

## **BID ADDENDUM NO. 1**

January 11, 2021  
Horseheads Central School District  
Elementary School PH II  
1923.044

07-09-01-06-0-006-017 – Big Flats Elementary  
07-09-01-06-5-005-015 – Bus Garage  
07-09-01-06-0-003-021 – Center Street Elementary  
07-09-01-06-0-012-019 – Gardner Road Elementary  
07-09-01-06-0-008-018 – Ridge Road Elementary

The following Addendum items shall be considered a part of the contract documents prepared by HUNT ENGINEERS, ARCHITECTS, LAND SURVEYORS & LANDSCAPE ARCHITECT, DPC.  
Bid Document date of January 6, 2021

### **Clarifications issued by this Addendum:**

1. None

### **Project Manual Sections issued by this Addendum:**

00 72 00 – Roof Accessories

### **Drawings issued by this Addendum:**

None

### **Revisions to Project Manual issued by this Addendum:**

**ITEM AD1-1 Refer to 00 01 12 Table of Contents**

**ADD** Specification Section 00 72 00 – Roof Accessories

**ITEM AD1-2 Refer to Section 01 10 00 - Summary**

**DELETE** Specification section in its entirety.

**ADD** Specification section 01 10 00 – Summary, issued by this addendum.

**ITEM AD1-3 Refer to Section 01 50 00 – Temporary Facilities and Controls**

**AMEND** Section 1.13 to read as follows:

**1.13 WASTE REMOVAL AND PROGRESS CLEANING**

A. See Section 01 74 19 - Construction Waste Management and Disposal, for additional requirements.

B. Each Contractor on the Project is responsible for general clean-up and trash removal resulting from the work or employees of that contract, on a daily basis. This requirement will be enforced and will result in cost assessment against the Contractor who fails to perform daily cleanup.

1. Comply with requirements of NFPA 241 for removal of combustible waste material and debris.
2. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing spaces.

C. Dumpsters

1. The General Trades Contractor shall provide dumpster(s) as required for the purpose of trash removal for all Contractors, unless noted otherwise.
2. The Roofing Prime Contractor shall provide dumpster(s) as required for the purpose of trash removal related to the Work of their contract.
3. In every instance, the Prime contractor responsible for providing each dumpster shall be responsible for:
  - a. The cost of all disposal fees associated with each dumpster provided.
  - b. Flattening or crushing all trash as necessary when placed into the dumpster.
4. Dumpsters shall be located at the site, accessible to building and roads.
5. Hazardous materials shall not be placed in dumpsters, but shall be removed from the site by the Contractor's licensed subcontractor responsible for the material.
6. Contractors may load legally acceptable construction debris to the designated dumpster (from this project only).
7. Dumpsters shall remain on the project until project completion, or as directed by the Construction Manager.

D. The Construction Manager shall coordinate the following:

1. The location and placement of all dumpsters.
2. The organization of weekly project clean up with Each Contractor.
  - a. All Contractors on site shall provide labor to assist in this clean up.

E. The General Trades Contractor will be responsible for weekly broom cleaning of all floor surfaces, for dust, dirt and general trash. He will deposit the same in the dumpster.

F. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.

G. Remove trash from site weekly or when dumpster is full.

- H. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the Authorities having jurisdiction.
- I. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

**Revisions to Drawings issued by this Addendum:**

**None**

End of Addendum 1

SECTION 01 10 00  
SUMMARY

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Project Identification
- B. Work covered by Contract Documents
- C. Work Sequence
- D. Contractor use of Premises
- E. Occupancy Requirements

1.2 RELATED REQUIREMENTS

- A. Section 01 50 00 - Temporary Facilities and Controls

1.3 PROJECT

- A. Project Name: Elementary School Phase II  
Contract Documents, dated January 6, 2021 were prepared for the Project by Hunt Engineers, Architects, Land Surveyors & Landscape Architect, DPC, Airport Corporate Park, 100 Hunt Center, Horseheads, NY 14845-1019.
- B. Owner's Name: Horseheads Central School District.  
1 Raider Lane  
Horseheads, NY 14845
- C. Architect's Name: Hunt Engineers, Architects, Land Surveyors & Landscape Architect, DPC.  
Airport Corporate Park  
100 Hunt Center  
Horseheads, NY 14845-1019  
Phone: 607-358-1000  
Fax: 607-358-1800  
Contact: Chad Snowburg
- D. Construction Manager: Welliver, Inc.  
250 N Genesee Street  
Montour Falls, NY 14865  
Phone: (607) 481-2499  
Contact: Brian McGurgan
- E. The Project consists of the replacement of asphalt and roofing at multiple project sites as well as mechanical, electrical upgrades at multiple buildings and classroom renovations.

