



FREDERICK W. SEEBA, PE, MANAGING PARTNER
LAWRENCE SALVESEN, AIA, PARTNER
KEVIN J. WALSH, AIA, PARTNER
KENNETH G. SCHUPNER, AIA, PARTNER
JOSEPH B. RETTIG, AIA, PARTNER
GARY W. SCHIEDE, AIA, PARTNER
ROGER P. SMITH, AIA, FOUNDING PRINCIPAL

March 26, 2025

BID ADDENDUM No. 6

Re: Bedford UFSD
Phase 2 – Bond Improvements at
Fox Lane High School, Fox Lane Middle
School, Administration Building
BBS File No. 23-131a-c

This addendum contains changes to the requirements of the contract drawings and/or project manual. Such changes shall be incorporated into the contract documents and shall apply to the work with the same meaning and force as if they had been included in the original documents. Wherever this addendum modifies a portion of a paragraph of project manual or any portion of the drawing, the remainder of the paragraph or drawing affected shall remain in force.

The conditions of the basic project manual shall govern all work described in this addendum. Wherever the conditions of work and the quality or quantity of materials or workmanship are not fully described in this addendum, the conditions of work, etc. included in the basic project manual for similar items of work shall apply to the work described in this addendum.

The "Conditions of the Contract" apply to all work described in this addendum.

The following changes shall be and are hereby made:

PROJECT MANUAL MODIFICATIONS

1. Specification Section 001116 – Invitation to Bidders

- a. Invitation to Bidders is hereby deleted and replaced with the attached. Contractors shall be advised of bid extension.

2. Specification Section 011000 – Summary of Work

- a. The specification section shall be deleted and replaced with the attached.

END OF ADDENDUM

Invitation to Bidders

BOARD OF EDUCATION Bedford Central School District

PUBLIC NOTICE: is hereby given for separate sealed bids for: **Phase 2 – Bond Improvements at Fox Lane HS, Fox Lane MS, and District Administration Offices.** Bids will be received by the School District, on **April 2, 2025**, at **3:00 p.m.** in the **Administration Building, 632 South Bedford Road, Bedford, New York, 10506**, and at said time and place publicly opened and read aloud.

The Contract Documents may be examined at the Office of the Architect, **BBS Architects, Landscape Architects and Engineers, P.C., 244 East Main Street, Patchogue New York, (631-475-0349)**; however the Contract Documents may only be obtained thru the Office of **Biddy c/o Lohrius Blueprint, 226 Newtown Road, Plainview, New York 11803 (516-465-2880)** beginning on **Monday, February 24, 2025**. Complete digital sets of Contract Documents shall be obtained online (with a free user account) as a download for a **non-refundable fee of One-Hundred (\$100.00) Dollars** at the following website: bbs.biddyhq.com. Optionally, in lieu of digital copies, hard copies may be obtained directly from REV upon a **deposit of One-Hundred (\$100.00) Dollars** for each complete set. **Checks for deposits shall be made payable to the DISTRICT, BEDFORD CENTRAL SCHOOL DISTRICT** and may be uncertified. All bid addenda will be transmitted to registered plan holders via email and will be available at the above referenced websites. Any bidder requiring documents to be shipped shall make arrangements with the printer and pay for all packaging and shipping costs. Plan holders who have obtained hard copies of the bid documents will need to make the determination if hard copies of the addenda are required for their use, and coordinate directly with the printer for hard copies of addenda to be issued. There will be no charge for registered plan holders to obtain hard copies of the bid addenda. The bid deposit for hard copies will be returned upon receipt of plans and specifications, in good condition, within thirty days after bid date, except for the lowest responsible bidder, whose check will be forfeited upon the award of the contract.

A non-mandatory pre-bid site walk through is scheduled for March 6, 2025, at 3:00 p.m. starting at the main lobby of Fox Lane High School, Bedford Central School located at 632 South Bedford Avenue, Bedford, New York, 10506.

The Contract will be awarded to the lowest responsible bidder or the proposals will be rejected within 45 days of the date of opening proposals. Bids shall be subject, however, to the discretionary right reserved by the School District to waive any informalities, accept or reject any alternatives, reject any proposals and to advertise for new proposals, if in its opinion the best interest of the School District will thereby be promoted.

Each bidder may not withdraw his bid within 45 days after the formal opening thereof. A bidder may withdraw his bid only in writing and prior to the bid opening date.

By Order of:
The Board of Education
Bedford Central School District

Dated: **February 24, 2025**

SECTION 01 10 00 - SUMMARY OF WORK - MULTIPLE PRIME CONTRACTS**1.1 PROJECT INFORMATION**

- A. Project: Bedford Central School District Phase 2
- B. Project Location: Bedford, NY
- C. Owner: Bedford Central School District
- D. Architect: BBS Architects & Design
- E. Construction Manager: Arris Contracting Company, Inc.
- F. The overall scope of work includes:

Fox Lane High School – abatement, library renovation, cafeteria renovations, locker room renovations, gym and fitness center renovations, guidance and art room renovations, plus all associated. HVAC, electrical and plumbing upgrades.

Fox Lane Middle School – abatement, main office and nurse suite renovation, music room renovation, steam room renovations, main entrance addition, plus all associated. HVAC, electrical and plumbing upgrades.

Administration Building – abatement, men's/women's toilet room renovations plus all associated, custodial storage room addition plus all associated, toilet room renovation, boiler room renovation. HVAC, electrical and plumbing upgrades.

All prime contractors are required to actively coordinate and sequence with other contractors and the owner provided items to ensure accuracy of the installations and a smooth flow of work.

The contractor shall provide all labor, materials, equipment and services to furnish deliver and install all materials and related work as shown on the drawings, as required by these specifications and/or as directed by the Architect/Construction Manager.

