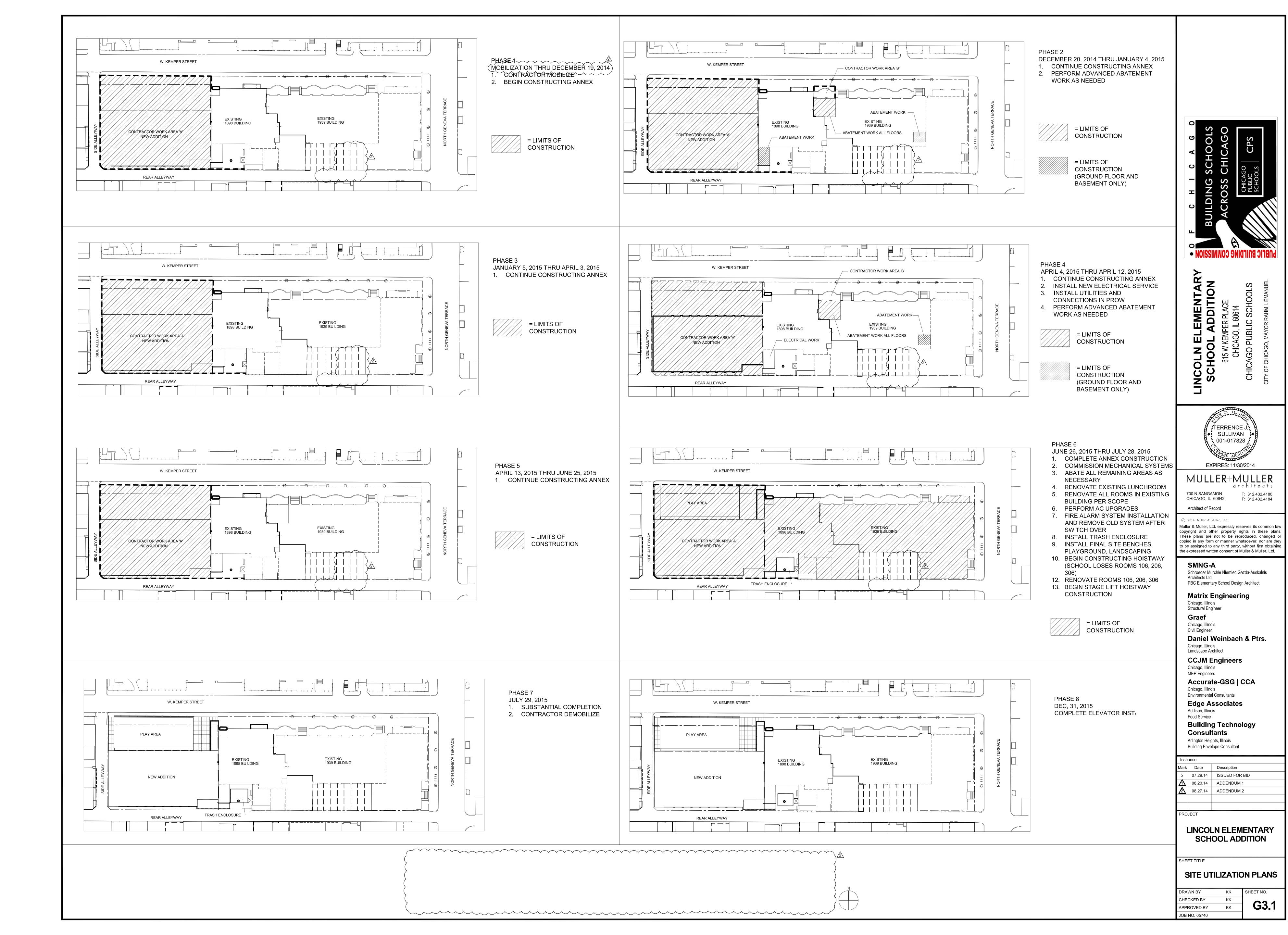
Construction traffic route: -

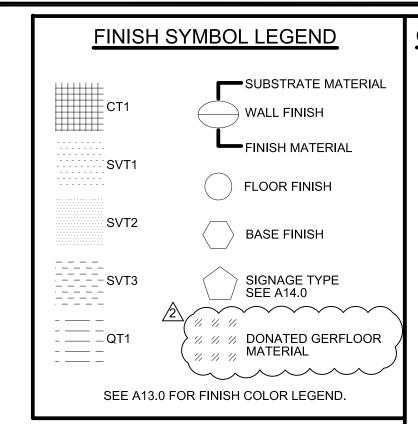
Construction traffic staging location:

Construction employee parking location: /////

SECTION 01 14 11 CONSTRUCTION OPERATIONS AND SITE UTILIZATION PLAN EXHIBIT 1 AREA UTILIZATION PLAN







GENERAL FINISH NOTES

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TERMINATIONS.