1.4 CONTRACT DESCRIPTION

- A. The project will be constructed under a multiple Prime Contract Agreement.
  - 1. Prime Contracts are separate contracts between the Owner and independent contractors, representing significant construction activities. Each Prime Contract is performed concurrently, and closely coordinated, with construction activities performed on the Project under other Prime Contracts.
- B. Prime Contracts for this Project include:

1. Bid Prime Contracts:
  - a. General Trades
  - b. Mechanical
  - c. Electrical
  - d. Plumbing
  - e. The work of each separate Bid Prime Contract is identified in this section .
2. Cooperative Purchase Prime Contracts:
  - a. Building Controls.
  - b. Security.
  - c. Roofing.
  - d. The work of each separate Cooperative Purchase Prime Contract is identified in this section .

#### 1.5 OWNER OCCUPANCY

- A. Owner intends to occupy the Project upon Substantial Completion.
- B. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.
- C. Schedule the Work to accommodate Owner occupancy.
  1. 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.
  2. Upon occupancy, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building. However, the Owner will not clean up behind contractors; responsibility for any debris caused by contractor operations remains with the Prime Contractor.
- D. The Owner reserves the right to occupy and to place and install equipment in completed areas of the building prior to Substantial Completion, provided that 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. Cooperate fully with the Owner or its representatives and Architect/Engineer during construction operations to minimize conflicts and facilitate owner's usage.

#### 1.6 CONTRACTOR USE OF SITE AND PREMISES

- A. Construction Operations: Limited to areas noted on Drawings. Do not disturb portions of the site beyond the areas in which the work is indicated.
- B. Arrange use of site and premises to allow:
  1. Owner occupancy.
  2. Work by Others.
  3. Use of site and premises by the public.
- C. Provide access to and from site as required by law and by Owner:
  1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
    - a. All exit and escape windows shall be maintained at all times.
  2. Do not obstruct roadways, sidewalks, or other public ways without permit.
  3. Do not use driveways, entrances or sidewalks for parking or storage of materials.
  4. Keep temporary driveways and entrances serving the premises clear and available to the Owner, Architect, Construction Manager and emergency vehicles at all times.
- D. Existing building spaces may not be used for storage.
- E. Time Restrictions:

1. Work hours shall be between the hours of 8:00 AM and 5:00 PM daily, Monday through Friday, except when it interferes with the Owner's activities.
    - a. Shift work between the hours of 3:30 PM and 7:00 AM, or on weekends, may occur with the permission the Construction Manager.
  2. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- F. Any work that requires disruption to the occupants, entry/exits, utilities, etc shall be coordinated with and approved by the Construction Manager.
- G. Utility Outages and Shutdown:
1. Limit disruption of utility services to hours the building is unoccupied.
  2. Do not disrupt or shut down life 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.
- H. Construction Staging Area:
1. Contractors will be instructed to use designated staging/parking areas before start of construction.
  2. All staging of equipment, trailers, storage containers, etc to be coordinated through the Construction Manager and cannot interfere with any other Contractor's work.
  3. Activity in the staging area shall be conducted in a manner that causes minimal disruption of the Owner's activities.

#### 1.7 WORK SEQUENCE

- A. All Work will be conducted in a number of continuous phases to provide the least possible interference to the activities of the Owner's personnel and to permit the facilities to be partially utilized during implementation of the work.
1. The Contractor is expressly forewarned that impacts to the construction schedule during any phase or portion of the project will not be permitted.
- B. Schedule: Refer to the milestone / phasing schedule included in Section 01 32 16 - Construction Progress Schedule.
- C. Should overtime or second shift work be required by a Prime Contractor to ensure the completion within the specified (phased) schedule, all costs for this work is the responsibility of the Contractor. The Construction Manager shall have the authority to direct the contractors and subcontractors to work overtime including weekends to maintain the schedule at no additional cost to the Owner. Prime Contractors warrant that the work shall be physically complete, including punch list, startup, and commissioning, within the early start and late finish schedule milestones.
- D. Each Prime Contractor shall provide multiple crews to maintain project schedule. Each crew is to be furnished with its own supervision, cranes, scaffold and other means necessary to maintain the Project Schedule.
- E. The intention of the work is to follow a logical sequence; however, the Prime Contractor may be required by the Construction Manager 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 returning to these areas shall be at no additional cost to the Owner.
- F. Each Contractor is responsible for supervision of their Sub-Contractors at all times.