- G. Contracts:
 - 1. The Project will be constructed under a multiple prime-contracting arrangement.
 - 2. Prime Contracts are separate contracts between the Owner and separate contractors, representing significant construction activities. Each prime contract is performed concurrently with and closely coordinated with construction activities performed on the Project under prime contracts. Prime contracts for this Project include:
 - a. General Work Contract. (GC or GWC)
 - b. Mechanical Work Contract. (MC, HVAC or HC)
 - c. Electrical Work Contract. (EC)
 - d. Plumbing Work Contract. (PC)

1.2 DIVISION OF WORK

Each contract shall include all labor materials, plans, tools, equipment and supervision which are required for or incidental to the proper completion of the work as indicated on the drawings and described in the following specification sections:

1.3 GENERAL REQUIREMENTS – ALL CONTRACTS

- 1. All DIVISION 00 Sections
- 2. All DIVISION 01 Sections

Special Notes – ALL CONTRACTS:

1. Work hours M-F 7:00AM – 4:30PM. Contractor will appropriately staff the project to avoid Saturday and Overtime hours which result in Owner, Construction Manager and Architect additional costs. (2nd shift where indicated by Milestone schedule 3:00 pm – 11:00 pm)
2. Delivery black out times- No Contractor trucks/deliveries are allowed during school bus times as indicated by owner approx. **7:00 am - 8:30 am or 2:00 pm - 3:30 pm.**
3. Each prime contractor to include all required insurance coverages as outlined by the General Conditions and front-end sections in their base bid. Provide renewals ahead of expiration. No contractors will be allowed onsite if their insurance has expired.
4. Contractors are specifically reminded of their responsibilities for clean up as per Section 017423. Maintaining a clean jobsite is considered a safety issue and will be strictly enforced. In addition to daily cleaning, the contractor is required to hire a professional cleaning company to final clean all areas impacted by the construction. This includes completely cleaning any surfaces/equipment/furniture which has been dusted by the construction work. If the contractor does not properly perform this function when directed by the Owner/CM, within 4 hours of being notified the owner will perform the work with others and deduct the cost from the contractor.
5. Each Contractor shall provide suitable rubbish containers device(s) for their own use (both demolition and construction debris), properly maintained and serviced, replaced as required and protected from access by the public fencing as may be specified herein or approved by the Architect or Construction Manager.
6. Existing building space may not be used for storage unless approved by Owner.
7. Each Contractor is required to submit their corporate safety policy within 10 days of receipt of the Notice to Proceed. Said Policy must minimally meet OSHA Standards and define details concerning the maintenance of a safe work environment and shall also define practices for the maintenance of hygiene and minimizing of the spread of infectious / contagious diseases.

1.4 GENERAL WORK CONTRACT (GC or GWC)

In addition to the General Requirements, Division 1, included in this bid package contractor shall provide for proper completion of work as indicated on all drawings and in accordance with the terms and conditions described in the following sections:

DIVISION 02 – EXISTING CONDITIONS

Section 024119 – Selective Demolition

Section 028000 – Asbestos Work Under This Contract

Section 028100 – Asbestos Handling Certificate

Section 028218 – Abatement of Asbestos Flooring/Mastic – Liquid Chemical Scrape Method

Section 029000 – Lead Containing Materials Abatement

DIVISION 03 – CONCRETE

Section 030100 – Concrete Surface Preparation for Coating

Section 030130 – Concrete Reconstruction and Resurfacing (Non-Structural)

~~Section 030130.11 – Cementitious Concrete Finish Coating~~

~~Section 030130.12 – Elastomeric Concrete Finish Coating~~

Section 033000 – Cast-in-Place Concrete
Section 035416 – Self Leveling Cementitious Underlayment

DIVISION 04 – MASONRY

Section 040100 – Masonry Restoration and Cleaning
Section 040120 – Masonry Surface Preparation for Coating
~~Section 040140 – Natural Stone Repair and Repointing~~
Section 042000 – Unit Masonry
Section 047200 – Architectural Cast Stone

DIVISION 05 – METALS

Section 050530 – Cold Galvanizing
Section 051200 – Structural Steel Framing
Section 052100 – Steel Joist Framing
Section 053000 – Metal Decking
Section 054000 – Cold Formed Metal Framing
Section 055000 – Metal Fabrications
Section 055200 – Metal Railings

DIVISION 06 – WOODS, PLASTICS & COMPOSITES

Section 061000 – Rough Carpentry
Section 061643 – Exterior Gypsum Sheathing
Section 062000 – Finish Carpentry
Section 068400 – Architectural Composite Columns

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

Section 071000 – Dampproofing
Section 071326 – Self-Adhering Sheet Waterproofing
Section 072100 – Building Insulation
Section 072113 – Ultra Wall Insulation and Air Barrier System
Section 072114 – Mineral Board Insulation (Thermafiber)
Section 072419 – Exterior Insulation and Finish System
Section 072423 – Direct Applied Exterior Finish System
Section 072500 – Gypsum Board Weather-Resistant Barrier & Air Barrier System
Section 072600 – Vapor Retarders
Section 072713 – Self-Adhered Non-Permeable Air Barrier Membrane
Section 073113.10 – Asphalt Shingles (Landmark Premium)
Section 074213.23 – Metal Composite Material Wall Panels (Alucobond)
Section 074293 – Metal Fascia and Soffit Panels
Section 074600 – Vinyl Siding
~~Section 075216 – SBS Modified Bitumen Roofing (Mop-Torch)~~
Section 075323 – EPDM Roofing System Fully Adhered
~~Section 075423 – TPO Roofing System Fully Adhered~~

Section 076000 – Flashing and Sheet Metal
Section 076219 – Fabricated Gravel Stops and Fascia
Section 077000 – Roof Specialties and Accessories
Section 077233 – Roof Hatches
Section 078100 – Spray-Applied Fire Resistive Materials
Section 078413 – Penetration Firestopping
Section 078443 – Joint Firestopping
Section 079100 – Exterior Wall Joint Seals (Emseal)
Section 079200 – Joint Sealants
Section 079219 – Acoustical Joint Sealants
Section 079513 – Expansion Joint Cover Assemblies

