ADDENDUM

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ADDENDUM NO.: **04**

PROJECT NAME: **Kenwood Academy High School Link and Mechanical Project**

PROJECT NO.: **05326**

CONTRACT NO.: **C1602**

DATE OF ISSUE: **October 31, 2022**

NOTICE OF CHANGES, MODIFICATIONS, OR CLARIFICATIONS TO CONTRACT DOCUMENTS

The following changes, modifications, or clarifications are hereby incorporated and made an integral part of the Contract Documents. Unless clearly expressed otherwise by this Addendum, all terms and conditions defined in the original Contract Documents shall continue in full force and effect and shall have the same meaning in this Addendum. Issued Addenda represent responses/clarifications to various inquiries. Contractors shall be responsible for including all associated labor/material costs in its bid. Drawings/specifications corresponding to inquiry responses will be issued with the Issue for Construction Documents, upon issuance of building permit.

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

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

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

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

Change 1 **Book 3 – Kenwood Link – REVISED** Specification Section 00 01 02 Table of Contents.

Change 2 **Book 3 – Kenwood MEP – REVISED** Specification Section 00 01 02 Table of Contents.

Change 3 **Book 3 – Kenwood Link – ADDED** Specification Sections Listed Below

a. Specification Section 01 79 00.1 – Demonstration and Training – Commissioning
b. Specification Section 03 01 00 – Maintenance of Concrete
c. Specification Section 05 21 00 – Steel Joist Framing
d. Specification Section 13 28 16 – Sport Netting

Change 4 **Book 3 – Kenwood Link – DELETED** Specification Sections Listed Below

a. Specification Section 01 10 00 – Summary of Work - Link
b. Specification Section 01 10 00.01 – Summary of Work – MEP
c. Specification Section 01 23 00 – Alternates
d. Specification Section 01 50 03 – Temporary Facilities and Controls - Renovation
e. Specification Section 01 50 05 – Temporary Facilities and Controls – New Construction
f. Specification Section 01 79 00 – Demonstration and Training
g. Specification Section 02 13 15 – Small Scale Disturbance Asbestos Containing Materials
h. Specification Section 02 41 13 – Selected Site Demolition
i. Specification Section 02 41 16 – Building Demolition
j. Specification Section 02 82 13 – Asbestos Abatement – Prior to Demolition
k. Specification Section 02 83 20 – Small Scale Dist of Paint Surf Assumed Contain Lead
l. Specification Section 03 30 53 – Miscellaneous Cast-in-Place Concrete
m. Specification Section 03 54 00 – Cast Underlayment
n. Specification Section 04 20 02 – Single-Wydth Unit Masonry

o. Specification Section 05 53 05 – Gratings and Floor Plates
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v. Specification Section 08 91 00 – Louvers
w. Specification Section 09 23 15 – Acoustical Gyp Plastering
x. Specification Section 10 44 03 – Installation of Fire Extinguishers
y. Specification Section 12 24 00 – Manual Window Shades
z. Specification Section 22 35 00 – Domestic Water Pumps
aa. Specification Section 22 36 00 – Commercial Fuel-Fired Water heaters
bb. Specification Section 22 37 00 – Sanitary Sewage and Sump Pumps
cc. Specification Section 22 40 00 – Plumbing Fixtures
dd. Specification Section 22 66 53 – Chemical Waste Piping
ee. Specification Section 27 05 53 – Identification for Communication Systems
ff. Specification Section 32 31 13.43 – Trash Enclosure Fences and Gates

Change 5 **Book 3 – Kenwood MEP – DELETED** Specification Sections Listed Below
a. Specification Section 02 41 16 – Building Demolition
b. Specification Section 02 41 19 – Selective Demolition
c. Specification Section 04 26 00 – Single-Wydth Unit Masonry
d. Specification Section 27 51 00 – Distributed Audio Video Communications Systems
e. Specification Section 28 20 00 – CC TV System and Components
f. Specification Section 28 23 07 – DVS System-Existing School
g. Specification Section 28 31 00 – Fire Detection and Alarm
h. Specification Section 33 41 00 – Sewerage and Drainage

ITEM NO. 5: REVISIONS TO DRAWINGS

Change 1 **REVISED** Drawing No. S-101, Foundation Plan
Change 2 **REVISED** Drawing No. S-303, Kenwood Foundation Sections
Change 3 **REVISED** Drawing No. S-304, Canter Foundation Sections
Change 4 **ADDED** Drawing No. P-105A, Plumbing Site Plan

ITEM NO. 6: REQUESTS FOR INFORMATION

RFI-1.
Question: **Drawing 103, note 3 calls out to provide new filters for the existing AHU's. Please provide the nominal size and the MERV rating required for these filters.**
Response: Bidders are advised to review Drawing M-001, Mechanical Schedules, specifically section: Existing Air Handling Unit Schedule (for reference), included in the Original Contract Documents.

RFI-2.
Question: **Referring to Drawing S101 – Please confirm if the south wall of the Canter Vestibule is to have a foundation wall matching detail 1/S303.**
Response**:** Bidders are advised to review new Detail Number 2, Section at Canter Foundation on Drawing S-304, Canter Foundation Sections, included in this Addendum No. 4.

RFI-3.
Question: **Referring to the Kenwood Vestibule on drawing S101 - Please provide cross-section detail of the west ramp and how it connects to the slab-on-grade.**
Response: A revised Drawing S-101, Foundation Plan is included in this Addendum No. 4. Bidders are also advised to review new Section 6, Section at Kenwood Ramp Looking North on Drawing S-303, Kenwood Foundation Sections, also included in this Addendum No. 4.

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

1. **Book 3 – Kenwood Link**
   a. Specification Section 00 01 02 Table of Contents (*Revised*)
   b. Specification Section 01 79 00.1 – Demonstration and Training – Commissioning
   c. Specification Section 03 01 00 – Maintenance of Concrete
   d. Specification Section 05 21 00 – Steel Joist Framing
   e. Specification Section 13 28 16 – Sport Netting (*Specification Number corrected*)
2. **Book 3 – Kenwood MEP**
   a. Specification Section 00 01 02 Table of Contents (*Revised*)

This Addendum includes the following attached Drawings:

1. S-101, Foundation Plan
2. S-303, Kenwood Foundation Sections
3. S-304, Canter Foundation Sections
4. P-105A, Plumbing Site Plan

END OF ADDENDUM NO. 04

SECTION 00 01 02

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SECTION 01 79 00.1

DEMONSTRATION AND TRAINING - COMMISSIONING

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes administrative and procedural requirements for instructing the Board's personnel in the operation and maintenance of systems, subsystems, and equipment.

1.2 SUBMITTALS

A. The Contractor shall be responsible to submit a formal training program to be utilized for each respective system at 50% of construction completion milestone to the Architect, Owner, and CxA. It is the Contractor's responsibility to work with Owner and other contractors to develop a cohesive training session schedule that complies with Owner's personnel availability, scheduling requirements of other contractor's sessions, and specifies completion of all training sessions prior to substantial completion. The training program shall include at a minimum the following:

1. Training Outline that summarizes all training sessions and their proposed dates, times, length of instruction, names of instructors, along with a summary learning objective for each training session.
2. Detailed Agenda for each training session that includes the following:

    a. Session title
    b. Proposed date of the session
    c. Intended audience
    d. List of systems and equipment to be reviewed
    e. Training objectives and topics by system and equipment
    f. Listed durations for each objective and topic
    g. Instructor, including name and affiliation, for each objective and topic

3. Instructor qualifications for each instructor listed. The Contractor is responsible to ensure each instructor has an intimate knowledge of the system or equipment and the installation for this project. The Owner shall have the right of refusal to reject any proposed instructor that is not deemed qualified for provision of training. Instructor qualifications for each instructor listed. The Contractor is responsible to ensure each instructor has an intimate knowledge of the system or equipment and the installation for this project. The Owner shall have the right of refusal to reject any proposed instructor that is not deemed qualified for provision of training.
4. Contractor contact sheet, including address, phone number, fax number and e-mail.
5. Additional materials to be utilized including copies of any materials and/or video to be utilized during the session.