I. ALL WALLS SHALL RECEIVE SCHEDULED / NOTED FINISH IN ALL EXPOSED AREAS AND ON ALL EXPOSED SURFACES EXTENDED TO MIN. 4" ABOVE FINISHED CEILING UNLESS NOTED OTHERWISE. . ALL INTERIOR HOLLOW METAL DOORS, FRAMES, AND

5. PROVIDE BULLNOSE CERAMIC TILE TRIM AT CERAMIC TILE

ALL TRANSITION STRIPS AND REDUCER STRIPS SHALL BE

ADA COMPLIANT AND OF APPROPRIATE SIZE AND STYLE.

COLOR AND STYLE SHALL BE SUBMITTED TO ARCHITECT

DETAILS. ALIGN BENEATH DOORS AT DOOR THRESHOLDS

ALL PAINTED CMU WALLS SCHEDULED OR NOTED WITH

RESINOUS EPOXY FLOOR FINISH SHALL HAVE INTEGRAL

RECOMMENDED FLR./WALL TRANSITION (FLR./EQUIP. PAD

RECEIVE RESILIENT BASE U.N.O. STRAIGHT PROFILE BASE

SHALL BE USED ON CMU WALLS AT CARPETED FLOOR SURFACES. COVE PROFILE BASE SHALL BE USED ON CMU

TRANSITIONS SIM.). ALL OTHER PAINTED CMU WALLS SHALL

RESINOUS EPOXY FLOOR BASE INCLUDING MFRS.

WALLS AT ALL OTHER FLOOR SURFACES U.N.O.

FOR APPROVAL. SEE SHEET A13.0 FOR TYPICAL TRANSITION

BASE TO WALL TRANSITION AND AT VERTICAL TILE

- SIDE-LITE OR H.M. "LITE" FRAMES SHALL BE PAINTED PT-8 . ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES SHALL BE PAINTED PT-8 U.N.O.
- 10. ALL FLOORING MATERIAL CHANGES SHALL OCCUR AT ALL INTERIOR MISC. METAL, INCLUDING, BUT NOT LIMITED CENTER OF DOOR SIDE STOP U.N.O. TO STAIR STRUCTURE, RISERS, SUPPORTS, GUARDRAILS, PICKETS, STL. MESH, EXPOSED CHANNELS, ETC. SHALL BE
 - 11. ALL MECHANICAL ROOMS INCLUDING ALL EQUIP. PADS SHALL RECEIVE RESINOUS EPOXY FLOOR (EP) & 4"

PROTECTION / GRAFFITI BARRIER COATING.

OTHER FLOOR SURFACES U.N.O.

- ON WALLS 12. REFER TO REFLECTED CEILING PLANS FOR CEILING
- FINISHES AND TYPES. 13. EXTEND SCHEDULED WALL FINISH / PATTERN MIN. 4"

INTEGRAL RESINOUS EPOXY FLOOR BASE, AND PT-1

8. ALL GYPSUM BOARD WALLS SHALL RECEIVE RESILIENT

BASE U.N.O. STRAIGHT PROFILE BASE SHALL BE USED ON

PROFILE BASE SHALL BE USED ON GYP. BD. WALLS AT ALL

STONE VENEER SHALL BE COATED W/INTERIOR MASONRY

GYP. BD. WALLS AT CARPET FLOOR SURFACES. COVE

INTERIOR PARTITIONS WITH EXPOSED BRICK AND/OR

- ABOVE FINISHED CEILING 14. CASEWORK SHALL RECEIVE RESILIENT BASE U.N.O.
- 15. SCHEDULED / NOTED FLOOR FINISHES SHALL EXTEND BENEATH ALL BUILT-IN CASEWORK.