#### 1.8 REQUIREMENTS OF ALL CONTRACTS

- A. Extent of Contract: Unless the Contract Documents contain a more specific description of the Work, names and terminology on Drawings and in Specification Sections determine which contract includes a specific element of Project.

1. Unless otherwise indicated, the Work described in this section for each contract shall be complete systems and assemblies, including products, components, accessories, and installation required by the Contract Documents.
  2. Local custom and trade-union jurisdictional settlements do not control the scope of the Work of each contract. When a potential jurisdictional dispute or similar interruption of work is first identified or threatened, affected contractors shall negotiate a reasonable settlement to avoid or minimize interruption and delays.
  3. Trenches for the Work of each contract shall be provided by each contractor for its own Work. For trenches at existing interior slab on grade concrete slabs:
    - a. The Contractor requiring the trench shall mark out location of required trench.
    - b. The General Trades contractor shall saw cut and remove the concrete.
    - c. The Contractor requiring the trench shall excavate; install the work; backfill and compact up to the subbase level.
    - d. The General Trades contractor shall install the base material and repair the concrete slab as detailed on the contract documents.
  4. Cutting and patching for the Work of each contract shall be provided by each contractor for its own Work, except as outlined for trenches above.
  5. Firestopping for the Work of each contract shall be provided by each contractor for its own Work.
  6. Within ten (10) working days after preliminary horizontal bar-chart-type construction schedule submittal has been received from General Trades Contractor, submit a matching preliminary horizontal bar-chart schedule showing construction operations sequenced and coordinated with overall construction.
- B. One set of documents is issued covering all Prime Contracts. EACH PRIME CONTRACTOR shall be responsible for all work shown on all drawings and sections for complete understanding and knowledge of the work. All Prime Contractors are responsible for all work under their contract no matter what drawing, specification or related specification in which that work appears, including drawings of other trade disciplines.
- C. The Following Drawings and Specifications are specifically included and defined as integral to EACH Prime Contract:
1. Drawings:
    - a. G1.1 - Symbols and Abbreviations.
    - b. CO Series - Code Compliance Plans.
  2. Specifications:
    - a. Division 00 - Procurement and Contracting Requirements
      - 1) All Specification Sections within this Division are owned by ALL contracts, with the following exceptions:
      - 2) The following Specification Sections shall be integral and exclusive to BID PRIME CONTRACTS:
        - (a) Section 00 11 13 - Advertisement for Bids
        - (b) Section 00 21 14 - Instructions to Bidders (AIA A701)
        - (c) Section 00 41 13 - Bid Form
        - (d) Section 00 41 14 - Non-Collusive Bidding Certification
        - (e) Section 00 45 00 - Bid Bond
      - 3) The following Specification Sections shall be integral and exclusive to COOPERATIVE PURCHASE PRIME CONTRACTS:
        - (a) Section 00 21 16 - Instructions to Proposers
        - (b) Section 00 42 00 - Proposal Form
    - b. Division 01 - General Requirements:
      - 1) All Specification Sections within this Division are owned by ALL contracts.
    - c. Division 02 - Existing Conditions:
      - 1) Specification Section 02 41 00 – Selective Structural Demolition
    - d. Division 07 - Thermal and Moisture Protection
      - 1) Specification Section 07 84 00 - Firestopping:

- (a) All contractors to provide Firestopping for their own trade's penetrations through all fire-rated walls.
    - 2) Specification Section 07 92 00 - Joint Protection:
      - (a) All contractors to provide joint protection of their own trade's work.
  - e. Division 08 - Openings:
    - 1) Specification Section 08 31 00 - Access Doors and Panels
      - (a) All contractors to furnish Access Doors and Panels for their own trade's work.
      - (b) Access Doors and Panels to be installed by General Trades Contractor.
      - (c) Include locations of Access Doors and Panels in shop drawings and furnish to General Trades Contractor.
  - f. Division 09 - Finishes
    - 1) All contractors to refer to Room Finish Schedule and all Finish Keys within drawings in coordination with all finishes for each trade.
- D. Substitutions: Each contractor shall cooperate with other contractors involved to coordinate approved substitutions with remainder of the Work.
- E. Temporary Facilities and Controls: In addition to specific responsibilities for temporary facilities and controls indicated in this Section and in Section 01 50 00 - Temporary Facilities and Controls, each contractor is responsible for the following:
  - 1. The Contractors shall assist the Architect and Owner in identifying a plan detailing how exiting required by the applicable building code will be maintained, and a plan detailing how adequate ventilation will be maintained during construction.
  - 2. Installation, operation, maintenance, and removal of each temporary facility usually considered as its own normal construction activity, and costs and use charges associated with each facility.
  - 3. Plug-in electric power cords and extension cords, supplementary plug-in task lighting, and special lighting necessary exclusively for its own activities.
  - 4. Its own field office, complete with necessary furniture, utilities, and telephone service. The Contractor shall provide leveling, stone, and/or removals necessary to install Field Offices. At end of construction, when field offices are removed, each Contractor is responsible to return the area to its original condition, including any re-seeding required.
  - 5. Its own storage and fabrication sheds.
  - 6. Temporary enclosures for its own construction activities.
  - 7. Hoisting requirements for its own construction activities, including hoisting material or equipment into spaces below grade, and hoisting requirements outside building enclosure.
  - 8. Progress cleaning of its own areas on a daily basis.
  - 9. Secure lockup of its own tools, materials, and equipment.
  - 10. Construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities.
  - 11. Responding to the most current guidelines outlined by the Centers for Disease Control and Prevention (CDC) and the Occupational Safety and Health Administration (OSHA) Guidance on Preparing Workplaces for COVID-19 (OSHA 3990-03 2020) shall:
    - a. Develop an Infectious Disease Preparedness Plan.
    - b. Prepare and Implement Basic Infection Prevention Measures and Training.
    - c. Implement Workplace Controls.
- F. Temporary Heating, Cooling and Ventilation: The HVAC Contract is responsible for temporary heating, cooling, and ventilation.