B. Sign-off sheets: Submit copies of proposed sign-off sheets for each training session a minimum of 14 days prior to the scheduled training. Sign-off sheets are to include the following information:

1. Name of training session
2. Date of training
3. Beginning/Ending time
4. Detailed, itemized summary listing all areas of training for that session.

5. Listing of hand-out materials distributed at the session.
6. Signature lines for Trainer, Contractor, and CPS personnel being trained.

    a. Signature by CPS personnel evidences training received only to the extent listed on the sign-off sheet summary.

C. Provide videographer qualifications.

D. Compiled training schedule: To be submitted to A/E, CxA, and Owner 60 days after approval of draft training program.

E. Demonstration and Training DVD: Submit three (3) copies within seven days of end of each training module. Copies shall be of professional audio and video quality, including provision of DVD menu structure and labeling.

1.3 QUALITY ASSURANCE

A. Instructor Qualifications: A factory-authorized service representative, complying with requirements in Division 01 Section "Quality Requirements," experienced in operation and maintenance procedures and training.

1.4 COORDINATION

A. Coordinate instruction schedule with the Board's operations and schedule through the Boards Authorized Representative. Adjust schedule as required to minimize disrupting the Board's operations and to ensure attendance by designated CPS representatives as determined in training coordination meeting noted in section 3.2.

B. Coordinate content of training modules with content of emergency, operation, and maintenance manuals. Provide copies of this coordinated material at each training session.

C. Completion of all training sessions must occur prior to substantial completion.

PART 2 - PRODUCTS

2.1 INSTRUCTION PROGRAM

A. Program Structure: Develop an instruction program that includes individual training modules for each system and equipment not part of a system, as required by individual Specification Sections, and as follows:

1. Refrigeration systems, including chillers, pumps and distribution piping.
2. HVAC systems, including air-handling equipment, air distribution systems and terminal equipment and devices.
3. HVAC instrumentation and controls.
4. Lighting equipment and controls.

B. Training Modules: Develop a learning objective and teaching outline for each module. Include a description of specific skills and knowledge that participant is expected to master. For each module, include instruction for the following:

1. Basis of System Design, Operational Requirements, and Criteria: Include the following:

    a. System, subsystem, and equipment descriptions.

b. Performance and design criteria if Contractor is delegated design responsibility.
c. Operating standards.
d. Regulatory requirements.
e. Equipment function.
f. Operating characteristics.
g. Limiting conditions.
h. Performance curves.

2. Documentation: Review the following items in detail:

a. Emergency manuals.
b. Operations manuals.
c. Maintenance manuals.
d. Project Record Documents.
e. Identification systems.
f. Warranties and bonds.
g. Maintenance service agreements and similar continuing commitments.

3. Emergencies: Include the following, as applicable:

a. Instructions on meaning of warnings, trouble indications, and error messages.
b. Instructions on stopping.
c. Shutdown instructions for each type of emergency.
d. Operating instructions for conditions outside of normal operating limits.
e. Sequences for electric or electronic systems.
f. Special operating instructions and procedures.

4. Operations: Include the following, as applicable:

a. Startup procedures.
b. Equipment or system break-in procedures.
c. Routine and normal operating instructions.
d. Regulation and control procedures.
e. Control sequences.
f. Safety procedures.
g. Instructions on stopping.
h. Normal shutdown instructions.
i. Operating procedures for emergencies.
j. Operating procedures for system, subsystem, or equipment failure.
k. Seasonal and weekend operating instructions.
l. Required sequences for electric or electronic systems.
m. Special operating instructions and procedures.

5. Adjustments: Include the following:

a. Alignments.
b. Checking adjustments.
c. Noise and vibration adjustments.
d. Economy and efficiency adjustments.

6. Troubleshooting: Include the following:

a. Diagnostic instructions.
b. Test and inspection procedures.

7. Maintenance: Include the following:

    a. Inspection procedures.
    b. Types of cleaning agents to be used and methods of cleaning.
    c. List of cleaning agents and methods of cleaning detrimental to product.
    d. Procedures for routine cleaning
    e. Procedures for preventive maintenance.
    f. Procedures for routine maintenance.
    g. Instruction on use of special tools.

8. Repairs: Include the following:

    a. Diagnosis instructions.
    b. Repair instructions.
    c. Disassembly; component removal, repair, and replacement; and reassembly instructions.
    d. Instructions for identifying parts and components.
    e. Review of spare parts needed for operation and maintenance.

PART 3 - EXECUTION

3.1 PREPARATION

A. Assemble educational materials necessary for instruction, including documentation and training module. Assemble training modules into a combined training manual.

B. Set up instructional equipment at instruction location.

3.2 INSTRUCTION

A. Engage qualified instructors to instruct the Board's personnel to adjust, operate, and maintain systems, subsystems, and equipment not part of a system.

    1. The Boards Authorized Representative. will furnish Contractor with names and positions of participants.

B. Schedule a coordination meeting with the Owner to discuss training program, attendees, and schedule. This meeting must occur before submission of draft training program.

C. Scheduling: Provide instruction at mutually agreed on times as approved in the training program. For equipment that requires seasonal operation, provide similar instruction at start of each season.

    1. The training schedule will be coordinated through the Boards Authorized Representative.

D. (Two) 2 days prior to the scheduled training session, Contractor shall notify CxA and participants of confirmation for training session.

E. All training sessions shall follow the approved agenda and shall be provided in the following format:

    1. Classroom session
    2. Site walk-through. Facility walkthrough shall identify general layout of system and equipment and provide visual reference to typical equipment of system.

F. Signoff Sheets: At the conclusion of each training module obtain sign-offs using the approved sign-off sheets. Executed sign-off sheets are to be submitted as part of the closeout documentation evidencing compliance with training requirements.

G. Demonstration and Training Videotape: Record each training module separately. Include classroom instructions and demonstrations, board diagrams, and other visual aids, but not student practice.

1. All sessions must be recorded by the approved videographer.
2. At beginning of each training module, record each chart containing learning objective and lesson outline.
3. All audio must be professionally recorded so that background noise can be minimized.
4. Videotaping must have clear view of instructor and activities being conducted.
5. Use of non-commercial video recording devices is not permitted (i.e. cell phone cameras, Handi-cams, etc.).

H. Cleanup: Collect used and leftover educational materials and give to the Board. Remove instructional equipment. Restore systems and equipment to condition existing before initial training use.

I. Re-training: The contractor is responsible for all expenses and time for all participants and consultants (Owner, Architect, CxA, etc.) in attendance if one of the following occurs:

1. If confirmation is received as required in 3.2-D (2 days before training session) and the training session is subsequently cancelled or the specified instructor does not show up.
2. If the Owner does not sign-off that the training meets the requirements previously submitted in the training outline and agenda.

END OF SECTION

SECTION 03 01 00

MAINTENANCE OF CONCRETE

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Repair of cracks in concrete.

B. Repair of deteriorated concrete.

C. Repair of internal concrete reinforcement.

1.02 REFERENCE STANDARDS

A. ACI 318 - Building Code Requirements for Structural Concrete and Commentary; 2014 (Errata 2017).

B. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement; 2016.

C. ASTM C293/C293M - Standard Test Method for Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading); 2016.

D. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or (50-mm) Cube Specimens); 2016a.

E. ASTM C496/C496M - Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens; 2017.

F. ASTM C881/C881M - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete; 2015.

G. ASTM C882/C882M - Standard Test Method for Bond Strength of Epoxy-Resin Systems Used with Concrete by Slant Shear; 2013a.

H. PS 1 - Structural Plywood; 2009.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Indicate product standards, physical and chemical characteristics, technical specifications, limitations, maintenance instructions, and general recommendations regarding each material.