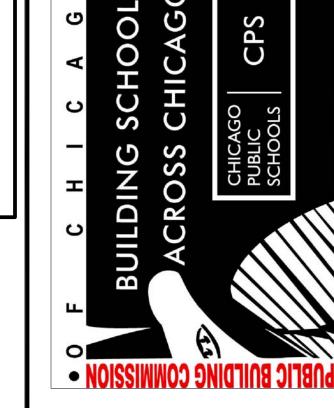
COLUMNS.

- 16. REFER TO PLANS AND INTERIOR ELEVATIONS FOR LOCATION OF ALL TACK AND MARKER BOARDS
- 17. AT LOCATIONS WHERE WALL FINISH CHANGES AT EXPOSED JAMBS FINISH SHALL OCCUR AT WALL CENTERLINE U.N.O. 18. SEE FINISH PLANS FOR PAINT COLOR ON INTERIOR FIRE

- 19. ALL OUTSIDE CORNERS AT GYPSUM WALLBOARD PARTITIONS SHALL RECEIVE CORNER GUARDS
- 20. ALL INTERIOR WINDOW SILLS LOCATED WITHIN GYPSUM BOARD WALLS SHALL BE 3/4" SOLID SURFACING MATERIAL
- COLOR "NATURAL GRAY," SEE FINISH LEGEND ABOVE 21. INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS 1 WITH A FLAME SPREAD RATING 0-25, AND SMOKE
- DEVELOPED RATING OF 200 PER CBC 8(15-8-380 TO 430 22. ALL FLOOR COVERINGS SHALL BE CLASS A INTERIOR

FINISH WITH CRITICAL RADIANT FLUX OF 0.45 WATTS PER

- SQ. CM. OR HIGHER, PER CBC 7(15-8-400) 23. ALL EXTERIOR EXPANSION JOINT SEALANTS & INTERIOR CONTROL JOINT SEALANTS TO BE CUSTOM COLOR TO
- MATCH ADJACENT MATERIALS. 24. SEE SHEET A12.1 FOR FLOORING TRANSITION DETAILS AND DOOR SILL TYPES.



LEMENTAR ADDITION WPER PLACE LN E



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Chicago, Illinois Landscape Architect **CCJM Engineers**

MEP Engineers Accurate-GSG | CCA Chicago, Illinois

Environmental Consultants Edge Associates

Building Technology Consultants Arlington Heights, Illinois Building Envelope Consultant