#### 1.9 CONTRACT NO. 1 - GENERAL CONSTRUCTION

- A. The General Trades Contractor shall be responsible for all work shown on Abatement (AB), Architectural (A), Landscape (L), and Structural (S) Drawings unless noted otherwise and any site work shown on all other drawings and further defined below:



1. Division 02 - Existing Conditions.
    - a. Provide the complete work of Specification Section 02 21 10 - Asbestos Abatement, except that work which is related to the Roofing Contract.
    - b. Provide the complete work of Specification Section 02 41 00 - (PCB) Polychlorinated Biphenyl Remediation, except that work which is related to the Roofing Contract.
  2. Division 03 - Concrete
    - a. Provide the complete work of Specification Section 03 54 00 - Cast Underlayment.
  3. Provide the complete work of Division 04 - Masonry.
  4. Provide the complete work of Division 05 - Metals, unless noted otherwise.
  5. Provide the complete work of Division 06 - Wood, Plastic and Composites except as noted below:
    - a. Provide ALL wood blocking on this project with the exception of wood blocking required for roofing.
    - b. Coordinate wood blocking with all other Primes and any Owner furnished equipment to ensure all wood blocking is in place prior to wall enclosure. Cutting and patching after wall enclosure will be at the cost of the General Contractor.
  6. Division 07 - Thermal and Moisture Protection
    - a. Provide the complete work of Specification Section 07 21 00 - Thermal Insulation.
    - b. Provide the complete work of Specification Section 07 25 00 - Weather Barriers.
      - 1) Coordinate connection of all weather barriers associated with new and replacement roofing, where required.
    - c. Provide the complete work of Specification Section 07 42 13 - Metal Wall Panels.
  7. Provide the complete work of Division 08 - Openings as noted:
    - a. Install Access Doors and Panels furnished by other contractors.
    - b. Section 08 71 00 - Door Hardware
      - 1) Power, Access Control, and Fire Alarm wiring and final connections provided by Electrical Contractor.
  8. Provide the complete work of Division 09 - Finishes.
  9. Provide the complete work of Division 10 - Specialties.
  10. Provide the complete work of Division 12 - Furnishings.
  11. Provide the complete work of Division 31 - Earthwork
  12. Provide the complete work of Division 32 - Exterior Improvements
  13. Provide the complete work of Division 33 - Utilities
- B. Furnish and install all labor, material, supervision, equipment, scaffolding, layout, engineering, deliveries, trucking, hoisting, rigging, shop drawings, submittals, and all other items related and required to complete all General Trades Work in accordance with the Contract Documents and all applicable codes having jurisdiction.
- C. The Contractor represents they have expertise in the performance of Work for this trade and assures all items to be complete, functional and installed in accordance with the best practices consistent with premium quality material and workmanship.

#### 1.10 CONTRACT NO. 2 - PLUMBING

- A. The Plumbing Contractor shall be responsible for all work shown on the Plumbing (P) Drawings and any plumbing work shown on all other drawings and specifications and further defined below:
1. Division 02 - Existing Conditions:
    - a. Specification Section 02 41 00 – Selective Structural Demolition:
      - 1) Plumbing Contractor to be responsible for all demolition of items shown on plumbing drawings as well as all plumbing connections to equipment or devices to be demolished by other contractors.
  2. Provide the complete work of Division 22 - Plumbing.
- B. Furnish and install all labor, material, supervision, equipment, scaffolding, layout, engineering, deliveries, trucking, hoisting, rigging, shop drawings, submittals, and all other items related and

required to complete all Plumbing Work in accordance with the Contract Documents and all applicable codes having jurisdiction.