C. Repair Procedures: Submit repair mortar manufacturer’s narrative description of procedures and methods for removal of concrete, repairing and cleaning of reinforcing steel, and applying new repair mortar and coatings.

D. Installer's Qualification Statement.

E. Statement of Application: Provide statement, signed by authorized representative of patching materials manufacturer, that manufacturer has reviewed contract documents and project conditions relating to concrete repair and that manufacturer's materials proposed for use are suitable for the applications indicated.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing work of the type specified and with minimum of 5 years of documented successful experience providing concrete repairs in similar size and complexity to that required for this project, and approved by manufacturer.

B. Standards: Comply with provisions of the following Codes and Standards, except where more stringent requirements are shown or specified:
1. ACI 318 - Building Code Requirements for Structural Concrete.
2. Concrete Reinforcing Steel Institute (CRSI) - Manual of Standard Practice.

C. Testing: The Board may engage a testing laboratory to perform material evaluation tests.
1. Materials and installed work may require testing and re-testing at any time during progress of the work. Re-testing of rejected materials for installed work, shall be done at the Contractor's expense.
2. See Section 01 40 00 - Quality Requirements for additional requirements.
3.

~~~ PROJECT NOTE ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
EDIT LIST OF REQUIRED MOCK-UPS BELOW TO SUIT PROJECT
~~~ END OF PROJECT NOTE ~~~~~~~~~~~~~~~~~~~~~~~~~

1.05 MOCK-UP(S)

A. Crack Injection: Prepare one sample of each type of injection.

B. Horizontal Surface Repair: Total of approximately 1 foot square area, demonstrating each type of repair.

C. Vertical Surface Repair: Total of approximately 1 foot square area, demonstrating each type of repair.

D. Where color or texture matching is required, first prepare a small size sample on cementitious board.

E. Locate mock-up(s) where directed.

F. Re-work mock-up(s) until satisfactory to Architect/Engineer of Record.

G. Satisfactory mock-up(s) may remain as part of the work.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Comply with manufacturers' instructions for storage, shelf life limitations, and handling of products.

PART 2 - PRODUCTS

2.01 CEMENTITIOUS PATCHING AND REPAIR MATERIALS

A. Bonding Agent: Multi-component, solvent-free, moisture-tolerant epoxy-modified cementitious product formulated as a bonding agent and anti-corrosion coating.
   1. Corrosion Inhibition: Material shall have been proven by independent laboratory testing to prevent corrosion of reinforcing steel when tested under procedures of the Federal Highway Administration Program Report FHWA/RD88/193.
   2. Bond Strength:
      a. Plastic Concrete to Hardened Concrete: Wet on Wet: 2800 psi min., 14 days moist cure, per ASTM C 882.
      b. Steel Reinforcement to Concrete: 625 psi min., pullout test.
   3. Product:
      a. Sika Armatec 110 EpoCem; Sika Corp.
      b. Sto Epoxy Adhesive; Sto Concrete Restoration Division.

B. Cementitious Repair Mortar, Form and Pour/Pump Grade: Flowable, factory-mixed, polymer-modified cementitious mortar; in-place material resistant to freeze/thaw conditions.
   1. Bond Strength: 2200 psi at 28 days, per ASTM C882/C882M modified.
   2. Flexural Strength: 720 psi min at 28 days, per ASTM C293/C293M.
   3. Splitting Tensile Strength: 500 psi min. at 28 days, per ASTM C496/C496M.
   4. Compressive Strength: 3000 psi at 1 day, 6500 psi at 28 days, per ASTM C109/C109M.
   5. Product:
      a. SikaTop 111 Plus; Sika Corp.
      b. Sto Flowable Mortar; Sto Concrete Restoration Division.

C. Cementitious Repair Mortar, Non-Sag, Trowel Grade: Factory-mixed, polymer-modified cementitious mortar; in-place material resistant to freeze/thaw conditions.
   1. Bond Strength: 1000 psi at 28 days, per ASTM C882/C882M.
   2. Flexural Strength:1000 psi min at 28 days, per ASTM C293/C293M.
   3. Splitting Tensile Strength: 400 psi min. at 28 days, per ASTM C496/C496M.
   4. Compressive Strength: 1500 psi at 1 day, 4300 psi at 28 days, per ASTM C109/C109M.
   5. Product:
      a. SikaTop 123 Plus; Sika Corp.
      b. Sto Trowel Grade Mortar; Sto Concrete Restoration Division.

2.02 EPOXY PATCHING AND REPAIR MATERIALS

A. Pressure Injection Epoxy Adhesive: Non-sag, two-part, 100 percent solids; recommended by manufacturer for purpose and conditions under which used.
   1. Non-Load-Bearing Applications: ASTM C881/C881M Type I, II, III, IV, or V, whichever is appropriate to application.
   2. Load-Bearing Applications: ASTM C881/C881M Type IV or V, whichever is appropriate to application.
   3. Other Applications: ASTM C881/C881M Type as appropriate to application.
   4. Products:
      a. Cap sealer: Sikadur 33; and Injection epoxy: Sikadur Injection Gel; Sika Corporation
      b. Cap sealer: Sto Quick Set Epoxy Gel; and Injection epoxy: Sto Epoxy Binder; Sto Concrete Restoration Division

B. Penetrating Crack Sealer: Non-sag, two-part, 100 percent solids; recommended by manufacturer for purpose and conditions under which used.
   1. Non-Load-Bearing Applications: ASTM C881/C881M Type I, II, III, IV, or V, whichever is appropriate to application.

2. Load-Bearing Applications: ASTM C881/C881M Type IV or V, whichever is appropriate to application.
3. Other Applications: ASTM C881/C881M Type as appropriate to application.
4. Products:
   a. Sikadur 55SLV Healer/Sealer; Sika Corporation
   b. Sto Flexible Crack Sealer; Sto Concrete Restoration Division

2.03 ACCESSORIES

A. Form Materials for Exposed Concrete
1. Plywood panel materials, to provide continuous, straight, smooth, exposed surfaces.
2. Use plywood complying with U.S. Product Standard PS 1 "B B (Concrete Form) Plywood", Class I, Exterior Grade or better, mill oiled and edge sealed, with each piece bearing legible inspection trademark.

B. Water: Clean and potable.

C. Reinforcing Steel: ASTM A615/A615M Grade 60 (60,000 psi) billet-steel deformed bars, unfinished.

D. Supports for Reinforcement: Provide supports for replacement reinforcement as necessary including wire ties and spacers, and other devices for spacing, supporting, and fastening reinforcing bars in place.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are ready to receive work.

B. Beginning of installation means acceptance of substrate.

3.02 PREPARATION

A. Mix repair materials in accordance with manufacturer's instructions. Mix multi-component products using equipment recommended by manufacturer. Only mix quantities which can be used within it pot life.

B. Coordinate the work required for the removal of the loose and delaminated concrete, the repair and cleaning of the exposed reinforcing steel, the placement of forms, and the placement of repair mortar to minimize the time that reinforcing steel is exposed.

3.03 CONCRETE SURFACE PREPARATION

A. Remove delaminated concrete and remove additional concrete as required to provide minimum required thickness of repair material.

B. Edge Preparation: Make a minimum 1/2" deep saw cut along perimeter of repair areas. Make cut at right angle to surface. Avoid feather edges. Geometric configurations or repair patches shall be kept as simple as possible.

C. After removals and edge conditioning are complete, remove bond inhibiting materials (dirt, concrete slurry, loosely bonded aggregates) by abrasive blasting or high pressure waterblasting with or without abrasive. Check the surfaces after cleaning to insure that surface is free from additional loose aggregate, or that additional delaminations are not present.

D. If hydro demolition is used, cement and particulate slurry must be removed from the prepared surfaces before slurry hardens.

3.04 EXPOSING AND UNDERCUTTING REINFORCING STEEL

A. Remove damaged or unsound concrete. Use concrete removal procedures which will not structurally weaken the surrounding precast concrete.