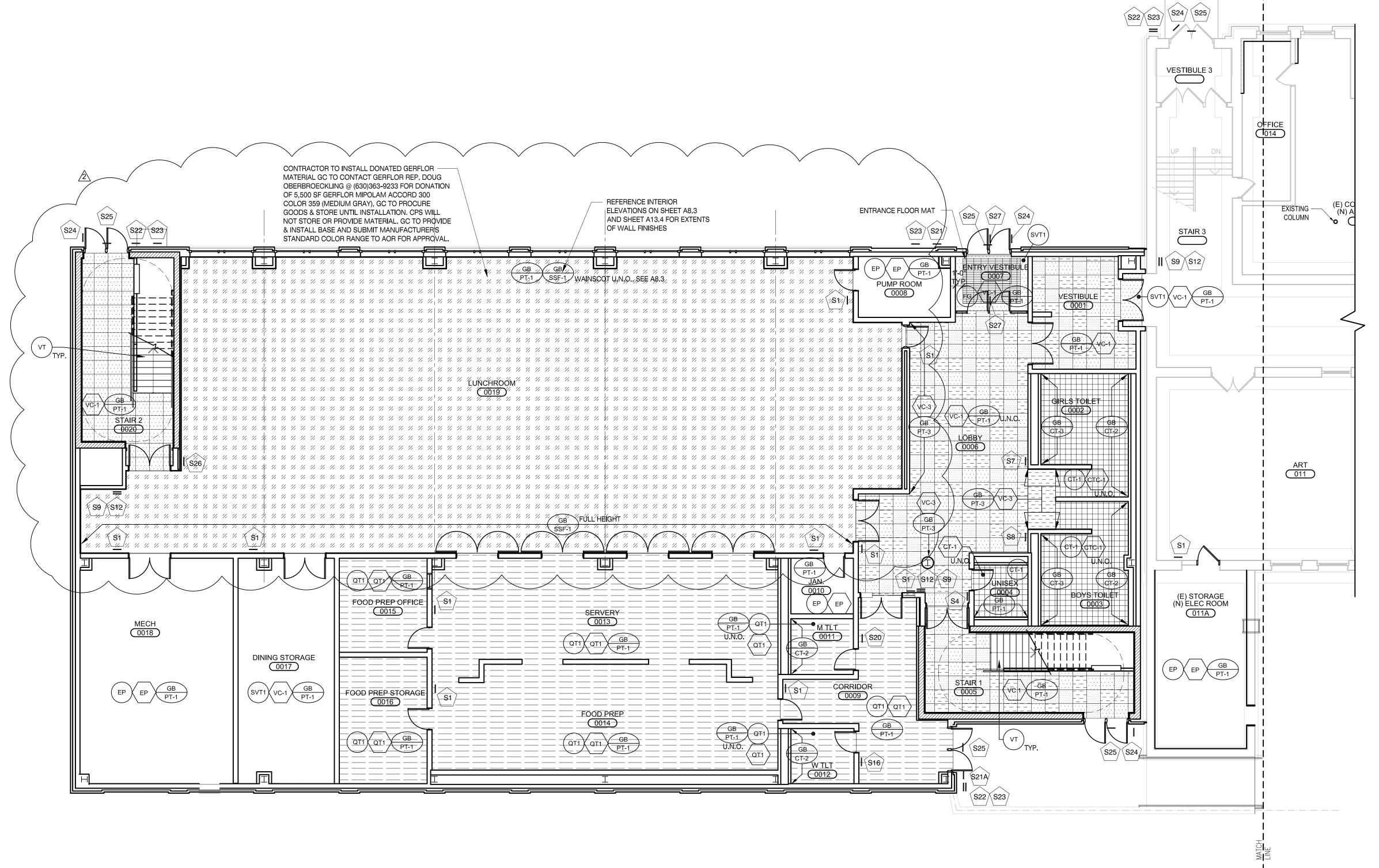
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7	Mark	Date	Description	
		5	07.29.14	ISSUED FOR BID
	\triangle	08.20.14	ADDENDUM 1	
			08.27.14	ADDENDUM 2

PROJECT

LINCOLN ELEMENTARY **SCHOOL ADDITION**

SHEET TITLE **GROUND FLOOR FINISH** PLAN "A"

DRAWN BY	NM	SHEET NO.
CHECKED BY	KK	1 A 4 2 C A
APPROVED BY	KK	A13.0A
JOB NO. 05740		



LEAD-BASED PAINT WARNING: LEAD-BASED PAINT MAY BE PRESENT IN THIS BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEAUSURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE, WASTE CHARACTERIZATION, AND WASTE DISPOSAL. ALL WORK WITH SURFACES/ COMPONENTS CONTAINING LEAD-BASED PAINT SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 02 83 19.13.

ASBESTOS WARNING:

ASBESTOS CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON SHALL DISTURB ASBESTOS CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS ABATEMENT WORKER AND CONDUCTS SUCH WORK IN ACCORDANCE WITH SECTIONS 02 82 14 / 02 82 15 AND IN COMPLIANCE WITH THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH RULES AND REGULATIONS. IF SUSPECT MATERIAL IS NOT LISTED IN THE ASBESTOS MANAGEMENT PLAN, SUCH MATERIAL SHALL BE ASSUMED AND TREATED AS ASBESTOS CONTAINING BUILDING MATERIAL UNTIL IT IS TESTED BY THE ENVIRONMENTAL CONSULTANT AND PROVEN OTHERWISE.

REFER TO THE ENVIRONMENTAL DRAWINGS FOR SUSPECT LOCATIONS OF ASBESTOS AND LEAD-BASED PAINT. PLEASE SEE ASBESTOS SPECIFICATION SECTIONS 02 82 14 AND 02 82 15 AND LEAD SECTION 02 83 19.13 TO HANDLE MATERIALS THAT CONTAIN ASBESTOS AND/OR LEAD PRIOR TO DISTURBING THEM.

GROUND FLOOR FINISH PLAN "A"

A13.0A 1/8" = 1'-0"