- C. The Contractor represents they have expertise in the performance of Work for this trade and assures all items to be complete, functional and installed in accordance with the best practices consistent with premium quality material and workmanship.

#### 1.11 CONTRACT NO. 3 - MECHANICAL

- A. The Mechanical Contractor shall be responsible for all work shown on the Mechanical (H) Drawings and any mechanical work shown on all other drawings and specifications and further defined below:
  - 1. Division 02 - Existing Conditions:
    - a. Specification Section 02 41 00 – Selective Structural Demolition
      - 1) Mechanical Contractor to be responsible for all demolition of items shown on Mechanical Drawings as well as all mechanical connections to equipment or devices to be demolished by other contractors.
  - 2. Division 05 - Metals
    - a. Specification Section 05 50 00 - Metal Fabrications
      - 1) Mechanical Contractor to provide steel lintels for structural openings necessitated by the cutting and patching work of their contract, whether indicated or not.
  - 3. Division 07 - Thermal and Moisture Protection
    - a. Specification Section 07 72 00 - Roof Accessories
      - 1) Furnish all new curbs and rails at rooftop equipment indicated, to be installed by the Roofing Contractor.
  - 4. Division 22 - Plumbing:
    - a. Specification Section 22 10 05 - Plumbing Piping And Specialties limited to:
      - 1) Final connections of equipment condensate made by HVAC Contractor. Storm Water taps provided by Plumbing Contractor.
  - 5. Provide the complete work of Division 23 - Heating, Ventilating and Air-Conditioning (HVAC), with the following exceptions:
    - a. Specification Section 23 09 23 - Direct-Digital Control System for HVAC.
    - b. Specification Section 23 09 93 - Sequence of Operations for HVAC Controls.
    - c. Mechanical Contractor shall coordinate with the Building Controls Contractor for the work of these Sections.
- B. Furnish and install all labor, material, supervision, equipment, scaffolding, layout, engineering, deliveries, trucking, hoisting, rigging, shop drawings, submittals, and all other items related and required to complete all Mechanical Work in accordance with the Contract Documents and all applicable codes having jurisdiction.
- C. The Contractor represents they have expertise in the performance of Work for this trade and assures all items to be complete, functional and installed in accordance with the best practices consistent with premium quality material and workmanship.

#### 1.12 CONTRACT NO. 4 - ELECTRICAL

- A. The Electrical Contractor shall be responsible for all work shown on Electrical (E) and Technology (T) Drawings unless noted otherwise, and any electrical work shown on all other drawings and further defined below:
  - 1. Division 02 - Existing Conditions:
    - a. Specification section 02 41 00 - Selective Structural Demolition:
      - 1) Electrical contractor to be responsible for all demolition of items shown on electrical drawings as well as all electrical feeds to equipment or devices to be demolished by other contractors.
  - 2. Division 06 - Wood, Plastic and Composites:

- a. Specification Section 06 41 00 - Architectural Wood Casework including but not limited to:
  - 1) Any lighting and electrical work associated with Architectural Wood Casework
3. Division 08 - Openings:
  - a. Specification Section 08 71 00 - Door Hardware including but not limited to:
    - 1) Fire Alarm connection at all electrically operated hardware.
    - 2) Provide power, signal cabling, and final connection to all electrically operated hardware.
4. Division 23 - Heating, Ventilating and Air-Conditioning (HVAC):
  - a. Specification Section 23 21 23 - Hydronic Pumps including but not limited to:
    - 1) Provide electrical connections to all Hydronic Pump equipment per manufacturers' requirements necessary for equipment to operate as intended.
  - b. Specification Section 23 33 00 - Air Duct Accessories including but not limited to:
    - 1) Provide electrical connections to all Air duct Accessories per manufacturers' requirements necessary for equipment to operate as intended.
  - c. Specification Section 23 34 23 - Hvac Power Ventilators including but not limited to:
    - 1) Provide electrical connections to all HVAC Power Ventilator equipment per manufacturers' requirements necessary for equipment to operate as intended.
  - d. Specification Section 23 35 16 - Engine Exhaust Systems including but not limited to:
    - 1) Provide electrical connections to all Engine Exhaust Systems equipment per manufacturers' requirements necessary for equipment to operate as intended.
  - e. Specification Section 23 81 01 - Terminal Heat Transfer Units including but not limited to:
    - 1) Provide electrical connections to all Terminal Heat Transfer Unit equipment, per manufacturer's requirements, necessary for equipment to operate as intended.
5. Provide complete the work of Division 26 - Electrical
6. Provide the complete work of Division 27 - Communications
7. Division 28 - Electronic Safety and Security
  - a. Specification Section 28 10 00 - Access Control
    - 1) Install specified equipment and provide power, cabling, and final connections to all access control equipment.
  - b. Specification Section 28 31 11 - Building Intrusion Detection
    - 1) Install specified equipment and provide power, cabling, and final connections to all building intrusion detection equipment.
- B. Furnish and install all labor, material, supervision, equipment, scaffolding, layout, engineering, deliveries, trucking, hoisting, rigging, shop drawings, submittals, and all other items related and required to complete all Electrical Work in accordance with the Contract Documents and all applicable codes having jurisdiction.
- C. The Contractor represents they have expertise in the performance of Work for this trade and assures all items to be complete, functional and installed in accordance with the best practices consistent with premium quality material and workmanship.
- D. The Contractor shall provide Installer Certification as part of the descoping process as outlined in the Submittals portion of Section 27 10 05 - Communications Copper Cabling.