B. Once initial concrete removal is made, undercut exposed oxidized (corroded) reinforcing. Undercutting shall provide clearance for cleaning, full bar circumference bonding to surrounding concrete, and securing the patch structurally.

C. Provide minimum 3/4" clearance between exposed rebars and surrounding concrete or 1/4" larger than largest aggregate in repair mortar, whichever is greater.

D. Concrete removals shall extend along the bars to locations along the bar free of bond inhibiting corrosion, and where the bar is well bonded to surrounding concrete.

E. If unoxidized reinforcing steel is exposed during the undercutting process, care shall be taken not to damage the bar's bond to surrounding concrete. If bond between bar and concrete is broken, undercutting of the bar shall be required.

F. Any reinforcement which is loose shall be secured in place by tying to other secured bars or by other approved methods.

G. Condition edges of repair area by making 1/2 in. saw cut along perimeter.

3.05 REPAIRING AND CLEANING OF REINFORCING STEEL

A. After removal of concrete, notify Architect/Engineer of Record for inspection of steel reinforcing.

B. If a reinforcing bar has lost more than 20% of its cross section, provide one of the following repair methods:
1. Completely replace reinforcing, or
2. Add supplemental reinforcing over the affected section. The new reinforcing bar may be mechanically spliced to the existing bar, or placed parallel to and approximately 3/4" from the existing bar. Lap length shall be in accordance with ACI 318.

C. Remove heavy oxides and scale from the exposed reinforcing bars, as necessary to insure maximum bond of the replacement material.

3.06 APPLYING REPAIR MORTAR

A. General: Perform repairs using flowable mortar or non-sag mortar as appropriate to conditions at each location.

B. Forms:
1. Support, brace, and maintain forms as required to support loads that might be applied. Construct formwork so concrete repair patch is of correct size, shape, and alignment.
2. Construct forms of one piece and to obtain accurate alignment, location, grades, and plumb work in finished repair.
3. Fabricate forms for easy removal without hammering or prying against concrete surfaces.
4. Cleaning and Tightening: Thoroughly clean forms and adjacent surfaces to receive repair mortar. Remove chips, wood, sawdust, dirt or other debris just before concrete is

placed. Tighten forms and bracing before repair mortar placement to prevent mortar leaks and maintain alignment.

C. Preparation of Form Surfaces:
1. Coat contact surfaces of forms with a nonresidual, form-coating compound.
2. Do not allow excess form-coating material to accumulate on forms or to come into contact with existing concrete surfaces against which repair mortar will be placed. Apply in compliance with manufacturer's instructions.

D. Repair Mortar Placement:
1. Apply bonding compound to prepared concrete and reinforcing steel surfaces. Apply in compliance with manufacturer's instructions at coverage rate recommended for performance as a bonding agent and as a corrosion inhibitor.
2. Deposit repair mortar continuously in a manner to avoid segregation at its final location and in accordance with manufacturer's instructions.

E. Finish of Formed Surfaces: Provide an as-cast concrete surface to match the existing cast in place concrete surface, with a minimum of seams. Repair and patch defective areas including fins and other projections completely removed and smoothed. Match approved field sample.

F. Curing and Protection: Protect freshly placed repair mortar from premature drying and excessive cold or hot temperatures.

3.07 CRACK REPAIR USING PENETRATING CRACK SEALER

A. Prepare exposed cracks. Cracks shall be clean, sound, and free of surface water (may be damp but not wet). Remove dust, laitance, grease, oils, curing compounds, waxes, impregnations, foreign particles, coatings and disintegrated materials by mechanical means. Blow cracks clean with oil free compressed air.

B. Follow epoxy adhesive manufacturer's written installation instructions.

C. Clean surfaces adjacent to repair and blend finish.

3.08 CRACK REPAIR USING EPOXY ADHESIVE INJECTION

A. Prepare exposed cracks. Cracks and surface 1” on each side of crack shall be clean, sound, and free of surface water (may be damp but not wet). Remove dust, laitance, grease, oils, curing compounds, waxes, impregnations, foreign particles, coatings and disintegrated materials by mechanical means. Blow cracks clean with oil free compressed air.

B. Follow epoxy adhesive manufacturer's written installation instructions.

C. Provide temporary entry ports spaced to accomplish movement of fluids between ports; no deeper than the depth of the crack to be filled or port size diameter no greater than the thickness of the crack. Provide temporary seal at concrete surface to prevent leakage of adhesive.

D. Inject adhesive into ports under pressure using equipment appropriate for particular application.

E. Begin injection at lower entry port and continue until adhesive appears in adjacent entry port. Continue from port to port until entire crack is filled.

F. Remove temporary seal and excess adhesive.

G. Clean surfaces adjacent to repair and blend finish.

END OF SECTION 03 01 00

SECTION 05 21 00

STEEL JOIST FRAMING

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Open web steel joists, with bridging, attached seats and anchors.

B. Loose bearing members, such as plates or angles, and anchor bolts for site placement.

C. Supplementary framing for floor and roof openings greater than 18 inches.

1.02 REFERENCE STANDARDS

A. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2014.

B. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength; 2014 (Editorial 2017).

C. ASTM A563 - Standard Specification for Carbon and Alloy Steel Nuts; 2015.

D. ASTM A563M - Standard Specification for Carbon and Alloy Steel Nuts (Metric); 2007 (Reapproved 2013).

E. ASTM E164 - Standard Practice for Contact Ultrasonic Testing of Weldments; 2013.

F. ASTM F3125/F3125M - Standard Specification for High Strength Structural Bolts, Steel and Alloy Steel, Heat Treated, 120 ksi (830 MPa) and 150 ksi (1040 MPa) Minimum Tensile Strength, Inch and Metric Dimensions; 2015a.

G. ASTM F436/F436M - Standard Specification for Hardened Steel Washers Inch and Metric Dimensions; 2016.

H. AWS B2.1/B2.1M - Specification for Welding Procedure and Performance Qualification; 2014 (Amended 2015).

I. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2015, with Errata (2016).

J. RCSC (HSBOLT) - Specification for Structural Joints Using High-Strength Bolts; Research Council on Structural Connections; 2014, with Errata (2015).

K. SSPC-Paint 15 - Steel Joist Shop Primer/Metal Building Primer; 1999 (Ed. 2004).

L. SSPC-SP 2 - Hand Tool Cleaning; 1982 (Ed. 2004).

1.03 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by all relevant installers.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Submit copies of manufacturer's specifications and installation instructions for each type of joists and accessories.

C. Shop Drawings: Indicate standard designations, joist coding, configurations, sizes, spacings, cambers, locations of joists, joist leg extensions, bridging, connections, and attachments.

D. Welders' Certificates: Submit manufacturer's certificates, certifying welders employed on the Work, verifying AWS qualification within the previous 12 months.

E. Test reports: Submit test and inspection reports for all field quality control.

1.05 QUALITY ASSURANCE

A. Connections not detailed on the design drawings are to be designed under the direct supervision of a licensed Structural Engineer experienced in design of this work and licensed in Illinois and engaged by the Fabricator.

B. Erector Qualifications: Company specializing in performing the work of this section with minimum five years documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Transport, handle, store, and protect products to SJI requirements.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Steel: Comply with AISC and SJI Specifications.

B. High-Strength Structural Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1, with matching compatible ASTM A563 or ASTM A563M nuts and ASTM F436/F436M washers.

C. Structural Steel For Supplementary Framing and Joist Leg Extensions: ASTM A36/A36M.

D. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.

E.

~~~ PROJECT NOTE ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
SPECIAL CONSIDERATION MUST BE GIVEN TO SHOP PRIMER IF JOIST TO RECEIVE HIGH PERFORMANCE COATING (EPOXY, URETHANE)

~~~ END OF PROJECT NOTE ~~~~~~~~~~~~~~~~~~~~~~~~~~

F. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.