DIVISION 08 – OPENINGS

Section 081113 – Hollow Metal Doors and Frames
Section 081210 – Demountable Panel Partition (Genius Architectural Wall)
Section 081416 – Flush Wood Doors
Section 083300 – Rolling Counter Fire Shutters
Section 084113 – Aluminum Entrances and Storefronts
Section 084123 – Fire Rated Aluminum Entrances and Storefronts
Section 085113 – Aluminum Windows
Section 085659 – Aluminum Voice Around Transaction Security Window
Section 087100 – Door Hardware
Section 088000 – Glazing
Section 088200 – Metal Window Panels
Section 088723 – Security Window Film
Section 088813 – Fire Rated Glazing

DIVISION 09 – FINISHES

Section 090561.13 – Moisture Vapor Emission Control
Section 092300 – Gypsum Plaster
Section 092900 – Gypsum Wall Board
Section 093013 – Porcelain and Glazed Ceramic Tile
Section 095000 – Acoustical Ceiling Systems
Section 095133 – Acoustical Metal Ceiling Systems
Section 095426 – Suspended Wood Ceilings
Section 096466.11 – Wood Athletic Flooring (Conner “Duracushion III”)
Section 096513 – Resilient Rubber Stair Treads
Section 096519 – Resilient Tile Flooring
Section 096566.11 – Indoor Resilient Athletic Surfacing
Section 096623 – Thin-Set Epoxy Terrazzo Flooring
Section 096723.12 – Resinous Flooring (Accelera-C)
Section 096766 – Polyurethane Floor System
Section 096800 – Carpeting
Section 097700 – Special Wall Surfaces
Section 098129 – Sprayed Acoustical Applications
Section 098413 – Acoustical Wall Panels

Section 098413.11 – Sound-Absorbing Wall Panels
Section 099000 – Painting
Section 099600.11 – High-Performance Coatings (Scrubtough)

DIVISION 10 – SPECIALTIES

Section 101100 – Visual Display Units
Section 101400 – Signage
Section 101416 – Roof Identification Plaque
Section 101453 – Traffic Signage
Section 102119 – Plastic Toilet Compartments
~~Section 102226 – Operable Partitions~~
Section 102813 – Toilet Accessories
Section 104400 – Fire Extinguishers, Cabinets and Accessories
Section 105114 – Fully-Welded Athletic Lockers

DIVISION 11 – EQUIPMENT

Section 111200 – Parking Control Equipment

DIVISION 12 – FURNISHINGS

Section 122400 – Manual Operated Roller Shades
Section 123200 – Laboratory Wood Casework and Equipment
Section 123213 – Wood Casework and Classroom Wardrobe Units
Section 123216 – Manufactured Plastic-Laminate-Clad Casework

DIVISION 31 – EARTHWORK

Section 310000 – Earthwork
Section 310001 – Site Work General Provisions
Section 310002 – Stake Out
Section 311000 – Site Clearing
Section 312317 – Trenching
Section 312318 – Rock Removal
Section 312500 – Erosion and Sediment Controls
Section 312510 – Temporary Tree and Plant Protection

DIVISION 32 – EXTERIOR IMPROVEMENTS

Section 320116 – Cold Milling
Section 320117 – Pavement Repair and Resurfacing
Section 321216 – Asphalt Paving
Section 321216.11 – Asphalt Overlay
Section 321236 – Pavement Sealing
~~Section 321413.19 – Permeable Pre-Cast Concrete Unit Paving~~
Section 321640 – Granite Curbs
Section 321723 – Pavement Markings

Section 321913.14 – Playground Surfacing (Synthetic Grass)
~~Section 322700 – Site Furnishings~~
 Section 323113 – Vinyl Coated Chain Link Fences and Gates
 Section 323119 – Decorative Metal Fences and Gates
 Section 323223 – Segmented Retaining Walls
 Section 328000 – Irrigation System
 Section 329200 – Turf and Grasses
 Section 329219 – Seeding
 Section 329219.11 – Native Plant Seeding
 Section 329300 – Plants
 Section 329301 – Plant Maintenance

DIVISION 33 – UTILITIES

Section 333000 – Sanitary Sewage
 Section 334000 – Storm Drainage Utilities
 Section 334000.11 – Cleaning Existing Storm Water Drainage Systems
 Section 334010 – Storm Water Drainage Retention Structures
 Section 334100 – Reinforced Concrete Piping
 Section 334613 – Subsurface Drainage System (Foundation Walls)

Special Notes: General Work Contract (GC or GWC):

1. All exterior site work (walks, stairs, asphalt, etc.) is by the General Contractor.
2. General Contractor will include in their base bid to supply and install ¼" thick minimum of self-leveling for ALL areas receiving new flooring at all schools. The thickness will vary due to varying floor slab elevations from room to room, areas where chases and walls removed, ceramic tile removed, floor abatement, grind down high spots, etc. GC will closely review and bid accordingly to achieve a consistent flat and level floor at no additional cost to Owner.
3. All asbestos abatement work is by the General Contractor. GC is specifically notified that they will need to provide temporary framing/plywood protections to secure window wall openings after abatement is completed.
4. Access doors for MEP trades furnished by trade requiring access; installation by General Contractor.
5. All new windows to receive window shades.
6. Fire Alarm magnetic holders furnished and wired by Electrical Contractor, installed on door by the General Contractor.
7. In addition to daily general housekeeping, the General Contractor shall provide a weekly broom sweep and damp mop of all areas for the entire duration of the project.
8. For roof Skylight removals and install, General Contractor will abate area, cut hole, install wood blocking & flash for watertight installation using a roofer who is certified by the existing roof manufacturer to maintain warranty coverage. (Roof abatement and related patching for HVAC items will be by the General Contractor)

9. General Contractor will install floor protections (utilizing heavy duty “Ram-Board” with taped joints, or equivalent) to protect new floor surfaces from damage until final cleaning and acceptance by owner.