#### 1.13 COOPERATIVE PURCHASE PRIME CONTRACT NO. 5 - BUILDING CONTROLS

- A. The Building Controls Contractor shall be responsible for all building controls work shown on Mechanical (H), Electrical (E) and Technology (T) Drawings unless noted otherwise, and any building controls work shown on all other drawings and further defined below:
  1. Division 23 - Heating, Ventilating, and Air-conditioning:
    - a. Provide the complete work of Specification Section 23 09 23 - Direct Digital Control System for HVAC.

- b. Provide the complete work of Specification Section 23 09 93 - Sequence of Operations for HVAC Controls.
  - c. Coordinate this work with the Mechanical Contractor.
- B. Furnish and install all labor, material, supervision, equipment, scaffolding, layout, engineering, deliveries, trucking, hoisting, rigging, shop drawings, submittals, and all other items related and required to complete all Building Controls Work in accordance with the Contract Documents and all applicable codes having jurisdiction.
- C. The Contractor represents they have expertise in the performance of Work for this trade and assures all items to be complete, functional and installed in accordance with the best practices consistent with premium quality material and workmanship.

#### 1.14 COOPERATIVE PURCHASE PRIME CONTRACT NO. 6 - SECURITY

- A. The Security Contractor shall be responsible for all security work shown on Electrical (E) and Technology (T) Drawings unless noted otherwise, and any security work shown on all other drawings and further defined below:
- 1. Division 08 - Openings
    - a. Specification Section 08 71 00 - Door Hardware:
      - 1) Provide all access control circuitry to all electrically operated door hardware.
  - 2. Division 28 - Electronic Safety and Security:
    - a. Specification Section 28 10 00 - Access Control.
      - 1) Furnish equipment and provide commissioning and programming of all access control equipment.
    - b. Specification Section 28 31 11 - Building Intrusion Detection.
      - 1) Furnish equipment and provide commissioning and programming of all building intrusion detection equipment.
- B. Furnish and install all labor, material, supervision, equipment, scaffolding, layout, engineering, deliveries, trucking, hoisting, rigging, shop drawings, submittals, and all other items related and required to complete all Security Work in accordance with the Contract Documents and all applicable codes having jurisdiction.
- C. The Contractor represents they have expertise in the performance of Work for this trade and assures all items to be complete, functional and installed in accordance with the best practices consistent with premium quality material and workmanship.

#### 1.15 COOPERATIVE PURCHASE PRIME CONTRACT NO. 7 - ROOFING

- A. The Roofing Contractor shall be responsible for all roofing work shown on Architectural (A) and Asbestos Abatement (AB) Drawings as it pertains to asbestos removal on all roof and roofing accessories, unless noted otherwise, and any roofing work shown on all other drawings and further defined below:
- 1. Division 02 - Existing Conditions
    - a. Roofing Contractor to be responsible for all demolition of roofing materials including existing insulation, membrane, blocking, etc. as it pertains to the work of the Roofing Contract.
    - b. Provide the complete work of Specification Section 02 21 10 - Asbestos Abatement, as it pertains to the work of the Roofing Contract.
    - c. Provide the complete work of Specification Section 02 41 00 - (PCB) Polychlorinated Biphenyl Remediation, as it pertains to the work of the Roofing Contract.
  - 2. Division 06 - Wood, Plastics, Composites
    - a. Specification Section 06 10 00 - Rough Carpentry
      - 1) All roofing associated wood blocking including wood blocking for curbs, edge trim, etc.
  - 3. Division 07 - Thermal and Moisture Protection