2.02 FABRICATION

A. Frame special sized openings in joist web framing as detailed.

2.03 FINISH

A. Shop prime joists as specified.
   1. Clean and prepare surfaces prior to priming.
   2. Do not prime surfaces that will be fireproofed.

B. Prepare surfaces to be finished in accordance with SSPC-SP 2.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify existing conditions prior to beginning work.

3.02 ERECTION

A. Erect joists with correct bearing on supports.

B. Allow for erection loads. Provide sufficient temporary bracing to maintain framing safe, plumb, and in true alignment.

C. Coordinate the placement of anchors for securing loose bearing members furnished as part of the work of this section.

D. After joist alignment and installation of framing, field weld joist seats to steel bearing surfaces.

E. Install supplementary framing for floor and roof openings greater than 18 inches.

F. Do not permit erection of decking until joists are braced, bridged, and secured or until completion of erection and installation of permanent bridging and bracing.

G. Do not field cut or alter structural members without approval of joist manufacturer.

H. After erection, prime welds, damaged shop primer, damaged galvanizing, and surfaces not shop primed, except surfaces specified not to be primed.

3.03 TOLERANCES

A. Maximum Variation From Plumb: 1/4 inch.

B. Maximum Offset From True Alignment: 1/4 inch.

3.04 FIELD QUALITY CONTROL

A. An independent testing agency will perform field quality control tests, as specified in Section 01 40 00 - Quality Requirements.

B. High-Strength Bolts: Provide testing and verification of field-bolted connections in accordance with RCSC (HSBOLT) "Specification for Structural Joints Using High-Strength Bolts", testing at least 10 percent of bolts at each connection. Visually inspect all bolted connections.

C. Joists welded in place are subject initially to inspection and testing by the Board. Expense of removing and replacing any portion of the steel joists for testing purposes will be borne by the

Board if welds are found to be satisfactory. Pay for additional testing required and remove and replace any Work found to be defective and provide new acceptable Work.

D. Welded Connections: Visually inspect all field-welded connections and test __ welds per the following:
   1. Ultrasonic testing performed in accordance with ASTM E164 for all full penetration welds.

E. Submit copies of test reports to Architect/Engineer of Record, Board's Representative, and Contractor.

END OF SECTION 05 21 00

SECTION 13 28 16

SPORT NETTING

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Ball barrier sport netting and accessories.

1.02 SUBMITTALS

A. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.

1.03 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

1.04 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Products:
   1. Aluminum Athletic Equipment.
   2. National Recreation Systems.
   3. Sportsfield Specialties.

2.02 APPLICATIONS/SCOPE

A. Ball Barrier: Provide Ball Barrier sport netting as indicated on the drawings and as scheduled on the drawings.
   1. Position: Horizontal fixed position
   2. Mesh: #36 knotted nylon, 1-3/4 inch mesh.
   3. Color for Netting: Black.
   4. Edge Binding for Netting: Edge binding sized as required to support the netting system.
   5. Installation Hardware Required:
      a. Aluminum tracking for suspending and drawing the nets as required per the drawings. Aluminum I-beam channel track, complete with one carrier per lineal foot, hanging clamps (provided every 4 feet) or ceiling clamps (provided every 5 feet), 2 end stops and splice clamps as needed for joining track sections together.
      b. Cable assembly for suspending and drawing the nets as required per the drawings. Including turnbuckles, galvanized steel cable, cable clamps, and thimbles. Contractor to provide eye bolts/anchors of whatever type appropriate for wall type where cable assembly is to be installed.
   6. Other accessory materials as required to provide a complete system.

PART 3 - EXECUTION

3.01 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   1. Verify substrates are acceptable for anchoring conditions including tensile load requirements.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install in conformance with manufacturer's recommendations. Provide installation that is complete and to the standards required by League rules.

3.03 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Preliminary Acceptance.

END OF SECTION 13 28 16

SECTION 00 01 02

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09 01 33	TILING RENOVATION	02_12/30/21
09 05 61	COMMON WORK RESULTS FOR FLOORING PREPARATION	01_11/27/18
09 51 00	ACOUSTICAL CEILINGS	02_12/30/21
09 91 23	INTERIOR PAINTING	02_12/30/21

DIVISION 10 - SPECIALTIES

10 11 01	VISUAL DISPLAY BOARDS	01_11/27/18
10 14 00	SIGNAGE	01_11/27/18
10 28 00	TOILET, BATH AND LAUNDRY ACCESSORIES	01_11/27/18
10 44 00	FIRE PROTECTION SPECIALTIES	01_11/27/18
10 44 03	INSTALLATION OF FIRE EXTINGUISHERS AND CABINETS	01_11/27/18
10 51 00.12	LOCKERS – HIGH SCHOOL	01_12/22/21

DIVISION 11 - EQUIPMENT

11 30 13	RESIDENTIAL APPLIANCES	02_05/26/21
11 40 00	FOODSERVICE EQUIPMENT	02_12/30/21

DIVISION 22 - PLUMBING

22 11 16	DOMESTIC WATER PIPING	01_11/27/18
22 11 19	DOMESTIC WATER PIPING SPECIALTIES	02_12/30/21
22 13 16	SANITARY WASTE, VENT AND STORM DRAINAGE PIPING	01_11/27/18
22 14 23	DRAINAGE PIPING SPECIALTIES	02_12/30/21

DIVISION 23 - HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)

23 05 03	GENERAL PROVISION FOR HVAC WORK	01_02/18/22
23 05 05	BASIC HVAC MATERIALS AND METHODS	01_02/18/22
23 05 13	COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT	01_11/27/18
23 05 53	IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT	02_04/13/21
23 05 93	TESTING, ADJUSTING, AND BALANCING FOR HVAC	02_12/30/21
23 07 13	DUCT INSULATION	01_11/27/18
23 07 19	HVAC PIPING INSULATION	01_11/27/18
23 09 21	Building Automation System-Basic Materials, Interface Devices, And Sensors	07_01/28/21 N/A
23 09 23	DIRECT-DIGITAL CONTROL SYSTEM FOR HVAC	07_12/30/21
23 09 26	Building Automation System-Sequence of Operation	03_04/03/07
23 09 27	Building Automation System-Commissioning	05_03/25/19
23 21 13	Hydronic Piping	01_11/27/18
23 22 13	STEAM AND CONDENSATE HEATING PIPING	01_11/27/18
23 23 00	REFRIGERANT PIPING	01_11/27/18

23 31 00	HVAC DUCTS AND CASINGS	01_11/27/18
23 33 00	AIR DUCT ACCESSORIES	01_11/27/18
23 34 23	HVAC POWER VENTILATORS	02_12/30/21
23 37 00	AIR OUTLETS AND INLETS	01_11/27/18
23 62 00	PACKAGED COMPRESSOR CONDESER UNITS	01_03/18/22
23 82 00	CONVECTION HEATING AND COOLING UNITS	03_12/30/21
23 84 17	NATATORIUM DEHUMIDIFICATION UNITS	01_02/18/22

DIVISION 26 - ELECTRICAL

26 05 05	SELECTIVE DEMOLITION FOR ELECTRICAL	01_11/27/18
26 05 19	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES	01_11/27/18
26 05 26	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS	01_11/27/18
26 05 29	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS	01_11/27/18
26 05 33.13	CONDUIT FOR ELECTRICAL SYSTEMS	01_11/27/18
26 05 33.16	BOXES FOR ELECTRICAL SYSTEMS	01_11/27/18
26 05 33.23	SURFACE RACEWAYS FOR ELECTRICAL SYSTEMS	01_11/27/18
26 05 53	IDENTIFICATION FOR ELECTRICAL SYSTEMS	02_04/13/21
26 05 73	POWER SYSTEM STUDIES	01_11/27/18
26 05 83	WIRING CONNECTIONS	01_11/27/18
26 08 13	TESTING OF ELECTRICAL SYSTEMS	01_11/27/18
26 09 23	LIGHTING CONTROL DEVICES	02_02/09/21
26 09 36	MODULAR DIMMING CONTROLS	02_02/09/21
26 09 43	LIGHTING CONTROLS	02_02/09/21
26 21 00	LOW VOLTAGE ELECTRICAL SERVICE ENTRANCE	01_11/27/18
26 22 00	LOW-VOLTAGE TRANSFORMERS	01_11/27/18
26 24 13	SWITCHBOARDS	01_11/27/18
26 24 16	PANELBOARDS	01_11/27/18
26 27 26	WIRING DEVICES	03_03/19/21
26 28 13	FUSES	01_11/27/18
26 28 16.13	ENCLOSED CIRCUIT BREAKERS	01_11/27/18
26 28 16.16	ENCLOSED SWITCHES	01_11/27/18
26 29 13	ENCLOSED CONTROLLERS	01_11/27/18
26 29 23	VARIABLE FREQUENCY MOTOR CONTROLLERS	01_11/27/18
26 43 00	SURGE PROTECTIVE DEVICES	01_11/27/18
26 51 00	INTERIOR LIGHTING	02_02/09/21

~~DIVISION 27 - COMMUNICATIONS~~

~~27 51 00 DISTRIBUTED AUDIO-VIDEO COMMUNICATIONS SYSTEMS 01_11/27/18~~

~~DIVISION 28 - ELECTRONIC SAFETY AND SECURITY~~

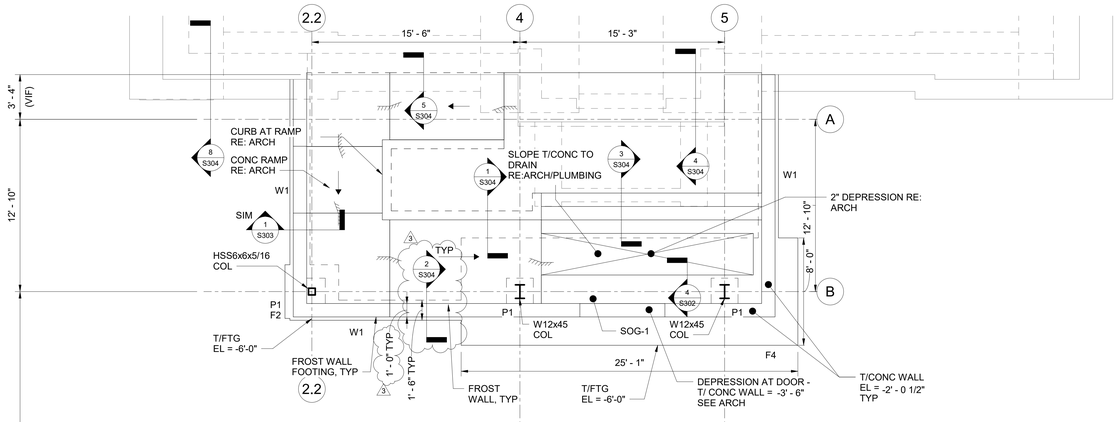
~~28 20 00 CCTV SYSTEM AND COMPONENTS 01_11/27/18~~
~~28 23 07 DVS SYSTEM - EXISTING SCHOOL 01_11/27/18~~

~~28 31 00 FIRE DETECTION AND ALARM 01_11/27/18~~

DIVISION 33 - UTILITIES

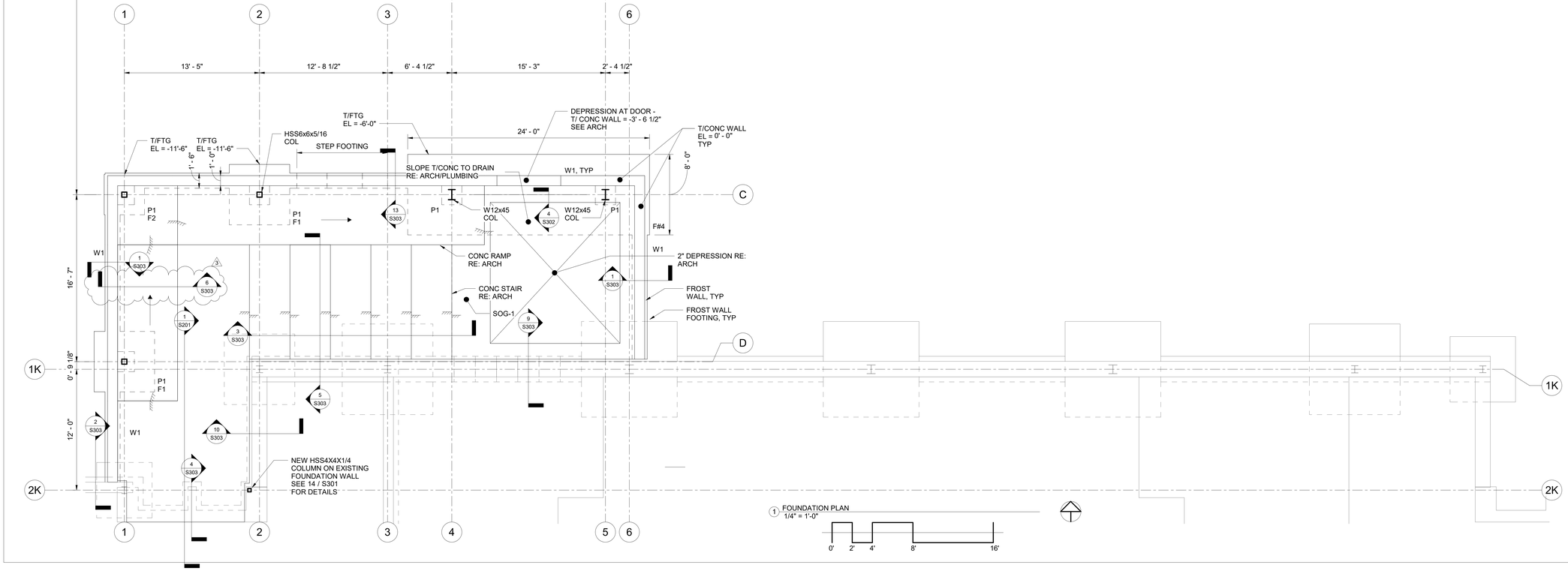
~~33 41 00~~	~~SEWERAGE AND DRAINAGE~~	~~01_11/27/18~~
33 51 13	NATURAL GAS PIPING	01_11/27/18

END OF SECTION



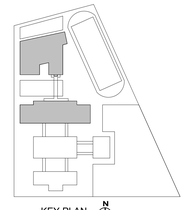
NOTES:

1. SEE SHEET S001 AND S002 FOR GENERAL NOTES.
2. ALL FOOTINGS ARE CENTERED UNDER COLUMN CENTERLINES, U.N.O.
3. FOOTINGS UNDER WALLS ARE CENTERED UNDER THE WALL, U.N.O.
4. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR SLOPES, DEPRESSIONS, ETC.
5. SOG-1 INDICATES 5" CONCRETE SLAN-ON-GRADE W/4x4-W4.0xW4.0 WWF OVER VAPOR BARRIER OVER 6-INCH GRANULAR FILL OVER ENGINEERED FILL AS REQUIRED IN GEOTECHNICAL REPORT.
6. PROVIDE CONSTRUCTION/CONTROL JOINTS AT EVERY COLUMN LOCATION AND AT 12'-0" MAXIMUM IN EACH DIRECTION. SUBMIT JOINT LAOUT FOR REVIEW PRIOR TO PLACING SLAB-ON-GRADE. COORDINATE JOINT LOCATION WITH ARCH. DWGS.
7. EXISTING FOUNDATIONS ARE NOT TO BE UNDERMINED DURING THE EXCAVATION FOR NEW FOOTINGS.
8. EXISTING KENWOOD FLOOR 1 T/SLAB EL. = +0'-0" (TYP. U.N.O.) SEE ARCHITECTURAL DRAWINGS FOR ELEVATION RELATIONSHIP TO EXISTING.
9. ALL COLUMNS ARE HSS5X5X1/4 U.N.O.
10. EXISTING BUILDING INFORMATION FOR KENWOOD SCHOOL IS BASED ON ARCHIVED DRAWINGS BY SCHMIDT, GARDEN & ERIKSON, DATED JANUARY 15, 1968. EXISTING BUILDING INFORMATION FOR CANTER SCHOOL IS BASED ON ARCHIVED DRAWINGS BY JOHN C. CHRISTENSEN ARCHITECT, DATED MARCH 19, 1937.
11. "F#" INDICATES FOOTING. SEE S301 FOR FOOTING SCHEDULE.
12. "W#" INDICATES STRIP FOOTING. SEE S301 FOR FOOTING SCHEDULE.
13. "P#" INDICATES PIER. SEE S301 FOR PIER SCHEDULE.
14. SEE S300-SERIES DWGS FOR FOUNDATION AND FOOTING DETAILS.



1 FOUNDATION PLAN
1/4" = 1'-0"

0' 2' 4' 8' 16'



KEY PLAN N

KENWOOD ACADEMY LINK

5015 S. BLACKSTONE AVE.
CHICAGO, IL 60615
CHICAGO PUBLIC SCHOOLS

CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

Architect of Record:

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MILHOUSE ENGINEERING
Chicago, IL
Structural Engineers of Record

MELVIN COHEN & ASSOCIATES
Chicago, IL
MEPFP Engineers of Record

No.	Date	Description
3	10.25.22	ADDENDUM 3
2	09.28.22	ISSUED FOR BID
1	06.21.22	ISSUED FOR PERMT

PBC Project Name: Kenwood Academy M.E.P.

PBC Contract No: ###

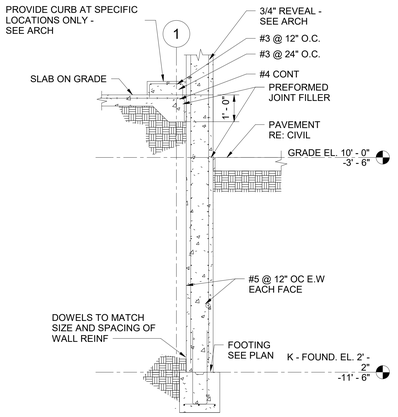
Project No.: 05326

Title

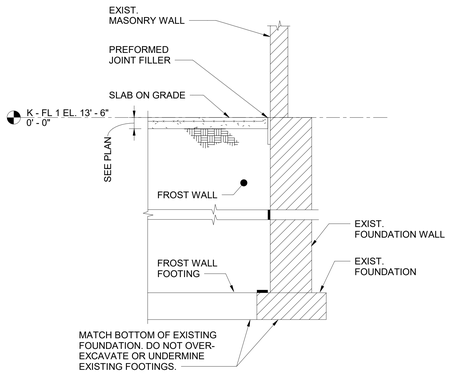
FOUNDATION PLAN

Sheet

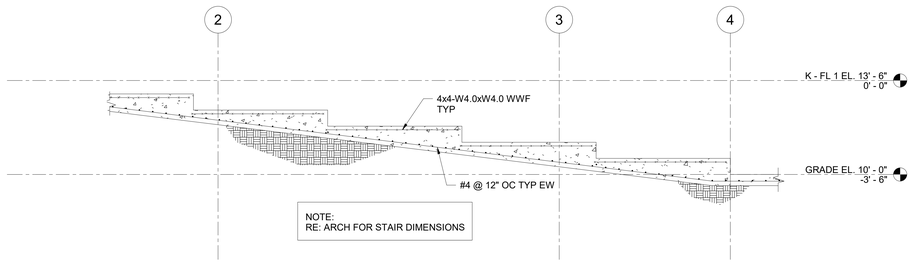
S101



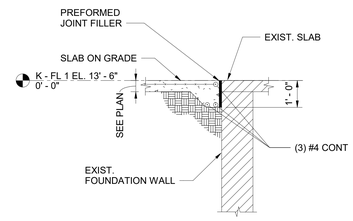
1 SECTION AT KENWOOD RAMP LANDING (WEST)
1/2" = 1'-0"



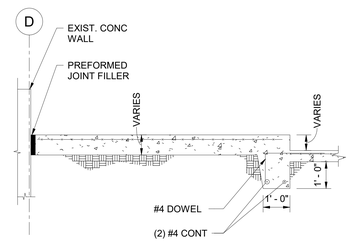
2 SECTION AT EXISTING KENWOOD FOUNDATION INTERFACE A
1/2" = 1'-0"



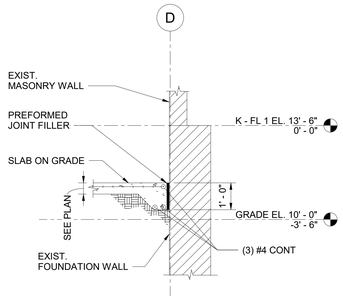
3 SECTION AT KENWOOD MONUMENTAL STAIR A
1/2" = 1'-0"



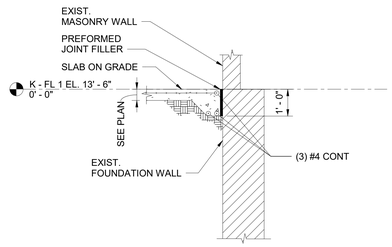
4 SECTION AT EXISTING KENWOOD ENTRYWAY INTERFACE (WEST)
1/2" = 1'-0"



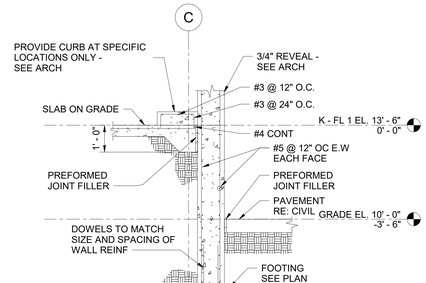
5 SECTION AT KENWOOD MONUMENTAL STAIR B
1/2" = 1'-0"



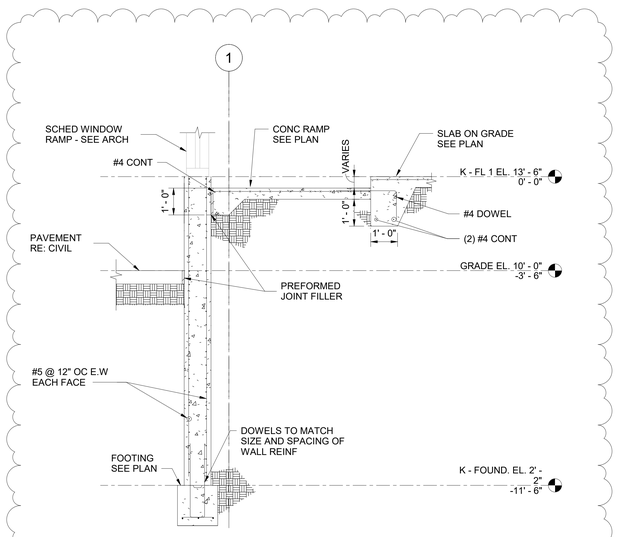
9 SECTION AT EXISTING KENWOOD FOUNDATION INTERFACE (NORTH)
1/2" = 1'-0"



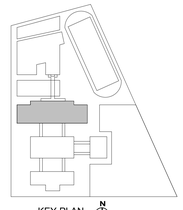
10 SECTION AT EXISTING KENWOOD FOUNDATION INTERFACE (WEST)
1/2" = 1'-0"



13 SECTION AT KENWOOD RAMP LANDING (EAST) A
1/2" = 1'-0"



6 SECTION AT KENWOOD RAMP - LOOKING NORTH
1/2" = 1'-0"



NOTE: CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS AND CHECK PROJECT DIMENSIONS.