1.5 MECHANICAL WORK CONTRACT (MC, HVAC or HC)

In addition to the General Requirements, Division 1, included in this bid package contractor shall provide for proper completion of work as indicated on all drawings and in accordance with the terms and conditions described in the following specification sections:

DIVISION 02 – EXISTING CONDITIONS

Section 024119 – Selective Demolition (Building)

~~Section 028000 – Asbestos Work Under This Contract (As needed for Mechanical Work)~~

~~Section 029000 – Lead-Containing Materials Abatement (As needed for Mechanical Work)~~

DIVISION 03 – CONCRETE

Section 033000 – Cast-in-Place Concrete (For Mechanical related pads, etc.)

DIVISION 05 – METALS

Section 051200 – Structural Steel Framing (For Mechanical penetrations, etc.)

Section 055000 – Metal Fabrications (For Mechanical penetrations, etc.)

DIVISION 06 – WOODS, PLASTICS & COMPOSITES

Section 061000 – Rough Carpentry (For Mechanical related blocking, etc.)

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

Section 075323 – EPDM Roofing System Fully Adhered (As needed for Mechanical Work)

~~Section 075423 – TPO Roofing Fully Adhered (As needed for Mechanical Work)~~

Section 076000 – Flashing and Sheet Metal (As needed for Mechanical Work)

Section 078413 – Penetration Firestopping (As needed for Mechanical Work)

Section 079200 – Joint Sealants (As needed for Mechanical Work)

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

Section 230000 – General Provisions

Section 230010 – Codes, Standards and Permits

Section 230300 – Basic Mechanical Materials and Methods

Section 230400 – Painting of Mechanical Work

Section 230513 – Common Motor Requirements for HVAC Equipment

Section 230516 – Expansion Compensation

Section 230519 – Meters and Gauges for HVAC Piping

Section 230523 – General Duty Valves for HVAC Piping
 Section 230548 – Vibration Controls for HVAC
 Section 230580 – Mechanical Testing Requirements
 Section 230593 – HVAC Testing, Adjusting and Balancing
 Section 230680 – Fire Stopping
 Section 230700 – HVAC Insulation
 Section 230713 – Duct Insulation – Interior
 Section 230714 – Duct Insulation – Exterior
 Section 230800 – Commissioning of HVAC
 Section 230900 – Direct Digital Control System for HVAC
 Section 230923 – Automatic Temperature Control Systems (Andover)
 Section 230923.1 – Automatic Temperature Control Systems (Andover) – Maintenance Building
 Section 230923.2 – Sequence of Operations
 Section 231123 – Facility Natural-Gas Piping
 Section 232113 – Hydronic Piping
 Section 232116 – Hydronic Piping Specialties
 Section 232123 – Hydronic Pumps
 Section 232213 – Steam and Condensate Piping
 Section 232300 – Refrigeration Piping Systems
 Section 233000 – Air Distribution
 Section 233101 – Duct Cleaning
 Section 233113 – Ductwork
 Section 233300 – Duct Accessories
 Section 233400 – Fans
 Section 233543 – Variable Frequency Drives
 Section 233600 – Air Terminal Units
 Section 233713 – Diffusers, Registers and Grilles
 Section 234568 – Hydronic Finned Tube Radiation
 Section 235100 – Chimneys & Breeching
 Section 235200 – Cast Iron Boilers, Burners, Lead Lag Equipment
 Section 236000 – VRF System Indoor Evaporator Units (2 to 5 Ton)
 Section 236700 – VRF System Outdoor Condenser Units (6 to 42 Tons)
 Section 238126 – VRF System Outdoor Condenser Units (6 to 42 Tons)
 Section 238126.1 – VRF System Outdoor Condenser Units (1 to 3 Tons)
 Section 237406 – Packaged Rooftop Ventilators with Energy Recovery
 Section 237433 – Indoor Package Make-up Air Unit with Heating
 Section 237488 – Dedicated Outdoor Air Systems with Energy Recovery
 Section 238223 – Unit Ventilators
 Section 238236 – Heating & Cooling Terminal Units
 Section 238239.1 – Hydronic Cabinet Unit Heaters
 Section 238239.2 – Electric Cabinet Heaters

DIVISION 26 – ELECTRICAL

Section 260519 – Low Voltage Electrical Power Conductors and Cables (For HVAC control wiring)

Special Notes: Mechanical Work Contract (MC, HVAC or HC):

1. Access doors are furnished by the Mechanical Contractor and installed by the General Contractor.
2. All HVAC Louvers/vents are supplied and installed by the Mechanical Contractor. MC will make their own penetration cuts through existing walls, install lintels and/or new metal panels provided by the General Contractor.
3. Mechanical Contractor to provide finished end caps and/or trim necessary to properly finish off any areas where HVAC units have been cut into existing fin tube, cabinets, etc.
4. Mechanical related roofing work is by the Mechanical Contractor. MC will layout mechanical work, furnish new roof curbs and install new rooftop units. The General Contractor will cut holes, install steel supports/wood blocking, install curb/rails, flash, and provide watertight installation using roofer subcontractor who is approved by manufacturer of existing roofing system to maintain warranty. (Roof Skylight work is by General Contractor)
5. VFD's, disconnects, starters, etc. are to be supplied by the Mechanical Contractor, and will be installed by the Electrical Contractor, unless noted otherwise.
6. All HVAC control wiring is provided and installed by the Mechanical Contractor. (Power wiring to units by the Electrical Contractor)
7. Mechanical Contractor is responsible for making their own through wall and through floor duct/piping penetrations and associated patching/fire-stopping.
8. Any existing ceiling removal/replacement and modifications necessary to install new mechanical work to be done by the Mechanical Contractor.
9. Fire Alarm Duct detectors supplied and wired by the Electrical Contractor. (Mechanical Contractor installs the duct detector)
10. Solenoid valves supplied and installed by Mechanical Contractor will be wired by Electrical Contractor, unless noted otherwise.

1.6 ELECTRICAL WORK CONTRACT (EC)

In addition to the General Requirements, Division 1, included in this bid package contractor shall provide for proper completion of work as indicated on all drawings and in accordance with the terms and conditions described in the following specification sections.

DIVISION 02 – EXISTING CONDITIONS

Section 024119 – Selective Demolition (Building)

DIVISION 03 – CONCRETE

Section 033000 – Cast-in-Place Concrete (As needed for Electrical Work)

DIVISION 05 – METALS

Section 055000 – Metal Fabrications (As needed for Electrical Work)

DIVISION 06 – WOODS, PLASTICS & COMPOSITES

Section 061000 – Rough Carpentry (As needed for Electrical Work)

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

Section 078413 – Penetration Firestopping (As needed for Electrical Work)

DIVISION 26 – ELECTRICAL

Section 260500 – Common Work Results for Electrical

Section 260519 – Low Voltage Electrical Power Conductors and Cables

Section 260526 – Grounding and Bonding

Section 260529 – Fasteners, Attachments and Supporting Devices

Section 260532 – Raceways, Fittings and Accessories

Section 260534 – Outlet Junction and Pull Boxes

Section 260543 – Underground Cable and Conduit Systems

Section 260553 – Identification for Electrical Systems

Section 260810 – Mandatory UL Participation

Section 260924 – Lighting Controls - Lutron Vive

Section 260943 – Network Lighting Controls

~~Section 260943.13 – Wireless Network Lighting Controls~~

Section 262213 – Dry-Type Distribution Transformers

Section 262416 – Panelboards

Section 262726 – Wiring Devices

Section 262816 – Heavy Duty Safety Switches

Section 265100 – Interior Lighting

Section 265600 – Exterior Lighting

DIVISION 27 – COMMUNICATIONS

Section 271501 – Communications and Horizontal Cabling

Section 272000 – Data Communications Network Equipment

Section 274116 – Audio Visual Systems

Section 274116.10 – PA Sound System - Modify/Expand Existing System

~~Section 275313 – Synchronized Clock Systems~~

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

Section 281500 – Integrated Access Control Hardware

Section 281523.17 – Audio Video Intercom (IP)

Section 282100 – Surveillance Cameras

Section 284613.10 – Fire Alarm (Modify Existing)

DIVISION 31 – EARTHWORK

Section 310000 – Earthwork (as needed for Electrical Work)

Section 310001 – Site Work General Provisions (As needed for Electrical Work)

DIVISION 32 – EXTERIOR IMPROVEMENTS

Section 321216 – Asphalt Paving (As needed for Electrical Work)

Special Notes: Electrical Work Contract (EC)

1. Access doors if needed for electrical are furnished by Electrical Contractor and installed by General Contractor.
2. VFD's, disconnects, motor starters, etc. which are supplied by Mechanical Contractor will be installed by Electrical Contractor, unless noted otherwise.
3. Any excavation/backfill for electrical items (U/G conduits, site lighting bases, etc.) is by the Electrical Contractor. This includes proper backfill, compaction and restoration to original condition for any impacted surfaces.
4. Any existing ceiling removal/replacement necessary to install new electrical work to be done by the Electrical Contractor. (e.g. – new conduits for feeders through existing ceilings, etc.). In areas of ceiling removal, the EC will tie up and secure any low hanging wires, using zip ties at 6'-0" on center.
5. Electrical Contractor will relocate existing utilities which conflict with the new construction. (e.g. – wire mold on casework or window wall scheduled for replacement.
6. Fire Alarm magnetic holders furnished and wired by Electrical Contractor, Installed on door by the General Contractor.
7. All systems work is by Electrical Contractor – including Fire Alarm, Security, PA system Door Access, WAP's, Data, etc. (This includes removal and reinstallation of any devices impacted by new construction work).
8. Any wood blocking or panel backboards for electrical items by Electrical Contractor.
9. All concrete for electrical items is by Electrical Contractor. (Site Lighting bases, conduit encasement, etc.)
10. Electrical Contractor to wire any Fire Alarm duct detectors which are provided by the Mechanical Contractor.
11. Electrical Contractor is specifically notified construction is phased which necessitates that utilities & services will need to be temporarily connected and maintained as necessary to ensure that all occupied areas have the required services.
12. Solenoid valves supplied and installed by Mechanical Contractor will be wired by Electrical Contractor, unless noted otherwise.

1.7 PLUMBING WORK CONTRACT (PC)

In addition to the General Requirements, Division 1, included in this bid package contractor shall provide for proper completion of work as indicated on all drawings and in accordance with the terms and conditions described in the following specification sections.

DIVISION 02 – EXISTING CONDITIONS

Section 024119 – Selective Demolition (Building)

DIVISION 03 – CONCRETE

Section 033000 – Cast-in-Place Concrete (As needed for Plumbing Work)

DIVISION 05 – METALS

Section 055000 – Metal Fabrications (As needed for Plumbing Work)

DIVISION 06 – WOODS, PLASTICS & COMPOSITES

Section 061000 – Rough Carpentry (As needed for Plumbing Work)

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

Section 078413 – Penetration Firestopping (As needed for Plumbing Work)

DIVISION 21 – FIRE SUPPRESSION

Section 210500 – Fire Sprinkler Work included

DIVISION 22 – PLUMBING

Section 220000 – Plumbing General Provisions
Section 220010 – Codes, Standards & Permits
Section 220020 – Cutting and Patching
Section 220030 – Schedule of Equivalency
Section 220100 – Maintenance Instructions
Section 220300 – Plumbing Basic Materials & Methods
Section 220553 – Plumbing Identification Systems
Section 220555 – Access to Plumbing Work
Section 220680 – Fire Stopping
Section 220719 – Plumbing Insulation
Section 220801 – Plumbing Testing, Adjusting & Balancing
Section 221000 – Plumbing Piping Systems
Section 221316 – Sanitary Waste and Vent Piping
Section 221400 – Storm Water Piping
Section 224000 – Plumbing Fixtures and Trim

DIVISION 31 – EARTHWORK

Section 310000 – Earthwork (As needed for Plumbing Work)

Section 310001 – Site Work General Provisions (As needed for Plumbing Work)

DIVISION 33 – UTILITIES

Section 333000 – Sanitary Sewage (As needed for Plumbing Work)

Section 334000 – Storm Drainage Utilities (As needed for Plumbing Work)

Special Notes: Plumbing Work Contractor (PC):

1. Access doors are furnished by Plumbing Contractor and installed by General Contractor.
2. Any control wiring for plumbing supplied equipment is provided and installed by Plumbing Contractor. (Power wiring by Electrical Contractor)
3. Plumbing Contractor is responsible for making their own through wall and through floor piping penetrations and associated patching/fire-stopping.
4. Plumbing Contractor is responsible for any plumbing-related sub slab cut and patch. This includes existing slab sawcut, chop out concrete, excavation, sub slab piping, trench drains, backfill with 3/8" pea gravel, new concrete slab patch.
5. Plumbing related roofing work is by the Plumbing Contractor. PC to remove and install roof drains.

1.8 PRIME CONTRACTOR'S USE OF PREMISES

- A. Use of the Site: Limit use of the premises to work in areas indicated. Confine operations areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the work is indicated.
- B. Driveways and Entrances: Keep driveways and entrances serving the premises clear and available to the Owner, the Owner employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on site.
- C. Owner's representative(s) will cover the project for the standard Monday – Friday shift. If a contractor requests additional hours to make up schedule time or weekends, he will need to reimburse Owner for additional coverage or costs (e.g. – Architect, Construction Manager, etc.) at their contractual rate.
- D. General: Limitations on site usage as well as specific requirements that impact utilization are indicated on the drawings and by other contract documents. In addition to these limitations and requirements, the Contractor shall administer allocation of available space equitably among the separate sub-contractors and other entities needing access and space, so as to produce the best overall efficiency in performance of the total work of the project. The Contractor shall schedule deliveries to minimize space and time requirements for storage of materials and equipment on site.
- E. After the equipment is no longer required for the work, it shall be promptly removed from the project site. Protection of construction materials and equipment stored at the project site from weather, theft, damage and all other adversity is solely the responsibility of the Contractors.

- F. Do not unreasonably encumber the site with materials or equipment. Confine stockpiling of materials and location of storage sheds to the areas indicated. If additional storage is necessary, obtain and pay for such storage off-site.
- G. The Contractor(s) and any entity for which the Contractor is responsible shall not erect any sign of the Project site without the prior written consent from the Owner, which may be withheld in the sole discretion of the Owner.
- H. The Contractor(s) shall ensure that the work, at all times, is performed in a manner that affords reasonable access, both vehicular and pedestrian, to the site of the work and all adjacent areas. The work shall be performed, to the fullest extent reasonably possible, in such a manner that public areas adjacent to the site of the work shall be free from all debris, building materials, and equipment likely to cause hazardous conditions. Without limitation of any other provision of the Contract Documents, contractor shall use its best efforts to minimize any interference with the occupancy or beneficial use of: Any areas and building adjacent to the site of the work or the building in the event of partial occupancy.
- I. Maintain the building in a safe and weathertight condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building during the construction period.
- J. Each Prime Contractor is responsible for maintaining a safe jobsite. This includes actively reviewing their work areas to ensure that they are in compliance with all required OSHA regulations. It is a contract requirement that each contractor conducts weekly tool-box safety meetings to ensure that their employees are properly educated and utilizing safe work practices. (Copies of these weekly meetings and a list of the attendees will be forwarded to the CM Site Superintendent on a weekly basis). Contractors will comply with all requirements outlined in the General Conditions including providing their employees with PPE (personal protective equipment) such as masks, hand sanitizer, hard hats, proper work boots, safety harness, safety glasses, etc.
- K. Tobacco use in any form, drinking alcoholic beverages or open fires will not be permitted on the project site.
- L. Utility Outages and Shutdown:
 - 1. Limit the disruption of utility services to hours the building is unoccupied, weekends or holidays at no additional cost.
 - 2. Do not disrupt or shut down line safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days' notice to Owner and authorities having jurisdiction.
 - 3. Prevent accidental disruption of utility services to other facilities.
 - 4. All costs for manning of temporary shutdowns and utility crossovers, including 24-hour fire watch if necessary, are included in the contractor's bid regardless of weekend, holiday, etc

1.9 OCCUPANCY REQUIREMENTS

- A. Partial owner Occupancy: The Owner reserves the right to occupy the place and install equipment in completed areas of the work prior to Substantial Completion, provided such occupancy does not interfere with completion of the Work, such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.
- B. The Architect will prepare a Certificate of Substantial Completion for each specific portion of the work to be occupied prior to Owner occupancy.
- C. Obtain a Certificate of Occupancy from local building officials prior to Owner occupancy.
- D. Prior to partial Owner occupancy, mechanical and electrical systems shall be fully operational. Required inspections and tests shall have been successfully completed. Upon

occupancy, the Owner will operate and maintain mechanical and electrical systems serving occupied portions of the building.

- E. Upon occupancy, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building.

1.10 DEFINITIONS

- A. Definitions as applied to “Contractors” involved with the work of this Project:
 - 1. “The Contractor” or “Contractor” meaning that Respective Prime Contractor normally responsible for that work referenced;
 - 2. “Respective Prime Contractor” meaning either the – General Contractor, Plumbing, HVAC, Electrical, Sitework, Fire Protection Contractors normally responsible for the referenced work.
 - 3. “Trade Contractor” meaning that Respective Prime Contractor as above; and such other terms relating to Contractors to be taken in context with respect to referenced work.
 - 4. Further, wherein said Division 0 and 1 and respective Sections therein, any reference is made to “General Contractor”, same shall be construed to mean “Contractor for the General Construction, or General Work Contractor”.
- B. The Owner cannot guarantee the correctness of the existing conditions shown and assumes no responsibility therefore, it shall be the responsibility of the Contractor to visit the site and verify all existing conditions prior to bid.
- C. The Owner will purchase certain items required for the overall operation of this facility through outside vendors.
- D. The Contractor(s) will cooperate with said vendors as may be necessary to permit the work to be accomplished.
 - 1. The cooperation may extend to the receiving, unloading and placement of said equipment if directed by the Owner.
 - 2. Each Contractor is advised that the Owner may enter into separate contracts as may be in their best interest.
 - 3. Each Contractor is further advised that there will be a full on-site Project Representative/Construction Manager, whose duties will be defined at the pre-construction meeting.

1.11 ADDITIONAL SECURITY PROVISIONS

- A. All Contractors’ employees shall use a single means of access and egress, except in the case of emergency, to be designated by the Construction Manager.
- B. Each Contractor and each Subcontractor shall require his employees, while on the job site, to wear, in a conspicuous location, a photo I.D. button bearing the name of the employee and the Contractor. The buttons of each Contractor shall be numbered consecutively. An up-to-date list of all I.D. buttons, indicating the name and number for each employee, shall be furnished to the Construction Manager.

1.12 ASBESTOS AND LEAD PAINT AWARENESS REQUIREMENTS

- A. Contractor agrees not to use or permit the use of any asbestos containing material in or on any property belonging to the Owner.
- B. For purposes of this requirement, asbestos free shall mean free from all forms of asbestos, including - actinolite, amosite, anthophyllite, chrysotile, crocidolite and tremolite, both in friable and non-friable states and without regard to the purposes for which such material is used.

1.13 CONSTRUCTION TIME AND PHASING REQUIREMENTS

- A. Each Contractor is advised the “time is of the essence” of the Contract as defined in the “General Conditions” for the completion of the construction of the facility. It is understood that the work is to be carried through to completion with the utmost speed consistent with good workmanship.
- B. Time of Completion shall be as established in the Milestone Schedules (Section 011100).
- C. The Contractor shall maintain fences and barricades at all times and shall repair/ restore and/ or pay for any temporary fencing damaged by their work.
- D. Maintain at all times, all exits and walkways.
- E. Where the barricade is removed for work, the Contractor performing such work shall provide adequate safety personnel to prevent unauthorized persons from approaching the work area.
- F. Construction Phasing: The phasing and/ or milestone schedule contained in Section 011100 has been established for the overall construction of the project.
- G. Electrical and mechanical services to the functioning spaces shall be maintained at all times.
- H. Swing-overs to new facilities shall be made so as to cause the least interruption to the facilities’ operations.
- I. The Contractor shall provide and maintain all required separations between old and new construction to prevent:
 - 1. Unauthorized entrance to construction areas by others than Architect, Construction Manager, or Owner.
 - 2. Heat loss from existing building, water (rain or ground) infiltration into existing building.
- J. Exterior alteration and restoration, as required, may proceed outside of phasing schedule at the Contractor’s option with concurrence from the Architect, Construction Manager and Owner.
- K. Site development work shall proceed in such a manner to cause the least amount of disruption to the ongoing operations as possible.

1.14 PROOF OF ORDERS, DELIVERY DATES AND SUPPLY CHAIN TRACKING

- A. Within 2 weeks after the approval of shop drawings, samples, product data and the like, the Contractor shall provide copies of purchase orders for all equipment and materials which are not available in local stock. The Contractor shall submit written statements from suppliers confirming the orders and stating promised delivery dates. Failure to provide this critical information will result in Owner holding monthly requisition payments until received.

- B. To mitigate potential disruptions in material supply chains, the Contractor(s) must procure all necessary project materials in advance and store them onsite in their own Conex boxes. This requirement applies to commonly available materials such as piping, conduits, wire, and metal studs. The owner will compensate for these stored materials upon delivery to the jobsite, as outlined in Section 012900.
- C. This information shall be incorporated within the progress schedules so required as part of Section 013216 and 013300 and shall be monitored so as to ensure compliance with promised dates.

1.15 FIELD MEASUREMENTS

Each Respective Contractor shall take all necessary field measurements prior to fabrication and installation of work and shall assume complete responsibility for accuracy of same.

1.16 INITIAL SUBMITTAL REQUIREMENTS

As outlined in Division 01, each Contractor shall provide items noted including - bonds, insurance, emergency telephone numbers, progress scheduling, schedules of submittals, subcontractor listings and the like prior to the start of any work. The owner will not issue contracts until all bonds and insurance information is received by the contractor and verified correct.

1.17 SCHEDULES

The milestone schedule presented in the documents is for bidding and general purposes. Due to the nature of the work, it is the intention of the Construction Manager to negotiate actual work periods for the project among the various Prime Contractors involved with this bidding process, as well as separate contractors involved with other phases of the work solicited under separate proposals. Each Contractor shall, under terms of the General Conditions, mutually cooperate in the rescheduling of work to permit an uninterrupted use of the facilities by the Owner, without additional cost to the Owner.

General:

1. The objective of this project is to complete the overall work in the shortest period of time and to protect the building and occupants from damages caused by weather and construction activity during the progress of the work.
2. To meet these objectives, the Contractor shall plan the work, obtain materials, and execute the construction in the most expeditious manner possible in accordance with the requirements listed below.
3. If the Contractor fails to expedite and pursue any part of the work, the Owner may terminate the contract or may carry out the work with others per the General Conditions.
4. The Contractor shall work in coordination with work of other Contractors and Owner
5. All contractors are required to comply with proper sequencing of work and provide other prime contractors sufficient time to install their work (e/g/-metal stud walls get fully framed; MEP contractors perform roughing/testing/inspections; then walls are sheathed with gypsum – no sheet rocking one side unless CM approved). If contractor “boxes out” another prime contractor, he will be directed to stop work and open if necessary, to

enable other trades to complete their work. No compensation for lost time due to stop-work will be provided.

Milestone Schedule (See Section 01 11 00).

1.18 ADDITIONAL REQUIREMENTS

The following are additional general and special requirements which will govern the work of the projects covered by these Documents.

- A. If it appears that some of the work cannot be completed by the scheduled date, the Contractor shall increase the work force or increase the hours of work, including evenings and weekends as necessary, and cover any additional costs to the Owner, Architect and Construction Manager.
- B. If the work is complete but the area has not been cleaned or debris and equipment remain, the Owner and/or Construction Manager will notify the Contractor of the deficiencies. The Contractor will have up to four hours to clean the specified area(s) to the satisfaction of the Owner and/or Construction Manager. If the Contractor fails to do so, the Owner reserves the right to prepare the area for occupancy using their own resources and deduct the associated costs from the Contract amount.
- C. Contractor must plan, provide and maintain his own access, ramping and egress as required into and out of the site, staging of trailer(s), materials, machinery, and equipment in agreement with the Construction Manager's Superintendent. Maintain free and safe access on the jobsite for other related project personnel. Maintain safe pedestrian or vehicular traffic must be regulated by a flagman. Trucking and delivery operation should be coordinated with Construction Manager's Superintendent and all other trades.
- D. Contractor is responsible to maintain existing site fencing in its existing condition. Modifications of the fence to better accommodate the contract work can be discussed with the Construction Manager. These changes shall than be handled by this Contractor at his expense and in accordance with the Construction Manager's Superintendent's direction. Any cost incurred as a result of damages shall be charged to this Contractor.
- E. Contractor's personnel will not be permitted to use Owners facilities (including toilet, telephone, food services, etc.) for their own benefit. Contractor's Superintendent must explain this to all their field forces.
- F. Contractor shall limit his operations including storage of materials and prefabrication to areas within the Contract Limit Lines.
- G. Contractor shall coordinate the use of premises with the Owner and Construction Manager and shall move at his own expense any stored products under Contractor's control, including excavated material, which interfere with operations of the Owner or separate Contractors.
- H. Contractor shall obtain and pay for off-site storage as needed to maintain the Owner's use of their premises. The costs of any required storage shall not be an additional expense to the Owner.
- I. Contractor shall assume full responsibility for the protection and safekeeping of products under this Contract stored on the site and shall cooperate with the Construction Manager to ensure security for the Owner's Property.
- J. The intention of the work is to follow a logical sequence; however, the Contractor may be required by Construction Manger to temporarily omit or leave out any section of his work or perform his work out of sequence. All such out of sequence work and come back time to these areas shall be performed at no additional cost.
- K. Contractor shall submit a three-week (man-loaded work activity and area) to Construction Manager each week. Contractor's representative shall attend a weekly meeting with all

contractors, chaired by Construction Manager, for the purpose of job coordination and sequencing.

- L. Contractor is responsible to coordinate the job with other trades and Construction Manager, and to cooperate with other trades in pursuit of the overall project's coordination drawings and actively participate in resolving discrepancies, conflicts, interferences, etc.
- M. The Contractor shall take special care in verifying that his equipment matches the characteristics of the power being supplied.
- N. Any Contractor personnel including Project Managers, Supervisors, etc. who engage in any personal attacks, belligerent or threatening speech/texts, etc., to the Owner, or any of its agents, will be removed from working on the project.
- O. Unsafe practices, horseplay, abusive behavior or language, wanton destruction of property, use of drugs or alcohol, possession of firearms, and solicitation shall not be tolerated. There will be no warnings, and Contractor shall designate a responsible on-site Supervisor to handle any situations that may arise, including termination.
- P. Each Contractor is responsible to supply and install all blocking/bracing necessary to properly secure their work. This responsibility includes coordinating the installation in concealed areas without delaying other trades.
- Q. Union business shall not be conducted on site. Any Union representative that visits the site must declare what Contractor's personnel they represent and must be escorted by that Contractor's Union steward at all times. No visitors, sales representatives or non-working personnel shall be permitted on site without prior consent of the Construction Manager. No photographs shall be taken without the Construction Manager's prior approval.
- R. Contractor shall provide protection from damage to adjacent and adjoining work and/or structures. Contractor shall clean, repair and/or replace any damage for which this Contractor is responsible.
- S. Contractor shall submit hourly rate sheets that would apply to time and material work for all pertinent trades upon Award of Contract.
- T. Contractor shall examine surfaces and conditions prior to start of work. Report unacceptable conditions to the Construction Manager. Do not proceed until unacceptable conditions are corrected and acceptable. Starting work implies acceptance of existing conditions.
- U. Each Prime Contractor shall include general housekeeping of light debris. All debris from each Prime Contractor will be collected daily and disposed of into their dumpsters. In addition to daily general housekeeping, the General Work Contractor shall provide a weekly broom sweep and damp mop of all areas for the entire duration of the project. The broom sweep shall include debris from all trades working on site.
- V. Sleeves and Sleeve Layout – It is the responsibility of the Prime Contractor requiring a sleeve to provide the sleeve and a layout sketch to the Prime Contractor performing the construction activity that the sleeve goes in.
- W. Limited site space is available in areas as designated by the Construction Manager. Construction trade parking is not permitted in Owner's employee parking lot.
- X. Prior to commencing the work, each Contractor shall provide written acceptance of grades, structures, substrates, and/or systems installed by other Contractors as suitable for installation of his work. Failure to provide this verification prior to commencing work shall constitute acceptance of the existing conditions.
- Y. Each Contractor shall coordinate with the Construction Manager for lay down areas, staging areas, and overall use of project site.
- Z. All Contractors and their employees, subcontractors and supplier are expressly prohibited from entering the occupied areas of the school building during school hours without prior written permission of the Construction Manager and for using any of its facilities (i.e. restrooms, cafeteria, etc.).
- AA. No recycled import fill materials are permitted.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 011000