- a. Specification Section 07 25 00 - Weather Barriers
    - 1) Coordinate connection of all weather barriers associated with new and replacement roofing with other contracts, where required.
  - b. Provide the complete work of Specification Section 07 53 00 - Elastomeric Membrane Roofing.
  - c. Provide the complete work of Specification Section 07 62 00 - Sheet Metal Flashing and Trim.
  - d. Provide the complete work of Specification Section 07 71 00 - Roof Specialties.
  - e. Specification Section 07 72 00 - Roof Accessories
    - 1) Install new roof curbs and rails for rooftop equipment furnished by the Mechanical Contractor.
4. Division 08 - Openings
- a. Specification Section 08 63 00 - Metal-Framed Skylights
    - 1) Provide curb flashing for new skylight by General Contractor.
- B. Furnish and install all labor, material, supervision, equipment, scaffolding, layout, engineering, deliveries, trucking, hoisting, rigging, shop drawings, submittals, and all other items related and required to complete all Roofing Work in accordance with the Contract Documents and all applicable codes having jurisdiction.
- C. The Contractor represents they have expertise in the performance of Work for this trade and assures all items to be complete, functional and installed in accordance with the best practices consistent with premium quality material and workmanship.

#### 1.16 ADDITIONAL NOTES TO CONTRACT DOCUMENTS

- A. The following notes are integral to each Prime Contract:
- 1. All bidders are forewarned to review all information of the Contract Documents.
  - 2. Review Section 01 21 00 for Allowances that may be included in Prime Contractors scope of work.
  - 3. Review Section 01 22 00 for Unit Prices that may be included in Prime Contractors scope of work.
  - 4. Review Section 01 23 00 for Alternate bid pricing required in Prime Contractors scope of work.
  - 5. Review Section 01 50 00 for work requirements of temporary construction activities in Prime Contractor's scope of work.
  - 6. All contractors are responsible for the layout and survey of their own work or work requirements.
  - 7. All contractors are required to construct the project per the phasing and staging plan. Specific areas of the site and building must be completed for the intended use by the Owner, at the Milestone dates so listed. All contractors shall cooperate fully with the intentions of the plan. Contractors are forewarned that any delay caused indirectly or directly by the acts, omissions, and/or failure to perform by a contractor will result in the Owner, or its agents, accomplishing the work by any means possible. The contractor causing the delay will be responsible for any and all costs associated with such issues, including Owner costs, Architect/Engineer costs, inspections, etc.
  - 8. All Contractors shall provide any and all temporary shoring, bracing, supports or protection systems necessary to expedite the work requirements including the maintenance of worker safety.
  - 9. All contractors are responsible for the safety of their own workers, subcontractors, work area, and other personnel on site. Each and every contractor is responsible for maintaining a safe work site and utilizing best safety procedures.
  - 10. In case of discrepancy between the Drawings and Specifications, interpretation shall be given preference in the following order, with later dates taking precedence over earlier dates:
    - a. Addenda
    - b. Amendments to the Drawings and Specifications

- c. Drawings and Specifications
  - d. Schedules, Piping & Wiring Diagrams take precedence over other data shown on the drawings.
  - e. Notes take precedence over other data shown on the drawings, except Schedules, Piping & Wiring Diagrams.
11. If discrepancies are found between the plans and specifications, include the more costly detail to the bid price.

## PART 2 PRODUCTS - NOT USED

## PART 3 EXECUTION

### 3.1 CONSTRUCTION MANAGER

- A. Coordination activities of the Construction Manager include, but are not limited to, the following:
- 1. Provide overall coordination of the Work.
  - 2. Provide overall coordination of temporary facilities and controls.
  - 3. Coordinate, schedule, and approve interruptions of permanent and temporary utilities, including those necessary to make connections for temporary services.
  - 4. Coordinate construction and operations of the Work with work performed by each contract.
  - 5. Coordinate sequencing and scheduling of the Work. Include the following:
    - a. Initial Coordination Meeting: At earliest possible date, arrange and conduct a meeting with separate contractors for sequencing and coordinating the Work; negotiate reasonable adjustments to schedules.
    - b. Distribute copies of schedules to Architect, Owner, and separate contractors.
  - 6. Provide construction photography.
  - 7. Coordinate sequence of activities to accommodate tests and inspections, and coordinate schedule of tests and inspections.
  - 8. Provide information necessary to adjust, move, or relocate existing utility structures affected by construction.
  - 9. Coordinate cutting and patching.
  - 10. Coordinate protection of the Work