KENWOOD ACADEMY LINK

5015 S. BLACKSTONE AVE.
CHICAGO, IL 60615
CHICAGO PUBLIC SCHOOLS

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MILHOUSE ENGINEERING
Chicago, IL
Structural Engineers of Record

MELVIN COHEN & ASSOCIATES
Chicago, IL
MEPFP Engineers of Record

No.	Date	Description
3	10.25.22	ADDENDUM 3
2	09.28.22	ISSUED FOR BID
1	06.21.22	ISSUED FOR PERMT

PBC Project Name: Kenwood Academy M.E.P.

PBC Contract No: ###

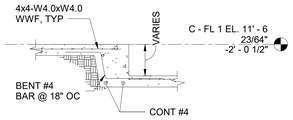
Project No.: 05326

Title

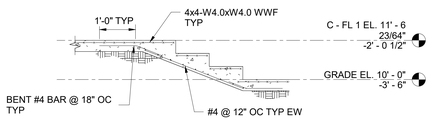
KENWOOD FOUNDATION SECTIONS

Sheet

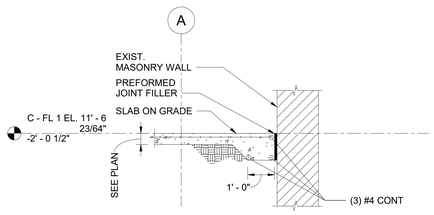
S303



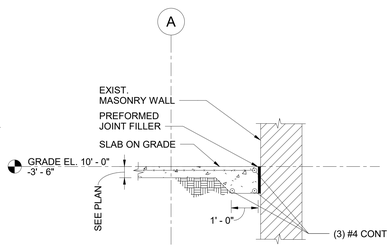
1 SECTION AT CANTER VESTIBULE RAMP
1/2" = 1'-0"



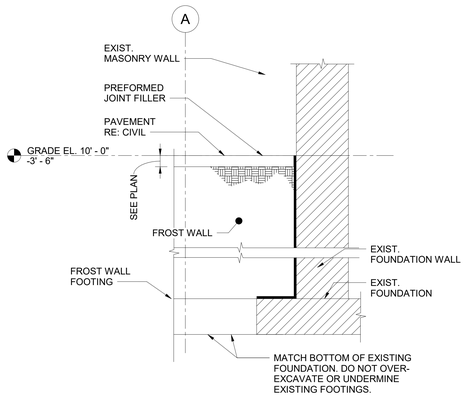
3 SECTION AT CANTER VESTIBULE STAIRS
1/2" = 1'-0"



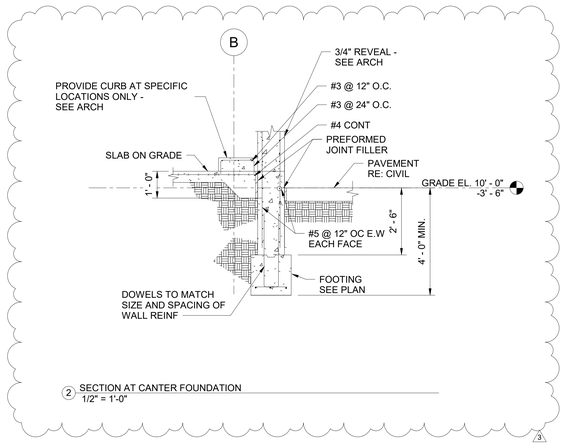
4 SECTION AT EXISTING CANTER ENTRYWAY INTERFACE
1/2" = 1'-0"



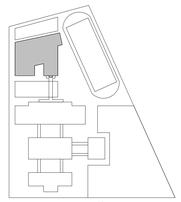
5 SECTION AT EXISTING CANTER FOUNDATION INTERFACE
1/2" = 1'-0"



8 SECTION AT CANTER VESTIBULE EXTERIOR
1/2" = 1'-0"



2 SECTION AT CANTER FOUNDATION
1/2" = 1'-0"



KEY PLAN

NOTE: CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS AND CHECK PROJECT DIMENSIONS.

KENWOOD ACADEMY LINK

5015 S. BLACKSTONE AVE.
CHICAGO, IL 60615
CHICAGO PUBLIC SCHOOLS

CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

Architect of Record:

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nia architects Inc

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MILHOUSE ENGINEERING
Chicago, IL
Structural Engineers of Record

MELVIN COHEN & ASSOCIATES
Chicago, IL
MEPFP Engineers of Record

No.	Date	Description
3	10.25.22	ADDENDUM 3
2	09.28.22	ISSUED FOR BID
1	06.21.22	ISSUED FOR PERMIT

PBC Project Name: Kenwood Academy M.E.P.

PBC Contract No: ###

Project No.: 05326

Title

CANTER FOUNDATION SECTIONS

Sheet

S304

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"

1'-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"

NEW GROUND HYDRANT. REFER TO CIVIL DRAWING C-105 FOR EXACT LOCATION.

PROVIDE 1"CW TO NEW GROUND HYDRANT. REFER TO CIVIL DRAWING C-105 FOR EXACT ROUTING. PROVIDE 1"CW, COPPER TYPE "K", UNDERGROUND MINIMUM 5'-6" BELOW GRADE

PROVIDE BACKFLOW PREVENTER, WATTS MODEL #LF7F. MOUNT ON AVAILABLE WALL SPACE.

1"CW UNDERGROUND TO NEW GROUND HYDRANT

NEW 1"CW

UP

ELEC RM. 107D

(E)3" CW

(E)3-1/2" CW

(E)1-1/4" HW

(E)1" HWR

BOILER RM. 107E

FAN ROOM 107B

PUMP & TANK RM. 107A

KITCHEN 112A

EXISTING WATER HEATER

TOILET 107G

ENG. OFFICE 107F

TOILET 107H

GIRLS TOILET RM. 108

(E)1 1/4" HW

MECH. ROOM 107

1" CW

(E)3/4" HWR

AUDITORIUM 112

CANTER

STOR 112C

STOR 111

CLASSROOM 106

CLASSROOM 105

VEST 118B

VEST 118A

STOR 112D

RAMP 112B

ELEVATOR LOBBY 100C

BOYS TOILET RM. 110

JAN. 109

STAIR 100S2

CORRIDOR 100B

VEST 114

LOBBY 118

VEST 117

CLOSET 102A

CLASSROOM

KEY PLAN

KENWOOD ACADEMY LINK

5015 SOUTH BLACKSTONE AVENUE
CHICAGO, IL 60615

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

PUBLIC BUILDING COMMISSION
Chicago Public Schools

Architect:
NIA ARCHITECTS, INC.
nia architects Inc
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872 216 9819

Landscape Architect:
Site Design
888 South Michigan Avenue
Suite PH1
Chicago, IL 60605
312 427 7240

Structural Engineer:
Milhouse Engineering, Inc.
333 South Wabash Avenue
Suite 2901
Chicago, IL 60604
312 924 4584

Mechanical, Electrical, Plumbing & Fire Protection Engineers:
Melvin & Cohen Associates, Inc.
223 West Jackson Boulevard
Suite 820
Chicago, IL 60606
312 663 3700

RONALD COHEN
62-041747
REGISTERED PROFESSIONAL ENGINEER
OF
ILLINOIS

No.	Date	Description
11	10.24.22	ADDENDUM #2
10	09.28.22	ISSUED FOR BID
9	06.21.22	ISSUED FOR PERMIT
8	05.13.22	ISSUED FOR ZONING REVIEW
7	04.08.22	REV PRE-OTB
6	03.18.22	PRE- OTB
5	02.18.22	100% REVIEW
4	12.16.21	ISSUE FOR PRICING
3	10.27.21	ISSUED FOR 60%
2	10.20.21	CITY REVIEW
1	08.20.21	ISSUED FOR 30%

PBC Project Name: Kenwood Academy M.E.P.
PBC Contract No: C1602
Project No.: 05326

Title
PLUMBING SITE PLAN

Sheet
P105A