### 3.2 COORDINATION

- A. Each Prime Contractor shall coordinate scheduling and installation of work with the work of other Contractors, sub-contractors and other trades. Each Prime Contractor is also required to coordinate all work of their Contract with Owner-supplied materials, direct contacts and normal building operations.
- B. Each Prime Contractor shall supply and coordinate exact locations of embedded items in concrete or masonry work with the General Contractor. Each Prime Contractor shall monitor such items throughout concrete/masonry activities to ensure proper placement.
- C. MECHANICAL, ELECTRICAL, AND PLUMBING Prime Contractors shall be responsible for providing any rough opening or masonry opening dimensions to the General Trades Contractor. FOR ALL NEW WORK. MECHANICAL, ELECTRICAL, AND PLUMBING Prime Contractors shall be responsible for any rework or additional work required due to their failure to provide this information prior to the schedule start of wall construction.

- D. Each Contractor shall coordinate all device and rough-in locations required with the casework shop drawings.
- E. Each Contractor shall take special care in verifying that his equipment matches the characteristic of the power being supplied. The Electrical Contractor shall coordinate electrical power requirements with Each Contractor for all equipment requiring power

END OF SECTION

SECTION 07 72 00  
ROOF ACCESSORIES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Curbs.
- B. Equipment rails.
- C. Roof penetrations mounting curbs.

1.2 RELATED REQUIREMENTS

- A. Section 07 62 00 - Sheet Metal Flashing and Trim: Roof accessory items fabricated from sheet metal.
- B. Section 07 71 00 - Roof Specialties: Other manufactured roof items.

1.3 REFERENCE STANDARDS

- A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2019a.

1.4 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's data sheets on each product to be used.
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
  - 4. Maintenance requirements.
- C. Shop Drawings: Submit detailed layout developed for this project and provide dimensioned location and number for each type of roof accessory.
  - 1. Non-penetrating Rooftop Supports: Submit design calculations for loadings and spacings.
- D. Warranty Documentation:
  - 1. Submit manufacturer warranty.
  - 2. Ensure that forms have been completed in Owner's name and registered with manufacturer.
  - 3. Submit documentation that roof accessories are acceptable to roofing manufacturer, and do not limit the roofing warranty.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store products under cover and elevated above grade.

1.6 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.



- B. Correct defective Work within a five year period after Date of Substantial Completion.

## PART 2 PRODUCTS

### 2.1 ROOF CURBS

- A. Roof Curbs Mounting Assemblies: Factory fabricated hollow sheet metal construction, internally reinforced, and capable of supporting superimposed live and dead loads and designated equipment load with fully mitered and sealed corner joints welded or mechanically fastened, and integral counterflashing with top and edges formed to shed water.
  - 1. Applications: Roof curbs used for roof penetrations/openings as indicated on drawings.
  - 2. Roof Curb Mounting Substrate: Curb substrate consists of flat roof deck sheathing with insulation.
  - 3. Sheet Metal Material:
  - 4. Galvanized Steel: Hot-dip zinc coated steel sheet complying with ASTM A653/A653M, SS Grade 33; G90 coating designation; 18 gage, 0.048 inch thick.
    - a. Finish: Baked enamel.
    - b. Color: As selected by Architect from manufacturer's standard line of colors.
  - 5. Provide layouts and configurations indicated on drawings.
- B. Curbs Adjacent to Roof Openings: Provide curb on each side of opening, with top of curb horizontal for equipment mounting.
  - 1. Provide preservative treated wood nailers along top of curb.
  - 2. Insulate inside curbs with 1-1/2 inch thick fiberglass insulation.
  - 3. Height Above Roof Deck: 18 inches, minimum.
- C. Equipment Rail Curbs: Straight curbs on each side of equipment, with top of curbs horizontal and level with each other for equipment mounting.
  - 1. Provide preservative treated wood nailers along top of rails.
  - 2. Height Above Roof Deck: 18 inches, minimum.
- D. Pipe, Duct, or Conduit Mounting Curbs: Vertical posts, minimum 8 inches square unless otherwise indicated.
  - 1. Provide sliding channel welded along top edge with adjustable height steel bracket, fabricated to fit item supported.
  - 2. Height Above Roof Deck: 18 inches, minimum.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using methods recommended by manufacturer for achieving acceptable results for applicable substrate under project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions, in manner that maintains roofing system weather-tight integrity.

3.4 CLEANING

- A. Clean installed work to like-new condition.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION